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Cover Page

Order ID : Q1415

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q1415-01	B-163-SB01
Q1415-02	B-172-SB01
Q1415-03	B-163-SB02
Q1415-04	B-172-SB02
Q1415-05	FB02222025
Q1415-06	B-173-GW01

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 3/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1415**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **MAHESH PATEL** **Date:** **03/03/2025**

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LAB CHRONICLE

OrderID:	Q1415	**OrderDate:**	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	**B-163-SB01**	**Solid**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-02	**B-172-SB01**	**Solid**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-03	**B-163-SB02**	**Solid**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-04	**B-172-SB02**	**Solid**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/27/25	02/28/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-05	**FB02222025**	**Water**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/25/25	02/25/25	
			PCB	8082A		02/25/25	02/25/25	
Q1415-06	**B-173-GW01**	**Water**			**02/22/25**			**02/24/25**
			EPH	NJEPH		02/25/25	02/25/25	
			PCB	8082A		02/25/25	02/25/25	

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Run Number: FC022525AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166863BL	64			0
PB166863BS	81			0
PB166863BSD	80			0
FB02222025	71			0
B-173-GW01	56			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Run Number: FC022825AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166923BL	83			0
PB166923BS	78			0
PB166923BSD	77			0
B-163-SB01	101			0
B-172-SB01	82			0
B-163-SB02	75			0
B-172-SB02	70			0
P001-CLAY-CF01-01MS	61			0
P001-CLAY-CF01-01MSD	65			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Run Number: FD022525AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166863BL	112	113	95	0
PB166863BS	120	114	103	0
PB166863BSD	120	113	102	0
FB02222025	107	111	99	0
B-173-GW01	123	127	56	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Run Number: FD022825AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166923BL	112	116	99	0
PB166923BS	117	124	106	0
PB166923BSD	118	126	107	0
B-163-SB01	103	92	102	0
B-172-SB01	94	86	80	0
B-163-SB02	105	98	79	0
B-172-SB02	114	118	83	0
P001-CLAY-CF01-01MS	118	124	67	0
P001-CLAY-CF01-01MSD	112	118	64	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOIL EPH SURROGATE RECOVERY

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (SURR)	(40-140)
ortho-Terphenyl (SURR)	(40-140)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate diluted out

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : Q1421-02 **Datafile:** FC068334.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	14.2	0	9.70	68		(40-140)
Aliphatic C12-C16	9.5	0.50	9.05	90		(40-140)
Aliphatic C16-C21	14.2	0.43	14.6	100		(40-140)
Aliphatic C21-C28	18.9	0	19.4	102		(40-140)
Aliphatic C28-C40	28.4	2.80	34.1	110		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : Q1421-03 **Datafile:** FC068335.D

Client ID : P001-CLAY-CF01-01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	14.2	0	9.71	68		0.15 |	(40-140)	25
Aliphatic C12-C16	9.5	0.50	9.10	91		0.44 |	(40-140)	25
Aliphatic C16-C21	14.2	0.43	14.7	100		0.1 |	(40-140)	25
Aliphatic C21-C28	18.9	0	19.6	103		0.98 |	(40-140)	25
Aliphatic C28-C40	28.4	2.80	34.6	111		0.9 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : Q1421-02 **Datafile:** FD049142.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	9.5	0.47	9.80	99		(40-140)
Aromatic C12-C16	14.2	0.65	17.2	116		(40-140)
Aromatic C16-C21	23.7	2.61	35.7	139		(40-140)
Aromatic C21-C36	37.8	0	57.2	151	*	(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : Q1421-03 **Datafile:** FD049143.D

Client ID : P001-CLAY-CF01-01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD | QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	9.5	0.47	9.34	94		5.1 | (40-140)	25
Aromatic C12-C16	14.2	0.65	16.4	110		5.31 | (40-140)	25
Aromatic C16-C21	23.7	2.61	34.2	133		4.41 | (40-140)	25
Aromatic C21-C36	37.9	0	55.5	146	*	3.37 | (40-140)	25

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166863BS **Datafile:** FC068297.D

Client ID : PB166863BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	172	57		(40-140)
Aliphatic C12-C16	200	158	79		(40-140)
Aliphatic C16-C21	300	268	89		(40-140)
Aliphatic C21-C28	400	366	92		(40-140)
Aliphatic C28-C40	600	602	100		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166863BSD **Datafile:** FC068298.D

Client ID : PB166863BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	175	58		1.8|	(40-140)	50
Aliphatic C12-C16	200	160	80		1.3|	(40-140)	50
Aliphatic C16-C21	300	268	89		0.03|	(40-140)	50
Aliphatic C21-C28	400	364	91		0.548|	(40-140)	50
Aliphatic C28-C40	600	602	100		0.33|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166923BS **Datafile:** FC068323.D

Client ID : PB166923BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	6.53	65		(40-140)
Aliphatic C12-C16	6.7	5.75	86		(40-140)
Aliphatic C16-C21	10	9.57	96		(40-140)
Aliphatic C21-C28	13.3	12.9	97		(40-140)
Aliphatic C28-C40	20.0	21.3	106		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166923BSD **Datafile:** FC068324.D

Client ID : PB166923BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	6.56	66		0.37|	(40-140)	50
Aliphatic C12-C16	6.7	5.75	86		0|	(40-140)	50
Aliphatic C16-C21	10	9.54	96		0.352|	(40-140)	50
Aliphatic C21-C28	13.3	12.9	97		0.01|	(40-140)	50
Aliphatic C28-C40	20.0	21.4	107		1|	(40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166863BS **Datafile:** FD049102.D

Client ID : PB166863BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	165	82		(40-140)
Aromatic C12-C16	300	410	136		(40-140)
Aromatic C16-C21	500	583	116		(40-140)
Aromatic C21-C36	800	905	113		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166863BSD **Datafile:** FD049103.D

Client ID : PB166863BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	165	82		0|	(40-140)	50
Aromatic C12-C16	300	302	100		29.9|	(40-140)	50
Aromatic C16-C21	500	581	116		0.17|	(40-140)	50
Aromatic C21-C36	800	909	113		0.55|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166923BS **Datafile:** FD049131.D

Client ID : PB166923BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	6.49	97		(40-140)
Aromatic C12-C16	10	11.1	111		(40-140)
Aromatic C16-C21	16.7	21.5	129		(40-140)
Aromatic C21-C36	26.6	34.3	128		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1415 **SAS No :** Q1415 **SDG No:** Q1415

Sample No : PB166923BSD **Datafile:** FD049132.D

Client ID : PB166923BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	6.56	98		1.1|	(40-140)	50
Aromatic C12-C16	10	11.3	113		1.9|	(40-140)	50
Aromatic C16-C21	16.7	21.8	130		1.5|	(40-140)	50
Aromatic C21-C36	26.6	34.9	130		2.3|	(40-140)	50

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166863BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Instrument ID: FID_C Lab Sample ID: PB166863BL

Matrix: (soil/water) Water Date Extracted: 2/25/2025 8:43:00 A

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB166863BS	PB166863BS
PB166863BSD	PB166863BSD
FB02222025	Q1415-05
B-173-GW01	Q1415-06

COMMENTS:

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166923BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

Instrument ID: FID_C Lab Sample ID: PB166923BL

Matrix: (soil/water) Solid Date Extracted: 2/27/2025 1:10:00 P

Level: (low/med) low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID
PB166923BS	PB166923BS
PB166923BSD	PB166923BSD
B-163-SB01	Q1415-01
B-172-SB01	Q1415-02
B-163-SB02	Q1415-03
B-172-SB02	Q1415-04

COMMENTS:

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 12:50	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	1	0.43	1.13	mg/kg	FC068325.D
Aliphatic C12-C16	Aliphatic C12-C16	0.83		1	0.27	0.75	mg/kg	FC068325.D
Aliphatic C16-C21	Aliphatic C16-C21	0.48	J	1	0.34	1.13	mg/kg	FC068325.D
Aliphatic C21-C28	Aliphatic C21-C28	0.96	J	1	0.90	1.50	mg/kg	FC068325.D
Aliphatic C28-C40	Aliphatic C28-C40	2.38		1	2.03	2.26	mg/kg	FC068325.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.75	mg/kg	FD049133.D
Aromatic C12-C16	Aromatic C12-C16	0.55	J	1	0.38	1.13	mg/kg	FD049133.D
Aromatic C16-C21	Aromatic C16-C21	2.57		1	1.08	1.88	mg/kg	FD049133.D
Aromatic C21-C36	Aromatic C21-C36	3.40		1	2.26	3.01	mg/kg	FD049133.D
Total AliphaticEPH	Total AliphaticEPH	4.64	J		3.97	6.77	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.51	J		4.06	6.77	mg/kg	
Total EPH	Total EPH	11.2	J		8.03	13.5	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 12:50	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	1	0.43	1.13	mg/kg	FC068325.D
Aliphatic C12-C16	Aliphatic C12-C16	0.83		1	0.27	0.75	mg/kg	FC068325.D
Aliphatic C16-C21	Aliphatic C16-C21	0.48	J	1	0.34	1.13	mg/kg	FC068325.D
Aliphatic C21-C28	Aliphatic C21-C28	0.96	J	1	0.90	1.50	mg/kg	FC068325.D
Aliphatic C28-C40	Aliphatic C28-C40	2.38		1	2.03	2.26	mg/kg	FC068325.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.75	mg/kg	FD049133.D
Aromatic C12-C16	Aromatic C12-C16	0.55	J	1	0.38	1.13	mg/kg	FD049133.D
Aromatic C16-C21	Aromatic C16-C21	2.57		1	1.08	1.88	mg/kg	FD049133.D
Aromatic C21-C36	Aromatic C21-C36	3.40		1	2.26	3.01	mg/kg	FD049133.D
Total AliphaticEPH	Total AliphaticEPH	4.64	J		3.97	6.77	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.51	J		4.06	6.77	mg/kg	
Total EPH	Total EPH	11.2	J		8.03	13.5	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068325.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.43	U	0.43	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.83		0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.48	J	0.34	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.96	J	0.90	1.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.38		2.03	2.26	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		50.5		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-01	Acq On:	28 Feb 2025 12:50
Client Sample ID:	B-163-SB01	Operator:	YP/AJ
Data file:	FC068325.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	654794	4.643	300	ug/ml
Aliphatic C12-C16	6.370	9.754	1499637	10.974	200	ug/ml
Aliphatic C16-C21	9.755	13.107	831398	6.316	300	ug/ml
Aliphatic C21-C28	13.108	16.761	1571550	12.809	400	ug/ml
Aliphatic C28-C40	16.762	21.565	3260834	31.706	600	ug/ml
Aliphatic EPH	3.104	21.565	7818213	66.448		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.841	12.841	5678401	50.49		ug/ml
Aliphatic C9-C28	3.104	16.761	4557379	34.742	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068325.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:50
Operator : YP/AJ
Sample : Q1415-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-163-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:23:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.841	5678401	50.486 ug/ml
Spiked Amount 50.000		Recovery = 100.97%	
Target Compounds			

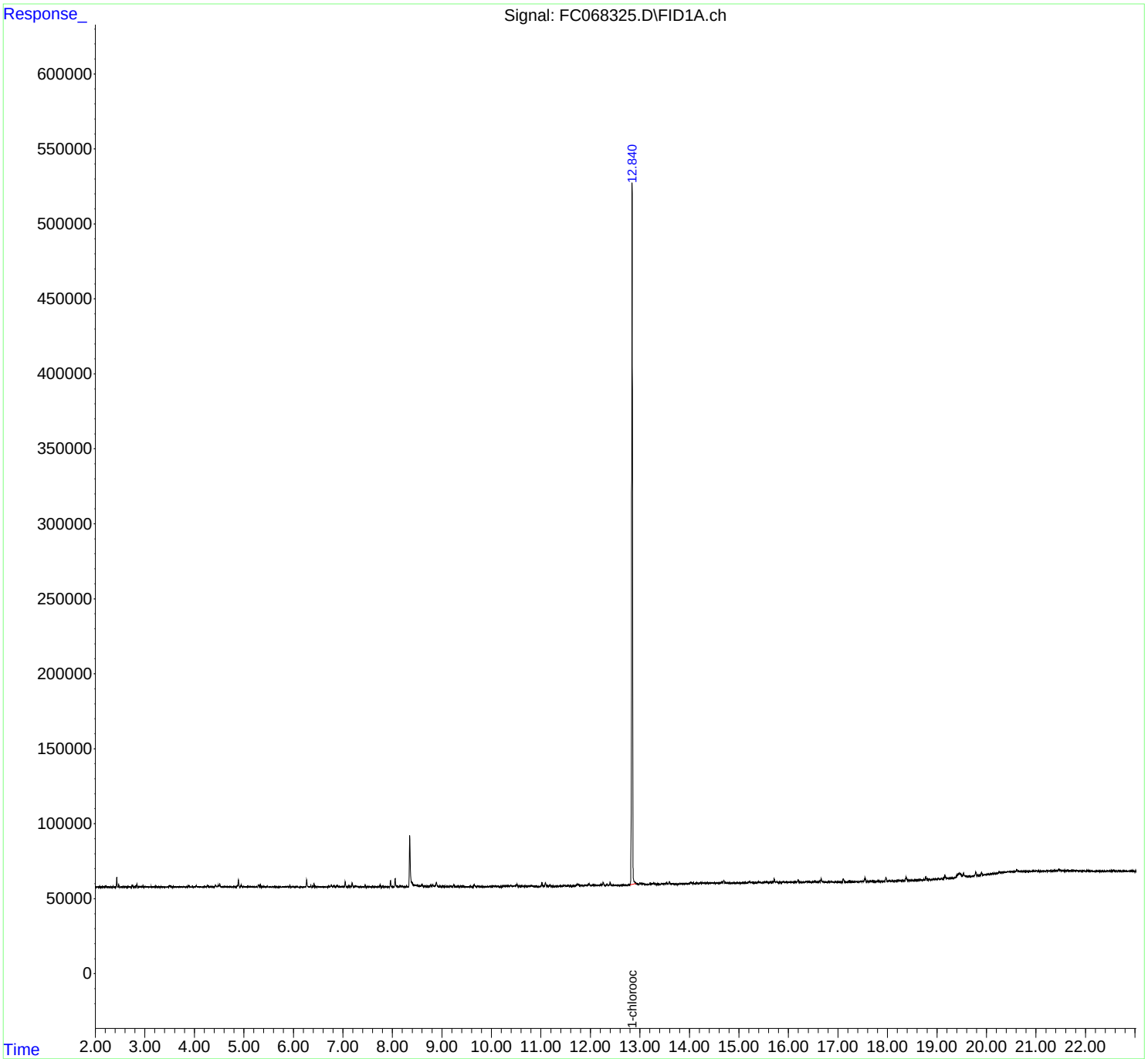
(f)=RT Delta > 1/2 Window (m)=manual int.

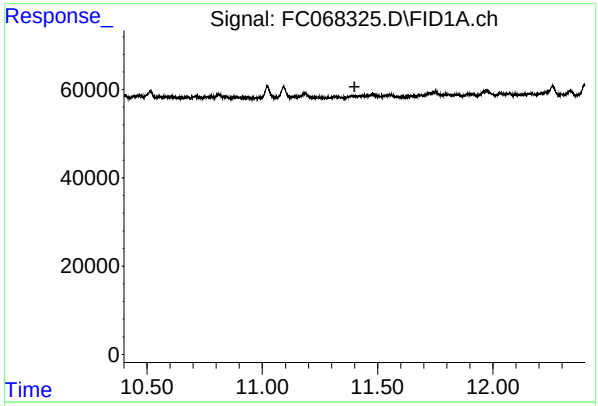
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068325.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:50
Operator : YP/AJ
Sample : Q1415-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-163-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:23:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

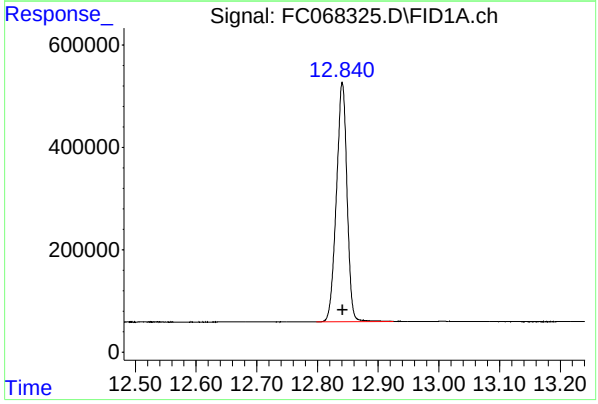




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-163-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 12.841 min
Delta R.T.: 0.000 min
Response: 5678401
Conc: 50.49 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068325.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:50
Sample : Q1415-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.359	2.304	2.411	BV	613	8860	0.15%	0.063%
2	2.432	2.411	2.454	VV	6596	51062	0.88%	0.364%
3	2.473	2.454	2.508	VV	934	9696	0.17%	0.069%
4	2.561	2.508	2.571	VV	402	4731	0.08%	0.034%
5	2.592	2.571	2.640	VV	269	4267	0.07%	0.030%
6	2.655	2.640	2.691	VV	372	5174	0.09%	0.037%
7	2.699	2.691	2.721	VV	113	1759	0.03%	0.013%
8	2.743	2.721	2.771	VV	978	15408	0.27%	0.110%
9	2.788	2.771	2.821	VV	417	6525	0.11%	0.047%
10	2.839	2.821	2.866	VV	2239	21089	0.36%	0.150%
11	2.918	2.866	2.938	VV	343	7582	0.13%	0.054%
12	2.961	2.938	2.984	VV	809	10077	0.17%	0.072%
13	2.995	2.984	3.010	VV	178	2391	0.04%	0.017%
14	3.027	3.010	3.036	VV	210	2322	0.04%	0.017%
15	3.049	3.036	3.071	VV	193	2623	0.05%	0.019%
16	3.082	3.071	3.088	VV	153	1066	0.02%	0.008%
17	3.129	3.088	3.151	VV	240	4358	0.08%	0.031%
18	3.163	3.151	3.181	VV	165	1999	0.03%	0.014%
19	3.208	3.181	3.278	VV	476	10240	0.18%	0.073%
20	3.301	3.278	3.330	VV	181	4462	0.08%	0.032%
21	3.341	3.330	3.358	VV	276	2494	0.04%	0.018%
22	3.369	3.358	3.454	VV	148	7097	0.12%	0.051%
23	3.466	3.454	3.470	VV	238	1643	0.03%	0.012%
24	3.499	3.470	3.544	VV	1329	20131	0.35%	0.144%
25	3.573	3.544	3.608	VV	387	6771	0.12%	0.048%
26	3.615	3.608	3.655	VV	209	3621	0.06%	0.026%
27	3.693	3.655	3.744	VV	211	7525	0.13%	0.054%
28	3.788	3.744	3.824	VV	235	6464	0.11%	0.046%
29	3.865	3.824	3.877	VV	507	7119	0.12%	0.051%
30	3.894	3.877	3.948	VV	1124	17405	0.30%	0.124%
31	3.960	3.948	3.988	VV	381	4741	0.08%	0.034%
32	4.040	3.988	4.101	VV	1017	21269	0.37%	0.152%
33	4.175	4.101	4.209	VV	240	10987	0.19%	0.078%
34	4.214	4.209	4.234	VV	272	2922	0.05%	0.021%
35	4.262	4.234	4.314	VV	1335	24813	0.43%	0.177%
36	4.328	4.314	4.343	VV	288	4129	0.07%	0.029%

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37	4.374	4.343	4.394	VV	512	9130	0.16%	0.065%
38	4.428	4.394	4.447	VV	1495	20109	0.35%	0.143%
39	4.484	4.447	4.498	VV	1413	21110	0.37%	0.151%
40	4.513	4.498	4.562	VV	2316	30229	0.52%	0.216%
41	4.583	4.562	4.598	VV	359	6459	0.11%	0.046%
42	4.634	4.598	4.650	VV	382	9576	0.17%	0.068%
43	4.660	4.650	4.688	VV	332	6416	0.11%	0.046%
44	4.699	4.688	4.708	VV	246	2601	0.05%	0.019%
45	4.724	4.708	4.761	VV	455	6937	0.12%	0.049%
46	4.772	4.761	4.791	VV	174	2457	0.04%	0.018%
47	4.811	4.791	4.828	VV	502	7391	0.13%	0.053%
48	4.890	4.828	4.919	VV	4948	69081	1.20%	0.493%
49	4.945	4.919	4.980	VV	1244	20503	0.35%	0.146%
50	4.998	4.980	5.041	VV	482	8684	0.15%	0.062%
51	5.084	5.041	5.104	VV	478	10772	0.19%	0.077%
52	5.114	5.104	5.140	VV	353	5766	0.10%	0.041%
53	5.150	5.140	5.163	VV	351	3442	0.06%	0.025%
54	5.180	5.163	5.192	VV	331	4416	0.08%	0.031%
55	5.200	5.192	5.236	VV	270	5886	0.10%	0.042%
56	5.246	5.236	5.251	VV	237	1884	0.03%	0.013%
57	5.258	5.251	5.274	VV	301	3084	0.05%	0.022%
58	5.293	5.274	5.315	VV	1687	21986	0.38%	0.157%
59	5.331	5.315	5.371	VV	1817	23771	0.41%	0.170%
60	5.388	5.371	5.441	VV	630	11889	0.21%	0.085%
61	5.467	5.441	5.503	VV	468	10938	0.19%	0.078%
62	5.512	5.503	5.524	VV	130	1467	0.03%	0.010%
63	5.582	5.524	5.628	VV	515	13647	0.24%	0.097%
64	5.635	5.628	5.664	VV	241	3592	0.06%	0.026%
65	5.678	5.664	5.689	VV	183	2330	0.04%	0.017%
66	5.695	5.689	5.727	VV	177	2148	0.04%	0.015%
67	5.745	5.727	5.763	VV	212	2648	0.05%	0.019%
68	5.792	5.763	5.804	VV	203	3310	0.06%	0.024%
69	5.840	5.804	5.868	VV	449	9869	0.17%	0.070%
70	5.885	5.868	5.914	VV	501	8218	0.14%	0.059%
71	5.930	5.914	5.967	VV	931	12578	0.22%	0.090%
72	5.992	5.967	6.024	VV	458	8466	0.15%	0.060%
73	6.059	6.024	6.088	VV	435	9648	0.17%	0.069%
74	6.098	6.088	6.131	VV	156	2803	0.05%	0.020%
75	6.156	6.131	6.191	PV	182	4218	0.07%	0.030%
76	6.269	6.191	6.330	VV	4874	63897	1.11%	0.456%
77	6.352	6.330	6.374	VV	923	11248	0.19%	0.080%
78	6.417	6.374	6.438	VV	1484	24160	0.42%	0.172%
79	6.450	6.438	6.469	VV	576	6171	0.11%	0.044%
80	6.490	6.469	6.511	VV	733	7802	0.13%	0.056%
81	6.541	6.511	6.566	VV	185	3391	0.06%	0.024%
82	6.589	6.566	6.625	VV	221	5133	0.09%	0.037%
83	6.641	6.625	6.652	VV	193	2687	0.05%	0.019%
84	6.662	6.652	6.684	VV	222	2802	0.05%	0.020%
85	6.709	6.684	6.734	VV	830	10266	0.18%	0.073%
86	6.761	6.734	6.794	VV	1115	20949	0.36%	0.149%
87	6.821	6.794	6.851	VV	850	19219	0.33%	0.137%
88	6.887	6.851	6.909	VV	1424	23279	0.40%	0.166%
89	6.927	6.909	6.946	VV	377	5156	0.09%	0.037%

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90	6.968	6.946	6.981	VV	491	6504	0.11%	0.046%
91	6.990	6.981	7.011	VV	409	4994	0.09%	0.036%
92	7.048	7.011	7.081	VV	3509	41492	0.72%	0.296%
93	7.107	7.081	7.141	VV	510	12722	0.22%	0.091%
94	7.155	7.141	7.168	VV	708	8120	0.14%	0.058%
95	7.189	7.168	7.231	VV	2906	39034	0.68%	0.278%
96	7.252	7.231	7.265	VV	606	9396	0.16%	0.067%
97	7.279	7.265	7.305	VV	753	9689	0.17%	0.069%
98	7.315	7.305	7.334	VV	254	3253	0.06%	0.023%
99	7.358	7.334	7.386	VV	266	5613	0.10%	0.040%
100	7.397	7.386	7.426	VV	182	3244	0.06%	0.023%
101	7.448	7.426	7.481	PV	1485	16470	0.28%	0.117%
102	7.501	7.481	7.574	VV	383	13462	0.23%	0.096%
103	7.612	7.574	7.629	VV	394	8027	0.14%	0.057%
104	7.641	7.629	7.654	VV	387	4217	0.07%	0.030%
105	7.665	7.654	7.683	VV	337	4030	0.07%	0.029%
106	7.708	7.683	7.728	VV	514	6559	0.11%	0.047%
107	7.753	7.728	7.787	VV	1386	17456	0.30%	0.125%
108	7.809	7.787	7.828	VV	1116	12373	0.21%	0.088%
109	7.844	7.828	7.864	VV	284	4439	0.08%	0.032%
110	7.877	7.864	7.896	VV	494	5610	0.10%	0.040%
111	7.909	7.896	7.937	VV	229	3269	0.06%	0.023%
112	7.963	7.937	8.028	VV	4398	54897	0.95%	0.392%
113	8.056	8.028	8.131	VV	5614	74816	1.29%	0.534%
114	8.162	8.131	8.187	VV	655	16297	0.28%	0.116%
115	8.203	8.187	8.225	VV	566	8679	0.15%	0.062%
116	8.248	8.225	8.270	VV	486	7172	0.12%	0.051%
117	8.288	8.270	8.324	VV	639	8961	0.16%	0.064%
118	8.352	8.324	8.448	VV	34221	527163	9.12%	3.760%
119	8.460	8.448	8.489	VV	1230	27567	0.48%	0.197%
120	8.512	8.489	8.531	VV	1167	26518	0.46%	0.189%
121	8.543	8.531	8.561	VV	1103	16238	0.28%	0.116%
122	8.593	8.561	8.634	VV	1623	41958	0.73%	0.299%
123	8.655	8.634	8.689	VV	740	15193	0.26%	0.108%
124	8.707	8.689	8.733	VV	629	10523	0.18%	0.075%
125	8.773	8.733	8.793	VV	1459	25250	0.44%	0.180%
126	8.812	8.793	8.825	VV	1305	17229	0.30%	0.123%
127	8.833	8.825	8.856	VV	873	13770	0.24%	0.098%
128	8.890	8.856	8.924	VV	3235	60105	1.04%	0.429%
129	8.934	8.924	8.941	VV	315	2620	0.05%	0.019%
130	8.963	8.941	8.984	VV	945	12964	0.22%	0.092%
131	9.012	8.984	9.033	VV	617	9777	0.17%	0.070%
132	9.063	9.033	9.074	VV	322	6041	0.10%	0.043%
133	9.093	9.074	9.141	VV	379	11745	0.20%	0.084%
134	9.177	9.141	9.214	VV	678	17765	0.31%	0.127%
135	9.241	9.214	9.280	VV	1494	23859	0.41%	0.170%
136	9.313	9.280	9.355	VV	341	10048	0.17%	0.072%
137	9.381	9.355	9.410	VV	665	10526	0.18%	0.075%
138	9.434	9.410	9.493	VV	625	12816	0.22%	0.091%
139	9.497	9.493	9.517	VV	196	1926	0.03%	0.014%
140	9.525	9.517	9.551	VV	190	2066	0.04%	0.015%
141	9.575	9.551	9.630	VV	505	10853	0.19%	0.077%

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142	9.653	9.630	9.699	VV	1706	26557	0.46%	0.189%
143	9.724	9.699	9.741	VV	488	9147	0.16%	0.065%
144	9.750	9.741	9.781	VV	418	7603	0.13%	0.054%
145	9.798	9.781	9.847	VV	332	8321	0.14%	0.059%
146	9.868	9.847	9.878	VV	78	1167	0.02%	0.008%
147	9.926	9.878	9.944	PV	306	7277	0.13%	0.052%
148	9.969	9.944	9.991	VV	534	9727	0.17%	0.069%
149	10.002	9.991	10.008	VV	313	2793	0.05%	0.020%
150	10.044	10.008	10.062	VV	654	14312	0.25%	0.102%
151	10.080	10.062	10.101	VV	677	10108	0.17%	0.072%
152	10.126	10.101	10.151	VV	449	10070	0.17%	0.072%
153	10.158	10.151	10.190	VV	401	4957	0.09%	0.035%
154	10.208	10.190	10.218	VV	229	2784	0.05%	0.020%
155	10.250	10.218	10.265	VV	649	9984	0.17%	0.071%
156	10.284	10.265	10.303	VV	526	9798	0.17%	0.070%
157	10.327	10.303	10.350	VV	661	13270	0.23%	0.095%
158	10.389	10.350	10.428	VV	1028	27196	0.47%	0.194%
159	10.469	10.428	10.487	VV	671	20091	0.35%	0.143%
160	10.514	10.487	10.538	VV	1705	28850	0.50%	0.206%
161	10.549	10.538	10.571	VV	394	6463	0.11%	0.046%
162	10.604	10.571	10.628	VV	389	10881	0.19%	0.078%
163	10.673	10.628	10.688	VV	300	8658	0.15%	0.062%
164	10.710	10.688	10.734	VV	493	9265	0.16%	0.066%
165	10.813	10.734	10.834	VV	906	25483	0.44%	0.182%
166	10.843	10.834	10.860	VV	360	3524	0.06%	0.025%
167	10.884	10.860	10.911	PV	249	5178	0.09%	0.037%
168	10.917	10.911	10.929	VV	133	1207	0.02%	0.009%
169	10.937	10.929	10.954	VV	91	1039	0.02%	0.007%
170	10.964	10.954	10.974	VV	94	838	0.01%	0.006%
171	11.022	10.974	11.057	VV	2719	40771	0.71%	0.291%
172	11.092	11.057	11.122	VV	2629	39908	0.69%	0.285%
173	11.139	11.122	11.151	VV	381	5427	0.09%	0.039%
174	11.184	11.151	11.223	VV	1055	20686	0.36%	0.148%
175	11.234	11.223	11.274	VV	173	2931	0.05%	0.021%
176	11.314	11.274	11.351	PV	207	5372	0.09%	0.038%
177	11.447	11.351	11.461	VV	432	21086	0.36%	0.150%
178	11.478	11.461	11.512	VV	762	14643	0.25%	0.104%
179	11.553	11.512	11.621	VV	571	17594	0.30%	0.126%
180	11.686	11.621	11.697	VV	485	12527	0.22%	0.089%
181	11.752	11.697	11.781	VV	1175	37589	0.65%	0.268%
182	11.799	11.781	11.821	VV	598	11681	0.20%	0.083%
183	11.836	11.821	11.874	VV	481	10945	0.19%	0.078%
184	11.891	11.874	11.901	VV	608	7947	0.14%	0.057%
185	11.911	11.901	11.931	VV	564	8079	0.14%	0.058%
186	11.972	11.931	12.014	VV	1355	36262	0.63%	0.259%
187	12.032	12.014	12.054	VV	716	12910	0.22%	0.092%
188	12.070	12.054	12.118	VV	683	15998	0.28%	0.114%
189	12.165	12.118	12.187	VV	562	17682	0.31%	0.126%
190	12.259	12.187	12.311	VV	2252	59733	1.03%	0.426%
191	12.336	12.311	12.368	VV	1204	18787	0.33%	0.134%
192	12.396	12.368	12.418	VV	2473	33484	0.58%	0.239%
193	12.428	12.418	12.447	VV	444	6225	0.11%	0.044%
194	12.461	12.447	12.498	VV	491	10018	0.17%	0.071%

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195	12.512	12.498	12.528	VV	367	4918	0.09%	0.035%
196	12.537	12.528	12.574	VV	315	5098	0.09%	0.036%
197	12.668	12.608	12.704	VV	470	17721	0.31%	0.126%
198	12.718	12.704	12.737	VV	388	5535	0.10%	0.039%
199	12.761	12.737	12.777	VV	575	9046	0.16%	0.065%
200	12.841	12.777	12.982	VV	468001	5779505	100.00%	41.225%
201	13.007	12.982	13.044	VV	1488	38522	0.67%	0.275%
202	13.070	13.044	13.100	VV	1067	29032	0.50%	0.207%
203	13.115	13.100	13.183	VV	681	29127	0.50%	0.208%
204	13.222	13.183	13.251	VV	816	28740	0.50%	0.205%
205	13.285	13.251	13.341	VV	1087	44371	0.77%	0.316%
206	13.353	13.341	13.378	VV	606	11931	0.21%	0.085%
207	13.389	13.378	13.405	VV	575	8869	0.15%	0.063%
208	13.444	13.405	13.482	VV	931	32756	0.57%	0.234%
209	13.502	13.482	13.511	VV	726	11515	0.20%	0.082%
210	13.539	13.511	13.561	VV	1303	27628	0.48%	0.197%
211	13.594	13.561	13.632	VV	2283	48854	0.85%	0.348%
212	13.653	13.632	13.664	VV	744	12210	0.21%	0.087%
213	13.672	13.664	13.712	VV	645	14487	0.25%	0.103%
214	13.722	13.712	13.764	VV	459	11380	0.20%	0.081%
215	13.828	13.764	13.871	VV	800	38343	0.66%	0.274%
216	13.887	13.871	13.911	VV	617	13959	0.24%	0.100%
217	13.919	13.911	13.942	VV	617	10429	0.18%	0.074%
218	13.953	13.942	13.964	VV	608	7250	0.13%	0.052%
219	14.030	13.964	14.109	VV	1786	79026	1.37%	0.564%
220	14.155	14.109	14.194	VV	1177	39498	0.68%	0.282%
221	14.215	14.194	14.264	VV	921	34561	0.60%	0.247%
222	14.275	14.264	14.283	VV	912	9807	0.17%	0.070%
223	14.291	14.283	14.314	VV	936	15360	0.27%	0.110%
224	14.321	14.314	14.334	VV	760	8457	0.15%	0.060%
225	14.361	14.334	14.381	VV	942	23054	0.40%	0.164%
226	14.406	14.381	14.428	VV	942	24472	0.42%	0.175%
227	14.467	14.428	14.487	VV	981	31349	0.54%	0.224%
228	14.502	14.487	14.518	VV	900	15030	0.26%	0.107%
229	14.551	14.518	14.584	VV	966	31330	0.54%	0.223%
230	14.595	14.584	14.625	VV	781	16730	0.29%	0.119%
231	14.653	14.625	14.671	VV	1300	27663	0.48%	0.197%
232	14.694	14.671	14.734	VV	2540	52740	0.91%	0.376%
233	14.750	14.734	14.788	VV	868	23588	0.41%	0.168%
234	14.801	14.788	14.851	VV	616	18287	0.32%	0.130%
235	14.894	14.851	15.018	VV	820	63696	1.10%	0.454%
236	15.073	15.018	15.088	VV	654	24336	0.42%	0.174%
237	15.114	15.088	15.152	VV	842	26968	0.47%	0.192%
238	15.213	15.152	15.241	VV	1573	45777	0.79%	0.327%
239	15.263	15.241	15.321	VV	945	32751	0.57%	0.234%
240	15.338	15.321	15.358	VV	587	12342	0.21%	0.088%
241	15.362	15.358	15.371	VV	598	4396	0.08%	0.031%
242	15.394	15.371	15.471	VV	861	41244	0.71%	0.294%
243	15.479	15.471	15.487	VV	602	5351	0.09%	0.038%
244	15.531	15.487	15.544	VV	932	27024	0.47%	0.193%
245	15.568	15.544	15.652	VV	952	48374	0.84%	0.345%
246	15.673	15.652	15.686	VV	953	16552	0.29%	0.118%

247	15.713	15.686	15.739	VV	2535	45530	0.79%	0.325%
248	15.760	15.739	15.821	VV	1045	32403	0.56%	0.231%
249	15.900	15.821	15.920	VV	813	32509	0.56%	0.232%
250	15.931	15.920	15.949	VV	633	9804	0.17%	0.070%
251	15.958	15.949	15.979	VV	521	8394	0.15%	0.060%
252	16.032	15.979	16.062	VV	748	29982	0.52%	0.214%
253	16.068	16.062	16.129	VV	661	21465	0.37%	0.153%
254	16.154	16.129	16.168	VV	556	11565	0.20%	0.082%
255	16.194	16.168	16.222	VV	1723	32415	0.56%	0.231%
256	16.235	16.222	16.278	VV	777	19662	0.34%	0.140%
257	16.288	16.278	16.324	VV	559	12127	0.21%	0.087%
258	16.352	16.324	16.408	VV	787	30765	0.53%	0.219%
259	16.418	16.408	16.461	VV	802	18286	0.32%	0.130%
260	16.502	16.461	16.518	VV	677	19080	0.33%	0.136%
261	16.526	16.518	16.534	VV	661	6270	0.11%	0.045%
262	16.538	16.534	16.569	VV	693	12158	0.21%	0.087%
263	16.579	16.569	16.599	VV	570	8985	0.16%	0.064%
264	16.627	16.599	16.637	VV	885	13870	0.24%	0.099%
265	16.661	16.637	16.735	VV	2594	54668	0.95%	0.390%
266	16.768	16.735	16.787	VV	408	10397	0.18%	0.074%
267	16.815	16.787	16.858	VV	562	17387	0.30%	0.124%
268	16.873	16.858	16.904	VV	546	9754	0.17%	0.070%
269	16.945	16.904	16.967	VV	405	9717	0.17%	0.069%
270	16.982	16.967	17.022	VV	388	9776	0.17%	0.070%
271	17.041	17.022	17.068	VV	451	6732	0.12%	0.048%
272	17.110	17.068	17.174	VV	2245	43669	0.76%	0.311%
273	17.222	17.174	17.240	VV	420	13252	0.23%	0.095%
274	17.256	17.240	17.279	VV	460	8181	0.14%	0.058%
275	17.291	17.279	17.322	VV	304	5824	0.10%	0.042%
276	17.391	17.322	17.418	VV	375	14669	0.25%	0.105%
277	17.431	17.418	17.468	VV	296	7225	0.13%	0.052%
278	17.546	17.468	17.624	VV	2918	65236	1.13%	0.465%
279	17.632	17.624	17.640	VV	226	1864	0.03%	0.013%
280	17.685	17.640	17.754	VV	575	23608	0.41%	0.168%
281	17.768	17.754	17.791	VV	267	2756	0.05%	0.020%
282	17.841	17.791	17.888	VV	387	13192	0.23%	0.094%
283	17.969	17.888	18.005	PV	2847	52002	0.90%	0.371%
284	18.028	18.005	18.081	VV	456	11287	0.20%	0.081%
285	18.091	18.081	18.124	VV	307	5570	0.10%	0.040%
286	18.165	18.124	18.186	VV	201	5380	0.09%	0.038%
287	18.240	18.186	18.301	VV	443	17598	0.30%	0.126%
288	18.378	18.301	18.434	VV	2493	55365	0.96%	0.395%
289	18.455	18.434	18.486	VV	337	6823	0.12%	0.049%
290	18.505	18.486	18.524	VV	353	5721	0.10%	0.041%
291	18.540	18.524	18.571	VV	317	5903	0.10%	0.042%
292	18.577	18.571	18.588	VV	186	1448	0.03%	0.010%
293	18.631	18.588	18.654	VV	319	5913	0.10%	0.042%
294	18.665	18.654	18.701	VV	297	5002	0.09%	0.036%
295	18.728	18.701	18.748	PV	296	3632	0.06%	0.026%
296	18.776	18.748	18.834	VV	2048	35746	0.62%	0.255%
297	18.852	18.834	18.890	VV	252	6165	0.11%	0.044%
298	19.021	18.890	19.054	VV	489	28547	0.49%	0.204%
299	19.064	19.054	19.105	VV	333	9049	0.16%	0.065%

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300	19.161	19.105	19.235	VV	2397	62617	1.08%	0.447%
301	19.449	19.235	19.514	VV	3103	225038	3.89%	1.605%
302	19.537	19.514	19.624	VV	2848	102140	1.77%	0.729%
303	19.637	19.624	19.652	VV	944	14144	0.24%	0.101%
304	19.782	19.652	19.844	VV	3174	149020	2.58%	1.063%
305	19.901	19.844	19.934	VV	2623	89620	1.55%	0.639%
306	19.956	19.934	19.991	VV	1654	52863	0.91%	0.377%
307	20.166	19.991	20.178	VV	2039	195076	3.38%	1.391%
308	20.260	20.178	20.283	VV	2715	140350	2.43%	1.001%
309	20.438	20.283	20.467	VV	2822	279695	4.84%	1.995%
310	20.476	20.467	20.505	VV	2692	60173	1.04%	0.429%
311	20.511	20.505	20.518	VV	2570	20243	0.35%	0.144%
312	20.611	20.518	20.681	VV	3578	268862	4.65%	1.918%
313	20.685	20.681	20.698	VV	2542	24912	0.43%	0.178%
314	20.710	20.698	20.771	VV	2580	107308	1.86%	0.765%
315	20.783	20.771	20.802	VV	2376	43756	0.76%	0.312%
316	20.815	20.802	20.834	VV	2414	46177	0.80%	0.329%
317	20.850	20.834	20.878	VV	2337	59543	1.03%	0.425%
318	20.900	20.878	20.913	VV	2276	48510	0.84%	0.346%
319	20.951	20.913	20.971	VV	2263	76403	1.32%	0.545%
320	21.008	20.971	21.074	VV	2342	132377	2.29%	0.944%
321	21.089	21.074	21.112	VV	2050	45723	0.79%	0.326%
322	21.169	21.112	21.188	VV	1994	87712	1.52%	0.626%
323	21.232	21.188	21.264	VV	1923	85314	1.48%	0.609%
324	21.279	21.264	21.308	VV	1808	45713	0.79%	0.326%
325	21.314	21.308	21.328	VV	1773	20643	0.36%	0.147%
326	21.369	21.328	21.384	VV	1739	57279	0.99%	0.409%
327	21.464	21.384	21.531	VV	2449	156737	2.71%	1.118%
328	21.557	21.531	21.576	VV	1481	38496	0.67%	0.275%
329	21.593	21.576	21.691	VV	1440	88152	1.53%	0.629%
330	21.702	21.691	21.708	VV	1174	11898	0.21%	0.085%
331	21.743	21.708	21.768	VV	1187	39812	0.69%	0.284%
332	21.792	21.768	21.944	VV	1038	82649	1.43%	0.590%
333	21.978	21.944	21.994	VV	595	16134	0.28%	0.115%
334	22.001	21.994	22.018	VV	506	6074	0.11%	0.043%
335	22.026	22.018	22.044	VV	436	5964	0.10%	0.043%
336	22.064	22.044	22.081	VV	444	7071	0.12%	0.050%
337	22.088	22.081	22.124	VV	310	5667	0.10%	0.040%
338	22.137	22.124	22.171	VV	239	3572	0.06%	0.025%

Sum of corrected areas: 14019342

Aliphatic EPH 021125.M Sat Mar 01 01:26:01 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049133.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.34	U	0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.55	J	0.38	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.57		1.08	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.40		2.26	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.3		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.1		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	51.2		40 - 140	102%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-01	Acq On:	28 Feb 2025 12:50
Client Sample ID:	B-163-SB01	Operator:	YP/AJ
Data file:	FD049133.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	639802	4.023	200	ug/ml
Aromatic C12-C16	5.795	8.396	1166774	7.25	300	ug/ml
Aromatic C16-C21	8.397	12.661	5246823	34.213	500	ug/ml
Aromatic C21-C36	12.662	18.073	6465271	45.175	800	ug/ml
Aromatic EPH	4.076	18.073	13518670	90.661		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	8287576	51.23		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	7340019	51.29		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4052606	46.1		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049133.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:50
Operator : YP/AJ
Sample : Q1415-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-163-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:18:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	7340019	51.290 ug/ml
Spiked Amount 50.000		Recovery = 102.58%	
6) S 2-Flurobiphenyl (SURR)	8.202	4052606	46.099 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 92.20%	
11) S ortho-Terphenyl (SURR)	11.236	8287576	51.229 ug/ml
Spiked Amount 50.000		Recovery = 102.46%	
Target Compounds			

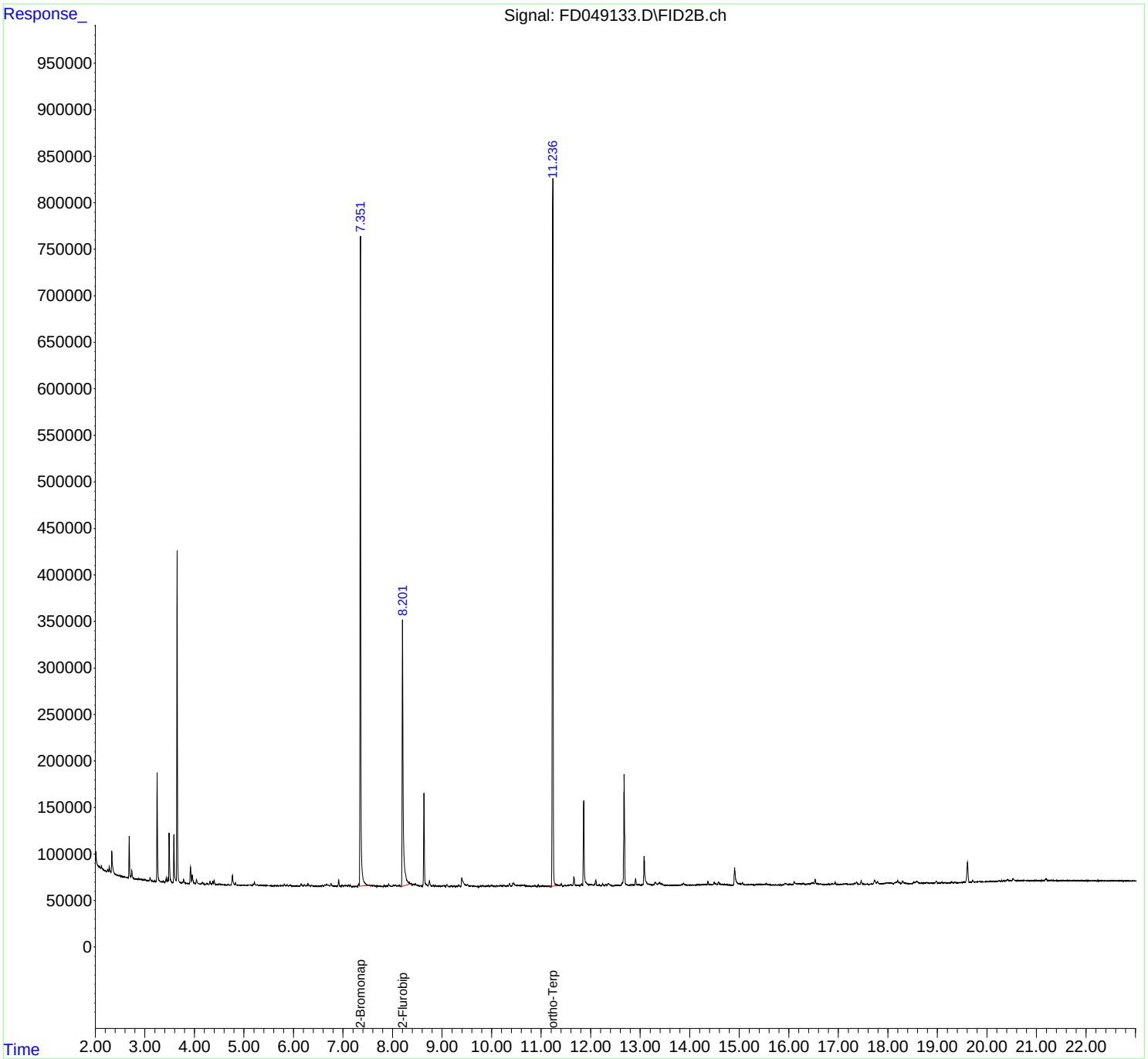
(f)=RT Delta > 1/2 Window (m)=manual int.

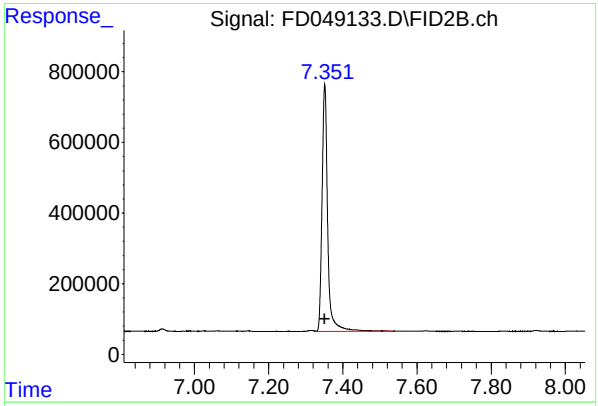
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049133.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:50
Operator : YP/AJ
Sample : Q1415-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-163-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:18:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

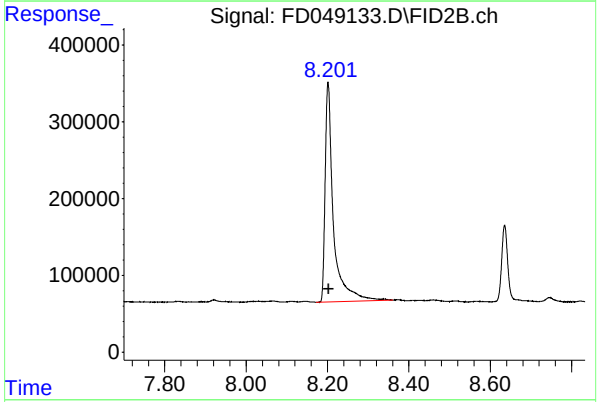




#4 2-Bromonaphthalene (SURR)

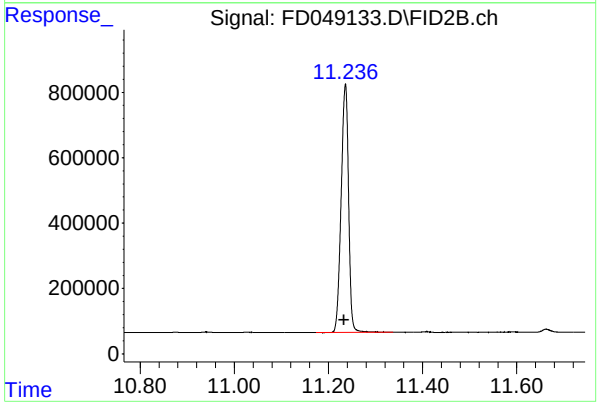
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 7340019
Conc: 51.29 ug/ml

Instrument :
FID_D
ClientSampleId :
B-163-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 4052606
Conc: 46.10 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.003 min
Response: 8287576
Conc: 51.23 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049133.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:50
Sample : Q1415-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.159	4.132	4.210	PV	1936	28925	0.35%	0.086%
2	4.215	4.210	4.228	VV	206	1371	0.02%	0.004%
3	4.261	4.228	4.293	PV	824	13216	0.16%	0.039%
4	4.315	4.293	4.338	VV	3534	42505	0.51%	0.126%
5	4.344	4.338	4.354	VV	952	8526	0.10%	0.025%
6	4.369	4.354	4.383	VV	3792	37800	0.45%	0.112%
7	4.398	4.383	4.437	VV	5168	58341	0.70%	0.173%
8	4.451	4.437	4.458	VV	353	2895	0.03%	0.009%
9	4.464	4.458	4.468	VV	375	1836	0.02%	0.005%
10	4.485	4.468	4.500	VV	911	12759	0.15%	0.038%
11	4.512	4.500	4.545	VV	1101	14992	0.18%	0.045%
12	4.550	4.545	4.554	VV	414	1652	0.02%	0.005%
13	4.556	4.554	4.567	VV	344	1575	0.02%	0.005%
14	4.580	4.567	4.625	VV	529	9777	0.12%	0.029%
15	4.690	4.649	4.704	PV	702	8501	0.10%	0.025%
16	4.710	4.704	4.720	VV	348	2817	0.03%	0.008%
17	4.727	4.720	4.737	VV	349	2805	0.03%	0.008%
18	4.767	4.737	4.812	VV	10813	161198	1.93%	0.479%
19	4.826	4.812	4.875	VV	2677	35054	0.42%	0.104%
20	4.879	4.875	4.912	VV	380	4674	0.06%	0.014%
21	4.916	4.912	4.929	VV	185	1602	0.02%	0.005%
22	4.934	4.929	4.952	VV	177	2039	0.02%	0.006%
23	4.963	4.952	5.000	VV	554	7417	0.09%	0.022%
24	5.013	5.010	5.042	VV	182	1749	0.02%	0.005%
25	5.059	5.042	5.069	VV	257	2329	0.03%	0.007%
26	5.097	5.069	5.100	VV	483	5900	0.07%	0.018%
27	5.107	5.100	5.114	VV	513	3535	0.04%	0.011%
28	5.119	5.114	5.125	VV	463	2949	0.04%	0.009%
29	5.138	5.125	5.164	VV	606	9139	0.11%	0.027%
30	5.186	5.164	5.195	VV	1258	14210	0.17%	0.042%
31	5.213	5.195	5.252	VV	3867	49815	0.60%	0.148%
32	5.270	5.252	5.302	VV	1176	17421	0.21%	0.052%
33	5.308	5.302	5.322	VV	363	3293	0.04%	0.010%
34	5.330	5.322	5.349	VV	569	7480	0.09%	0.022%
35	5.361	5.349	5.400	VV	378	7851	0.09%	0.023%
36	5.415	5.400	5.441	VV	379	5904	0.07%	0.018%

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37	5.468	5.441	5.485	VV	578	8423	0.10%	0.025%
38	5.493	5.485	5.507	VV	298	2425	0.03%	0.007%
39	5.522	5.507	5.530	VV	457	2961	0.04%	0.009%
40	5.540	5.530	5.549	VV	200	2204	0.03%	0.007%
41	5.553	5.549	5.560	VV	266	1011	0.01%	0.003%
42	5.572	5.569	5.599	VV	313	1193	0.01%	0.004%
43	5.638	5.626	5.652	VV	231	2061	0.02%	0.006%
44	5.662	5.652	5.668	VV	345	2274	0.03%	0.007%
45	5.677	5.668	5.703	VV	311	3842	0.05%	0.011%
46	5.724	5.703	5.731	VV	531	5052	0.06%	0.015%
47	5.736	5.731	5.749	VV	416	3130	0.04%	0.009%
48	5.754	5.749	5.757	VV	364	1165	0.01%	0.003%
49	5.771	5.757	5.798	VV	708	10209	0.12%	0.030%
50	5.813	5.798	5.855	VV	1710	28094	0.34%	0.084%
51	5.871	5.855	5.902	VV	1388	17749	0.21%	0.053%
52	5.937	5.902	5.975	VV	996	22658	0.27%	0.067%
53	5.987	5.975	5.992	VV	340	1962	0.02%	0.006%
54	5.998	5.992	6.007	VV	287	1329	0.02%	0.004%
55	6.014	6.007	6.027	VV	216	1203	0.01%	0.004%
56	6.035	6.027	6.047	VV	134	1159	0.01%	0.003%
57	6.064	6.047	6.072	VV	366	2966	0.04%	0.009%
58	6.077	6.072	6.085	VV	251	1116	0.01%	0.003%
59	6.089	6.085	6.103	VV	172	1081	0.01%	0.003%
60	6.111	6.103	6.119	PV	286	1877	0.02%	0.006%
61	6.121	6.119	6.131	VV	246	1404	0.02%	0.004%
62	6.153	6.131	6.195	VV	2539	38613	0.46%	0.115%
63	6.221	6.195	6.245	VV	1923	26313	0.32%	0.078%
64	6.266	6.245	6.276	VV	991	12084	0.14%	0.036%
65	6.293	6.276	6.318	VV	2961	39059	0.47%	0.116%
66	6.323	6.318	6.346	VV	1023	9751	0.12%	0.029%
67	6.364	6.346	6.430	VV	1446	25301	0.30%	0.075%
68	6.446	6.430	6.464	VV	285	3589	0.04%	0.011%
69	6.477	6.464	6.489	VV	260	2668	0.03%	0.008%
70	6.505	6.489	6.519	VV	454	5107	0.06%	0.015%
71	6.522	6.519	6.534	VV	325	2168	0.03%	0.006%
72	6.548	6.534	6.557	VV	337	3223	0.04%	0.010%
73	6.579	6.557	6.611	VV	1696	22460	0.27%	0.067%
74	6.631	6.611	6.652	VV	1920	32313	0.39%	0.096%
75	6.677	6.652	6.693	VV	2330	43758	0.53%	0.130%
76	6.703	6.693	6.729	VV	1778	24366	0.29%	0.072%
77	6.757	6.729	6.797	VV	3172	56085	0.67%	0.167%
78	6.802	6.797	6.827	VV	834	10146	0.12%	0.030%
79	6.835	6.827	6.847	VV	659	7001	0.08%	0.021%
80	6.859	6.847	6.880	VV	802	11599	0.14%	0.034%
81	6.913	6.880	6.955	VV	7178	89569	1.07%	0.266%
82	6.987	6.955	7.012	VV	1460	30215	0.36%	0.090%
83	7.025	7.012	7.039	VV	1536	18997	0.23%	0.056%
84	7.048	7.039	7.054	VV	1197	9513	0.11%	0.028%
85	7.061	7.054	7.085	VV	1650	22200	0.27%	0.066%
86	7.114	7.085	7.131	VV	1489	28528	0.34%	0.085%
87	7.145	7.131	7.184	VV	1716	21777	0.26%	0.065%
88	7.211	7.184	7.215	PV	439	5388	0.06%	0.016%
89	7.222	7.215	7.245	VV	522	7048	0.08%	0.021%

90	7.252	7.245	7.285	VV	559	8964	0.11%	0.027%
91	7.315	7.285	7.328	VV	3104	37990	0.46%	0.113%
92	7.351	7.328	7.506	VV	699744	7429792	89.15%	22.090%
93	7.512	7.506	7.535	VV	1693	26497	0.32%	0.079%
94	7.539	7.535	7.567	VV	1452	23609	0.28%	0.070%
95	7.578	7.567	7.603	VV	1326	23660	0.28%	0.070%
96	7.624	7.603	7.655	VV	2008	35351	0.42%	0.105%
97	7.659	7.655	7.666	VV	724	4152	0.05%	0.012%
98	7.670	7.666	7.675	VV	678	3621	0.04%	0.011%
99	7.680	7.675	7.695	VV	1024	7412	0.09%	0.022%
100	7.712	7.695	7.731	VV	905	14847	0.18%	0.044%
101	7.740	7.731	7.747	VV	706	5398	0.06%	0.016%
102	7.751	7.747	7.772	VV	670	7331	0.09%	0.022%
103	7.780	7.772	7.795	VV	454	5082	0.06%	0.015%
104	7.801	7.795	7.807	VV	554	2892	0.03%	0.009%
105	7.813	7.807	7.817	VV	570	2762	0.03%	0.008%
106	7.834	7.817	7.854	VV	1356	18380	0.22%	0.055%
107	7.894	7.854	7.901	VV	756	17005	0.20%	0.051%
108	7.921	7.901	7.942	VV	3255	42342	0.51%	0.126%
109	7.948	7.942	7.987	VV	1063	18467	0.22%	0.055%
110	8.032	7.987	8.047	VV	1496	36020	0.43%	0.107%
111	8.067	8.047	8.095	VV	1701	33777	0.41%	0.100%
112	8.112	8.095	8.130	VV	1280	19836	0.24%	0.059%
113	8.146	8.130	8.174	VV	1405	20653	0.25%	0.061%
114	8.202	8.174	8.361	VV	285793	4235668	50.83%	12.593%
115	8.375	8.361	8.394	VV	3426	59289	0.71%	0.176%
116	8.425	8.394	8.442	VV	2681	68876	0.83%	0.205%
117	8.460	8.442	8.499	VV	3286	79816	0.96%	0.237%
118	8.515	8.499	8.544	VV	1924	33769	0.41%	0.100%
119	8.566	8.544	8.602	VV	1353	33704	0.40%	0.100%
120	8.635	8.602	8.719	VV	100549	1120699	13.45%	3.332%
121	8.746	8.719	8.787	VV	6335	111238	1.33%	0.331%
122	8.791	8.787	8.803	VV	793	7002	0.08%	0.021%
123	8.822	8.803	8.845	VV	1687	26134	0.31%	0.078%
124	8.869	8.845	8.898	VV	1347	28044	0.34%	0.083%
125	8.908	8.898	8.920	VV	637	7378	0.09%	0.022%
126	8.949	8.920	9.000	VV	1006	29746	0.36%	0.088%
127	9.020	9.000	9.027	VV	1127	13701	0.16%	0.041%
128	9.040	9.027	9.054	VV	1186	13358	0.16%	0.040%
129	9.058	9.054	9.076	VV	413	5341	0.06%	0.016%
130	9.096	9.076	9.141	VV	2448	38373	0.46%	0.114%
131	9.174	9.141	9.187	VV	758	11130	0.13%	0.033%
132	9.194	9.187	9.219	VV	609	8908	0.11%	0.026%
133	9.241	9.219	9.270	VV	1002	15414	0.18%	0.046%
134	9.301	9.270	9.309	VV	591	8952	0.11%	0.027%
135	9.338	9.309	9.359	VV	1864	29312	0.35%	0.087%
136	9.361	9.359	9.372	VV	652	3527	0.04%	0.010%
137	9.398	9.372	9.497	VV	9338	282105	3.39%	0.839%
138	9.514	9.497	9.566	VV	2661	54537	0.65%	0.162%
139	9.585	9.566	9.630	VV	1151	31658	0.38%	0.094%
140	9.650	9.630	9.672	VV	758	13808	0.17%	0.041%
141	9.682	9.672	9.720	VV	480	8004	0.10%	0.024%

142	9.726	9.720	9.754	VV	328	4221	0.05%	0.013%
143	9.763	9.754	9.768	VV	592	3919	0.05%	0.012%
144	9.782	9.768	9.798	VV	730	10511	0.13%	0.031%
145	9.819	9.798	9.845	VV	1293	22048	0.26%	0.066%
146	9.856	9.845	9.869	VV	599	6477	0.08%	0.019%
147	9.881	9.869	9.895	VV	699	9745	0.12%	0.029%
148	9.904	9.895	9.919	VV	975	11451	0.14%	0.034%
149	9.930	9.919	9.959	VV	1058	18592	0.22%	0.055%
150	9.972	9.959	9.982	VV	952	11981	0.14%	0.036%
151	9.989	9.982	9.997	VV	1117	8685	0.10%	0.026%
152	10.012	9.997	10.035	VV	1742	23756	0.29%	0.071%
153	10.048	10.035	10.077	VV	709	10699	0.13%	0.032%
154	10.102	10.077	10.114	VV	1282	18169	0.22%	0.054%
155	10.134	10.114	10.160	VV	1167	21524	0.26%	0.064%
156	10.178	10.160	10.205	VV	1432	27743	0.33%	0.082%
157	10.245	10.205	10.278	VV	1686	45499	0.55%	0.135%
158	10.289	10.278	10.307	VV	1089	12407	0.15%	0.037%
159	10.323	10.307	10.340	VV	1133	16002	0.19%	0.048%
160	10.363	10.340	10.387	VV	3406	50876	0.61%	0.151%
161	10.400	10.387	10.409	VV	860	9649	0.12%	0.029%
162	10.427	10.409	10.472	VV	3685	98135	1.18%	0.292%
163	10.479	10.472	10.510	VV	1873	35908	0.43%	0.107%
164	10.523	10.510	10.540	VV	1462	22117	0.27%	0.066%
165	10.546	10.540	10.551	VV	1197	7402	0.09%	0.022%
166	10.556	10.551	10.567	VV	1178	10835	0.13%	0.032%
167	10.580	10.567	10.592	VV	1433	19544	0.23%	0.058%
168	10.605	10.592	10.617	VV	1445	20395	0.24%	0.061%
169	10.630	10.617	10.647	VV	1422	22450	0.27%	0.067%
170	10.660	10.647	10.684	VV	2255	31429	0.38%	0.093%
171	10.698	10.684	10.717	VV	1197	17241	0.21%	0.051%
172	10.724	10.717	10.732	VV	832	6934	0.08%	0.021%
173	10.737	10.732	10.768	VV	856	13660	0.16%	0.041%
174	10.772	10.768	10.778	VV	518	2516	0.03%	0.007%
175	10.785	10.778	10.791	VV	410	2720	0.03%	0.008%
176	10.794	10.791	10.816	VV	344	5160	0.06%	0.015%
177	10.819	10.816	10.824	VV	454	1873	0.02%	0.006%
178	10.830	10.824	10.858	VV	601	9130	0.11%	0.027%
179	10.875	10.858	10.907	VV	1237	18455	0.22%	0.055%
180	10.941	10.907	10.968	VV	2015	30644	0.37%	0.091%
181	11.027	10.968	11.057	VV	1230	36464	0.44%	0.108%
182	11.067	11.057	11.077	VV	539	5614	0.07%	0.017%
183	11.089	11.077	11.100	VV	716	8184	0.10%	0.024%
184	11.107	11.100	11.112	VV	644	3880	0.05%	0.012%
185	11.116	11.112	11.130	VV	652	5871	0.07%	0.017%
186	11.135	11.130	11.140	VV	484	2495	0.03%	0.007%
187	11.146	11.140	11.160	VV	591	5902	0.07%	0.018%
188	11.162	11.160	11.166	VV	526	1702	0.02%	0.005%
189	11.172	11.166	11.190	VV	501	4005	0.05%	0.012%
190	11.236	11.190	11.310	PV	763740	8333654	100.00%	24.777%
191	11.317	11.310	11.337	VV	1901	26086	0.31%	0.078%
192	11.344	11.337	11.352	VV	1414	11283	0.14%	0.034%
193	11.353	11.352	11.363	VV	1202	7217	0.09%	0.021%
194	11.379	11.363	11.392	VV	1600	23604	0.28%	0.070%

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195	11.408	11.392	11.432	VV	2783	42694	0.51%	0.127%
196	11.475	11.432	11.525	VV	1329	56006	0.67%	0.167%
197	11.565	11.525	11.579	VV	1847	46023	0.55%	0.137%
198	11.591	11.579	11.625	VV	2097	44775	0.54%	0.133%
199	11.663	11.625	11.700	VV	10710	165232	1.98%	0.491%
200	11.714	11.700	11.723	VV	1505	17767	0.21%	0.053%
201	11.735	11.723	11.774	VV	1495	37847	0.45%	0.113%
202	11.814	11.774	11.835	VV	2740	59788	0.72%	0.178%
203	11.861	11.835	11.965	VV	92377	1242402	14.91%	3.694%
204	11.972	11.965	12.001	VV	2014	40628	0.49%	0.121%
205	12.011	12.001	12.045	VV	1844	44003	0.53%	0.131%
206	12.078	12.045	12.083	VV	2315	40739	0.49%	0.121%
207	12.104	12.083	12.153	VV	7190	114507	1.37%	0.340%
208	12.177	12.153	12.209	VV	2137	43659	0.52%	0.130%
209	12.241	12.209	12.283	VV	2835	62067	0.74%	0.185%
210	12.305	12.283	12.332	VV	2238	41896	0.50%	0.125%
211	12.350	12.332	12.460	VV	2946	115139	1.38%	0.342%
212	12.464	12.460	12.473	VV	642	4557	0.05%	0.014%
213	12.494	12.473	12.503	VV	1008	15208	0.18%	0.045%
214	12.522	12.503	12.539	VV	1123	22363	0.27%	0.066%
215	12.543	12.539	12.548	VV	1023	4967	0.06%	0.015%
216	12.561	12.548	12.577	VV	1105	16076	0.19%	0.048%
217	12.598	12.577	12.614	VV	1143	21137	0.25%	0.063%
218	12.676	12.614	12.719	VV	120414	1568370	18.82%	4.663%
219	12.725	12.719	12.758	VV	1822	35342	0.42%	0.105%
220	12.765	12.758	12.777	VV	1333	11891	0.14%	0.035%
221	12.810	12.777	12.824	VV	1689	36924	0.44%	0.110%
222	12.851	12.824	12.879	VV	1645	48171	0.58%	0.143%
223	12.907	12.879	12.936	VV	7995	122900	1.47%	0.365%
224	12.953	12.936	12.977	VV	1880	40303	0.48%	0.120%
225	12.989	12.977	13.010	VV	1620	28786	0.35%	0.086%
226	13.035	13.010	13.050	VV	1662	34046	0.41%	0.101%
227	13.080	13.050	13.164	VV	32138	566155	6.79%	1.683%
228	13.177	13.164	13.200	VV	2276	43291	0.52%	0.129%
229	13.206	13.200	13.214	VV	1642	12817	0.15%	0.038%
230	13.220	13.214	13.241	VV	1757	24349	0.29%	0.072%
231	13.254	13.241	13.268	VV	1546	23007	0.28%	0.068%
232	13.310	13.268	13.347	VV	4089	126084	1.51%	0.375%
233	13.363	13.347	13.369	VV	2669	30550	0.37%	0.091%
234	13.389	13.369	13.411	VV	3991	78004	0.94%	0.232%
235	13.431	13.411	13.508	VV	3121	86923	1.04%	0.258%
236	13.514	13.508	13.525	VV	843	7259	0.09%	0.022%
237	13.547	13.525	13.577	VV	1216	27695	0.33%	0.082%
238	13.581	13.577	13.596	VV	707	7068	0.08%	0.021%
239	13.609	13.596	13.626	VV	607	8975	0.11%	0.027%
240	13.649	13.626	13.655	VV	674	9434	0.11%	0.028%
241	13.667	13.655	13.695	VV	798	16166	0.19%	0.048%
242	13.704	13.695	13.717	VV	730	7945	0.10%	0.024%
243	13.729	13.717	13.739	VV	817	9266	0.11%	0.028%
244	13.745	13.739	13.750	VV	641	4548	0.05%	0.014%
245	13.762	13.750	13.777	VV	868	10896	0.13%	0.032%
246	13.792	13.777	13.805	VV	983	13884	0.17%	0.041%

247	13.809	13.805	13.812	VV	847	3071	0.04%	0.009%
248	13.816	13.812	13.819	VV	879	3697	0.04%	0.011%
249	13.842	13.819	13.847	VV	1500	20590	0.25%	0.061%
250	13.875	13.847	13.898	VV	2762	61103	0.73%	0.182%
251	13.905	13.898	13.932	VV	1424	23921	0.29%	0.071%
252	13.949	13.932	13.974	VV	1119	24113	0.29%	0.072%
253	13.985	13.974	14.012	VV	943	19793	0.24%	0.059%
254	14.041	14.012	14.049	VV	1043	19757	0.24%	0.059%
255	14.060	14.049	14.068	VV	941	10054	0.12%	0.030%
256	14.116	14.068	14.120	VV	1108	31043	0.37%	0.092%
257	14.159	14.120	14.218	VV	1351	64659	0.78%	0.192%
258	14.244	14.218	14.254	VV	1421	24622	0.30%	0.073%
259	14.259	14.254	14.265	VV	1294	8488	0.10%	0.025%
260	14.277	14.265	14.283	VV	1433	13688	0.16%	0.041%
261	14.295	14.283	14.320	VV	1559	30009	0.36%	0.089%
262	14.333	14.320	14.345	VV	1425	19227	0.23%	0.057%
263	14.366	14.345	14.397	VV	4691	76793	0.92%	0.228%
264	14.401	14.397	14.410	VV	1466	10737	0.13%	0.032%
265	14.424	14.410	14.456	VV	1341	31756	0.38%	0.094%
266	14.495	14.456	14.514	VV	4009	78710	0.94%	0.234%
267	14.527	14.514	14.557	VV	2537	42829	0.51%	0.127%
268	14.579	14.557	14.642	VV	4216	108624	1.30%	0.323%
269	14.650	14.642	14.677	VV	1563	27150	0.33%	0.081%
270	14.694	14.677	14.724	VV	1492	33323	0.40%	0.099%
271	14.751	14.724	14.782	VV	1752	39898	0.48%	0.119%
272	14.796	14.782	14.821	VV	956	17075	0.20%	0.051%
273	14.838	14.821	14.862	VV	804	17892	0.21%	0.053%
274	14.905	14.862	15.005	VV	19006	444851	5.34%	1.323%
275	15.019	15.005	15.041	VV	1887	37829	0.45%	0.112%
276	15.062	15.041	15.098	VV	3119	64272	0.77%	0.191%
277	15.108	15.098	15.135	VV	1255	20866	0.25%	0.062%
278	15.142	15.135	15.149	VV	813	5807	0.07%	0.017%
279	15.175	15.149	15.203	VV	1113	27350	0.33%	0.081%
280	15.246	15.203	15.265	VV	1275	35782	0.43%	0.106%
281	15.272	15.265	15.316	VV	898	22755	0.27%	0.068%
282	15.336	15.316	15.340	VV	1020	12233	0.15%	0.036%
283	15.351	15.340	15.358	VV	1196	12055	0.14%	0.036%
284	15.378	15.358	15.392	VV	1472	26192	0.31%	0.078%
285	15.398	15.392	15.412	VV	1318	12495	0.15%	0.037%
286	15.436	15.412	15.474	VV	1374	38263	0.46%	0.114%
287	15.507	15.474	15.526	VV	1460	32517	0.39%	0.097%
288	15.542	15.526	15.577	VV	2297	42324	0.51%	0.126%
289	15.585	15.577	15.601	VV	1096	14073	0.17%	0.042%
290	15.610	15.601	15.640	VV	1083	18014	0.22%	0.054%
291	15.646	15.640	15.663	VV	585	5000	0.06%	0.015%
292	15.694	15.663	15.701	VV	667	10321	0.12%	0.031%
293	15.709	15.701	15.717	VV	458	4209	0.05%	0.013%
294	15.722	15.717	15.730	VV	480	3459	0.04%	0.010%
295	15.741	15.730	15.764	VV	621	9457	0.11%	0.028%
296	15.768	15.764	15.790	VV	485	6385	0.08%	0.019%
297	15.797	15.790	15.805	VV	465	3111	0.04%	0.009%
298	15.838	15.805	15.859	VV	566	14223	0.17%	0.042%
299	15.868	15.859	15.887	VV	628	8010	0.10%	0.024%

300	15.923	15.887	15.968	VV	2143	63190	0.76%	0.188%
301	15.982	15.968	15.997	VV	1244	18369	0.22%	0.055%
302	16.001	15.997	16.006	VV	1034	4923	0.06%	0.015%
303	16.024	16.006	16.069	VV	1220	33627	0.40%	0.100%
304	16.107	16.069	16.125	VV	4073	70560	0.85%	0.210%
305	16.130	16.125	16.169	VV	2194	45538	0.55%	0.135%
306	16.194	16.169	16.202	VV	1726	30712	0.37%	0.091%
307	16.209	16.202	16.253	VV	1612	44749	0.54%	0.133%
308	16.256	16.253	16.261	VV	1302	5551	0.07%	0.017%
309	16.295	16.261	16.349	VV	2078	70330	0.84%	0.209%
310	16.376	16.349	16.385	VV	1304	23365	0.28%	0.069%
311	16.402	16.385	16.424	VV	1407	28189	0.34%	0.084%
312	16.452	16.424	16.470	VV	2289	47390	0.57%	0.141%
313	16.486	16.470	16.508	VV	2712	47471	0.57%	0.141%
314	16.530	16.508	16.555	VV	6355	97329	1.17%	0.289%
315	16.572	16.555	16.619	VV	2039	52780	0.63%	0.157%
316	16.625	16.619	16.653	VV	1206	21222	0.25%	0.063%
317	16.656	16.653	16.682	VV	1131	15018	0.18%	0.045%
318	16.690	16.682	16.712	VV	780	10836	0.13%	0.032%
319	16.715	16.712	16.726	VV	634	5006	0.06%	0.015%
320	16.730	16.726	16.736	VV	625	3259	0.04%	0.010%
321	16.741	16.736	16.765	VV	521	8526	0.10%	0.025%
322	16.798	16.765	16.833	VV	1202	32579	0.39%	0.097%
323	16.869	16.833	16.899	VV	1287	38654	0.46%	0.115%
324	16.935	16.899	16.976	VV	2796	62027	0.74%	0.184%
325	16.990	16.976	17.001	VV	802	9867	0.12%	0.029%
326	17.048	17.001	17.093	VV	902	40946	0.49%	0.122%
327	17.109	17.093	17.114	VV	1079	11288	0.14%	0.034%
328	17.126	17.114	17.149	VV	1142	21213	0.25%	0.063%
329	17.159	17.149	17.175	VV	1021	14725	0.18%	0.044%
330	17.179	17.175	17.195	VV	1028	10542	0.13%	0.031%
331	17.211	17.195	17.226	VV	960	15758	0.19%	0.047%
332	17.239	17.226	17.249	VV	949	10812	0.13%	0.032%
333	17.268	17.249	17.277	VV	951	13779	0.17%	0.041%
334	17.282	17.277	17.288	VV	937	5097	0.06%	0.015%
335	17.336	17.288	17.350	VV	1761	44637	0.54%	0.133%
336	17.369	17.350	17.397	VV	3025	53267	0.64%	0.158%
337	17.412	17.397	17.432	VV	882	16239	0.19%	0.048%
338	17.460	17.432	17.511	VV	4612	87606	1.05%	0.260%
339	17.517	17.511	17.538	VV	879	12332	0.15%	0.037%
340	17.543	17.538	17.559	VV	765	8328	0.10%	0.025%
341	17.586	17.559	17.598	VV	843	17306	0.21%	0.051%
342	17.606	17.598	17.618	VV	637	5548	0.07%	0.016%
343	17.634	17.618	17.641	PV	588	5622	0.07%	0.017%
344	17.662	17.641	17.684	VV	1099	19364	0.23%	0.058%
345	17.728	17.684	17.766	VV	4861	122744	1.47%	0.365%
346	17.791	17.766	17.868	VV	3056	84305	1.01%	0.251%
347	17.889	17.868	17.902	VV	786	12809	0.15%	0.038%
348	17.911	17.902	17.918	VV	573	4455	0.05%	0.013%
349	17.951	17.918	17.955	VV	993	17505	0.21%	0.052%
350	17.968	17.955	17.972	VV	1181	11283	0.14%	0.034%
351	17.992	17.972	18.026	VV	1491	38407	0.46%	0.114%

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352	18.031	18.026	18.035	VV	973	5309	0.06%	0.016%
353	18.039	18.035	18.047	VV	1082	6988	0.08%	0.021%
354	18.053	18.047	18.065	VV	932	9276	0.11%	0.028%
355	18.070	18.065	18.095	VV	872	11190	0.13%	0.033%
356	18.100	18.095	18.115	VV	587	5196	0.06%	0.015%
357	18.143	18.115	18.146	VV	1355	17162	0.21%	0.051%
358	18.154	18.146	18.157	VV	1378	8404	0.10%	0.025%
359	18.164	18.157	18.170	VV	1550	11257	0.14%	0.033%
360	18.197	18.170	18.267	VV	3084	75050	0.90%	0.223%

Sum of corrected areas: 33634842

Aromatic EPH 021125.M Sat Mar 01 03:57:44 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 13:26	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.44	U	1	0.44	1.15	mg/kg	FC068326.D
Aliphatic C12-C16	Aliphatic C12-C16	0.66	J	1	0.28	0.77	mg/kg	FC068326.D
Aliphatic C16-C21	Aliphatic C16-C21	0.35	U	1	0.35	1.15	mg/kg	FC068326.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.54	mg/kg	FC068326.D
Aliphatic C28-C40	Aliphatic C28-C40	2.08	U	1	2.08	2.31	mg/kg	FC068326.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.77	mg/kg	FD049134.D
Aromatic C12-C16	Aromatic C12-C16	0.41	J	1	0.39	1.15	mg/kg	FD049134.D
Aromatic C16-C21	Aromatic C16-C21	1.32	J	1	1.11	1.92	mg/kg	FD049134.D
Aromatic C21-C36	Aromatic C21-C36	2.31	U	1	2.31	3.07	mg/kg	FD049134.D
Total AliphaticEPH	Total AliphaticEPH	4.06	U		4.06	6.92	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.16	U		4.16	6.91	mg/kg	
Total EPH	Total EPH	8.22	U		8.22	13.8	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 13:26	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.44	U	1	0.44	1.15	mg/kg	FC068326.D
Aliphatic C12-C16	Aliphatic C12-C16	0.66	J	1	0.28	0.77	mg/kg	FC068326.D
Aliphatic C16-C21	Aliphatic C16-C21	0.35	U	1	0.35	1.15	mg/kg	FC068326.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.54	mg/kg	FC068326.D
Aliphatic C28-C40	Aliphatic C28-C40	2.08	U	1	2.08	2.31	mg/kg	FC068326.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.77	mg/kg	FD049134.D
Aromatic C12-C16	Aromatic C12-C16	0.41	J	1	0.39	1.15	mg/kg	FD049134.D
Aromatic C16-C21	Aromatic C16-C21	1.32	J	1	1.11	1.92	mg/kg	FD049134.D
Aromatic C21-C36	Aromatic C21-C36	2.31	U	1	2.31	3.07	mg/kg	FD049134.D
Total AliphaticEPH	Total AliphaticEPH	4.06	U		4.06	6.92	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.16	U		4.16	6.91	mg/kg	
Total EPH	Total EPH	8.22	U		8.22	13.8	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068326.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.44	U	0.44	1.15	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.66	J	0.28	0.77	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.35	U	0.35	1.15	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.92	U	0.92	1.54	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.08	U	2.08	2.31	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		40.9		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-02	Acq On:	28 Feb 2025 13:26
Client Sample ID:	B-172-SB01	Operator:	YP/AJ
Data file:	FC068326.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	495963	3.517	300	ug/ml
Aliphatic C12-C16	6.370	9.754	1170303	8.564	200	ug/ml
Aliphatic C16-C21	9.755	13.107	581055	4.414	300	ug/ml
Aliphatic C21-C28	13.108	16.761	488917	3.985	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2673478	25.995	600	ug/ml
Aliphatic EPH	3.104	21.565	5409716	46.475		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.839	12.839	4594404	40.85		ug/ml
Aliphatic C9-C28	3.104	16.761	2736238	20.48	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068326.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 13:26
Operator : YP/AJ
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-172-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:23:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.839	4594404	40.848 ug/ml
Spiked Amount 50.000		Recovery = 81.70%	
Target Compounds			

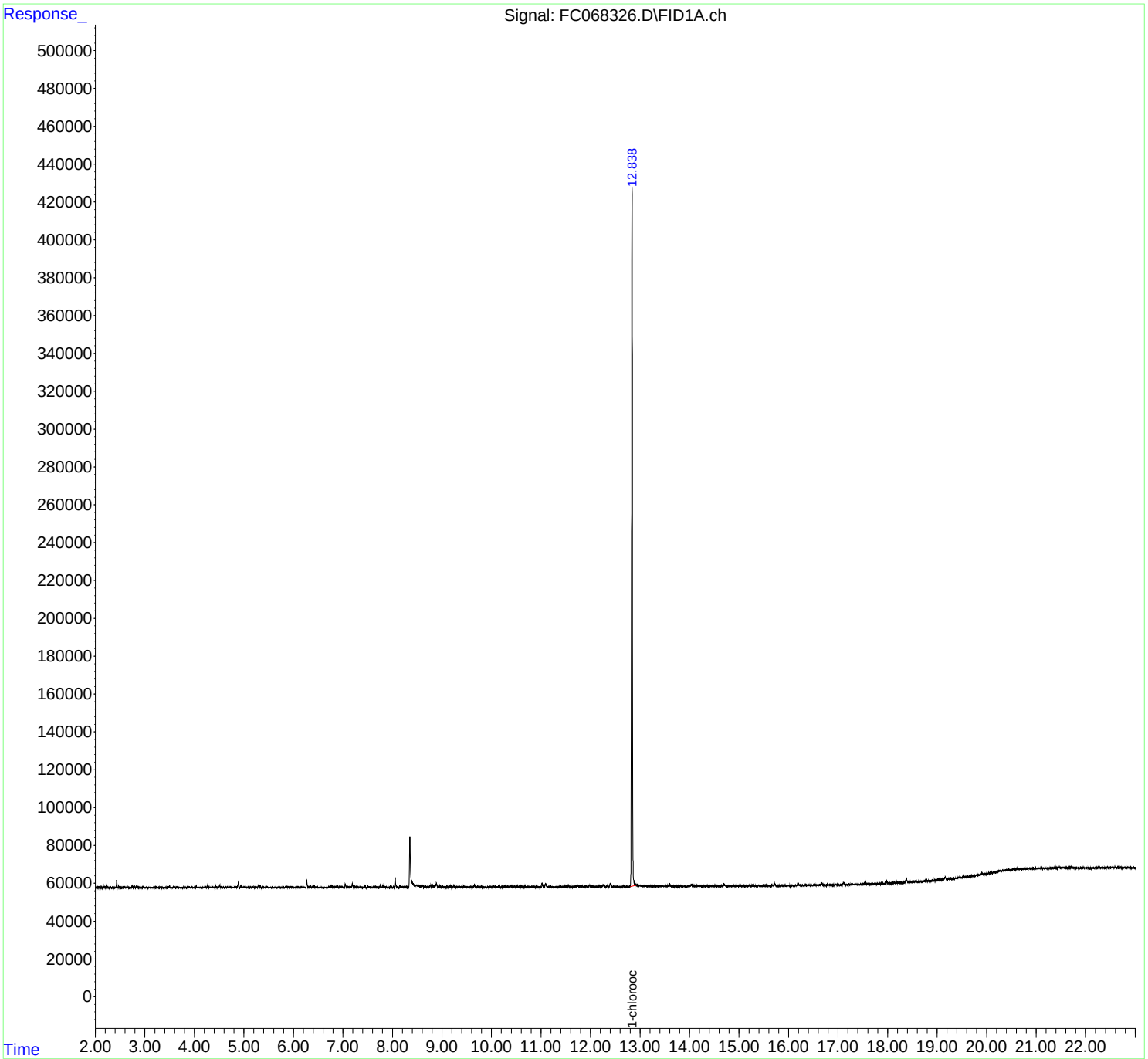
(f)=RT Delta > 1/2 Window (m)=manual int.

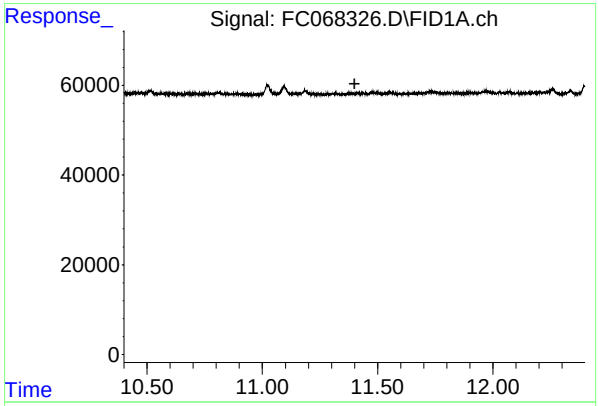
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068326.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 13:26
Operator : YP/AJ
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-172-SB01

Integration File: autoint1.e
Quant Time: Mar 05 05:23:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

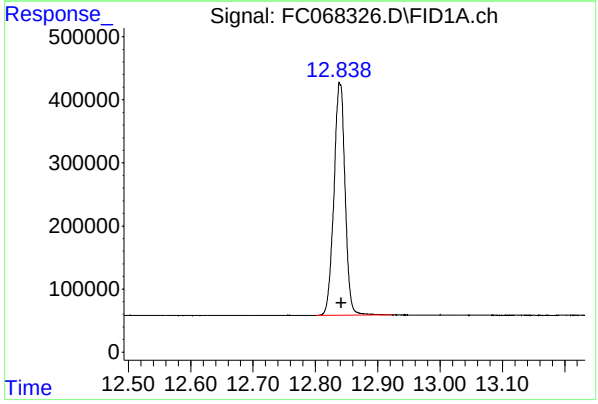




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-172-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 12.839 min
Delta R.T.: -0.002 min
Response: 4594404
Conc: 40.85 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068326.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 13:26
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.360	2.305	2.415	BV	342	2959	0.06%	0.028%
2	2.432	2.415	2.456	PV	4047	30767	0.66%	0.294%
3	2.472	2.456	2.507	VV	926	7985	0.17%	0.076%
4	2.544	2.507	2.581	PV	124	3079	0.07%	0.029%
5	2.591	2.581	2.611	VV	170	1946	0.04%	0.019%
6	2.621	2.611	2.640	VV	126	1636	0.04%	0.016%
7	2.656	2.640	2.682	VV	203	3037	0.07%	0.029%
8	2.694	2.682	2.713	VV	139	1826	0.04%	0.017%
9	2.742	2.713	2.775	VV	727	12864	0.28%	0.123%
10	2.789	2.775	2.812	VV	390	5114	0.11%	0.049%
11	2.839	2.812	2.895	VV	1352	16300	0.35%	0.156%
12	2.910	2.895	2.936	VV	119	2606	0.06%	0.025%
13	2.960	2.936	2.999	VV	591	8560	0.18%	0.082%
14	3.008	2.999	3.015	VV	155	1062	0.02%	0.010%
15	3.024	3.015	3.047	VV	151	2140	0.05%	0.020%
16	3.057	3.047	3.090	VV	207	2924	0.06%	0.028%
17	3.100	3.090	3.137	VV	135	2396	0.05%	0.023%
18	3.150	3.137	3.164	VV	141	1194	0.03%	0.011%
19	3.208	3.164	3.239	VV	326	5725	0.12%	0.055%
20	3.248	3.239	3.258	VV	131	962	0.02%	0.009%
21	3.272	3.258	3.289	VV	154	1676	0.04%	0.016%
22	3.307	3.289	3.322	VV	86	1261	0.03%	0.012%
23	3.436	3.322	3.462	PV	176	5814	0.12%	0.056%
24	3.499	3.462	3.516	VV	1298	13485	0.29%	0.129%
25	3.524	3.516	3.550	VV	260	2836	0.06%	0.027%
26	3.575	3.550	3.616	VV	171	3760	0.08%	0.036%
27	3.627	3.616	3.640	VV	99	1074	0.02%	0.010%
28	3.650	3.640	3.671	VV	170	1467	0.03%	0.014%
29	3.701	3.671	3.715	VV	162	2901	0.06%	0.028%
30	3.733	3.715	3.765	VV	150	2560	0.05%	0.024%
31	3.776	3.765	3.790	VV	160	2005	0.04%	0.019%
32	3.800	3.790	3.818	VV	198	2172	0.05%	0.021%
33	3.865	3.818	3.877	VV	397	6215	0.13%	0.059%
34	3.893	3.877	3.945	VV	774	12852	0.28%	0.123%
35	3.959	3.945	3.993	VV	286	4798	0.10%	0.046%
36	4.007	3.993	4.017	VV	232	2577	0.06%	0.025%

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37	4.040	4.017	4.085	VV	722	11798	0.25%	0.113%
38	4.101	4.085	4.117	VV	200	2662	0.06%	0.025%
39	4.133	4.117	4.148	VV	102	1490	0.03%	0.014%
40	4.169	4.148	4.205	VV	251	5814	0.12%	0.056%
41	4.263	4.205	4.351	VV	910	26451	0.57%	0.253%
42	4.369	4.351	4.395	VV	293	6063	0.13%	0.058%
43	4.428	4.395	4.468	VV	1038	18987	0.41%	0.182%
44	4.484	4.468	4.498	VV	898	9451	0.20%	0.090%
45	4.514	4.498	4.532	VV	1555	15549	0.33%	0.149%
46	4.540	4.532	4.569	VV	359	5866	0.13%	0.056%
47	4.587	4.569	4.611	VV	265	5003	0.11%	0.048%
48	4.629	4.611	4.649	VV	302	5424	0.12%	0.052%
49	4.661	4.649	4.688	VV	231	4504	0.10%	0.043%
50	4.702	4.688	4.711	VV	233	2484	0.05%	0.024%
51	4.724	4.711	4.756	VV	382	5777	0.12%	0.055%
52	4.765	4.756	4.798	VV	212	3115	0.07%	0.030%
53	4.813	4.798	4.831	VV	386	4163	0.09%	0.040%
54	4.890	4.831	4.918	VV	3002	45091	0.97%	0.431%
55	4.944	4.918	4.979	VV	849	15755	0.34%	0.151%
56	4.999	4.979	5.027	VV	415	7261	0.16%	0.069%
57	5.084	5.027	5.138	VV	307	13072	0.28%	0.125%
58	5.152	5.138	5.164	VV	269	3765	0.08%	0.036%
59	5.176	5.164	5.221	VV	292	7544	0.16%	0.072%
60	5.235	5.221	5.247	VV	215	2593	0.06%	0.025%
61	5.260	5.247	5.275	VV	200	2885	0.06%	0.028%
62	5.293	5.275	5.316	VV	1484	19691	0.42%	0.188%
63	5.332	5.316	5.373	VV	1178	16215	0.35%	0.155%
64	5.388	5.373	5.405	VV	368	4963	0.11%	0.047%
65	5.414	5.405	5.439	VV	205	3147	0.07%	0.030%
66	5.466	5.439	5.531	VV	590	12640	0.27%	0.121%
67	5.538	5.531	5.551	VV	163	1375	0.03%	0.013%
68	5.579	5.551	5.614	VV	397	7501	0.16%	0.072%
69	5.632	5.614	5.661	VV	172	3717	0.08%	0.036%
70	5.681	5.661	5.731	VV	167	4610	0.10%	0.044%
71	5.739	5.731	5.779	VV	194	3638	0.08%	0.035%
72	5.788	5.779	5.818	VV	220	3181	0.07%	0.030%
73	5.843	5.818	5.865	VV	365	6850	0.15%	0.065%
74	5.887	5.865	5.911	VV	418	7096	0.15%	0.068%
75	5.928	5.911	5.952	VV	713	9128	0.20%	0.087%
76	5.963	5.952	5.976	VV	254	2923	0.06%	0.028%
77	5.993	5.976	6.035	VV	351	6888	0.15%	0.066%
78	6.063	6.035	6.091	VV	313	6753	0.14%	0.065%
79	6.106	6.091	6.128	VV	206	2837	0.06%	0.027%
80	6.160	6.128	6.185	VV	248	4461	0.10%	0.043%
81	6.192	6.185	6.221	VV	130	2420	0.05%	0.023%
82	6.227	6.221	6.245	VV	132	1242	0.03%	0.012%
83	6.269	6.245	6.335	VV	3844	49644	1.06%	0.475%
84	6.351	6.335	6.371	VV	623	7142	0.15%	0.068%
85	6.385	6.371	6.398	VV	365	3897	0.08%	0.037%
86	6.417	6.398	6.438	VV	1134	13616	0.29%	0.130%
87	6.451	6.438	6.471	VV	385	4735	0.10%	0.045%
88	6.489	6.471	6.525	VV	476	6621	0.14%	0.063%
89	6.582	6.525	6.598	PV	199	3803	0.08%	0.036%

90	6.656	6.598	6.690	VV	109	3932	0.08%	0.038%
91	6.708	6.690	6.740	VV	550	6952	0.15%	0.066%
92	6.763	6.740	6.797	VV	728	14771	0.32%	0.141%
93	6.824	6.797	6.853	VV	619	14300	0.31%	0.137%
94	6.886	6.853	6.908	VV	933	16163	0.35%	0.155%
95	6.926	6.908	6.950	VV	324	5092	0.11%	0.049%
96	6.969	6.950	7.013	VV	420	8907	0.19%	0.085%
97	7.048	7.013	7.076	VV	2065	25743	0.55%	0.246%
98	7.106	7.076	7.141	VV	376	9466	0.20%	0.090%
99	7.154	7.141	7.168	VV	518	5087	0.11%	0.049%
100	7.190	7.168	7.230	VV	2105	30229	0.65%	0.289%
101	7.252	7.230	7.265	VV	443	7421	0.16%	0.071%
102	7.278	7.265	7.334	VV	636	11167	0.24%	0.107%
103	7.355	7.334	7.379	VV	242	4648	0.10%	0.044%
104	7.398	7.379	7.420	VV	260	3173	0.07%	0.030%
105	7.448	7.420	7.475	VV	971	11654	0.25%	0.111%
106	7.501	7.475	7.575	VV	668	17901	0.38%	0.171%
107	7.611	7.575	7.625	VV	346	6573	0.14%	0.063%
108	7.641	7.625	7.654	VV	347	4160	0.09%	0.040%
109	7.667	7.654	7.695	VV	294	4503	0.10%	0.043%
110	7.708	7.695	7.730	VV	341	4191	0.09%	0.040%
111	7.754	7.730	7.784	VV	1024	13469	0.29%	0.129%
112	7.809	7.784	7.835	VV	1073	12560	0.27%	0.120%
113	7.845	7.835	7.860	VV	249	3054	0.07%	0.029%
114	7.877	7.860	7.895	VV	401	5017	0.11%	0.048%
115	7.905	7.895	7.945	VV	203	3611	0.08%	0.035%
116	7.964	7.945	7.989	VV	525	7048	0.15%	0.067%
117	8.007	7.989	8.028	VV	214	2888	0.06%	0.028%
118	8.057	8.028	8.133	VV	4677	62710	1.34%	0.599%
119	8.152	8.133	8.186	VV	566	12352	0.26%	0.118%
120	8.202	8.186	8.229	VV	526	8151	0.17%	0.078%
121	8.247	8.229	8.271	VV	348	5273	0.11%	0.050%
122	8.288	8.271	8.318	VV	482	5943	0.13%	0.057%
123	8.353	8.318	8.491	PV	26635	463498	9.93%	4.431%
124	8.511	8.491	8.531	VV	1066	20929	0.45%	0.200%
125	8.544	8.531	8.559	VV	900	13197	0.28%	0.126%
126	8.593	8.559	8.633	VV	1244	34132	0.73%	0.326%
127	8.652	8.633	8.686	VV	597	12215	0.26%	0.117%
128	8.708	8.686	8.731	VV	449	8124	0.17%	0.078%
129	8.775	8.731	8.792	VV	1131	20457	0.44%	0.196%
130	8.812	8.792	8.826	VV	932	13845	0.30%	0.132%
131	8.834	8.826	8.856	VV	615	10305	0.22%	0.099%
132	8.888	8.856	8.944	VV	2039	46609	1.00%	0.446%
133	8.962	8.944	8.995	VV	684	10967	0.24%	0.105%
134	9.012	8.995	9.036	VV	382	6163	0.13%	0.059%
135	9.067	9.036	9.081	VV	248	4991	0.11%	0.048%
136	9.094	9.081	9.105	VV	297	3461	0.07%	0.033%
137	9.127	9.105	9.141	VV	256	4530	0.10%	0.043%
138	9.177	9.141	9.216	VV	567	13722	0.29%	0.131%
139	9.242	9.216	9.281	VV	991	17815	0.38%	0.170%
140	9.308	9.281	9.330	VV	319	6929	0.15%	0.066%
141	9.338	9.330	9.357	VV	231	3068	0.07%	0.029%

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142	9.381	9.357	9.411	VV	495	8558	0.18%	0.082%
143	9.433	9.411	9.477	VV	679	11363	0.24%	0.109%
144	9.488	9.477	9.505	VV	183	1759	0.04%	0.017%
145	9.522	9.505	9.545	VV	152	1919	0.04%	0.018%
146	9.572	9.545	9.635	VV	305	8862	0.19%	0.085%
147	9.655	9.635	9.703	VV	1305	21561	0.46%	0.206%
148	9.728	9.703	9.784	VV	355	10543	0.23%	0.101%
149	9.796	9.784	9.811	VV	221	2860	0.06%	0.027%
150	9.825	9.811	9.855	VV	212	3380	0.07%	0.032%
151	9.931	9.855	9.948	VV	277	7129	0.15%	0.068%
152	9.969	9.948	9.991	VV	356	6761	0.14%	0.065%
153	10.042	9.991	10.060	VV	467	13235	0.28%	0.127%
154	10.076	10.060	10.121	VV	416	10497	0.22%	0.100%
155	10.133	10.121	10.149	VV	378	5113	0.11%	0.049%
156	10.161	10.149	10.181	VV	373	4923	0.11%	0.047%
157	10.211	10.181	10.225	VV	246	4000	0.09%	0.038%
158	10.249	10.225	10.263	VV	336	5856	0.13%	0.056%
159	10.284	10.263	10.303	VV	412	7358	0.16%	0.070%
160	10.333	10.303	10.350	VV	565	10842	0.23%	0.104%
161	10.390	10.350	10.426	VV	622	18587	0.40%	0.178%
162	10.446	10.426	10.460	VV	461	7112	0.15%	0.068%
163	10.475	10.460	10.487	VV	415	6426	0.14%	0.061%
164	10.515	10.487	10.554	VV	969	19740	0.42%	0.189%
165	10.563	10.554	10.587	VV	336	4946	0.11%	0.047%
166	10.604	10.587	10.634	VV	318	6294	0.13%	0.060%
167	10.645	10.634	10.656	VV	247	2815	0.06%	0.027%
168	10.674	10.656	10.691	VV	248	4703	0.10%	0.045%
169	10.718	10.691	10.741	VV	287	6839	0.15%	0.065%
170	10.759	10.741	10.778	VV	305	5686	0.12%	0.054%
171	10.813	10.778	10.843	VV	535	11598	0.25%	0.111%
172	10.849	10.843	10.861	VV	219	1977	0.04%	0.019%
173	10.885	10.861	10.942	VV	296	7819	0.17%	0.075%
174	10.948	10.942	10.955	VV	111	678	0.01%	0.006%
175	10.968	10.955	10.978	VV	103	963	0.02%	0.009%
176	11.022	10.978	11.060	PV	2237	36214	0.78%	0.346%
177	11.094	11.060	11.121	VV	1850	31316	0.67%	0.299%
178	11.135	11.121	11.157	VV	280	5372	0.12%	0.051%
179	11.185	11.157	11.226	VV	909	15925	0.34%	0.152%
180	11.239	11.226	11.268	VV	174	3175	0.07%	0.030%
181	11.285	11.268	11.341	VV	185	5818	0.12%	0.056%
182	11.420	11.341	11.457	VV	374	15591	0.33%	0.149%
183	11.478	11.457	11.528	VV	506	12914	0.28%	0.123%
184	11.549	11.528	11.587	VV	506	11075	0.24%	0.106%
185	11.607	11.587	11.620	VV	249	3194	0.07%	0.031%
186	11.633	11.620	11.645	VV	200	2972	0.06%	0.028%
187	11.728	11.645	11.788	VV	598	31646	0.68%	0.303%
188	11.799	11.788	11.838	VV	358	8848	0.19%	0.085%
189	11.841	11.838	11.870	VV	361	5214	0.11%	0.050%
190	11.908	11.870	11.931	VV	406	11407	0.24%	0.109%
191	11.974	11.931	12.015	VV	727	23136	0.50%	0.221%
192	12.030	12.015	12.053	VV	498	8064	0.17%	0.077%
193	12.071	12.053	12.134	VV	556	13943	0.30%	0.133%
194	12.205	12.134	12.218	VV	491	16106	0.35%	0.154%

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195	12.259	12.218	12.298	VV	1158	24703	0.53%	0.236%
196	12.336	12.298	12.365	VV	748	13229	0.28%	0.126%
197	12.397	12.365	12.441	VV	1786	27644	0.59%	0.264%
198	12.457	12.441	12.496	VV	288	7253	0.16%	0.069%
199	12.512	12.496	12.581	VV	336	8800	0.19%	0.084%
200	12.592	12.581	12.604	VV	139	1001	0.02%	0.010%
201	12.654	12.604	12.741	PV	241	11762	0.25%	0.112%
202	12.768	12.741	12.775	VV	233	3517	0.08%	0.034%
203	12.839	12.775	12.991	VV	370461	4666198	100.00%	44.605%
204	13.005	12.991	13.048	VV	711	19676	0.42%	0.188%
205	13.061	13.048	13.100	VV	521	13403	0.29%	0.128%
206	13.129	13.100	13.178	VV	415	15001	0.32%	0.143%
207	13.196	13.178	13.243	VV	469	13306	0.29%	0.127%
208	13.276	13.243	13.340	VV	552	21310	0.46%	0.204%
209	13.388	13.340	13.417	VV	296	12221	0.26%	0.117%
210	13.448	13.417	13.485	VV	376	11481	0.25%	0.110%
211	13.542	13.485	13.567	VV	690	18460	0.40%	0.176%
212	13.595	13.567	13.666	VV	1433	29145	0.62%	0.279%
213	13.686	13.666	13.698	VV	188	2977	0.06%	0.028%
214	13.723	13.698	13.745	VV	247	4314	0.09%	0.041%
215	13.764	13.745	13.795	VV	161	3493	0.07%	0.033%
216	13.823	13.795	13.856	VV	305	6908	0.15%	0.066%
217	13.887	13.856	13.998	VV	239	13662	0.29%	0.131%
218	14.033	13.998	14.085	VV	977	24335	0.52%	0.233%
219	14.097	14.085	14.135	VV	304	7127	0.15%	0.068%
220	14.156	14.135	14.194	VV	392	9361	0.20%	0.089%
221	14.307	14.194	14.337	VV	342	18918	0.41%	0.181%
222	14.356	14.337	14.390	VV	303	6824	0.15%	0.065%
223	14.415	14.390	14.428	VV	275	5104	0.11%	0.049%
224	14.466	14.428	14.488	VV	307	9574	0.21%	0.092%
225	14.502	14.488	14.527	VV	360	5504	0.12%	0.053%
226	14.539	14.527	14.546	VV	281	2641	0.06%	0.025%
227	14.554	14.546	14.581	VV	274	4610	0.10%	0.044%
228	14.596	14.581	14.618	VV	227	3194	0.07%	0.031%
229	14.654	14.618	14.675	VV	594	11276	0.24%	0.108%
230	14.697	14.675	14.781	VV	1350	29282	0.63%	0.280%
231	14.788	14.781	14.810	VV	180	2130	0.05%	0.020%
232	14.820	14.810	14.840	VV	142	1676	0.04%	0.016%
233	14.869	14.840	14.881	PV	246	3708	0.08%	0.035%
234	14.887	14.881	14.900	VV	196	1803	0.04%	0.017%
235	14.913	14.900	14.984	VV	234	7254	0.16%	0.069%
236	14.999	14.984	15.072	VV	162	5982	0.13%	0.057%
237	15.127	15.072	15.145	VV	212	7119	0.15%	0.068%
238	15.181	15.145	15.192	VV	212	4821	0.10%	0.046%
239	15.215	15.192	15.248	VV	615	11914	0.26%	0.114%
240	15.267	15.248	15.314	VV	243	6093	0.13%	0.058%
241	15.342	15.314	15.361	VV	233	4589	0.10%	0.044%
242	15.376	15.361	15.388	VV	252	2822	0.06%	0.027%
243	15.394	15.388	15.408	VV	280	2676	0.06%	0.026%
244	15.414	15.408	15.450	VV	212	3580	0.08%	0.034%
245	15.496	15.450	15.518	VV	190	5983	0.13%	0.057%
246	15.578	15.518	15.613	VV	218	10243	0.22%	0.098%

247	15.674	15.613	15.690	VV	305	7434	0.16%	0.071%
248	15.714	15.690	15.755	VV	1239	22182	0.48%	0.212%
249	15.762	15.755	15.845	VV	251	4739	0.10%	0.045%
250	15.888	15.845	15.931	VV	152	4287	0.09%	0.041%
251	15.939	15.931	15.988	VV	63	1425	0.03%	0.014%
252	16.016	15.988	16.068	PV	143	3481	0.07%	0.033%
253	16.080	16.068	16.131	PV	139	1808	0.04%	0.017%
254	16.155	16.131	16.168	VV	137	1666	0.04%	0.016%
255	16.198	16.168	16.301	VV	691	16844	0.36%	0.161%
256	16.377	16.301	16.461	VV	177	11435	0.25%	0.109%
257	16.494	16.461	16.516	VV	158	3505	0.08%	0.034%
258	16.554	16.516	16.601	VV	204	6724	0.14%	0.064%
259	16.663	16.601	16.695	VV	1345	27596	0.59%	0.264%
260	16.704	16.695	16.735	VV	204	3370	0.07%	0.032%
261	16.765	16.735	16.794	VV	146	3466	0.07%	0.033%
262	16.821	16.794	16.869	VV	138	3259	0.07%	0.031%
263	16.875	16.869	16.886	VV	61	554	0.01%	0.005%
264	16.950	16.886	17.007	PV	132	4095	0.09%	0.039%
265	17.114	17.007	17.161	PV	1352	25259	0.54%	0.241%
266	17.168	17.161	17.182	VV	100	1152	0.02%	0.011%
267	17.205	17.182	17.228	PV	212	3702	0.08%	0.035%
268	17.239	17.228	17.255	VV	173	2050	0.04%	0.020%
269	17.263	17.255	17.282	VV	120	1539	0.03%	0.015%
270	17.306	17.282	17.316	VV	168	2042	0.04%	0.020%
271	17.321	17.316	17.331	VV	101	785	0.02%	0.008%
272	17.335	17.331	17.344	VV	131	611	0.01%	0.006%
273	17.374	17.344	17.417	PV	150	3914	0.08%	0.037%
274	17.434	17.417	17.475	VV	102	1745	0.04%	0.017%
275	17.548	17.475	17.605	VV	1539	31728	0.68%	0.303%
276	17.610	17.605	17.648	VV	233	2362	0.05%	0.023%
277	17.711	17.648	17.731	VV	142	5266	0.11%	0.050%
278	17.745	17.731	17.760	PV	74	783	0.02%	0.007%
279	17.819	17.760	17.827	VV	138	1663	0.04%	0.016%
280	17.835	17.827	17.858	VV	124	1123	0.02%	0.011%
281	17.971	17.858	18.008	VV	1825	30176	0.65%	0.288%
282	18.041	18.008	18.070	VV	175	3086	0.07%	0.030%
283	18.105	18.070	18.134	PV	94	2570	0.06%	0.025%
284	18.156	18.134	18.167	PV	131	1322	0.03%	0.013%
285	18.192	18.167	18.203	PV	151	2081	0.04%	0.020%
286	18.251	18.203	18.279	VV	205	4900	0.11%	0.047%
287	18.380	18.279	18.442	VV	1572	35824	0.77%	0.342%
288	18.534	18.442	18.581	VV	190	8008	0.17%	0.077%
289	18.629	18.581	18.638	VV	149	3183	0.07%	0.030%
290	18.662	18.638	18.673	VV	223	2901	0.06%	0.028%
291	18.676	18.673	18.690	VV	158	931	0.02%	0.009%
292	18.715	18.690	18.723	VV	81	1068	0.02%	0.010%
293	18.778	18.723	18.820	PV	1108	21440	0.46%	0.205%
294	18.831	18.820	18.847	VV	147	1731	0.04%	0.017%
295	18.951	18.847	18.962	VV	189	5331	0.11%	0.051%
296	18.969	18.962	18.975	VV	159	834	0.02%	0.008%
297	19.163	18.975	19.234	VV	1327	49327	1.06%	0.472%
298	19.322	19.234	19.337	VV	406	16768	0.36%	0.160%
299	19.470	19.337	19.508	VV	660	53824	1.15%	0.515%

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300	19.538	19.508	19.575	VV	1232	34560	0.74%	0.330%
301	19.678	19.575	19.689	VV	860	49818	1.07%	0.476%
302	19.797	19.689	19.837	VV	1204	87161	1.87%	0.833%
303	19.904	19.837	19.941	VV	2089	88533	1.90%	0.846%
304	19.978	19.941	19.998	VV	1479	48378	1.04%	0.462%
305	20.262	19.998	20.288	VV	2508	329241	7.06%	3.147%
306	20.437	20.288	20.466	VV	2773	273160	5.85%	2.611%
307	20.528	20.466	20.537	VV	2682	111359	2.39%	1.064%
308	20.559	20.537	20.568	VV	2696	48675	1.04%	0.465%
309	20.616	20.568	20.667	VV	3080	163525	3.50%	1.563%
310	20.686	20.667	20.717	VV	2599	75800	1.62%	0.725%
311	20.751	20.717	20.788	VV	2580	105990	2.27%	1.013%
312	20.859	20.788	20.871	VV	2475	119644	2.56%	1.144%
313	20.930	20.871	20.981	VV	2366	151503	3.25%	1.448%
314	21.005	20.981	21.101	VV	2288	155261	3.33%	1.484%
315	21.115	21.101	21.135	VV	2128	41861	0.90%	0.400%
316	21.186	21.135	21.211	VV	2063	90829	1.95%	0.868%
317	21.259	21.211	21.285	VV	1943	82929	1.78%	0.793%
318	21.300	21.285	21.315	VV	1836	32043	0.69%	0.306%
319	21.323	21.315	21.334	VV	1750	19564	0.42%	0.187%
320	21.348	21.334	21.398	VV	1696	63672	1.36%	0.609%
321	21.472	21.398	21.506	VV	1845	106311	2.28%	1.016%
322	21.513	21.506	21.565	VV	1522	51258	1.10%	0.490%
323	21.580	21.565	21.598	VV	1390	26292	0.56%	0.251%
324	21.652	21.598	21.697	VV	1369	74900	1.61%	0.716%
325	21.723	21.697	21.815	VV	1188	74105	1.59%	0.708%
326	21.825	21.815	21.935	VV	882	51853	1.11%	0.496%
327	21.983	21.935	22.080	VV	545	37992	0.81%	0.363%
328	22.118	22.080	22.161	VV	254	9677	0.21%	0.093%
329	22.166	22.161	22.197	VV	178	2100	0.04%	0.020%
330	22.212	22.197	22.224	VV	105	1182	0.03%	0.011%

Sum of corrected areas: 10461218

Aliphatic EPH 021125.M Sat Mar 01 01:26:28 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049134.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.35	U	0.35	0.77	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.41	J	0.39	1.15	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.32	J	1.11	1.92	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.31	U	2.31	3.07	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.2		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.0		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.9		40 - 140	80%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-02	Acq On:	28 Feb 2025 13:26
Client Sample ID:	B-172-SB01	Operator:	YP/AJ
Data file:	FD049134.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	431662	2.715	200	ug/ml
Aromatic C12-C16	5.795	8.396	865079	5.375	300	ug/ml
Aromatic C16-C21	8.397	12.661	2625310	17.119	500	ug/ml
Aromatic C21-C36	12.662	18.073	3900889	27.257	800	ug/ml
Aromatic EPH	4.076	18.073	7822940	52.466		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	6456380	39.91		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	6756272	47.21		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	3783597	43.04		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049134.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 13:26
Operator : YP/AJ
Sample : Q1415-02
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-172-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:18:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	6756272	47.211 ug/ml
Spiked Amount 50.000		Recovery =	94.42%
6) S 2-Flurobiphenyl (SURR)	8.203	3783597	43.039 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	86.08%
11) S ortho-Terphenyl (SURR)	11.235	6456380	39.910 ug/ml
Spiked Amount 50.000		Recovery =	79.82%
Target Compounds			

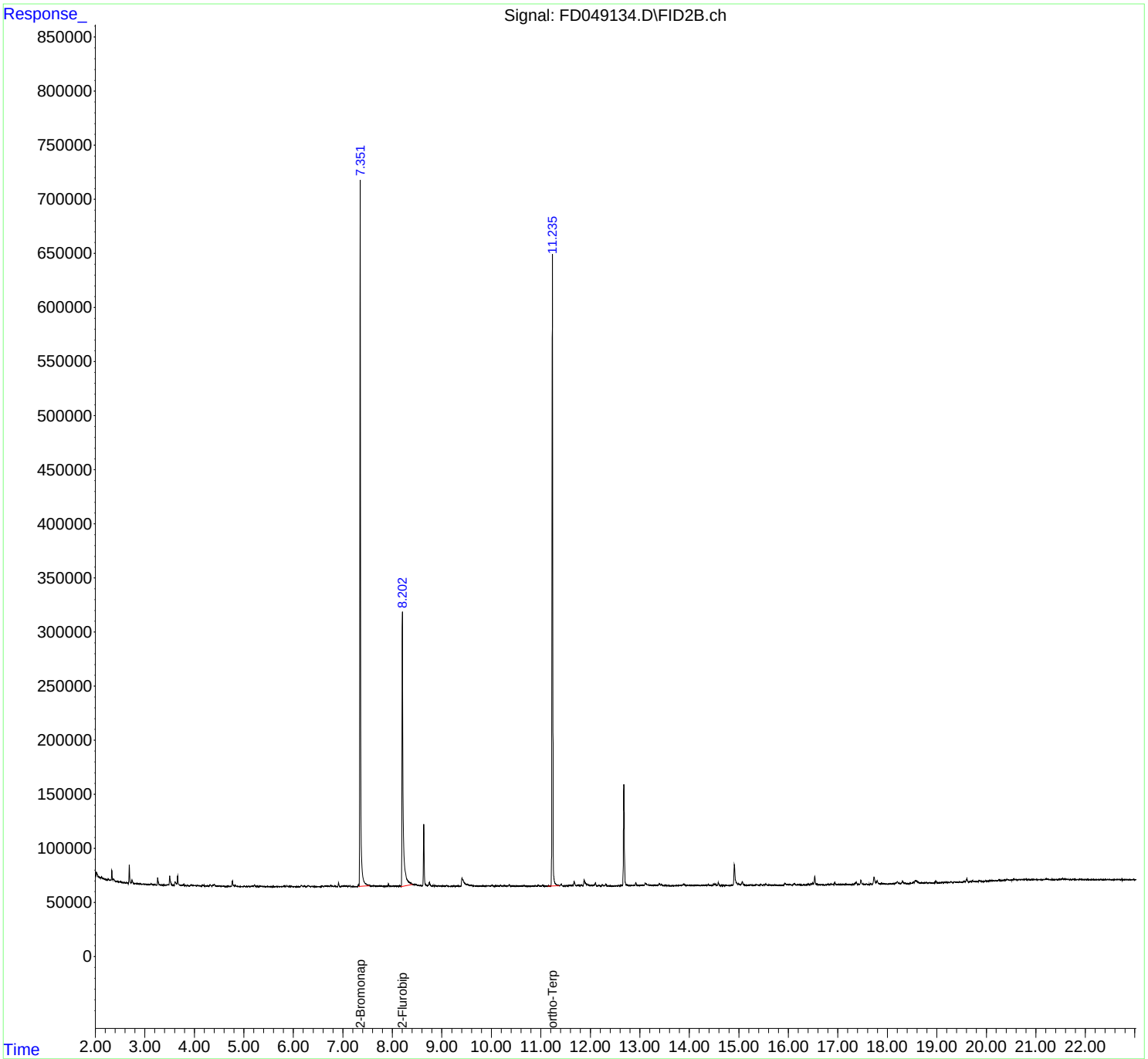
(f)=RT Delta > 1/2 Window (m)=manual int.

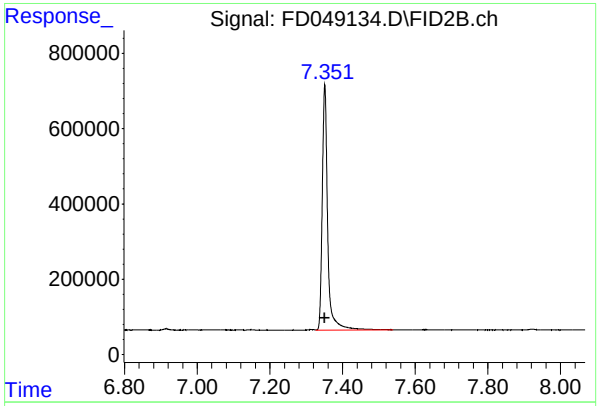
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049134.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 13:26
Operator : YP/AJ
Sample : Q1415-02
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-172-SB01

Integration File: autoint1.e
Quant Time: Mar 01 02:18:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

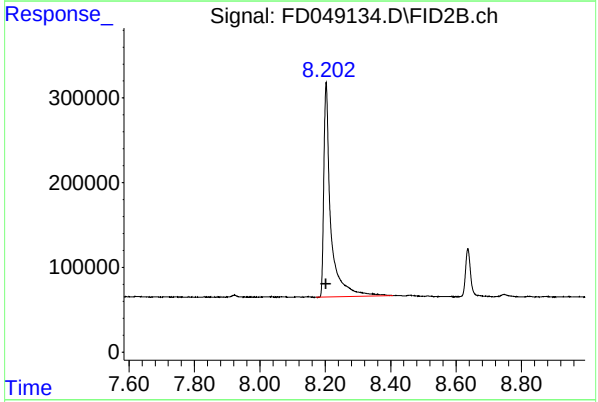




#4 2-Bromonaphthalene (SURR)

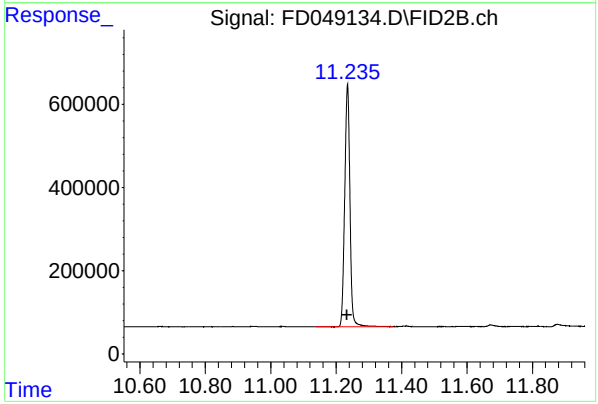
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 6756272
Conc: 47.21 ug/ml

Instrument :
FID_D
ClientSampleId :
B-172-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 3783597
Conc: 43.04 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 6456380
Conc: 39.91 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049134.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 13:26
Sample : Q1415-02
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.063	4.042	4.084	BV	518	6473	0.09%	0.026%
2	4.110	4.084	4.138	VV	329	4530	0.07%	0.018%
3	4.168	4.138	4.195	PV	969	17157	0.25%	0.069%
4	4.199	4.195	4.234	VV	445	4858	0.07%	0.019%
5	4.249	4.234	4.255	VV	385	3611	0.05%	0.014%
6	4.262	4.255	4.287	VV	510	6359	0.09%	0.025%
7	4.318	4.287	4.350	VV	1544	25538	0.37%	0.102%
8	4.373	4.350	4.388	VV	1559	20227	0.30%	0.081%
9	4.403	4.388	4.447	VV	2131	34693	0.51%	0.139%
10	4.452	4.447	4.466	VV	449	3918	0.06%	0.016%
11	4.472	4.466	4.492	VV	323	3650	0.05%	0.015%
12	4.509	4.492	4.549	VV	614	10148	0.15%	0.041%
13	4.554	4.549	4.565	VV	235	1517	0.02%	0.006%
14	4.580	4.565	4.595	VV	440	5589	0.08%	0.022%
15	4.602	4.595	4.633	VV	394	4943	0.07%	0.020%
16	4.660	4.633	4.675	PV	327	4685	0.07%	0.019%
17	4.689	4.675	4.696	VV	485	4334	0.06%	0.017%
18	4.701	4.696	4.707	VV	347	2197	0.03%	0.009%
19	4.711	4.707	4.730	VV	417	3935	0.06%	0.016%
20	4.769	4.730	4.814	VV	5448	80613	1.18%	0.322%
21	4.828	4.814	4.864	VV	1259	19453	0.28%	0.078%
22	4.869	4.864	4.894	VV	347	2767	0.04%	0.011%
23	4.904	4.894	4.927	VV	209	3138	0.05%	0.013%
24	4.973	4.953	4.994	VV	399	6113	0.09%	0.024%
25	5.007	4.994	5.038	VV	448	6795	0.10%	0.027%
26	5.050	5.038	5.084	VV	320	4986	0.07%	0.020%
27	5.096	5.084	5.113	VV	208	2861	0.04%	0.011%
28	5.141	5.113	5.159	VV	593	10066	0.15%	0.040%
29	5.164	5.159	5.173	VV	473	3604	0.05%	0.014%
30	5.217	5.173	5.259	VV	1925	43145	0.63%	0.172%
31	5.272	5.259	5.313	VV	656	12120	0.18%	0.048%
32	5.334	5.313	5.387	VV	580	17084	0.25%	0.068%
33	5.400	5.387	5.412	VV	427	4156	0.06%	0.017%
34	5.427	5.412	5.433	VV	289	2116	0.03%	0.008%
35	5.437	5.433	5.445	VV	216	1166	0.02%	0.005%
36	5.469	5.445	5.504	VV	438	9623	0.14%	0.038%

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37	5.512	5.504	5.518	VV	324	1962	0.03%	0.008%
38	5.524	5.518	5.531	VV	295	1628	0.02%	0.006%
39	5.542	5.531	5.555	VV	278	2551	0.04%	0.010%
40	5.573	5.555	5.586	VV	409	4088	0.06%	0.016%
41	5.598	5.594	5.627	VV	165	2694	0.04%	0.011%
42	5.639	5.627	5.644	VV	202	1519	0.02%	0.006%
43	5.672	5.644	5.690	VV	447	6506	0.09%	0.026%
44	5.708	5.690	5.717	VV	425	3434	0.05%	0.014%
45	5.738	5.722	5.758	VV	456	7091	0.10%	0.028%
46	5.788	5.758	5.798	VV	501	8494	0.12%	0.034%
47	5.820	5.798	5.854	VV	734	16707	0.24%	0.067%
48	5.871	5.854	5.914	VV	1290	20480	0.30%	0.082%
49	5.936	5.914	5.955	VV	624	11176	0.16%	0.045%
50	5.960	5.955	5.964	VV	370	1588	0.02%	0.006%
51	5.969	5.964	6.011	VV	405	9361	0.14%	0.037%
52	6.018	6.011	6.050	VV	444	6281	0.09%	0.025%
53	6.064	6.050	6.092	VV	381	4571	0.07%	0.018%
54	6.103	6.092	6.138	PV	330	5496	0.08%	0.022%
55	6.160	6.138	6.196	VV	1578	30400	0.44%	0.121%
56	6.223	6.196	6.252	VV	1078	21391	0.31%	0.085%
57	6.268	6.252	6.279	VV	660	7093	0.10%	0.028%
58	6.296	6.279	6.324	VV	1461	25058	0.37%	0.100%
59	6.327	6.324	6.352	VV	717	7755	0.11%	0.031%
60	6.367	6.352	6.379	VV	800	8853	0.13%	0.035%
61	6.384	6.379	6.404	VV	648	6501	0.09%	0.026%
62	6.435	6.404	6.442	VV	387	4852	0.07%	0.019%
63	6.466	6.449	6.492	VV	407	5379	0.08%	0.021%
64	6.501	6.492	6.514	VV	291	2861	0.04%	0.011%
65	6.535	6.514	6.542	VV	348	4734	0.07%	0.019%
66	6.546	6.542	6.567	VV	452	5206	0.08%	0.021%
67	6.584	6.567	6.605	VV	988	14367	0.21%	0.057%
68	6.609	6.605	6.614	VV	322	1337	0.02%	0.005%
69	6.630	6.614	6.659	VV	961	17817	0.26%	0.071%
70	6.681	6.659	6.695	VV	1048	17780	0.26%	0.071%
71	6.711	6.695	6.738	VV	902	16782	0.24%	0.067%
72	6.760	6.738	6.779	VV	1853	25860	0.38%	0.103%
73	6.785	6.779	6.792	VV	555	3992	0.06%	0.016%
74	6.798	6.792	6.803	VV	628	3668	0.05%	0.015%
75	6.810	6.803	6.818	VV	536	4626	0.07%	0.018%
76	6.843	6.818	6.851	VV	789	11691	0.17%	0.047%
77	6.863	6.851	6.890	VV	635	9553	0.14%	0.038%
78	6.914	6.890	6.957	VV	3788	46852	0.68%	0.187%
79	6.985	6.957	7.012	VV	937	20346	0.30%	0.081%
80	7.026	7.012	7.041	VV	864	11691	0.17%	0.047%
81	7.047	7.041	7.054	VV	747	4640	0.07%	0.019%
82	7.066	7.054	7.080	VV	1102	12650	0.18%	0.051%
83	7.088	7.080	7.100	VV	530	4939	0.07%	0.020%
84	7.116	7.100	7.134	VV	816	10791	0.16%	0.043%
85	7.146	7.134	7.167	VV	1184	12823	0.19%	0.051%
86	7.172	7.167	7.186	VV	348	2563	0.04%	0.010%
87	7.192	7.186	7.202	VV	364	2431	0.04%	0.010%
88	7.209	7.202	7.241	VV	358	5514	0.08%	0.022%
89	7.247	7.241	7.253	VV	279	1596	0.02%	0.006%

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90	7.262	7.253	7.287	VV	345	3978	0.06%	0.016%
91	7.315	7.287	7.327	VV	1502	18867	0.28%	0.075%
92	7.351	7.327	7.549	VV	653665	6853037	100.00%	27.366%
93	7.552	7.549	7.572	VV	1001	11172	0.16%	0.045%
94	7.591	7.572	7.611	VV	1011	20093	0.29%	0.080%
95	7.628	7.611	7.667	VV	1181	27723	0.40%	0.111%
96	7.684	7.667	7.700	VV	760	12271	0.18%	0.049%
97	7.710	7.700	7.717	VV	754	6754	0.10%	0.027%
98	7.720	7.717	7.733	VV	707	5480	0.08%	0.022%
99	7.742	7.733	7.774	VV	864	13632	0.20%	0.054%
100	7.782	7.774	7.787	VV	722	4048	0.06%	0.016%
101	7.790	7.787	7.794	VV	514	1989	0.03%	0.008%
102	7.810	7.794	7.819	VV	493	5937	0.09%	0.024%
103	7.830	7.819	7.857	VV	699	10854	0.16%	0.043%
104	7.875	7.857	7.885	VV	528	7909	0.12%	0.032%
105	7.889	7.885	7.894	VV	630	2474	0.04%	0.010%
106	7.923	7.894	7.975	VV	2774	47648	0.70%	0.190%
107	7.980	7.975	7.987	VV	481	3288	0.05%	0.013%
108	7.992	7.987	7.999	VV	451	2982	0.04%	0.012%
109	8.033	7.999	8.045	VV	898	17253	0.25%	0.069%
110	8.051	8.045	8.059	VV	624	4635	0.07%	0.019%
111	8.068	8.059	8.095	VV	927	11622	0.17%	0.046%
112	8.114	8.095	8.132	VV	785	10667	0.16%	0.043%
113	8.147	8.132	8.166	VV	823	11971	0.17%	0.048%
114	8.170	8.166	8.178	VV	252	1462	0.02%	0.006%
115	8.203	8.178	8.339	VV	253533	3812716	55.64%	15.225%
116	8.344	8.339	8.407	VV	4232	130318	1.90%	0.520%
117	8.416	8.407	8.441	VV	2358	44036	0.64%	0.176%
118	8.460	8.441	8.504	VV	2585	70103	1.02%	0.280%
119	8.514	8.504	8.545	VV	1667	30787	0.45%	0.123%
120	8.551	8.545	8.555	VV	1016	5395	0.08%	0.022%
121	8.569	8.555	8.574	VV	1190	11710	0.17%	0.047%
122	8.578	8.574	8.601	VV	1157	14311	0.21%	0.057%
123	8.636	8.601	8.716	VV	57574	669087	9.76%	2.672%
124	8.747	8.716	8.805	VV	3634	83656	1.22%	0.334%
125	8.825	8.805	8.854	VV	1245	23845	0.35%	0.095%
126	8.873	8.854	8.900	VV	1049	20455	0.30%	0.082%
127	8.928	8.900	8.938	VV	786	13723	0.20%	0.055%
128	8.944	8.938	8.964	VV	807	10576	0.15%	0.042%
129	8.970	8.964	8.994	VV	744	10792	0.16%	0.043%
130	9.023	8.994	9.037	VV	776	15694	0.23%	0.063%
131	9.043	9.037	9.074	VV	809	9324	0.14%	0.037%
132	9.095	9.074	9.147	VV	1264	25294	0.37%	0.101%
133	9.173	9.147	9.177	VV	486	5478	0.08%	0.022%
134	9.186	9.177	9.200	VV	485	4625	0.07%	0.018%
135	9.204	9.200	9.210	VV	336	1768	0.03%	0.007%
136	9.213	9.210	9.218	VV	321	1314	0.02%	0.005%
137	9.247	9.218	9.283	VV	835	16654	0.24%	0.067%
138	9.296	9.283	9.300	VV	602	4502	0.07%	0.018%
139	9.305	9.300	9.318	VV	623	5800	0.08%	0.023%
140	9.328	9.318	9.360	VV	645	12722	0.19%	0.051%
141	9.376	9.360	9.379	VV	483	4664	0.07%	0.019%

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142	9.407	9.379	9.502	VV	7928	277538	4.05%	1.108%
143	9.516	9.502	9.552	VV	2336	53593	0.78%	0.214%
144	9.559	9.552	9.574	VV	1237	15745	0.23%	0.063%
145	9.590	9.574	9.644	VV	1360	39249	0.57%	0.157%
146	9.650	9.644	9.672	VV	714	10442	0.15%	0.042%
147	9.687	9.672	9.704	VV	681	10520	0.15%	0.042%
148	9.708	9.704	9.728	VV	535	5734	0.08%	0.023%
149	9.757	9.728	9.773	VV	602	11833	0.17%	0.047%
150	9.778	9.773	9.784	VV	563	3084	0.05%	0.012%
151	9.790	9.784	9.797	VV	554	3722	0.05%	0.015%
152	9.804	9.797	9.811	VV	521	3989	0.06%	0.016%
153	9.820	9.811	9.842	VV	746	10619	0.15%	0.042%
154	9.845	9.842	9.860	VV	552	4300	0.06%	0.017%
155	9.884	9.860	9.888	VV	604	7499	0.11%	0.030%
156	9.908	9.888	9.919	VV	798	12282	0.18%	0.049%
157	9.931	9.919	9.949	VV	734	11484	0.17%	0.046%
158	9.956	9.949	9.960	VV	737	4700	0.07%	0.019%
159	9.966	9.960	9.994	VV	776	12209	0.18%	0.049%
160	10.012	9.994	10.057	VV	1496	24720	0.36%	0.099%
161	10.062	10.057	10.072	VV	338	2766	0.04%	0.011%
162	10.104	10.072	10.121	VV	767	15021	0.22%	0.060%
163	10.132	10.121	10.154	VV	710	10233	0.15%	0.041%
164	10.187	10.154	10.210	VV	998	20754	0.30%	0.083%
165	10.216	10.210	10.238	VV	614	8567	0.13%	0.034%
166	10.262	10.238	10.280	VV	947	18072	0.26%	0.072%
167	10.294	10.280	10.315	VV	702	11513	0.17%	0.046%
168	10.331	10.315	10.344	VV	749	10647	0.16%	0.043%
169	10.363	10.344	10.387	VV	1755	26948	0.39%	0.108%
170	10.407	10.387	10.437	VV	629	11906	0.17%	0.048%
171	10.458	10.437	10.473	VV	618	9426	0.14%	0.038%
172	10.476	10.473	10.480	VV	375	1435	0.02%	0.006%
173	10.486	10.480	10.491	VV	456	2181	0.03%	0.009%
174	10.494	10.491	10.515	VV	466	3717	0.05%	0.015%
175	10.523	10.515	10.527	VV	473	2342	0.03%	0.009%
176	10.530	10.527	10.542	VV	505	3625	0.05%	0.014%
177	10.543	10.542	10.549	VV	415	1343	0.02%	0.005%
178	10.562	10.549	10.585	VV	440	7525	0.11%	0.030%
179	10.604	10.585	10.618	VV	560	7325	0.11%	0.029%
180	10.632	10.618	10.648	VV	564	8628	0.13%	0.034%
181	10.663	10.648	10.688	VV	853	11677	0.17%	0.047%
182	10.704	10.688	10.745	VV	376	6875	0.10%	0.027%
183	10.750	10.745	10.774	VV	309	3408	0.05%	0.014%
184	10.779	10.774	10.784	VV	257	1266	0.02%	0.005%
185	10.790	10.784	10.795	VV	224	1225	0.02%	0.005%
186	10.799	10.795	10.813	VV	356	2169	0.03%	0.009%
187	10.833	10.813	10.854	VV	325	5579	0.08%	0.022%
188	10.858	10.854	10.866	VV	302	1510	0.02%	0.006%
189	10.884	10.866	10.907	VV	861	10933	0.16%	0.044%
190	10.917	10.907	10.926	VV	396	3377	0.05%	0.013%
191	10.948	10.926	10.981	VV	1124	21810	0.32%	0.087%
192	10.991	10.981	10.996	VV	508	3694	0.05%	0.015%
193	10.999	10.996	11.005	VV	483	2220	0.03%	0.009%
194	11.037	11.005	11.089	VV	935	24803	0.36%	0.099%

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195	11.093	11.089	11.101	VV	369	1888	0.03%	0.008%
196	11.105	11.101	11.112	VV	270	1527	0.02%	0.006%
197	11.126	11.112	11.137	VV	419	4318	0.06%	0.017%
198	11.144	11.137	11.148	VV	335	1996	0.03%	0.008%
199	11.154	11.148	11.193	VV	494	7961	0.12%	0.032%
200	11.235	11.193	11.357	PV	584305	6491411	94.72%	25.922%
201	11.361	11.357	11.381	VV	852	9435	0.14%	0.038%
202	11.413	11.381	11.444	VV	2197	39991	0.58%	0.160%
203	11.459	11.444	11.474	VV	541	7531	0.11%	0.030%
204	11.477	11.474	11.481	VV	457	1878	0.03%	0.007%
205	11.502	11.481	11.507	VV	644	7629	0.11%	0.030%
206	11.531	11.507	11.540	VV	959	12433	0.18%	0.050%
207	11.545	11.540	11.549	VV	576	2784	0.04%	0.011%
208	11.554	11.549	11.564	VV	670	5350	0.08%	0.021%
209	11.569	11.564	11.581	VV	817	8257	0.12%	0.033%
210	11.596	11.581	11.614	VV	1084	16735	0.24%	0.067%
211	11.631	11.614	11.645	VV	819	13876	0.20%	0.055%
212	11.647	11.645	11.652	VV	748	2543	0.04%	0.010%
213	11.672	11.652	11.720	VV	4640	80613	1.18%	0.322%
214	11.735	11.720	11.780	VV	1073	28619	0.42%	0.114%
215	11.817	11.780	11.854	VV	1396	36269	0.53%	0.145%
216	11.876	11.854	11.995	VV	6068	182412	2.66%	0.728%
217	12.001	11.995	12.003	VV	698	3219	0.05%	0.013%
218	12.029	12.003	12.047	VV	982	19589	0.29%	0.078%
219	12.052	12.047	12.059	VV	829	5608	0.08%	0.022%
220	12.104	12.059	12.135	VV	3476	65931	0.96%	0.263%
221	12.140	12.135	12.159	VV	482	5866	0.09%	0.023%
222	12.180	12.159	12.202	VV	872	15941	0.23%	0.064%
223	12.206	12.202	12.211	VV	407	1995	0.03%	0.008%
224	12.216	12.211	12.222	VV	440	2325	0.03%	0.009%
225	12.244	12.222	12.279	VV	1512	28644	0.42%	0.114%
226	12.284	12.279	12.290	VV	505	2936	0.04%	0.012%
227	12.313	12.290	12.353	VV	1957	32119	0.47%	0.128%
228	12.376	12.353	12.391	VV	439	5819	0.08%	0.023%
229	12.400	12.391	12.422	VV	248	3023	0.04%	0.012%
230	12.428	12.422	12.444	VV	197	1247	0.02%	0.005%
231	12.458	12.444	12.474	VV	239	1484	0.02%	0.006%
232	12.497	12.474	12.509	PV	512	5296	0.08%	0.021%
233	12.518	12.509	12.540	VV	409	6309	0.09%	0.025%
234	12.560	12.540	12.568	VV	524	6728	0.10%	0.027%
235	12.575	12.568	12.581	VV	603	3706	0.05%	0.015%
236	12.610	12.581	12.616	VV	587	9383	0.14%	0.037%
237	12.678	12.616	12.734	VV	93954	1207525	17.62%	4.822%
238	12.739	12.734	12.762	VV	1220	16089	0.23%	0.064%
239	12.763	12.762	12.779	VV	817	6510	0.09%	0.026%
240	12.786	12.779	12.794	VV	683	5057	0.07%	0.020%
241	12.809	12.794	12.817	VV	712	8427	0.12%	0.034%
242	12.827	12.817	12.839	VV	697	8145	0.12%	0.033%
243	12.847	12.839	12.860	VV	809	8958	0.13%	0.036%
244	12.865	12.860	12.885	VV	769	8865	0.13%	0.035%
245	12.919	12.885	12.951	VV	3409	57651	0.84%	0.230%
246	12.959	12.951	12.978	VV	756	9442	0.14%	0.038%

247	13.001	12.978	13.020	VV	726	14184	0.21%	0.057%
248	13.046	13.020	13.083	VV	934	24626	0.36%	0.098%
249	13.106	13.083	13.169	VV	2809	83964	1.23%	0.335%
250	13.172	13.169	13.212	VV	1118	22309	0.33%	0.089%
251	13.226	13.212	13.250	VV	738	13591	0.20%	0.054%
252	13.265	13.250	13.282	VV	875	13838	0.20%	0.055%
253	13.286	13.282	13.344	VV	981	22934	0.33%	0.092%
254	13.362	13.344	13.370	VV	893	9216	0.13%	0.037%
255	13.396	13.370	13.415	VV	2379	39808	0.58%	0.159%
256	13.433	13.415	13.458	VV	1919	28943	0.42%	0.116%
257	13.463	13.458	13.470	VV	620	3723	0.05%	0.015%
258	13.481	13.470	13.491	VV	569	6296	0.09%	0.025%
259	13.494	13.491	13.520	VV	513	5975	0.09%	0.024%
260	13.528	13.520	13.544	VV	420	4863	0.07%	0.019%
261	13.547	13.544	13.559	VV	337	2479	0.04%	0.010%
262	13.567	13.559	13.596	VV	519	6469	0.09%	0.026%
263	13.600	13.596	13.616	VV	253	2003	0.03%	0.008%
264	13.623	13.616	13.630	VV	193	1159	0.02%	0.005%
265	13.640	13.630	13.648	VV	313	1920	0.03%	0.008%
266	13.655	13.648	13.677	VV	232	3440	0.05%	0.014%
267	13.680	13.677	13.710	VV	362	4216	0.06%	0.017%
268	13.729	13.717	13.759	VV	432	7502	0.11%	0.030%
269	13.769	13.759	13.780	VV	444	3904	0.06%	0.016%
270	13.784	13.780	13.792	VV	384	2137	0.03%	0.009%
271	13.802	13.792	13.815	VV	424	4594	0.07%	0.018%
272	13.826	13.815	13.832	VV	485	3823	0.06%	0.015%
273	13.847	13.832	13.864	VV	849	13072	0.19%	0.052%
274	13.884	13.864	13.930	VV	1822	42164	0.62%	0.168%
275	13.937	13.930	13.943	VV	447	2873	0.04%	0.011%
276	13.960	13.943	13.974	VV	584	8770	0.13%	0.035%
277	13.989	13.974	13.994	VV	578	5753	0.08%	0.023%
278	13.999	13.994	14.037	VV	642	10324	0.15%	0.041%
279	14.044	14.037	14.049	VV	548	3113	0.05%	0.012%
280	14.053	14.049	14.066	VV	511	4436	0.06%	0.018%
281	14.075	14.066	14.092	VV	505	6386	0.09%	0.026%
282	14.101	14.092	14.110	VV	447	4446	0.06%	0.018%
283	14.115	14.110	14.135	VV	674	7373	0.11%	0.029%
284	14.152	14.135	14.190	VV	619	15458	0.23%	0.062%
285	14.195	14.190	14.216	VV	395	4493	0.07%	0.018%
286	14.256	14.216	14.271	VV	545	12888	0.19%	0.051%
287	14.307	14.271	14.312	VV	671	13338	0.19%	0.053%
288	14.331	14.312	14.359	VV	596	13115	0.19%	0.052%
289	14.381	14.359	14.429	VV	1181	26554	0.39%	0.106%
290	14.445	14.429	14.455	VV	231	2754	0.04%	0.011%
291	14.502	14.455	14.517	VV	1686	32848	0.48%	0.131%
292	14.530	14.517	14.561	VV	1760	26654	0.39%	0.106%
293	14.585	14.561	14.632	VV	2861	43202	0.63%	0.173%
294	14.642	14.632	14.667	VV	257	2790	0.04%	0.011%
295	14.697	14.667	14.724	PV	413	6937	0.10%	0.028%
296	14.738	14.724	14.812	VV	454	11068	0.16%	0.044%
297	14.829	14.812	14.836	VV	328	3202	0.05%	0.013%
298	14.846	14.836	14.854	VV	456	3829	0.06%	0.015%
299	14.908	14.854	15.030	VV	19549	412785	6.02%	1.648%

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300	15.069	15.030	15.194	VV	3859	110029	1.61%	0.439%
301	15.201	15.194	15.212	VV	602	5456	0.08%	0.022%
302	15.238	15.212	15.287	VV	629	21696	0.32%	0.087%
303	15.292	15.287	15.310	VV	427	4220	0.06%	0.017%
304	15.349	15.310	15.417	VV	744	29769	0.43%	0.119%
305	15.444	15.417	15.479	VV	703	19219	0.28%	0.077%
306	15.508	15.479	15.523	VV	888	17598	0.26%	0.070%
307	15.546	15.523	15.599	VV	1481	34508	0.50%	0.138%
308	15.626	15.599	15.660	VV	683	16014	0.23%	0.064%
309	15.678	15.660	15.710	VV	317	5474	0.08%	0.022%
310	15.735	15.710	15.782	VV	370	12295	0.18%	0.049%
311	15.820	15.782	15.830	VV	300	4510	0.07%	0.018%
312	15.865	15.830	15.878	VV	287	5907	0.09%	0.024%
313	15.931	15.878	15.965	VV	1899	45113	0.66%	0.180%
314	15.983	15.965	16.005	VV	854	16620	0.24%	0.066%
315	16.027	16.005	16.077	VV	1022	26703	0.39%	0.107%
316	16.120	16.077	16.167	VV	1674	44570	0.65%	0.178%
317	16.188	16.167	16.199	VV	679	9344	0.14%	0.037%
318	16.229	16.199	16.257	VV	707	17928	0.26%	0.072%
319	16.274	16.257	16.296	VV	445	7815	0.11%	0.031%
320	16.313	16.296	16.347	VV	521	12682	0.19%	0.051%
321	16.404	16.347	16.426	VV	840	29178	0.43%	0.117%
322	16.457	16.426	16.470	VV	1381	23401	0.34%	0.093%
323	16.492	16.470	16.507	VV	1920	30561	0.45%	0.122%
324	16.532	16.507	16.565	VV	8262	122992	1.79%	0.491%
325	16.581	16.565	16.652	VV	1161	33553	0.49%	0.134%
326	16.662	16.652	16.670	VV	432	3892	0.06%	0.016%
327	16.709	16.670	16.739	VV	471	14879	0.22%	0.059%
328	16.807	16.739	16.840	VV	912	30996	0.45%	0.124%
329	16.862	16.840	16.892	VV	1242	26103	0.38%	0.104%
330	16.902	16.892	16.915	VV	858	10966	0.16%	0.044%
331	16.940	16.915	16.965	VV	2364	39728	0.58%	0.159%
332	16.979	16.965	17.015	VV	652	16696	0.24%	0.067%
333	17.057	17.015	17.089	VV	881	27775	0.41%	0.111%
334	17.099	17.089	17.114	VV	608	8098	0.12%	0.032%
335	17.119	17.114	17.134	VV	746	7024	0.10%	0.028%
336	17.168	17.134	17.192	VV	734	21254	0.31%	0.085%
337	17.213	17.192	17.254	VV	664	19436	0.28%	0.078%
338	17.258	17.254	17.274	VV	571	5887	0.09%	0.024%
339	17.313	17.274	17.320	VV	721	16629	0.24%	0.066%
340	17.345	17.320	17.355	VV	1487	23087	0.34%	0.092%
341	17.373	17.355	17.414	VV	2531	47453	0.69%	0.189%
342	17.421	17.414	17.436	VV	770	8355	0.12%	0.033%
343	17.466	17.436	17.535	VV	4552	93928	1.37%	0.375%
344	17.544	17.535	17.560	VV	744	9610	0.14%	0.038%
345	17.579	17.560	17.619	VV	815	21105	0.31%	0.084%
346	17.631	17.619	17.642	VV	588	6468	0.09%	0.026%
347	17.666	17.642	17.692	PV	1055	20528	0.30%	0.082%
348	17.731	17.692	17.772	VV	7175	160530	2.34%	0.641%
349	17.794	17.772	17.862	VV	3199	88165	1.29%	0.352%
350	17.893	17.862	17.979	VV	871	37085	0.54%	0.148%
351	17.992	17.979	18.009	VV	283	3501	0.05%	0.014%

						rteres		
352	18.069	18.009	18.103	VV	315	9346	0.14%	0.037%
353	18.200	18.103	18.224	VV	2010	46429	0.68%	0.185%
354	18.236	18.224	18.272	VV	565	9077	0.13%	0.036%
			Sum of corrected areas:			25042086		

Aromatic EPH 021125.M Sat Mar 01 03:58:15 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	72.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 14:03	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.52	U	1	0.52	1.38	mg/kg	FC068327.D
Aliphatic C12-C16	Aliphatic C12-C16	0.96		1	0.33	0.92	mg/kg	FC068327.D
Aliphatic C16-C21	Aliphatic C16-C21	0.66	J	1	0.41	1.38	mg/kg	FC068327.D
Aliphatic C21-C28	Aliphatic C21-C28	1.20	J	1	1.10	1.84	mg/kg	FC068327.D
Aliphatic C28-C40	Aliphatic C28-C40	2.48	U	1	2.48	2.76	mg/kg	FC068327.D
Aromatic C10-C12	Aromatic C10-C12	0.41	U	1	0.41	0.92	mg/kg	FD049135.D
Aromatic C12-C16	Aromatic C12-C16	3.00		1	0.47	1.38	mg/kg	FD049135.D
Aromatic C16-C21	Aromatic C16-C21	2.02	J	1	1.32	2.30	mg/kg	FD049135.D
Aromatic C21-C36	Aromatic C21-C36	2.87	J	1	2.76	3.68	mg/kg	FD049135.D
Total AliphaticEPH	Total AliphaticEPH	4.85	U		4.85	8.28	mg/kg	
Total AromaticEPH	Total AromaticEPH	7.89	J		4.96	8.28	mg/kg	
Total EPH	Total EPH	10.7	J		9.81	16.6	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	72.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 14:03	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.52	U	1	0.52	1.38	mg/kg	FC068327.D
Aliphatic C12-C16	Aliphatic C12-C16	0.96		1	0.33	0.92	mg/kg	FC068327.D
Aliphatic C16-C21	Aliphatic C16-C21	0.66	J	1	0.41	1.38	mg/kg	FC068327.D
Aliphatic C21-C28	Aliphatic C21-C28	1.20	J	1	1.10	1.84	mg/kg	FC068327.D
Aliphatic C28-C40	Aliphatic C28-C40	2.48	U	1	2.48	2.76	mg/kg	FC068327.D
Aromatic C10-C12	Aromatic C10-C12	0.41	U	1	0.41	0.92	mg/kg	FD049135.D
Aromatic C12-C16	Aromatic C12-C16	3.00		1	0.47	1.38	mg/kg	FD049135.D
Aromatic C16-C21	Aromatic C16-C21	2.02	J	1	1.32	2.30	mg/kg	FD049135.D
Aromatic C21-C36	Aromatic C21-C36	2.87	J	1	2.76	3.68	mg/kg	FD049135.D
Total AliphaticEPH	Total AliphaticEPH	4.85	U		4.85	8.28	mg/kg	
Total AromaticEPH	Total AromaticEPH	7.89	J		4.96	8.28	mg/kg	
Total EPH	Total EPH	10.7	J		9.81	16.6	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	72.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068327.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.52	U	0.52	1.38	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.96		0.33	0.92	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.66	J	0.41	1.38	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.20	J	1.10	1.84	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.48	U	2.48	2.76	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.4		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-03	Acq On:	28 Feb 2025 14:03
Client Sample ID:	B-163-SB02	Operator:	YP/AJ
Data file:	FC068327.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	705853	5.005	300	ug/ml
Aliphatic C12-C16	6.370	9.754	1427669	10.447	200	ug/ml
Aliphatic C16-C21	9.755	13.107	938853	7.132	300	ug/ml
Aliphatic C21-C28	13.108	16.761	1595637	13.005	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2528112	24.581	600	ug/ml
Aliphatic EPH	3.104	21.565	7196124	60.171		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.839	12.839	4203916	37.38		ug/ml
Aliphatic C9-C28	3.104	16.761	4668012	35.589	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068327.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1415-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-163-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:23:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.839	4203916	37.377 ug/ml
Spiked Amount 50.000		Recovery = 74.75%	
Target Compounds			

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

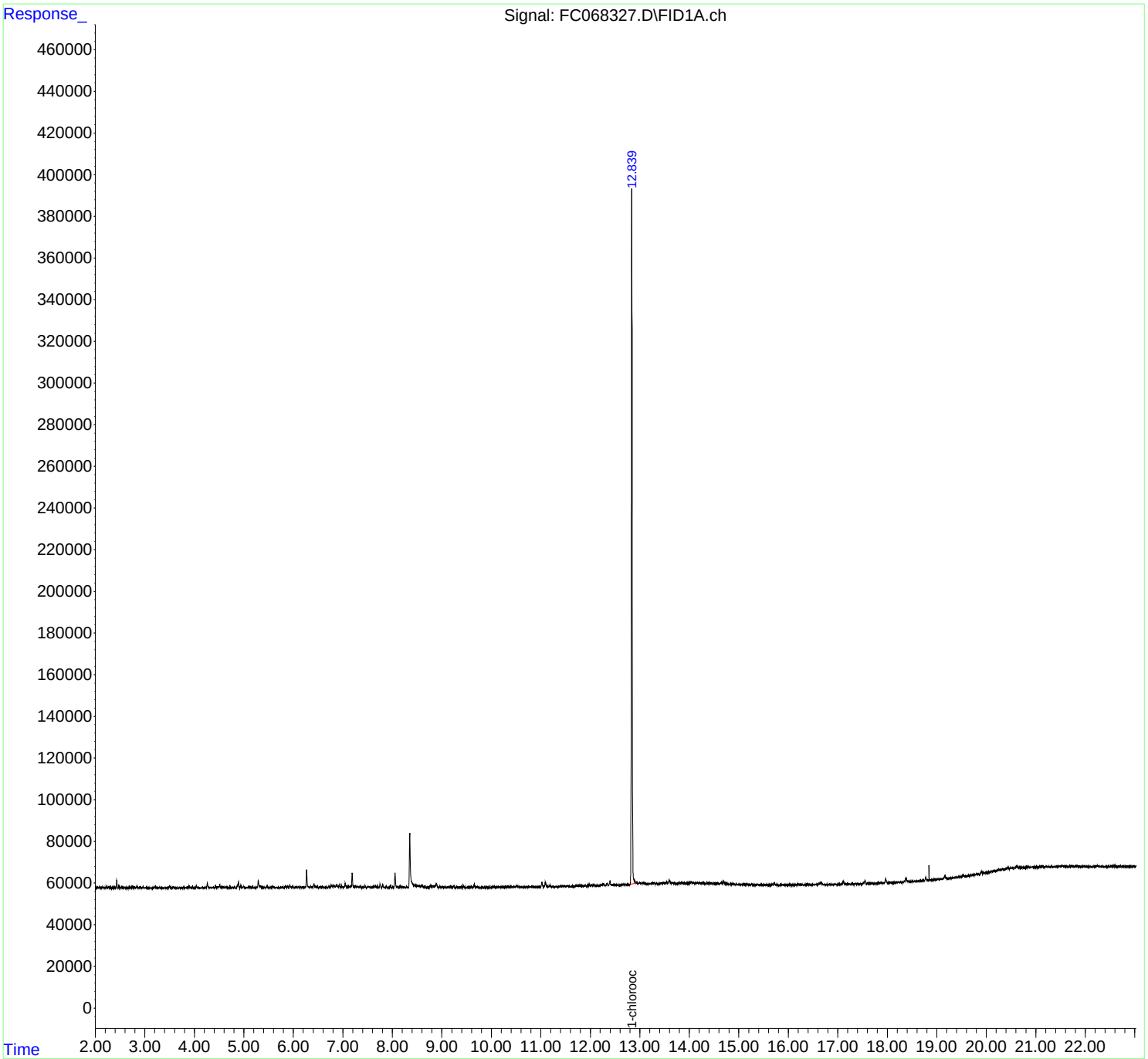
Quantitation Report (QT Reviewed)

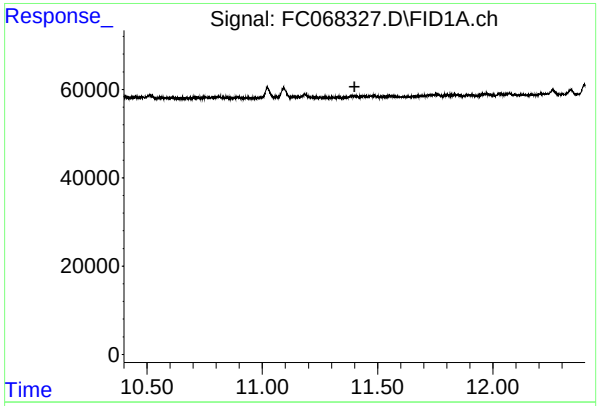
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068327.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1415-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-163-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:23:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

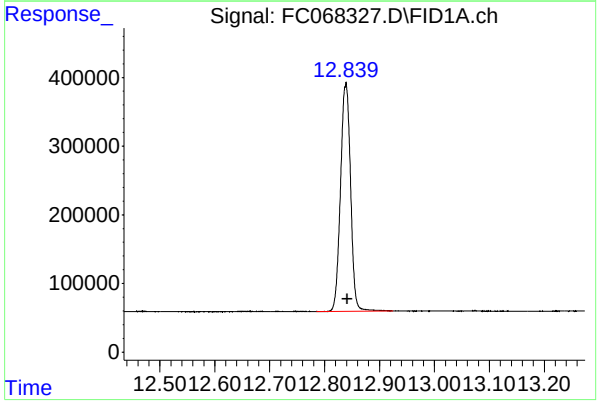




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-163-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 12.839 min
Delta R.T.: -0.003 min
Response: 4203916
Conc: 37.38 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068327.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:03
Sample : Q1415-03
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.359	2.305	2.395	BV	275	2994	0.07%	0.025%
2	2.405	2.395	2.412	PV	61	523	0.01%	0.004%
3	2.432	2.412	2.457	VV	3610	28140	0.65%	0.237%
4	2.473	2.457	2.545	VV	870	9544	0.22%	0.081%
5	2.556	2.545	2.577	VV	112	895	0.02%	0.008%
6	2.592	2.577	2.611	VV	154	1323	0.03%	0.011%
7	2.656	2.611	2.694	VV	151	3099	0.07%	0.026%
8	2.743	2.694	2.773	PV	565	9777	0.22%	0.082%
9	2.788	2.773	2.808	VV	574	5645	0.13%	0.048%
10	2.839	2.808	2.875	VV	1114	12990	0.30%	0.110%
11	2.885	2.875	2.894	VV	89	776	0.02%	0.007%
12	2.912	2.894	2.931	VV	195	2910	0.07%	0.025%
13	2.961	2.931	3.004	VV	467	6901	0.16%	0.058%
14	3.033	3.004	3.042	VV	154	2254	0.05%	0.019%
15	3.052	3.042	3.084	VV	160	1941	0.04%	0.016%
16	3.095	3.084	3.105	PV	138	584	0.01%	0.005%
17	3.123	3.105	3.151	VV	100	1643	0.04%	0.014%
18	3.208	3.151	3.294	VV	773	14485	0.33%	0.122%
19	3.304	3.294	3.341	VV	151	2503	0.06%	0.021%
20	3.354	3.341	3.364	VV	141	1016	0.02%	0.009%
21	3.383	3.364	3.391	VV	138	1551	0.04%	0.013%
22	3.402	3.391	3.421	VV	176	2076	0.05%	0.018%
23	3.437	3.421	3.451	PV	48	993	0.02%	0.008%
24	3.499	3.451	3.515	VV	1254	15817	0.36%	0.133%
25	3.523	3.515	3.555	VV	284	2988	0.07%	0.025%
26	3.575	3.555	3.612	VV	450	6079	0.14%	0.051%
27	3.628	3.612	3.678	VV	164	3315	0.08%	0.028%
28	3.695	3.678	3.718	VV	126	2200	0.05%	0.019%
29	3.738	3.718	3.752	VV	147	1751	0.04%	0.015%
30	3.782	3.752	3.824	VV	271	6014	0.14%	0.051%
31	3.864	3.824	3.878	VV	651	8063	0.19%	0.068%
32	3.894	3.878	3.941	VV	1048	15392	0.35%	0.130%
33	3.960	3.941	3.991	VV	606	7303	0.17%	0.062%
34	4.040	3.991	4.057	VV	768	12190	0.28%	0.103%
35	4.067	4.057	4.141	VV	290	7306	0.17%	0.062%
36	4.167	4.141	4.199	VV	289	4912	0.11%	0.041%

rteres

37	4.214	4.199	4.230	VV	179	2576	0.06%	0.022%
38	4.262	4.230	4.314	VV	2511	33708	0.77%	0.284%
39	4.325	4.314	4.351	VV	269	4379	0.10%	0.037%
40	4.374	4.351	4.398	VV	351	5810	0.13%	0.049%
41	4.428	4.398	4.448	VV	982	13557	0.31%	0.114%
42	4.456	4.448	4.471	VV	431	5136	0.12%	0.043%
43	4.484	4.471	4.497	VV	838	7891	0.18%	0.067%
44	4.513	4.497	4.529	VV	1765	17719	0.41%	0.150%
45	4.538	4.529	4.554	VV	520	5340	0.12%	0.045%
46	4.568	4.554	4.581	VV	389	4970	0.11%	0.042%
47	4.586	4.581	4.602	VV	385	3195	0.07%	0.027%
48	4.631	4.602	4.645	VV	444	6844	0.16%	0.058%
49	4.662	4.645	4.689	VV	355	7073	0.16%	0.060%
50	4.723	4.689	4.765	VV	604	9614	0.22%	0.081%
51	4.775	4.765	4.794	VV	198	2461	0.06%	0.021%
52	4.812	4.794	4.844	VV	387	5928	0.14%	0.050%
53	4.890	4.844	4.917	VV	2958	45268	1.04%	0.382%
54	4.939	4.917	4.978	VV	998	18836	0.43%	0.159%
55	4.998	4.978	5.029	VV	791	11105	0.26%	0.094%
56	5.053	5.029	5.065	VV	189	2535	0.06%	0.021%
57	5.091	5.065	5.135	VV	433	10384	0.24%	0.088%
58	5.150	5.135	5.165	VV	415	5184	0.12%	0.044%
59	5.177	5.165	5.192	VV	357	4133	0.09%	0.035%
60	5.204	5.192	5.218	VV	265	3212	0.07%	0.027%
61	5.236	5.218	5.259	VV	225	4289	0.10%	0.036%
62	5.292	5.259	5.320	VV	3844	49940	1.15%	0.421%
63	5.331	5.320	5.374	VV	1043	15773	0.36%	0.133%
64	5.385	5.374	5.424	VV	358	6491	0.15%	0.055%
65	5.467	5.424	5.501	VV	749	16956	0.39%	0.143%
66	5.512	5.501	5.518	VV	154	1385	0.03%	0.012%
67	5.539	5.518	5.556	VV	298	4396	0.10%	0.037%
68	5.582	5.556	5.616	VV	710	12076	0.28%	0.102%
69	5.636	5.616	5.649	VV	295	3652	0.08%	0.031%
70	5.672	5.649	5.711	VV	310	7362	0.17%	0.062%
71	5.742	5.711	5.760	VV	304	4925	0.11%	0.042%
72	5.792	5.760	5.810	VV	355	6627	0.15%	0.056%
73	5.844	5.810	5.865	VV	830	15354	0.35%	0.130%
74	5.887	5.865	5.908	VV	970	12997	0.30%	0.110%
75	5.928	5.908	5.963	VV	1346	20153	0.46%	0.170%
76	5.989	5.963	6.030	VV	1000	16925	0.39%	0.143%
77	6.064	6.030	6.088	VV	403	9462	0.22%	0.080%
78	6.100	6.088	6.129	VV	424	6544	0.15%	0.055%
79	6.151	6.129	6.173	VV	379	7778	0.18%	0.066%
80	6.194	6.173	6.215	VV	320	6567	0.15%	0.055%
81	6.269	6.215	6.334	VV	8715	111286	2.56%	0.939%
82	6.352	6.334	6.373	VV	694	10460	0.24%	0.088%
83	6.388	6.373	6.401	VV	552	6908	0.16%	0.058%
84	6.417	6.401	6.440	VV	2033	24526	0.56%	0.207%
85	6.450	6.440	6.475	VV	608	8239	0.19%	0.070%
86	6.487	6.475	6.508	VV	643	8406	0.19%	0.071%
87	6.525	6.508	6.567	VV	369	9404	0.22%	0.079%
88	6.586	6.567	6.606	VV	645	9806	0.23%	0.083%
89	6.653	6.606	6.681	VV	410	11583	0.27%	0.098%

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90	6.709	6.681	6.736	VV	720	12371	0.28%	0.104%
91	6.764	6.736	6.776	VV	1229	17824	0.41%	0.150%
92	6.781	6.776	6.799	VV	1033	11629	0.27%	0.098%
93	6.824	6.799	6.848	VV	1319	23111	0.53%	0.195%
94	6.869	6.848	6.908	VV	1643	33229	0.76%	0.280%
95	6.925	6.908	6.945	VV	1165	14683	0.34%	0.124%
96	6.967	6.945	6.986	VV	1334	17310	0.40%	0.146%
97	6.993	6.986	7.006	VV	529	4870	0.11%	0.041%
98	7.048	7.006	7.087	VV	2226	37363	0.86%	0.315%
99	7.106	7.087	7.121	VV	542	9073	0.21%	0.077%
100	7.130	7.121	7.141	VV	532	5949	0.14%	0.050%
101	7.152	7.141	7.168	VV	622	7956	0.18%	0.067%
102	7.190	7.168	7.235	VV	6950	88048	2.02%	0.743%
103	7.247	7.235	7.265	VV	542	8771	0.20%	0.074%
104	7.279	7.265	7.296	VV	677	9132	0.21%	0.077%
105	7.311	7.296	7.331	VV	439	8314	0.19%	0.070%
106	7.358	7.331	7.388	VV	769	14712	0.34%	0.124%
107	7.399	7.388	7.418	VV	301	3908	0.09%	0.033%
108	7.448	7.418	7.480	VV	1022	14681	0.34%	0.124%
109	7.522	7.480	7.536	VV	623	14515	0.33%	0.122%
110	7.548	7.536	7.580	VV	435	7915	0.18%	0.067%
111	7.611	7.580	7.625	VV	591	9179	0.21%	0.077%
112	7.642	7.625	7.656	VV	792	11327	0.26%	0.096%
113	7.666	7.656	7.688	VV	620	8294	0.19%	0.070%
114	7.709	7.688	7.731	VV	802	10353	0.24%	0.087%
115	7.753	7.731	7.788	VV	1718	22466	0.52%	0.190%
116	7.808	7.788	7.830	VV	1704	19855	0.46%	0.168%
117	7.845	7.830	7.861	VV	341	3861	0.09%	0.033%
118	7.878	7.861	7.896	VV	754	8964	0.21%	0.076%
119	7.910	7.896	7.940	VV	253	4735	0.11%	0.040%
120	7.963	7.940	8.030	VV	1229	20048	0.46%	0.169%
121	8.056	8.030	8.128	VV	7048	91653	2.11%	0.773%
122	8.152	8.128	8.185	VV	567	13542	0.31%	0.114%
123	8.202	8.185	8.228	VV	511	7980	0.18%	0.067%
124	8.250	8.228	8.270	VV	361	5439	0.12%	0.046%
125	8.289	8.270	8.321	VV	428	5230	0.12%	0.044%
126	8.353	8.321	8.492	PV	25967	441965	10.15%	3.729%
127	8.508	8.492	8.528	VV	906	17372	0.40%	0.147%
128	8.546	8.528	8.567	VV	839	15938	0.37%	0.134%
129	8.594	8.567	8.635	VV	1273	30315	0.70%	0.256%
130	8.656	8.635	8.688	VV	517	10681	0.25%	0.090%
131	8.708	8.688	8.730	VV	386	6800	0.16%	0.057%
132	8.742	8.730	8.750	VV	249	2615	0.06%	0.022%
133	8.776	8.750	8.795	VV	1238	17706	0.41%	0.149%
134	8.812	8.795	8.828	VV	876	12599	0.29%	0.106%
135	8.843	8.828	8.858	VV	669	11035	0.25%	0.093%
136	8.888	8.858	8.928	VV	1898	39464	0.91%	0.333%
137	8.935	8.928	8.946	VV	344	3255	0.07%	0.027%
138	8.962	8.946	8.987	VV	544	7780	0.18%	0.066%
139	9.011	8.987	9.045	VV	397	7217	0.17%	0.061%
140	9.070	9.045	9.100	VV	322	7107	0.16%	0.060%
141	9.115	9.100	9.125	VV	267	3394	0.08%	0.029%

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142	9.132	9.125	9.144	VV	245	2431	0.06%	0.021%
143	9.174	9.144	9.218	VV	462	12582	0.29%	0.106%
144	9.241	9.218	9.276	VV	842	14155	0.33%	0.119%
145	9.297	9.276	9.354	VV	388	7856	0.18%	0.066%
146	9.382	9.354	9.415	VV	477	8244	0.19%	0.070%
147	9.433	9.415	9.475	VV	926	12976	0.30%	0.109%
148	9.484	9.475	9.507	VV	232	2604	0.06%	0.022%
149	9.523	9.507	9.539	VV	188	2255	0.05%	0.019%
150	9.572	9.539	9.611	VV	459	8759	0.20%	0.074%
151	9.654	9.611	9.707	VV	1409	24344	0.56%	0.205%
152	9.728	9.707	9.795	VV	280	9058	0.21%	0.076%
153	9.823	9.795	9.875	VV	169	4440	0.10%	0.037%
154	9.935	9.875	9.951	PV	142	3532	0.08%	0.030%
155	9.974	9.951	9.991	VV	311	4394	0.10%	0.037%
156	9.999	9.991	10.007	VV	203	1724	0.04%	0.015%
157	10.036	10.007	10.068	VV	390	9791	0.22%	0.083%
158	10.079	10.068	10.101	VV	253	3800	0.09%	0.032%
159	10.126	10.101	10.147	VV	248	5236	0.12%	0.044%
160	10.159	10.147	10.191	VV	295	4927	0.11%	0.042%
161	10.198	10.191	10.228	VV	134	1993	0.05%	0.017%
162	10.251	10.228	10.275	VV	303	5863	0.13%	0.049%
163	10.280	10.275	10.298	VV	239	2255	0.05%	0.019%
164	10.322	10.298	10.371	VV	440	10445	0.24%	0.088%
165	10.391	10.371	10.426	VV	550	11911	0.27%	0.100%
166	10.443	10.426	10.465	VV	342	6563	0.15%	0.055%
167	10.477	10.465	10.490	VV	345	4586	0.11%	0.039%
168	10.514	10.490	10.547	VV	836	13980	0.32%	0.118%
169	10.567	10.547	10.598	VV	225	4682	0.11%	0.040%
170	10.609	10.598	10.635	VV	215	2779	0.06%	0.023%
171	10.643	10.635	10.680	VV	124	1991	0.05%	0.017%
172	10.716	10.680	10.741	VV	275	5176	0.12%	0.044%
173	10.759	10.741	10.770	VV	257	2913	0.07%	0.025%
174	10.780	10.770	10.790	VV	246	2279	0.05%	0.019%
175	10.810	10.790	10.871	VV	392	9126	0.21%	0.077%
176	10.894	10.871	10.961	VV	246	4670	0.11%	0.039%
177	11.022	10.961	11.054	VV	2460	36874	0.85%	0.311%
178	11.093	11.054	11.165	VV	2318	44827	1.03%	0.378%
179	11.185	11.165	11.231	VV	943	15411	0.35%	0.130%
180	11.238	11.231	11.268	VV	141	2028	0.05%	0.017%
181	11.281	11.268	11.295	VV	116	1166	0.03%	0.010%
182	11.305	11.295	11.313	VV	118	818	0.02%	0.007%
183	11.328	11.313	11.355	VV	132	2137	0.05%	0.018%
184	11.407	11.355	11.431	VV	401	12310	0.28%	0.104%
185	11.443	11.431	11.460	VV	375	5506	0.13%	0.046%
186	11.477	11.460	11.515	VV	495	10792	0.25%	0.091%
187	11.546	11.515	11.623	VV	391	17163	0.39%	0.145%
188	11.757	11.623	11.778	VV	756	39104	0.90%	0.330%
189	11.793	11.778	11.818	VV	659	12640	0.29%	0.107%
190	11.843	11.818	11.871	VV	656	15786	0.36%	0.133%
191	11.890	11.871	11.933	VV	607	16965	0.39%	0.143%
192	11.975	11.933	12.011	VV	804	28402	0.65%	0.240%
193	12.029	12.011	12.053	VV	855	17122	0.39%	0.144%
194	12.070	12.053	12.086	VV	940	14127	0.32%	0.119%

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195	12.093	12.086	12.123	VV	640	12080	0.28%	0.102%
196	12.135	12.123	12.148	VV	603	7848	0.18%	0.066%
197	12.167	12.148	12.185	VV	687	12145	0.28%	0.102%
198	12.259	12.185	12.307	VV	1662	59411	1.36%	0.501%
199	12.338	12.307	12.362	VV	1719	34094	0.78%	0.288%
200	12.396	12.362	12.441	VV	2801	59456	1.37%	0.502%
201	12.464	12.441	12.491	VV	1062	25696	0.59%	0.217%
202	12.511	12.491	12.565	VV	815	29409	0.68%	0.248%
203	12.577	12.565	12.603	VV	719	13732	0.32%	0.116%
204	12.651	12.603	12.701	VV	990	47175	1.08%	0.398%
205	12.715	12.701	12.735	VV	972	17189	0.39%	0.145%
206	12.757	12.735	12.784	VV	959	25320	0.58%	0.214%
207	12.839	12.784	12.968	VV	332051	4352579	100.00%	36.725%
208	13.008	12.968	13.045	VV	1656	70064	1.61%	0.591%
209	13.072	13.045	13.175	VV	1777	103000	2.37%	0.869%
210	13.235	13.175	13.256	VV	1477	62627	1.44%	0.528%
211	13.282	13.256	13.338	VV	1547	67859	1.56%	0.573%
212	13.355	13.338	13.397	VV	1286	42212	0.97%	0.356%
213	13.445	13.397	13.483	VV	1593	72359	1.66%	0.611%
214	13.502	13.483	13.517	VV	1604	30830	0.71%	0.260%
215	13.539	13.517	13.567	VV	2084	50816	1.17%	0.429%
216	13.593	13.567	13.631	VV	2862	74816	1.72%	0.631%
217	13.652	13.631	13.761	VV	1704	100211	2.30%	0.846%
218	13.768	13.761	13.774	VV	1092	8474	0.19%	0.072%
219	13.816	13.774	13.871	VV	1541	79159	1.82%	0.668%
220	13.884	13.871	13.915	VV	1391	34234	0.79%	0.289%
221	13.918	13.915	13.954	VV	1338	28597	0.66%	0.241%
222	14.030	13.954	14.130	VV	1992	151836	3.49%	1.281%
223	14.155	14.130	14.185	VV	1566	44169	1.01%	0.373%
224	14.209	14.185	14.261	VV	1543	60934	1.40%	0.514%
225	14.274	14.261	14.341	VV	1304	55670	1.28%	0.470%
226	14.365	14.341	14.385	VV	1341	31534	0.72%	0.266%
227	14.402	14.385	14.425	VV	1308	29141	0.67%	0.246%
228	14.435	14.425	14.450	VV	1166	17315	0.40%	0.146%
229	14.465	14.450	14.488	VV	1193	25172	0.58%	0.212%
230	14.548	14.488	14.588	VV	1176	63054	1.45%	0.532%
231	14.597	14.588	14.605	VV	1066	10538	0.24%	0.089%
232	14.650	14.605	14.675	VV	1590	50156	1.15%	0.423%
233	14.693	14.675	14.735	VV	2343	51099	1.17%	0.431%
234	14.747	14.735	14.815	VV	1098	40212	0.92%	0.339%
235	14.832	14.815	14.848	VV	702	12626	0.29%	0.107%
236	14.862	14.848	14.876	VV	717	11892	0.27%	0.100%
237	14.895	14.876	14.915	VV	779	16194	0.37%	0.137%
238	14.927	14.915	15.031	VV	697	38524	0.89%	0.325%
239	15.035	15.031	15.078	VV	524	13243	0.30%	0.112%
240	15.082	15.078	15.094	VV	550	4585	0.11%	0.039%
241	15.105	15.094	15.167	VV	601	20279	0.47%	0.171%
242	15.215	15.167	15.305	VV	651	31302	0.72%	0.264%
243	15.324	15.305	15.375	VV	246	9092	0.21%	0.077%
244	15.395	15.375	15.431	VV	319	8791	0.20%	0.074%
245	15.446	15.431	15.475	VV	261	4797	0.11%	0.040%
246	15.534	15.475	15.608	VV	294	16994	0.39%	0.143%

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247	15.676	15.645	15.691	VV	542	9351	0.21%	0.079%
248	15.713	15.691	15.828	VV	1144	25472	0.59%	0.215%
249	15.891	15.828	15.958	VV	220	7222	0.17%	0.061%
250	15.968	15.958	16.013	PV	61	2015	0.05%	0.017%
251	16.029	16.013	16.074	VV	150	3294	0.08%	0.028%
252	16.093	16.074	16.132	VV	84	1936	0.04%	0.016%
253	16.196	16.132	16.235	PV	518	11797	0.27%	0.100%
254	16.245	16.235	16.301	VV	200	4333	0.10%	0.037%
255	16.401	16.301	16.461	PV	230	12523	0.29%	0.106%
256	16.489	16.461	16.528	VV	161	4927	0.11%	0.042%
257	16.564	16.528	16.597	VV	223	6722	0.15%	0.057%
258	16.662	16.597	16.747	VV	1379	34702	0.80%	0.293%
259	16.858	16.747	16.908	PV	157	8822	0.20%	0.074%
260	16.953	16.908	17.017	PV	189	6829	0.16%	0.058%
261	17.042	17.017	17.066	VV	148	3216	0.07%	0.027%
262	17.112	17.066	17.161	VV	1359	24237	0.56%	0.205%
263	17.215	17.161	17.271	VV	272	8535	0.20%	0.072%
264	17.396	17.271	17.471	PV	123	7141	0.16%	0.060%
265	17.548	17.471	17.590	PV	1695	33889	0.78%	0.286%
266	17.666	17.590	17.682	VV	169	5305	0.12%	0.045%
267	17.703	17.682	17.796	VV	150	4841	0.11%	0.041%
268	17.828	17.796	17.863	PV	219	5276	0.12%	0.045%
269	17.882	17.863	17.897	VV	109	1429	0.03%	0.012%
270	17.970	17.897	18.016	PV	1910	33770	0.78%	0.285%
271	18.243	18.016	18.270	VV	117	7054	0.16%	0.060%
272	18.379	18.270	18.458	VV	1684	36408	0.84%	0.307%
273	18.544	18.458	18.570	VV	122	4129	0.09%	0.035%
274	18.591	18.570	18.608	VV	56	1027	0.02%	0.009%
275	18.777	18.608	18.856	PV	1277	27389	0.63%	0.231%
276	18.956	18.856	18.986	VV	232	6073	0.14%	0.051%
277	19.163	18.986	19.222	VV	1388	34262	0.79%	0.289%
278	19.471	19.222	19.496	VV	555	46256	1.06%	0.390%
279	19.538	19.496	19.581	VV	1136	33914	0.78%	0.286%
280	19.903	19.581	19.933	VV	1893	183501	4.22%	1.548%
281	19.965	19.933	19.985	VV	1480	42132	0.97%	0.355%
282	20.262	19.985	20.285	VV	2382	309319	7.11%	2.610%
283	20.433	20.285	20.459	VV	2825	256484	5.89%	2.164%
284	20.616	20.459	20.670	VV	2998	325748	7.48%	2.749%
285	20.941	20.670	20.990	VV	2396	438128	10.07%	3.697%
286	21.015	20.990	21.050	VV	2139	75071	1.72%	0.633%
287	21.192	21.050	21.230	VV	1914	206233	4.74%	1.740%
288	21.239	21.230	21.251	VV	1824	23176	0.53%	0.196%
289	21.304	21.251	21.327	VV	1701	77887	1.79%	0.657%
290	21.350	21.327	21.376	VV	1647	47559	1.09%	0.401%
291	21.391	21.376	21.428	VV	1595	47695	1.10%	0.402%
292	21.468	21.428	21.507	VV	1600	72898	1.67%	0.615%
293	21.538	21.507	21.605	VV	1579	82479	1.89%	0.696%
294	21.624	21.605	21.703	VV	1235	64551	1.48%	0.545%
295	21.788	21.703	21.818	VV	941	63671	1.46%	0.537%
296	21.848	21.818	21.923	VV	775	40963	0.94%	0.346%
297	21.991	21.923	22.116	VV	504	40909	0.94%	0.345%
298	22.133	22.116	22.183	VV	118	2699	0.06%	0.023%

Sum of corrected areas: 11851793

Aliphatic EPH 021125.M Sat Mar 01 01:26:56 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	72.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049135.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.41	U	0.41	0.92	mg/kg
Aromatic C12-C16	Aromatic C12-C16	3.00		0.47	1.38	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.02	J	1.32	2.30	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.87	J	2.76	3.68	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.7		40 - 140	105%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	49.1		40 - 140	98%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.3		40 - 140	79%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-03	Acq On:	28 Feb 2025 14:03
Client Sample ID:	B-163-SB02	Operator:	YP/AJ
Data file:	FD049135.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	436225	2.743	200	ug/ml
Aromatic C12-C16	5.795	8.396	5257060	32.666	300	ug/ml
Aromatic C16-C21	8.397	12.661	3364506	21.939	500	ug/ml
Aromatic C21-C36	12.662	18.073	4463401	31.188	800	ug/ml
Aromatic EPH	4.076	18.073	13521192	88.535		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	6363238	39.33		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	7538273	52.67		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4320522	49.15		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049135.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1415-03
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-163-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:18:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	7538273	52.675 ug/ml
Spiked Amount 50.000		Recovery = 105.35%	
6) S 2-Flurobiphenyl (SURR)	8.202	4320522	49.146 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 98.29%	
11) S ortho-Terphenyl (SURR)	11.235	6363238	39.334 ug/ml
Spiked Amount 50.000		Recovery = 78.67%	
Target Compounds			

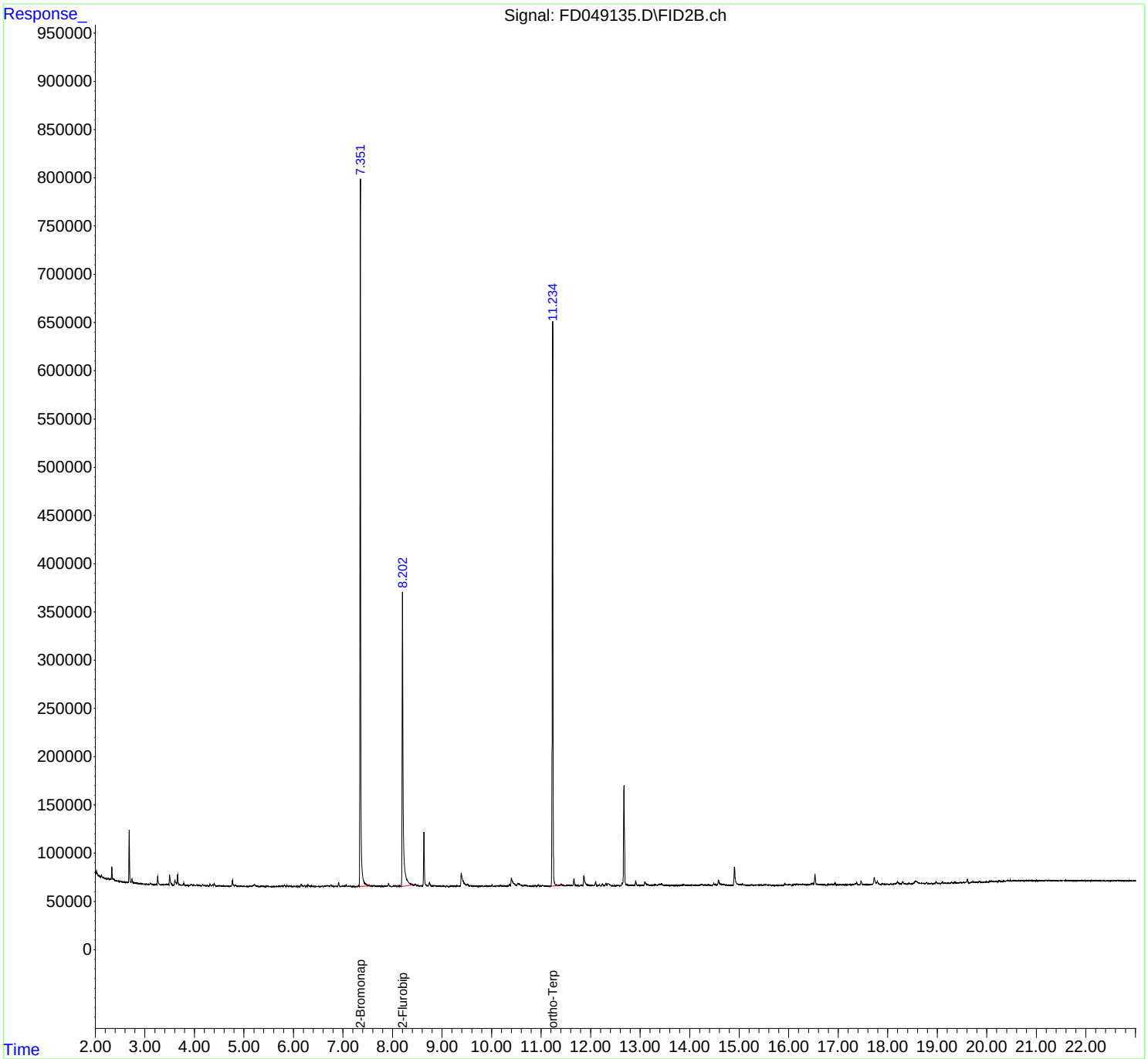
(f)=RT Delta > 1/2 Window (m)=manual int.

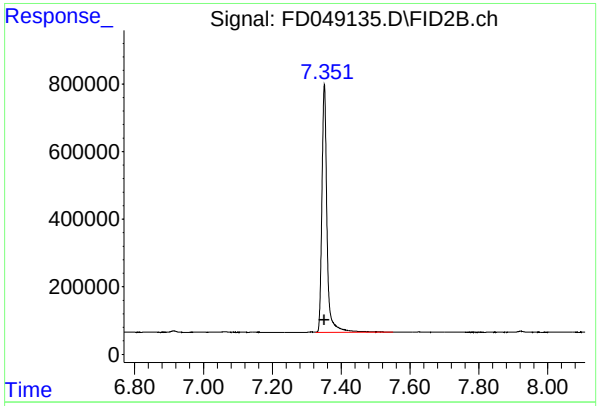
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049135.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1415-03
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-163-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:18:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

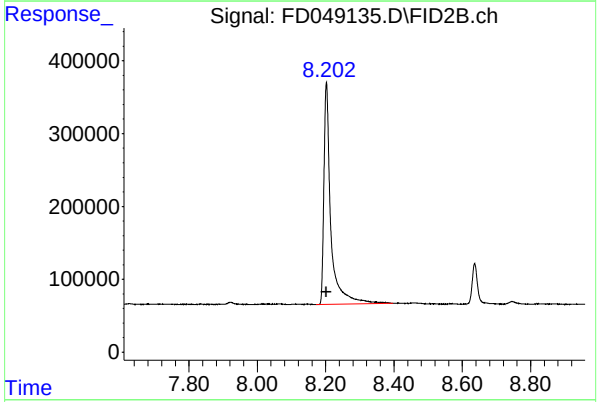




#4 2-Bromonaphthalene (SURR)

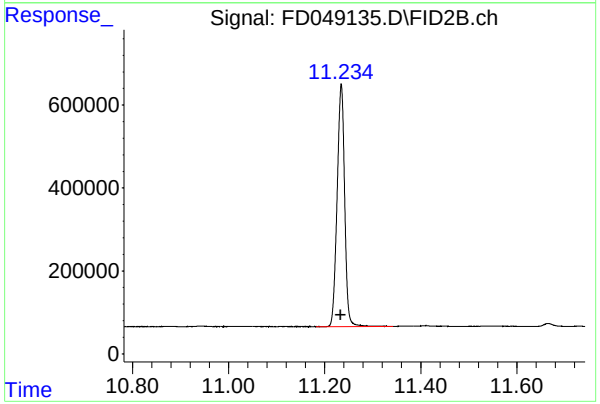
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 7538273
Conc: 52.67 ug/ml

Instrument :
FID_D
ClientSampleId :
B-163-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 4320522
Conc: 49.15 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.001 min
Response: 6363238
Conc: 39.33 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049135.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:03
Sample : Q1415-03
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.058	4.042	4.117	PH	846	17566	0.23%	0.064%
2	4.123	4.117	4.144	PV	211	1271	0.02%	0.005%
3	4.165	4.144	4.215	PV	1356	25293	0.33%	0.092%
4	4.220	4.215	4.235	VV	293	2463	0.03%	0.009%
5	4.261	4.235	4.292	VV	578	8855	0.12%	0.032%
6	4.317	4.292	4.345	VV	2060	25198	0.33%	0.091%
7	4.348	4.345	4.357	VV	410	1751	0.02%	0.006%
8	4.372	4.357	4.386	VV	1630	17668	0.23%	0.064%
9	4.401	4.386	4.444	VV	3036	39030	0.51%	0.141%
10	4.456	4.444	4.469	VV	276	3157	0.04%	0.011%
11	4.484	4.469	4.490	VV	442	3828	0.05%	0.014%
12	4.495	4.490	4.534	VV	537	10164	0.13%	0.037%
13	4.537	4.534	4.549	VV	156	1023	0.01%	0.004%
14	4.559	4.549	4.564	VV	286	1571	0.02%	0.006%
15	4.583	4.564	4.602	VV	461	5518	0.07%	0.020%
16	4.606	4.602	4.619	VV	249	1389	0.02%	0.005%
17	4.642	4.619	4.658	PV	211	1854	0.02%	0.007%
18	4.671	4.658	4.679	VV	235	1039	0.01%	0.004%
19	4.695	4.679	4.702	VV	385	2715	0.04%	0.010%
20	4.709	4.702	4.715	VV	222	1555	0.02%	0.006%
21	4.718	4.715	4.731	VV	293	1176	0.02%	0.004%
22	4.768	4.731	4.811	PV	6399	87033	1.14%	0.315%
23	4.828	4.811	4.881	VV	1420	25709	0.34%	0.093%
24	4.890	4.881	4.895	VV	285	1886	0.02%	0.007%
25	4.903	4.895	4.925	VV	296	3832	0.05%	0.014%
26	4.931	4.925	4.946	VV	202	1645	0.02%	0.006%
27	4.970	4.957	4.985	VV	428	4307	0.06%	0.016%
28	5.010	4.985	5.039	PV	242	4549	0.06%	0.016%
29	5.046	5.039	5.054	VV	164	1119	0.01%	0.004%
30	5.067	5.054	5.082	VV	280	2668	0.03%	0.010%
31	5.096	5.082	5.104	VV	312	2221	0.03%	0.008%
32	5.120	5.104	5.132	VV	457	5943	0.08%	0.022%
33	5.137	5.132	5.169	VV	529	8958	0.12%	0.032%
34	5.189	5.169	5.199	VV	1242	15687	0.21%	0.057%
35	5.214	5.199	5.254	VV	2042	33781	0.44%	0.122%
36	5.275	5.254	5.287	VV	643	9337	0.12%	0.034%

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37	5.290	5.287	5.299	VV	368	2025	0.03%	0.007%
38	5.339	5.299	5.345	VV	466	6891	0.09%	0.025%
39	5.350	5.345	5.376	VV	427	5560	0.07%	0.020%
40	5.395	5.376	5.400	VV	369	3722	0.05%	0.013%
41	5.405	5.400	5.429	VV	373	3807	0.05%	0.014%
42	5.441	5.439	5.455	VV	281	1553	0.02%	0.006%
43	5.470	5.455	5.494	VV	500	6228	0.08%	0.023%
44	5.499	5.494	5.512	VV	199	1594	0.02%	0.006%
45	5.517	5.512	5.533	VV	339	1379	0.02%	0.005%
46	5.544	5.533	5.569	VV	294	2684	0.04%	0.010%
47	5.579	5.569	5.590	PV	216	1941	0.03%	0.007%
48	5.598	5.590	5.609	VV	255	1855	0.02%	0.007%
49	5.619	5.609	5.650	VV	215	3914	0.05%	0.014%
50	5.690	5.650	5.700	VV	361	5672	0.07%	0.021%
51	5.724	5.700	5.728	VV	487	5457	0.07%	0.020%
52	5.734	5.728	5.758	VV	457	6381	0.08%	0.023%
53	5.777	5.758	5.792	VV	740	10369	0.14%	0.038%
54	5.817	5.792	5.840	VV	1365	20801	0.27%	0.075%
55	5.845	5.840	5.855	VV	509	3956	0.05%	0.014%
56	5.872	5.855	5.900	VV	1544	21913	0.29%	0.079%
57	5.928	5.900	5.949	VV	652	14244	0.19%	0.052%
58	5.951	5.949	5.984	VV	459	6393	0.08%	0.023%
59	5.997	5.984	6.020	VV	336	4736	0.06%	0.017%
60	6.035	6.020	6.049	VV	380	4137	0.05%	0.015%
61	6.079	6.049	6.111	VV	371	7742	0.10%	0.028%
62	6.121	6.111	6.129	VV	420	3415	0.04%	0.012%
63	6.155	6.129	6.207	VV	2641	49541	0.65%	0.179%
64	6.223	6.207	6.249	VV	1262	16930	0.22%	0.061%
65	6.266	6.249	6.276	VV	758	9762	0.13%	0.035%
66	6.294	6.276	6.348	VV	1930	36846	0.48%	0.133%
67	6.368	6.348	6.452	VV	1075	24850	0.33%	0.090%
68	6.468	6.452	6.481	VV	377	4731	0.06%	0.017%
69	6.489	6.481	6.527	VV	312	7074	0.09%	0.026%
70	6.542	6.527	6.565	VV	311	6296	0.08%	0.023%
71	6.581	6.565	6.611	VV	1154	14998	0.20%	0.054%
72	6.633	6.611	6.660	VV	907	19462	0.26%	0.070%
73	6.680	6.660	6.693	VV	1286	19141	0.25%	0.069%
74	6.703	6.693	6.729	VV	1130	16552	0.22%	0.060%
75	6.757	6.729	6.820	VV	2099	44346	0.58%	0.160%
76	6.839	6.820	6.854	VV	694	11206	0.15%	0.041%
77	6.857	6.854	6.884	VV	689	8436	0.11%	0.031%
78	6.913	6.884	6.954	VV	4343	56966	0.75%	0.206%
79	6.982	6.954	7.014	VV	880	20332	0.27%	0.074%
80	7.025	7.014	7.039	VV	959	10319	0.14%	0.037%
81	7.062	7.039	7.099	VV	2057	32751	0.43%	0.119%
82	7.115	7.099	7.132	VV	666	10164	0.13%	0.037%
83	7.146	7.132	7.174	VV	981	12985	0.17%	0.047%
84	7.180	7.174	7.193	VV	295	2555	0.03%	0.009%
85	7.220	7.193	7.242	VV	352	6703	0.09%	0.024%
86	7.270	7.242	7.283	PV	240	3777	0.05%	0.014%
87	7.315	7.283	7.327	VV	1461	17000	0.22%	0.062%
88	7.351	7.327	7.570	VV	737418	7628977	100.00%	27.606%
89	7.582	7.570	7.599	VV	1040	14763	0.19%	0.053%

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90	7.626	7.599	7.661	VV	1572	30444	0.40%	0.110%
91	7.680	7.661	7.699	VV	854	14749	0.19%	0.053%
92	7.713	7.699	7.774	VV	877	26483	0.35%	0.096%
93	7.789	7.774	7.819	VV	449	10978	0.14%	0.040%
94	7.834	7.819	7.851	VV	872	11300	0.15%	0.041%
95	7.865	7.851	7.874	VV	528	6160	0.08%	0.022%
96	7.890	7.874	7.900	VV	804	9357	0.12%	0.034%
97	7.922	7.900	7.984	VV	3372	55877	0.73%	0.202%
98	8.029	7.984	8.048	VV	938	24252	0.32%	0.088%
99	8.066	8.048	8.094	VV	997	17884	0.23%	0.065%
100	8.115	8.094	8.134	VV	673	12752	0.17%	0.046%
101	8.146	8.134	8.177	VV	964	11869	0.16%	0.043%
102	8.203	8.177	8.399	VV	305278	4459132	58.45%	16.136%
103	8.412	8.399	8.442	VV	2214	49489	0.65%	0.179%
104	8.458	8.442	8.502	VV	2308	63265	0.83%	0.229%
105	8.516	8.502	8.554	VV	1239	30303	0.40%	0.110%
106	8.566	8.554	8.593	VV	1306	23034	0.30%	0.083%
107	8.636	8.593	8.718	VV	56174	659890	8.65%	2.388%
108	8.746	8.718	8.807	VV	4287	88987	1.17%	0.322%
109	8.822	8.807	8.856	VV	1213	26457	0.35%	0.096%
110	8.869	8.856	8.904	VV	1019	20437	0.27%	0.074%
111	8.946	8.904	8.997	VV	661	27681	0.36%	0.100%
112	9.020	8.997	9.075	VV	761	21374	0.28%	0.077%
113	9.092	9.075	9.145	VV	961	17997	0.24%	0.065%
114	9.181	9.145	9.216	PV	614	17290	0.23%	0.063%
115	9.239	9.216	9.274	VV	739	17041	0.22%	0.062%
116	9.298	9.274	9.314	VV	818	15132	0.20%	0.055%
117	9.336	9.314	9.344	VV	675	9307	0.12%	0.034%
118	9.358	9.344	9.368	VV	751	8619	0.11%	0.031%
119	9.390	9.368	9.497	VV	13936	398250	5.22%	1.441%
120	9.516	9.497	9.565	VV	2404	59424	0.78%	0.215%
121	9.581	9.565	9.628	VV	937	27933	0.37%	0.101%
122	9.655	9.628	9.675	VV	537	12250	0.16%	0.044%
123	9.682	9.675	9.735	VV	408	10716	0.14%	0.039%
124	9.790	9.735	9.798	PV	536	12834	0.17%	0.046%
125	9.820	9.798	9.847	VV	707	13742	0.18%	0.050%
126	9.856	9.847	9.867	VV	266	2544	0.03%	0.009%
127	9.890	9.867	9.924	VV	535	12128	0.16%	0.044%
128	9.935	9.924	9.980	VV	588	13288	0.17%	0.048%
129	10.012	9.980	10.064	VV	1508	26833	0.35%	0.097%
130	10.103	10.064	10.120	VV	759	15688	0.21%	0.057%
131	10.133	10.120	10.147	VV	798	9636	0.13%	0.035%
132	10.179	10.147	10.208	VV	1023	24342	0.32%	0.088%
133	10.247	10.208	10.282	VV	791	23974	0.31%	0.087%
134	10.323	10.282	10.339	VV	712	17793	0.23%	0.064%
135	10.362	10.339	10.381	VV	1972	28674	0.38%	0.104%
136	10.403	10.381	10.509	VV	8812	263436	3.45%	0.953%
137	10.532	10.509	10.647	VV	3091	136549	1.79%	0.494%
138	10.663	10.647	10.733	VV	1238	41251	0.54%	0.149%
139	10.745	10.733	10.775	VV	594	10984	0.14%	0.040%
140	10.780	10.775	10.792	VV	490	2874	0.04%	0.010%
141	10.814	10.792	10.835	VV	393	6097	0.08%	0.022%

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142	10.842	10.835	10.855	VV	414	2308	0.03%	0.008%
143	10.877	10.855	10.901	VV	832	12222	0.16%	0.044%
144	10.943	10.901	10.975	VV	1651	27406	0.36%	0.099%
145	11.030	10.975	11.098	VV	892	29237	0.38%	0.106%
146	11.118	11.098	11.139	VV	405	5430	0.07%	0.020%
147	11.151	11.139	11.198	VV	360	5607	0.07%	0.020%
148	11.235	11.198	11.342	VV	583805	6397440	83.86%	23.150%
149	11.362	11.342	11.381	VV	1295	25615	0.34%	0.093%
150	11.409	11.381	11.437	VV	2249	48442	0.63%	0.175%
151	11.448	11.437	11.482	VV	1207	22904	0.30%	0.083%
152	11.534	11.482	11.544	VV	1138	31819	0.42%	0.115%
153	11.550	11.544	11.583	VV	1262	24728	0.32%	0.089%
154	11.590	11.583	11.627	VV	945	19388	0.25%	0.070%
155	11.665	11.627	11.709	VV	7747	120774	1.58%	0.437%
156	11.729	11.709	11.772	VV	1101	25974	0.34%	0.094%
157	11.816	11.772	11.845	VV	1246	32648	0.43%	0.118%
158	11.865	11.845	12.007	VV	10492	261152	3.42%	0.945%
159	12.013	12.007	12.057	VV	870	20890	0.27%	0.076%
160	12.103	12.057	12.130	VV	4497	75897	0.99%	0.275%
161	12.149	12.130	12.158	VV	665	8587	0.11%	0.031%
162	12.180	12.158	12.205	VV	1683	24331	0.32%	0.088%
163	12.241	12.205	12.289	VV	2520	52824	0.69%	0.191%
164	12.309	12.289	12.330	VV	2984	42597	0.56%	0.154%
165	12.350	12.330	12.440	VV	2810	93877	1.23%	0.340%
166	12.444	12.440	12.465	VV	488	5140	0.07%	0.019%
167	12.508	12.465	12.526	VV	598	15474	0.20%	0.056%
168	12.554	12.526	12.582	VV	596	16648	0.22%	0.060%
169	12.596	12.582	12.613	VV	677	8875	0.12%	0.032%
170	12.637	12.613	12.645	VV	2984	36169	0.47%	0.131%
171	12.676	12.645	12.802	VV	104229	1328438	17.41%	4.807%
172	12.816	12.802	12.837	VV	844	15558	0.20%	0.056%
173	12.846	12.837	12.853	VV	955	7894	0.10%	0.029%
174	12.860	12.853	12.879	VV	927	12124	0.16%	0.044%
175	12.911	12.879	12.951	VV	4912	80827	1.06%	0.292%
176	12.958	12.951	12.968	VV	713	6733	0.09%	0.024%
177	12.998	12.968	13.012	VV	843	17337	0.23%	0.063%
178	13.036	13.012	13.048	VV	890	16016	0.21%	0.058%
179	13.057	13.048	13.067	VV	840	9015	0.12%	0.033%
180	13.095	13.067	13.194	VV	4152	139078	1.82%	0.503%
181	13.229	13.194	13.237	VV	1008	21532	0.28%	0.078%
182	13.256	13.237	13.270	VV	1031	18485	0.24%	0.067%
183	13.300	13.270	13.354	VV	1375	51623	0.68%	0.187%
184	13.385	13.354	13.410	VV	2090	50252	0.66%	0.182%
185	13.430	13.410	13.507	VV	2606	68250	0.89%	0.247%
186	13.528	13.507	13.575	VV	862	25049	0.33%	0.091%
187	13.591	13.575	13.630	VV	728	16347	0.21%	0.059%
188	13.650	13.630	13.659	VV	676	9268	0.12%	0.034%
189	13.666	13.659	13.685	VV	528	7715	0.10%	0.028%
190	13.692	13.685	13.714	VV	507	8192	0.11%	0.030%
191	13.721	13.714	13.753	VV	455	8440	0.11%	0.031%
192	13.765	13.753	13.780	VV	389	5245	0.07%	0.019%
193	13.794	13.780	13.805	VV	491	5379	0.07%	0.019%
194	13.838	13.805	13.855	VV	1005	20621	0.27%	0.075%

195	13.878	13.855	13.927	VV	1458	41707	0.55%	0.151%
196	13.946	13.927	13.975	VV	691	17495	0.23%	0.063%
197	13.998	13.975	14.017	VV	719	16109	0.21%	0.058%
198	14.050	14.017	14.097	VV	833	32130	0.42%	0.116%
199	14.104	14.097	14.141	VV	738	17020	0.22%	0.062%
200	14.158	14.141	14.170	VV	869	12249	0.16%	0.044%
201	14.193	14.170	14.218	VV	928	22630	0.30%	0.082%
202	14.242	14.218	14.352	VV	1289	73084	0.96%	0.264%
203	14.373	14.352	14.442	VV	1453	41362	0.54%	0.150%
204	14.489	14.442	14.517	VV	2019	55921	0.73%	0.202%
205	14.527	14.517	14.549	VV	1630	23380	0.31%	0.085%
206	14.582	14.549	14.671	VV	5547	168474	2.21%	0.610%
207	14.692	14.671	14.735	VV	1536	43099	0.56%	0.156%
208	14.752	14.735	14.774	VV	824	17004	0.22%	0.062%
209	14.782	14.774	14.824	VV	673	15125	0.20%	0.055%
210	14.833	14.824	14.853	VV	493	7860	0.10%	0.028%
211	14.860	14.853	14.871	VV	451	4515	0.06%	0.016%
212	14.904	14.871	14.980	VV	19220	366877	4.81%	1.328%
213	14.986	14.980	15.047	VV	1562	50737	0.67%	0.184%
214	15.067	15.047	15.159	VV	1804	59826	0.78%	0.216%
215	15.165	15.159	15.178	VV	635	6550	0.09%	0.024%
216	15.187	15.178	15.222	VV	664	12802	0.17%	0.046%
217	15.247	15.222	15.295	VV	878	27355	0.36%	0.099%
218	15.388	15.295	15.413	VV	886	47586	0.62%	0.172%
219	15.432	15.413	15.482	VV	1099	31225	0.41%	0.113%
220	15.506	15.482	15.522	VV	1067	18938	0.25%	0.069%
221	15.543	15.522	15.601	VV	1596	35984	0.47%	0.130%
222	15.615	15.601	15.660	VV	714	13479	0.18%	0.049%
223	15.704	15.660	15.720	VV	337	7279	0.10%	0.026%
224	15.740	15.720	15.787	VV	255	5908	0.08%	0.021%
225	15.795	15.787	15.814	VV	310	2415	0.03%	0.009%
226	15.853	15.814	15.895	PV	260	8344	0.11%	0.030%
227	15.923	15.895	15.967	VV	1812	42621	0.56%	0.154%
228	15.984	15.967	16.005	VV	919	17191	0.23%	0.062%
229	16.019	16.005	16.054	VV	1069	21826	0.29%	0.079%
230	16.059	16.054	16.070	VV	464	3941	0.05%	0.014%
231	16.112	16.070	16.132	VV	1575	30868	0.40%	0.112%
232	16.171	16.132	16.199	VV	1431	46558	0.61%	0.168%
233	16.226	16.199	16.262	VV	1317	38874	0.51%	0.141%
234	16.295	16.262	16.352	VV	1317	47387	0.62%	0.171%
235	16.372	16.352	16.385	VV	750	12169	0.16%	0.044%
236	16.394	16.385	16.431	VV	846	18096	0.24%	0.065%
237	16.454	16.431	16.472	VV	1943	32716	0.43%	0.118%
238	16.488	16.472	16.504	VV	2226	34095	0.45%	0.123%
239	16.529	16.504	16.559	VV	10874	155336	2.04%	0.562%
240	16.577	16.559	16.604	VV	1313	26462	0.35%	0.096%
241	16.613	16.604	16.624	VV	833	8517	0.11%	0.031%
242	16.650	16.624	16.695	VV	924	30178	0.40%	0.109%
243	16.708	16.695	16.729	VV	568	9795	0.13%	0.035%
244	16.732	16.729	16.750	VV	547	4966	0.07%	0.018%
245	16.800	16.750	16.829	VV	1339	29310	0.38%	0.106%
246	16.861	16.829	16.900	VV	1184	32760	0.43%	0.119%

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247	16.935	16.900	16.965	VV	2249	43729	0.57%	0.158%
248	16.973	16.965	16.987	VV	544	5915	0.08%	0.021%
249	16.994	16.987	17.006	VV	567	5223	0.07%	0.019%
250	17.033	17.006	17.050	VV	595	13001	0.17%	0.047%
251	17.068	17.050	17.157	VV	662	21877	0.29%	0.079%
252	17.170	17.157	17.200	VV	426	7059	0.09%	0.026%
253	17.215	17.200	17.224	VV	256	3513	0.05%	0.013%
254	17.242	17.224	17.275	VV	458	11249	0.15%	0.041%
255	17.342	17.275	17.354	VV	1409	33970	0.45%	0.123%
256	17.369	17.354	17.402	VV	2632	39224	0.51%	0.142%
257	17.418	17.402	17.437	VV	334	6300	0.08%	0.023%
258	17.462	17.437	17.507	VV	4044	66692	0.87%	0.241%
259	17.520	17.507	17.557	VV	581	11534	0.15%	0.042%
260	17.574	17.557	17.620	VV	488	10016	0.13%	0.036%
261	17.664	17.620	17.685	PV	795	15290	0.20%	0.055%
262	17.727	17.685	17.772	VV	7499	163540	2.14%	0.592%
263	17.791	17.772	17.857	VV	3303	72176	0.95%	0.261%
264	17.891	17.857	17.932	VV	794	22131	0.29%	0.080%
265	17.937	17.932	17.959	VV	344	3367	0.04%	0.012%
266	17.993	17.959	18.017	VV	495	8697	0.11%	0.031%
267	18.028	18.017	18.035	VV	213	1345	0.02%	0.005%
268	18.079	18.035	18.090	VV	266	5570	0.07%	0.020%
269	18.097	18.090	18.109	VV	180	1520	0.02%	0.006%
270	18.197	18.109	18.222	PV	2313	53580	0.70%	0.194%
271	18.234	18.222	18.270	VV	751	9014	0.12%	0.033%

Sum of corrected areas: 27634860

Aromatic EPH 021125.M Sat Mar 01 03:58:39 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 14:40	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.66	J	1	0.42	1.11	mg/kg	FC068328.D
Aliphatic C12-C16	Aliphatic C12-C16	0.92		1	0.27	0.74	mg/kg	FC068328.D
Aliphatic C16-C21	Aliphatic C16-C21	0.33	U	1	0.33	1.11	mg/kg	FC068328.D
Aliphatic C21-C28	Aliphatic C21-C28	0.89	U	1	0.89	1.48	mg/kg	FC068328.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	2.00	2.22	mg/kg	FC068328.D
Aromatic C10-C12	Aromatic C10-C12	0.33	U	1	0.33	0.74	mg/kg	FD049136.D
Aromatic C12-C16	Aromatic C12-C16	0.46	J	1	0.38	1.11	mg/kg	FD049136.D
Aromatic C16-C21	Aromatic C16-C21	1.41	J	1	1.07	1.85	mg/kg	FD049136.D
Aromatic C21-C36	Aromatic C21-C36	2.26	J	1	2.22	2.96	mg/kg	FD049136.D
Total AliphaticEPH	Total AliphaticEPH	3.91	U		3.91	6.66	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.13	J		4.00	6.66	mg/kg	
Total EPH	Total EPH	7.92	U		7.92	13.3	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 14:40	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.66	J	1	0.42	1.11	mg/kg	FC068328.D
Aliphatic C12-C16	Aliphatic C12-C16	0.92		1	0.27	0.74	mg/kg	FC068328.D
Aliphatic C16-C21	Aliphatic C16-C21	0.33	U	1	0.33	1.11	mg/kg	FC068328.D
Aliphatic C21-C28	Aliphatic C21-C28	0.89	U	1	0.89	1.48	mg/kg	FC068328.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	2.00	2.22	mg/kg	FC068328.D
Aromatic C10-C12	Aromatic C10-C12	0.33	U	1	0.33	0.74	mg/kg	FD049136.D
Aromatic C12-C16	Aromatic C12-C16	0.46	J	1	0.38	1.11	mg/kg	FD049136.D
Aromatic C16-C21	Aromatic C16-C21	1.41	J	1	1.07	1.85	mg/kg	FD049136.D
Aromatic C21-C36	Aromatic C21-C36	2.26	J	1	2.22	2.96	mg/kg	FD049136.D
Total AliphaticEPH	Total AliphaticEPH	3.91	U		3.91	6.66	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.13	J		4.00	6.66	mg/kg	
Total EPH	Total EPH	7.92	U		7.92	13.3	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068328.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.66	J	0.42	1.11	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.92		0.27	0.74	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.33	U	0.33	1.11	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.89	U	0.89	1.48	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.00	U	2.00	2.22	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		34.9		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-04	Acq On:	28 Feb 2025 14:40
Client Sample ID:	B-172-SB02	Operator:	YP/AJ
Data file:	FC068328.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	1259624	8.931	300	ug/ml
Aliphatic C12-C16	6.370	9.754	1701567	12.452	200	ug/ml
Aliphatic C16-C21	9.755	13.107	496518	3.772	300	ug/ml
Aliphatic C21-C28	13.108	16.761	472897	3.854	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2667948	25.941	600	ug/ml
Aliphatic EPH	3.104	21.565	6598554	54.95		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	3923025	34.88		ug/ml
Aliphatic C9-C28	3.104	16.761	3930606	29.009	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068328.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1415-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-172-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.840	3923025	34.879 ug/ml
Spiked Amount 50.000		Recovery = 69.76%	
Target Compounds			

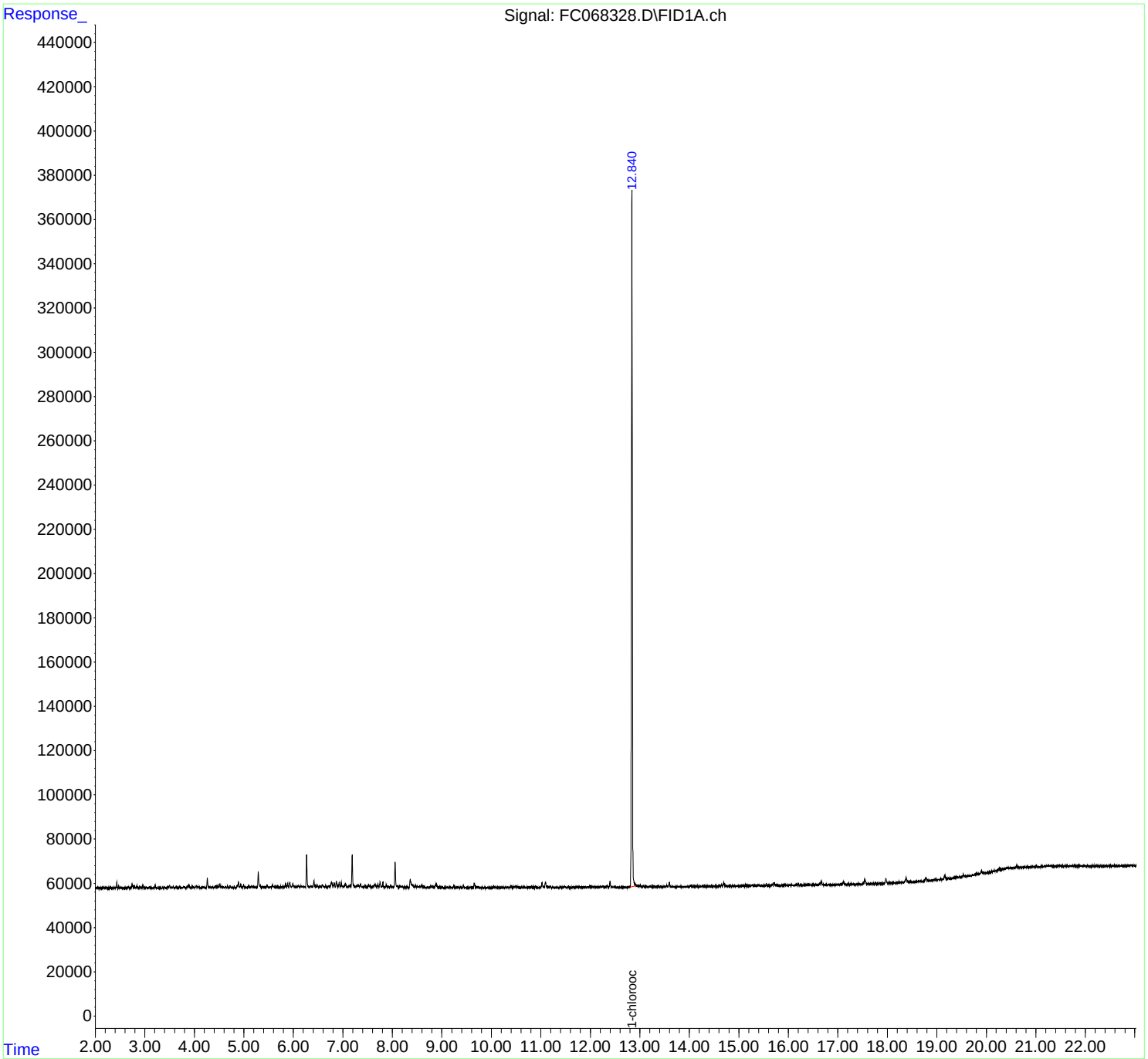
(f)=RT Delta > 1/2 Window (m)=manual int.

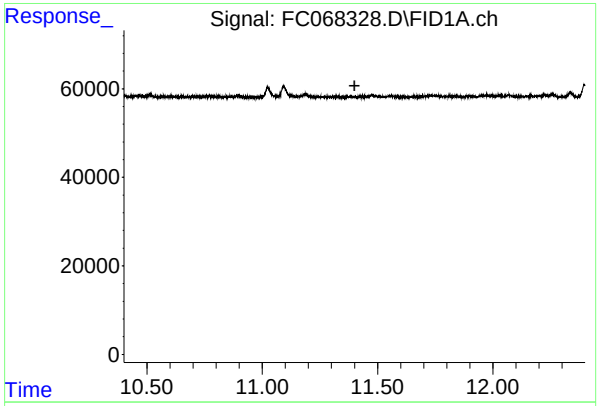
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068328.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1415-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-172-SB02

Integration File: autoint1.e
Quant Time: Mar 05 05:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

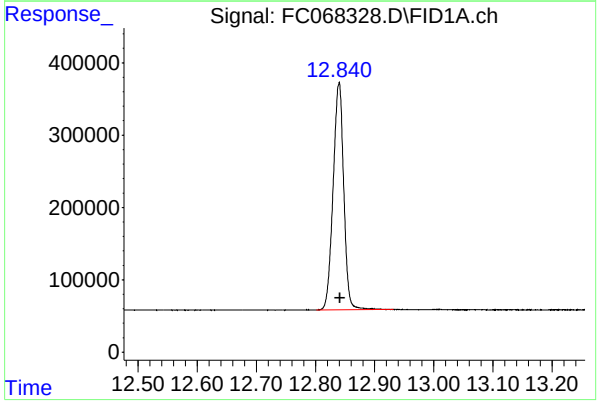




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
B-172-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 3923025
Conc: 34.88 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068328.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 14:40
Sample : Q1415-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.318	2.304	2.347	BV	84	1007	0.03%	0.009%
2	2.360	2.347	2.384	VV	271	2161	0.05%	0.020%
3	2.390	2.384	2.408	PV	72	640	0.02%	0.006%
4	2.432	2.408	2.451	VV	2653	21047	0.53%	0.192%
5	2.473	2.451	2.516	VV	997	10537	0.26%	0.096%
6	2.527	2.516	2.544	VV	111	1543	0.04%	0.014%
7	2.558	2.544	2.581	VV	192	2676	0.07%	0.024%
8	2.593	2.581	2.628	VV	190	2543	0.06%	0.023%
9	2.655	2.628	2.684	VV	675	8637	0.22%	0.079%
10	2.695	2.684	2.702	VV	181	1357	0.03%	0.012%
11	2.708	2.702	2.720	VV	186	1346	0.03%	0.012%
12	2.742	2.720	2.773	VV	1766	25096	0.63%	0.229%
13	2.788	2.773	2.820	VV	793	10037	0.25%	0.091%
14	2.839	2.820	2.885	VV	1008	14166	0.36%	0.129%
15	2.895	2.885	2.901	VV	218	1603	0.04%	0.015%
16	2.917	2.901	2.931	VV	417	5306	0.13%	0.048%
17	2.961	2.931	3.008	VV	1244	17577	0.44%	0.160%
18	3.029	3.008	3.094	VV	329	8339	0.21%	0.076%
19	3.104	3.094	3.121	VV	154	1646	0.04%	0.015%
20	3.123	3.121	3.132	VV	123	429	0.01%	0.004%
21	3.145	3.132	3.175	PV	151	2509	0.06%	0.023%
22	3.207	3.175	3.241	VV	1413	17826	0.45%	0.162%
23	3.248	3.241	3.268	VV	145	2048	0.05%	0.019%
24	3.278	3.268	3.291	VV	99	1041	0.03%	0.009%
25	3.323	3.291	3.361	VV	227	5288	0.13%	0.048%
26	3.405	3.361	3.432	VV	338	6989	0.18%	0.064%
27	3.465	3.432	3.488	VV	544	9890	0.25%	0.090%
28	3.499	3.488	3.550	VV	1345	17076	0.43%	0.156%
29	3.573	3.550	3.594	VV	772	9584	0.24%	0.087%
30	3.627	3.594	3.674	VV	273	8684	0.22%	0.079%
31	3.693	3.674	3.706	VV	406	4783	0.12%	0.044%
32	3.710	3.706	3.722	VV	287	2357	0.06%	0.021%
33	3.732	3.722	3.760	VV	300	3936	0.10%	0.036%
34	3.779	3.760	3.828	VV	495	12436	0.31%	0.113%
35	3.865	3.828	3.878	VV	1094	15139	0.38%	0.138%
36	3.893	3.878	3.911	VV	1469	16383	0.41%	0.149%

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37	3.924	3.911	3.939	VV	425	5901	0.15%	0.054%
38	3.959	3.939	3.999	VV	1200	16210	0.41%	0.148%
39	4.039	3.999	4.054	VV	971	17891	0.45%	0.163%
40	4.066	4.054	4.138	VV	574	15534	0.39%	0.142%
41	4.172	4.138	4.201	VV	396	9871	0.25%	0.090%
42	4.212	4.201	4.234	VV	441	5765	0.14%	0.053%
43	4.262	4.234	4.315	VV	4640	59446	1.49%	0.542%
44	4.328	4.315	4.348	VV	396	5947	0.15%	0.054%
45	4.364	4.348	4.393	VV	551	8497	0.21%	0.077%
46	4.427	4.393	4.444	VV	1010	17681	0.44%	0.161%
47	4.456	4.444	4.471	VV	709	9163	0.23%	0.083%
48	4.484	4.471	4.496	VV	814	9574	0.24%	0.087%
49	4.513	4.496	4.528	VV	2005	20567	0.52%	0.187%
50	4.538	4.528	4.553	VV	852	9318	0.23%	0.085%
51	4.567	4.553	4.581	VV	633	8310	0.21%	0.076%
52	4.586	4.581	4.602	VV	547	5263	0.13%	0.048%
53	4.630	4.602	4.648	VV	694	12468	0.31%	0.114%
54	4.668	4.648	4.688	VV	596	11486	0.29%	0.105%
55	4.724	4.688	4.763	VV	973	18915	0.48%	0.172%
56	4.779	4.763	4.798	VV	403	5878	0.15%	0.054%
57	4.812	4.798	4.834	VV	590	8279	0.21%	0.075%
58	4.891	4.834	4.918	VV	2728	52711	1.33%	0.480%
59	4.936	4.918	4.978	VV	1749	29690	0.75%	0.271%
60	4.997	4.978	5.032	VV	1555	21824	0.55%	0.199%
61	5.053	5.032	5.071	VV	371	6291	0.16%	0.057%
62	5.089	5.071	5.122	VV	773	16695	0.42%	0.152%
63	5.148	5.122	5.164	VV	802	14090	0.35%	0.128%
64	5.178	5.164	5.193	VV	662	8732	0.22%	0.080%
65	5.204	5.193	5.225	VV	534	8189	0.21%	0.075%
66	5.235	5.225	5.253	VV	431	6101	0.15%	0.056%
67	5.291	5.253	5.322	VV	7313	93239	2.34%	0.850%
68	5.330	5.322	5.354	VV	1078	14453	0.36%	0.132%
69	5.408	5.354	5.424	VV	497	16534	0.42%	0.151%
70	5.468	5.424	5.513	VV	1370	33983	0.85%	0.310%
71	5.539	5.513	5.555	VV	609	11250	0.28%	0.103%
72	5.581	5.555	5.615	VV	1344	26551	0.67%	0.242%
73	5.636	5.615	5.660	VV	774	14059	0.35%	0.128%
74	5.674	5.660	5.713	VV	738	16166	0.41%	0.147%
75	5.743	5.713	5.764	VV	798	14388	0.36%	0.131%
76	5.793	5.764	5.810	VV	825	15111	0.38%	0.138%
77	5.845	5.810	5.867	VV	1651	34746	0.87%	0.317%
78	5.886	5.867	5.907	VV	1897	25490	0.64%	0.232%
79	5.929	5.907	5.963	VV	2553	38991	0.98%	0.355%
80	5.990	5.963	6.034	VV	2008	39581	0.99%	0.361%
81	6.067	6.034	6.084	VV	752	17749	0.45%	0.162%
82	6.100	6.084	6.128	VV	965	17408	0.44%	0.159%
83	6.149	6.128	6.174	VV	935	19087	0.48%	0.174%
84	6.194	6.174	6.224	VV	782	17702	0.44%	0.161%
85	6.235	6.224	6.248	VV	658	8333	0.21%	0.076%
86	6.269	6.248	6.337	VV	15051	184715	4.64%	1.683%
87	6.353	6.337	6.374	VV	933	15757	0.40%	0.144%
88	6.388	6.374	6.397	VV	912	9950	0.25%	0.091%
89	6.416	6.397	6.441	VV	3389	46302	1.16%	0.422%

90	6.451	6.441	6.470	VV	1066	14348	0.36%	0.131%
91	6.487	6.470	6.518	VV	1222	20997	0.53%	0.191%
92	6.544	6.518	6.563	VV	776	17742	0.45%	0.162%
93	6.586	6.563	6.611	VV	1550	28131	0.71%	0.256%
94	6.621	6.611	6.635	VV	755	9169	0.23%	0.084%
95	6.651	6.635	6.691	VV	837	19597	0.49%	0.179%
96	6.709	6.691	6.740	VV	972	21722	0.55%	0.198%
97	6.783	6.740	6.801	VV	2241	54712	1.38%	0.499%
98	6.824	6.801	6.848	VV	2395	37534	0.94%	0.342%
99	6.869	6.848	6.908	VV	3082	53210	1.34%	0.485%
100	6.926	6.908	6.945	VV	2472	30423	0.76%	0.277%
101	6.967	6.945	7.006	VV	2676	45152	1.14%	0.411%
102	7.049	7.006	7.081	VV	1821	48565	1.22%	0.442%
103	7.109	7.081	7.116	VV	879	16499	0.41%	0.150%
104	7.132	7.116	7.164	VV	1155	27015	0.68%	0.246%
105	7.189	7.164	7.264	VV	15056	196828	4.95%	1.793%
106	7.309	7.264	7.338	VV	1027	38905	0.98%	0.354%
107	7.359	7.338	7.384	VV	1691	30108	0.76%	0.274%
108	7.399	7.384	7.419	VV	702	11364	0.29%	0.104%
109	7.448	7.419	7.476	VV	1203	22765	0.57%	0.207%
110	7.521	7.476	7.538	VV	1235	27816	0.70%	0.253%
111	7.551	7.538	7.582	VV	894	16498	0.41%	0.150%
112	7.610	7.582	7.624	VV	976	16416	0.41%	0.150%
113	7.642	7.624	7.654	VV	1503	20430	0.51%	0.186%
114	7.666	7.654	7.687	VV	1454	19071	0.48%	0.174%
115	7.708	7.687	7.731	VV	1542	22878	0.58%	0.208%
116	7.753	7.731	7.784	VV	2665	38396	0.97%	0.350%
117	7.809	7.784	7.831	VV	2710	35584	0.89%	0.324%
118	7.842	7.831	7.857	VV	574	7273	0.18%	0.066%
119	7.877	7.857	7.898	VV	1785	23622	0.59%	0.215%
120	7.909	7.898	7.943	VV	573	11743	0.30%	0.107%
121	7.965	7.943	7.984	VV	1175	17076	0.43%	0.156%
122	8.008	7.984	8.028	VV	531	12007	0.30%	0.109%
123	8.057	8.028	8.095	VV	11821	146219	3.68%	1.332%
124	8.103	8.095	8.129	VV	815	11200	0.28%	0.102%
125	8.156	8.129	8.184	VV	765	19706	0.50%	0.180%
126	8.203	8.184	8.228	VV	647	11563	0.29%	0.105%
127	8.247	8.228	8.274	VV	482	8317	0.21%	0.076%
128	8.289	8.274	8.318	VV	458	6725	0.17%	0.061%
129	8.362	8.318	8.444	VV	3877	104325	2.62%	0.951%
130	8.470	8.444	8.490	VV	865	20287	0.51%	0.185%
131	8.508	8.490	8.528	VV	713	13802	0.35%	0.126%
132	8.546	8.528	8.571	VV	694	14288	0.36%	0.130%
133	8.592	8.571	8.634	VV	1360	27987	0.70%	0.255%
134	8.647	8.634	8.684	VV	545	9856	0.25%	0.090%
135	8.705	8.684	8.734	VV	312	6978	0.18%	0.064%
136	8.776	8.734	8.797	VV	1037	19194	0.48%	0.175%
137	8.812	8.797	8.831	VV	677	10566	0.27%	0.096%
138	8.838	8.831	8.861	VV	477	7894	0.20%	0.072%
139	8.884	8.861	8.941	VV	1819	41592	1.05%	0.379%
140	8.963	8.941	8.996	VV	564	9155	0.23%	0.083%
141	9.010	8.996	9.048	VV	393	6257	0.16%	0.057%

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142	9.059	9.048	9.086	VV	268	4932	0.12%	0.045%
143	9.115	9.086	9.151	VV	323	9399	0.24%	0.086%
144	9.176	9.151	9.217	VV	484	11164	0.28%	0.102%
145	9.242	9.217	9.281	VV	818	16173	0.41%	0.147%
146	9.294	9.281	9.356	VV	425	10372	0.26%	0.095%
147	9.384	9.356	9.411	VV	379	7965	0.20%	0.073%
148	9.434	9.411	9.478	VV	1119	15917	0.40%	0.145%
149	9.487	9.478	9.507	VV	104	1607	0.04%	0.015%
150	9.523	9.507	9.548	VV	160	2433	0.06%	0.022%
151	9.576	9.548	9.621	VV	427	10073	0.25%	0.092%
152	9.655	9.621	9.706	VV	2091	35567	0.89%	0.324%
153	9.725	9.706	9.787	VV	316	10206	0.26%	0.093%
154	9.798	9.787	9.808	VV	144	1420	0.04%	0.013%
155	9.828	9.808	9.846	VV	153	2514	0.06%	0.023%
156	9.861	9.846	9.880	VV	92	1103	0.03%	0.010%
157	9.935	9.880	9.944	PV	217	5098	0.13%	0.046%
158	9.969	9.944	10.008	VV	246	7603	0.19%	0.069%
159	10.038	10.008	10.064	VV	494	11080	0.28%	0.101%
160	10.077	10.064	10.102	VV	290	4901	0.12%	0.045%
161	10.130	10.102	10.148	VV	256	4870	0.12%	0.044%
162	10.162	10.148	10.177	VV	204	2615	0.07%	0.024%
163	10.188	10.177	10.198	VV	160	1752	0.04%	0.016%
164	10.250	10.198	10.261	VV	272	5790	0.15%	0.053%
165	10.275	10.261	10.301	VV	235	4009	0.10%	0.037%
166	10.330	10.301	10.354	VV	368	8826	0.22%	0.080%
167	10.392	10.354	10.428	VV	564	16592	0.42%	0.151%
168	10.467	10.428	10.491	VV	533	13943	0.35%	0.127%
169	10.513	10.491	10.545	VV	625	12955	0.33%	0.118%
170	10.571	10.545	10.588	VV	338	5648	0.14%	0.051%
171	10.605	10.588	10.627	VV	343	5257	0.13%	0.048%
172	10.647	10.627	10.668	VV	266	4605	0.12%	0.042%
173	10.720	10.668	10.734	VV	294	7760	0.20%	0.071%
174	10.768	10.734	10.801	VV	329	9414	0.24%	0.086%
175	10.812	10.801	10.829	VV	286	3861	0.10%	0.035%
176	10.845	10.829	10.854	VV	180	2394	0.06%	0.022%
177	10.864	10.854	10.874	VV	196	1979	0.05%	0.018%
178	10.894	10.874	10.940	VV	496	9196	0.23%	0.084%
179	10.951	10.940	10.980	VV	160	2650	0.07%	0.024%
180	10.991	10.980	10.997	VV	149	1318	0.03%	0.012%
181	11.024	10.997	11.067	VV	2208	37011	0.93%	0.337%
182	11.093	11.067	11.163	VV	2531	47103	1.18%	0.429%
183	11.188	11.163	11.218	VV	726	12919	0.32%	0.118%
184	11.237	11.218	11.284	VV	143	4304	0.11%	0.039%
185	11.299	11.284	11.321	VV	146	2282	0.06%	0.021%
186	11.332	11.321	11.358	VV	197	1863	0.05%	0.017%
187	11.391	11.358	11.415	PV	160	4147	0.10%	0.038%
188	11.477	11.415	11.534	VV	479	14690	0.37%	0.134%
189	11.555	11.534	11.601	VV	307	6638	0.17%	0.060%
190	11.615	11.601	11.638	VV	123	1452	0.04%	0.013%
191	11.669	11.638	11.675	VV	146	2513	0.06%	0.023%
192	11.730	11.675	11.782	VV	424	17708	0.45%	0.161%
193	11.810	11.782	11.820	VV	285	4377	0.11%	0.040%
194	11.846	11.820	11.872	VV	291	5261	0.13%	0.048%

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195	11.892	11.872	11.902	VV	270	3684	0.09%	0.034%
196	11.906	11.902	11.932	VV	277	3228	0.08%	0.029%
197	11.972	11.932	12.014	VV	425	14475	0.36%	0.132%
198	12.029	12.014	12.047	VV	415	5971	0.15%	0.054%
199	12.069	12.047	12.114	VV	468	9886	0.25%	0.090%
200	12.166	12.114	12.181	VV	282	7268	0.18%	0.066%
201	12.222	12.181	12.241	VV	444	10716	0.27%	0.098%
202	12.259	12.241	12.288	VV	673	10191	0.26%	0.093%
203	12.336	12.288	12.365	VV	1071	16438	0.41%	0.150%
204	12.396	12.365	12.424	VV	2814	35457	0.89%	0.323%
205	12.444	12.424	12.494	VV	264	6325	0.16%	0.058%
206	12.518	12.494	12.598	VV	231	5614	0.14%	0.051%
207	12.611	12.598	12.624	VV	72	583	0.01%	0.005%
208	12.647	12.624	12.664	PV	122	1808	0.05%	0.016%
209	12.679	12.664	12.738	VV	141	4710	0.12%	0.043%
210	12.786	12.738	12.800	VV	252	5997	0.15%	0.055%
211	12.840	12.800	12.977	VV	317310	3978048	100.00%	36.246%
212	13.007	12.977	13.048	VV	744	22430	0.56%	0.204%
213	13.064	13.048	13.098	VV	422	10316	0.26%	0.094%
214	13.127	13.098	13.188	VV	340	14833	0.37%	0.135%
215	13.220	13.188	13.244	VV	339	8783	0.22%	0.080%
216	13.294	13.244	13.341	VV	360	13620	0.34%	0.124%
217	13.349	13.341	13.374	VV	231	3767	0.09%	0.034%
218	13.398	13.374	13.436	VV	291	7339	0.18%	0.067%
219	13.458	13.436	13.484	VV	313	5493	0.14%	0.050%
220	13.542	13.484	13.566	VV	848	16681	0.42%	0.152%
221	13.594	13.566	13.648	VV	2083	34625	0.87%	0.315%
222	13.653	13.648	13.760	VV	177	5225	0.13%	0.048%
223	13.773	13.760	13.784	PV	86	715	0.02%	0.007%
224	13.825	13.784	13.882	VV	130	4988	0.13%	0.045%
225	13.894	13.882	13.929	VV	140	2463	0.06%	0.022%
226	13.938	13.929	13.951	VV	123	1168	0.03%	0.011%
227	14.030	13.951	14.081	VV	713	18243	0.46%	0.166%
228	14.084	14.081	14.131	VV	215	3707	0.09%	0.034%
229	14.152	14.131	14.234	VV	283	8901	0.22%	0.081%
230	14.279	14.234	14.299	VV	200	4966	0.12%	0.045%
231	14.360	14.299	14.387	VV	222	6366	0.16%	0.058%
232	14.453	14.387	14.491	VV	249	8418	0.21%	0.077%
233	14.544	14.491	14.597	VV	238	8889	0.22%	0.081%
234	14.608	14.597	14.627	VV	167	2266	0.06%	0.021%
235	14.652	14.627	14.671	VV	710	12215	0.31%	0.111%
236	14.694	14.671	14.729	VV	1680	28982	0.73%	0.264%
237	14.737	14.729	14.830	VV	238	8208	0.21%	0.075%
238	14.864	14.830	14.881	VV	203	3525	0.09%	0.032%
239	14.954	14.881	14.968	VV	165	6490	0.16%	0.059%
240	14.977	14.968	14.987	VV	140	1097	0.03%	0.010%
241	15.003	14.987	15.041	VV	138	3210	0.08%	0.029%
242	15.147	15.041	15.170	VV	240	13153	0.33%	0.120%
243	15.215	15.170	15.248	VV	326	10370	0.26%	0.094%
244	15.261	15.248	15.309	VV	273	6548	0.16%	0.060%
245	15.409	15.309	15.484	VV	250	16392	0.41%	0.149%
246	15.528	15.484	15.644	VV	305	17363	0.44%	0.158%

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247	15.713	15.644	15.838	VV	1362	43577	1.10%	0.397%
248	15.899	15.838	15.975	VV	211	11691	0.29%	0.107%
249	16.025	15.975	16.138	VV	244	14640	0.37%	0.133%
250	16.196	16.138	16.311	VV	630	23070	0.58%	0.210%
251	16.364	16.311	16.404	VV	216	9808	0.25%	0.089%
252	16.431	16.404	16.458	VV	173	5333	0.13%	0.049%
253	16.554	16.458	16.598	VV	322	15241	0.38%	0.139%
254	16.661	16.598	16.758	VV	1676	40528	1.02%	0.369%
255	16.811	16.758	16.864	PV	197	6937	0.17%	0.063%
256	16.887	16.864	16.925	VV	149	3111	0.08%	0.028%
257	16.989	16.925	17.008	PV	145	4900	0.12%	0.045%
258	17.112	17.008	17.194	PV	1331	29232	0.73%	0.266%
259	17.226	17.194	17.261	VV	190	4247	0.11%	0.039%
260	17.547	17.261	17.623	VV	2042	56398	1.42%	0.514%
261	17.674	17.623	17.788	VV	219	10629	0.27%	0.097%
262	17.838	17.788	17.864	PV	198	5054	0.13%	0.046%
263	17.970	17.864	18.051	VV	2187	43051	1.08%	0.392%
264	18.113	18.051	18.128	VV	119	3672	0.09%	0.033%
265	18.147	18.128	18.168	VV	107	1161	0.03%	0.011%
266	18.255	18.168	18.318	PV	198	8695	0.22%	0.079%
267	18.380	18.318	18.441	VV	2200	43813	1.10%	0.399%
268	18.778	18.441	18.828	PV	1462	34585	0.87%	0.315%
269	18.967	18.828	18.984	PV	205	7284	0.18%	0.066%
270	19.022	18.984	19.041	PV	211	5269	0.13%	0.048%
271	19.162	19.041	19.223	VV	1828	47317	1.19%	0.431%
272	19.474	19.223	19.501	VV	495	55306	1.39%	0.504%
273	19.537	19.501	19.604	VV	1298	44141	1.11%	0.402%
274	19.798	19.604	19.841	VV	1400	122753	3.09%	1.118%
275	19.902	19.841	19.938	VV	2356	86323	2.17%	0.787%
276	19.973	19.938	19.990	VV	1413	42495	1.07%	0.387%
277	20.258	19.990	20.294	VV	2624	324664	8.16%	2.958%
278	20.433	20.294	20.471	VV	2763	266875	6.71%	2.432%
279	20.614	20.471	20.658	VV	3222	299357	7.53%	2.728%
280	20.758	20.658	20.778	VV	2420	171778	4.32%	1.565%
281	20.857	20.778	20.874	VV	2288	132112	3.32%	1.204%
282	20.944	20.874	20.974	VV	2249	131187	3.30%	1.195%
283	21.017	20.974	21.073	VV	2252	126594	3.18%	1.153%
284	21.284	21.073	21.384	VV	2116	365551	9.19%	3.331%
285	21.466	21.384	21.521	VV	1840	132666	3.33%	1.209%
286	21.533	21.521	21.583	VV	1481	50791	1.28%	0.463%
287	21.717	21.583	21.758	VV	1178	122946	3.09%	1.120%
288	21.774	21.758	21.944	VV	1063	88784	2.23%	0.809%
289	21.987	21.944	22.068	VV	580	34626	0.87%	0.315%
290	22.174	22.068	22.191	VV	330	16571	0.42%	0.151%

Sum of corrected areas: 10975145

Aliphatic EPH 021125.M Sat Mar 01 01:27:25 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049136.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.33	U	0.33	0.74	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.46	J	0.38	1.11	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.41	J	1.07	1.85	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.26	J	2.22	2.96	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.8		40 - 140	114%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.0		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.4		40 - 140	83%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-04	Acq On:	28 Feb 2025 14:40
Client Sample ID:	B-172-SB02	Operator:	YP/AJ
Data file:	FD049136.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	589679	3.708	200	ug/ml
Aromatic C12-C16	5.795	8.396	989941	6.151	300	ug/ml
Aromatic C16-C21	8.397	12.661	2907735	18.96	500	ug/ml
Aromatic C21-C36	12.662	18.073	4359852	30.464	800	ug/ml
Aromatic EPH	4.076	18.073	8847207	59.284		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	6703578	41.44		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	8127994	56.8		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	5189155	59.03		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049136.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1415-04
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-172-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.351	8127994	56.796 ug/ml
Spiked Amount 50.000		Recovery = 113.59%	
6) S 2-Flurobiphenyl (SURR)	8.202	5189155	59.027 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 118.05%	
11) S ortho-Terphenyl (SURR)	11.235	6703578	41.438 ug/ml
Spiked Amount 50.000		Recovery = 82.88%	
Target Compounds			

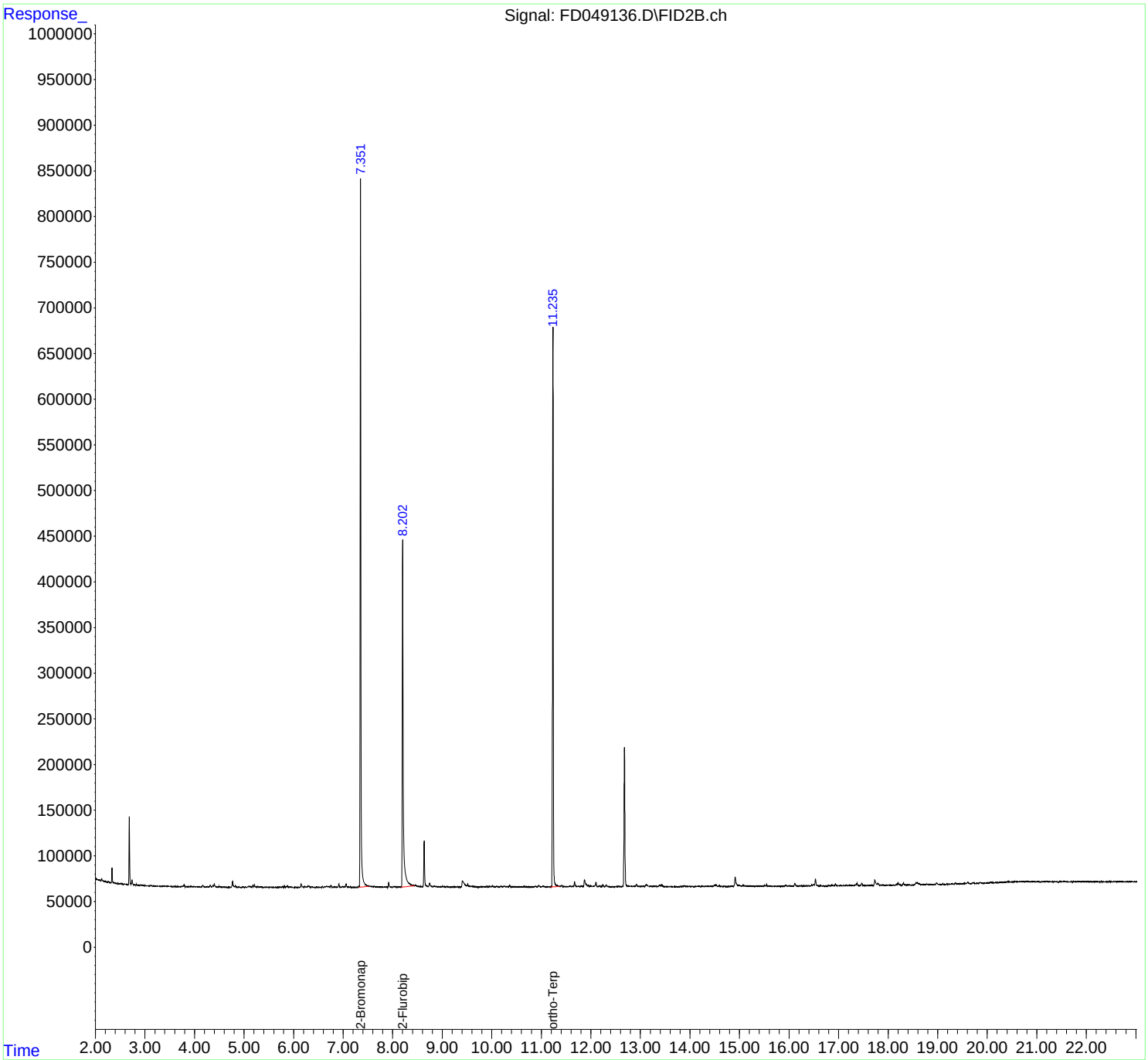
(f)=RT Delta > 1/2 Window (m)=manual int.

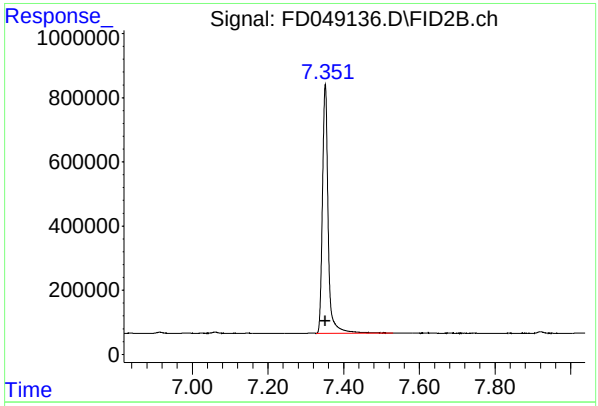
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049136.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1415-04
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-172-SB02

Integration File: autoint1.e
Quant Time: Mar 01 02:19:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

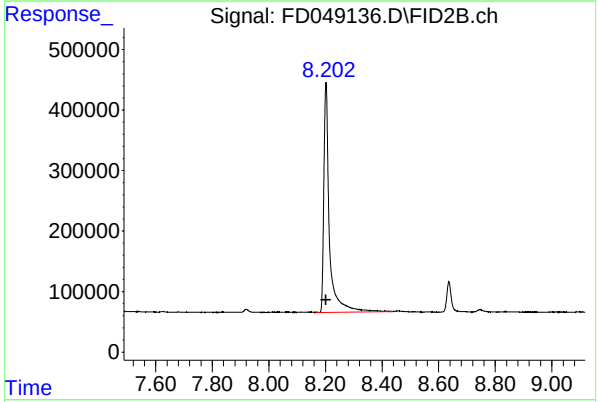




#4 2-Bromonaphthalene (SURR)

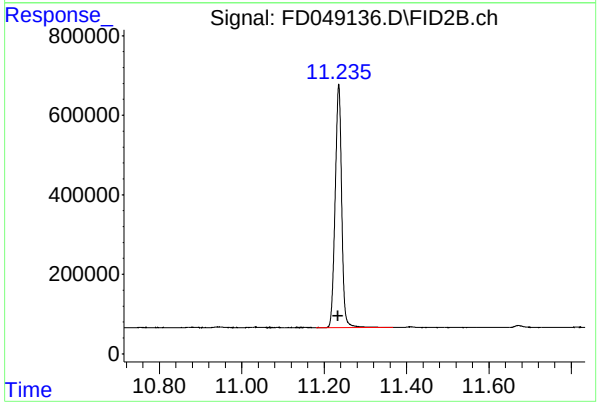
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 8127994
Conc: 56.80 ug/ml

Instrument :
FID_D
ClientSampleId :
B-172-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 5189155
Conc: 59.03 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 6703578
Conc: 41.44 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049136.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 14:40
Sample : Q1415-04
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.089	4.052	4.117	BV	244	2795	0.03%	0.010%
2	4.163	4.138	4.207	PV	1842	29627	0.36%	0.102%
3	4.218	4.207	4.229	VV	184	2076	0.03%	0.007%
4	4.261	4.229	4.299	VV	584	13753	0.17%	0.047%
5	4.316	4.299	4.347	VV	2476	31627	0.39%	0.109%
6	4.371	4.347	4.384	VV	2209	25487	0.31%	0.087%
7	4.400	4.384	4.450	VV	3820	55354	0.68%	0.190%
8	4.455	4.450	4.459	VV	434	1895	0.02%	0.007%
9	4.462	4.459	4.475	VV	417	3274	0.04%	0.011%
10	4.487	4.475	4.491	VV	540	4267	0.05%	0.015%
11	4.502	4.491	4.506	VV	880	5153	0.06%	0.018%
12	4.512	4.506	4.542	VV	754	9852	0.12%	0.034%
13	4.549	4.542	4.558	VV	368	2571	0.03%	0.009%
14	4.564	4.558	4.571	VV	243	1476	0.02%	0.005%
15	4.582	4.571	4.592	VV	370	3389	0.04%	0.012%
16	4.601	4.592	4.637	VV	516	6617	0.08%	0.023%
17	4.691	4.654	4.702	PV	678	7078	0.09%	0.024%
18	4.706	4.702	4.717	VV	423	2752	0.03%	0.009%
19	4.728	4.717	4.734	VV	331	2712	0.03%	0.009%
20	4.768	4.734	4.811	VV	6711	101323	1.24%	0.348%
21	4.827	4.811	4.875	VV	1731	24463	0.30%	0.084%
22	4.889	4.875	4.894	VV	391	3001	0.04%	0.010%
23	4.900	4.894	4.916	VV	379	2994	0.04%	0.010%
24	4.939	4.916	4.951	PV	299	3756	0.05%	0.013%
25	4.969	4.951	5.020	VV	477	12264	0.15%	0.042%
26	5.037	5.029	5.048	VV	324	2724	0.03%	0.009%
27	5.090	5.048	5.111	VV	1072	26621	0.32%	0.091%
28	5.117	5.111	5.134	VV	987	11739	0.14%	0.040%
29	5.145	5.134	5.160	VV	861	10184	0.12%	0.035%
30	5.179	5.160	5.200	VV	2598	35091	0.43%	0.120%
31	5.212	5.200	5.255	VV	2596	36609	0.45%	0.126%
32	5.270	5.255	5.300	VV	934	15116	0.18%	0.052%
33	5.304	5.300	5.307	VV	341	1321	0.02%	0.005%
34	5.336	5.307	5.346	VV	720	11769	0.14%	0.040%
35	5.359	5.346	5.380	VV	635	9207	0.11%	0.032%
36	5.384	5.380	5.392	VV	350	1545	0.02%	0.005%

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37	5.404	5.392	5.409	VV	315	2240	0.03%	0.008%
38	5.417	5.409	5.422	VV	373	2442	0.03%	0.008%
39	5.430	5.422	5.442	VV	506	2729	0.03%	0.009%
40	5.462	5.442	5.496	VV	708	9547	0.12%	0.033%
41	5.501	5.496	5.514	VV	280	2239	0.03%	0.008%
42	5.520	5.514	5.529	VV	432	2558	0.03%	0.009%
43	5.533	5.529	5.538	VV	363	1534	0.02%	0.005%
44	5.546	5.538	5.589	VV	362	7308	0.09%	0.025%
45	5.604	5.589	5.612	VV	270	2701	0.03%	0.009%
46	5.620	5.612	5.625	VV	377	2482	0.03%	0.009%
47	5.629	5.625	5.668	VV	336	4850	0.06%	0.017%
48	5.694	5.668	5.702	VV	319	4259	0.05%	0.015%
49	5.705	5.702	5.713	VV	327	1465	0.02%	0.005%
50	5.737	5.713	5.758	VV	580	10430	0.13%	0.036%
51	5.781	5.758	5.797	VV	756	11413	0.14%	0.039%
52	5.814	5.797	5.851	VV	1345	22758	0.28%	0.078%
53	5.871	5.851	5.909	VV	1800	30365	0.37%	0.104%
54	5.937	5.909	5.989	VV	746	18370	0.22%	0.063%
55	6.027	6.001	6.048	PV	466	5630	0.07%	0.019%
56	6.056	6.048	6.100	VV	247	5926	0.07%	0.020%
57	6.109	6.100	6.114	VV	308	2120	0.03%	0.007%
58	6.119	6.114	6.125	VV	248	1611	0.02%	0.006%
59	6.153	6.125	6.202	VV	4058	65840	0.80%	0.226%
60	6.221	6.202	6.249	VV	1397	20118	0.25%	0.069%
61	6.266	6.249	6.276	VV	840	10054	0.12%	0.035%
62	6.293	6.276	6.348	VV	2133	40129	0.49%	0.138%
63	6.367	6.348	6.394	VV	1086	15777	0.19%	0.054%
64	6.407	6.394	6.426	VV	561	6305	0.08%	0.022%
65	6.431	6.426	6.437	VV	276	1717	0.02%	0.006%
66	6.463	6.437	6.495	VV	394	9855	0.12%	0.034%
67	6.506	6.495	6.512	VV	347	2643	0.03%	0.009%
68	6.519	6.512	6.527	VV	310	2254	0.03%	0.008%
69	6.530	6.527	6.542	VV	275	1930	0.02%	0.007%
70	6.552	6.542	6.559	VV	307	2177	0.03%	0.007%
71	6.579	6.559	6.608	VV	1161	14836	0.18%	0.051%
72	6.647	6.608	6.657	VV	1187	22900	0.28%	0.079%
73	6.680	6.657	6.692	VV	1243	23640	0.29%	0.081%
74	6.706	6.692	6.728	VV	1147	17436	0.21%	0.060%
75	6.755	6.728	6.791	VV	2300	38437	0.47%	0.132%
76	6.807	6.791	6.819	VV	583	7848	0.10%	0.027%
77	6.837	6.819	6.850	VV	961	12312	0.15%	0.042%
78	6.857	6.850	6.877	VV	575	6833	0.08%	0.023%
79	6.882	6.877	6.887	VV	328	1524	0.02%	0.005%
80	6.914	6.887	6.952	VV	4064	50210	0.61%	0.172%
81	6.979	6.952	7.010	VV	990	21047	0.26%	0.072%
82	7.026	7.010	7.034	VV	991	10285	0.13%	0.035%
83	7.060	7.034	7.103	VV	4046	57587	0.70%	0.198%
84	7.110	7.103	7.133	VV	710	8908	0.11%	0.031%
85	7.146	7.133	7.167	VV	935	10777	0.13%	0.037%
86	7.176	7.167	7.196	VV	342	4544	0.06%	0.016%
87	7.202	7.196	7.211	VV	353	2171	0.03%	0.007%
88	7.225	7.211	7.242	VV	325	3630	0.04%	0.012%
89	7.260	7.242	7.265	PV	253	2068	0.03%	0.007%

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90	7.271	7.265	7.278	VV	294	1206	0.01%	0.004%
91	7.315	7.289	7.329	VV	1541	19027	0.23%	0.065%
92	7.351	7.329	7.499	VV	776195	8199017	100.00%	28.134%
93	7.509	7.499	7.535	VV	1605	33388	0.41%	0.115%
94	7.543	7.535	7.568	VV	1470	24134	0.29%	0.083%
95	7.582	7.568	7.609	VV	1255	23096	0.28%	0.079%
96	7.624	7.609	7.660	VV	1673	29585	0.36%	0.102%
97	7.682	7.660	7.697	VV	1006	14785	0.18%	0.051%
98	7.719	7.697	7.736	VV	706	14815	0.18%	0.051%
99	7.744	7.736	7.761	VV	763	8650	0.11%	0.030%
100	7.788	7.761	7.815	VV	576	12195	0.15%	0.042%
101	7.836	7.815	7.859	VV	811	13630	0.17%	0.047%
102	7.870	7.859	7.881	VV	590	6925	0.08%	0.024%
103	7.889	7.881	7.900	VV	687	6375	0.08%	0.022%
104	7.920	7.900	7.957	VV	5342	68453	0.83%	0.235%
105	7.963	7.957	7.993	VV	612	6529	0.08%	0.022%
106	8.015	7.993	8.053	VV	919	22170	0.27%	0.076%
107	8.068	8.053	8.089	VV	827	12330	0.15%	0.042%
108	8.114	8.089	8.133	VV	840	12630	0.15%	0.043%
109	8.143	8.133	8.177	VV	765	12400	0.15%	0.043%
110	8.202	8.177	8.366	VV	380652	5242460	63.94%	17.989%
111	8.374	8.366	8.407	VV	3204	65046	0.79%	0.223%
112	8.411	8.407	8.439	VV	2245	40500	0.49%	0.139%
113	8.455	8.439	8.498	VV	2555	66365	0.81%	0.228%
114	8.511	8.498	8.544	VV	1403	28827	0.35%	0.099%
115	8.568	8.544	8.596	VV	1097	25808	0.31%	0.089%
116	8.601	8.596	8.606	VV	854	4444	0.05%	0.015%
117	8.636	8.606	8.719	VV	51032	604781	7.38%	2.075%
118	8.746	8.719	8.784	VV	4560	89529	1.09%	0.307%
119	8.789	8.784	8.807	VV	955	12153	0.15%	0.042%
120	8.830	8.807	8.854	VV	1205	29027	0.35%	0.100%
121	8.868	8.854	8.910	VV	1142	27875	0.34%	0.096%
122	8.912	8.910	8.916	VV	776	2277	0.03%	0.008%
123	8.929	8.916	8.982	VV	876	25252	0.31%	0.087%
124	8.998	8.982	9.006	VV	805	8902	0.11%	0.031%
125	9.014	9.006	9.031	VV	1040	11515	0.14%	0.040%
126	9.037	9.031	9.041	VV	818	4063	0.05%	0.014%
127	9.044	9.041	9.065	VV	795	8386	0.10%	0.029%
128	9.098	9.065	9.130	VV	1214	27205	0.33%	0.093%
129	9.141	9.130	9.156	VV	483	5697	0.07%	0.020%
130	9.159	9.156	9.164	VV	394	1649	0.02%	0.006%
131	9.166	9.164	9.173	VV	469	2131	0.03%	0.007%
132	9.183	9.173	9.195	VV	540	6001	0.07%	0.021%
133	9.205	9.195	9.223	VV	508	5596	0.07%	0.019%
134	9.242	9.223	9.270	VV	778	13668	0.17%	0.047%
135	9.275	9.270	9.282	VV	321	2040	0.02%	0.007%
136	9.297	9.282	9.324	VV	697	11875	0.14%	0.041%
137	9.337	9.324	9.355	VV	552	6348	0.08%	0.022%
138	9.409	9.355	9.495	VV	7211	248966	3.04%	0.854%
139	9.516	9.495	9.569	VV	3141	76263	0.93%	0.262%
140	9.585	9.569	9.594	VV	1138	15970	0.19%	0.055%
141	9.600	9.594	9.640	VV	1087	24744	0.30%	0.085%

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142	9.644	9.640	9.649	VV	705	3557	0.04%	0.012%
143	9.652	9.649	9.656	VV	734	2843	0.03%	0.010%
144	9.658	9.656	9.670	VV	723	4925	0.06%	0.017%
145	9.682	9.670	9.717	VV	666	13580	0.17%	0.047%
146	9.735	9.717	9.745	VV	460	6009	0.07%	0.021%
147	9.752	9.745	9.757	VV	589	3243	0.04%	0.011%
148	9.761	9.757	9.767	VV	609	3226	0.04%	0.011%
149	9.783	9.767	9.805	VV	729	13253	0.16%	0.045%
150	9.818	9.805	9.844	VV	901	15109	0.18%	0.052%
151	9.892	9.844	9.919	VV	872	26190	0.32%	0.090%
152	9.942	9.919	9.956	VV	738	14389	0.18%	0.049%
153	9.962	9.956	9.984	VV	718	10077	0.12%	0.035%
154	10.012	9.984	10.032	VV	1823	29089	0.35%	0.100%
155	10.041	10.032	10.049	VV	451	3803	0.05%	0.013%
156	10.058	10.049	10.065	VV	461	3316	0.04%	0.011%
157	10.072	10.065	10.076	VV	496	2571	0.03%	0.009%
158	10.108	10.076	10.121	VV	1012	18620	0.23%	0.064%
159	10.127	10.121	10.157	VV	779	9850	0.12%	0.034%
160	10.182	10.157	10.214	VV	1265	24229	0.30%	0.083%
161	10.221	10.214	10.231	VV	741	6049	0.07%	0.021%
162	10.256	10.231	10.277	VV	1228	23027	0.28%	0.079%
163	10.292	10.277	10.305	VV	842	11018	0.13%	0.038%
164	10.326	10.305	10.337	VV	802	12052	0.15%	0.041%
165	10.362	10.337	10.392	VV	1873	33545	0.41%	0.115%
166	10.408	10.392	10.427	VV	558	9309	0.11%	0.032%
167	10.430	10.427	10.433	VV	547	1893	0.02%	0.006%
168	10.443	10.433	10.478	VV	762	14171	0.17%	0.049%
169	10.493	10.478	10.497	VV	522	4799	0.06%	0.016%
170	10.500	10.497	10.514	VV	486	4304	0.05%	0.015%
171	10.528	10.514	10.534	VV	561	5298	0.06%	0.018%
172	10.538	10.534	10.558	VV	525	5937	0.07%	0.020%
173	10.576	10.558	10.594	VV	520	8907	0.11%	0.031%
174	10.598	10.594	10.603	VV	502	2355	0.03%	0.008%
175	10.609	10.603	10.617	VV	514	3217	0.04%	0.011%
176	10.629	10.617	10.647	VV	716	10239	0.12%	0.035%
177	10.657	10.647	10.680	VV	1103	12910	0.16%	0.044%
178	10.697	10.680	10.709	VV	651	7385	0.09%	0.025%
179	10.711	10.709	10.735	VV	457	4801	0.06%	0.016%
180	10.755	10.735	10.780	VV	769	11315	0.14%	0.039%
181	10.792	10.780	10.805	VV	522	5781	0.07%	0.020%
182	10.811	10.805	10.840	VV	454	6464	0.08%	0.022%
183	10.845	10.840	10.850	VV	380	1955	0.02%	0.007%
184	10.880	10.850	10.906	VV	1318	23774	0.29%	0.082%
185	10.911	10.906	10.920	VV	530	3387	0.04%	0.012%
186	10.945	10.920	10.992	VV	2146	41566	0.51%	0.143%
187	10.997	10.992	11.003	VV	447	2531	0.03%	0.009%
188	11.012	11.003	11.016	VV	545	3578	0.04%	0.012%
189	11.032	11.016	11.080	VV	1499	29186	0.36%	0.100%
190	11.086	11.080	11.107	VV	739	6704	0.08%	0.023%
191	11.113	11.107	11.117	VV	462	1997	0.02%	0.007%
192	11.154	11.117	11.182	VV	687	16662	0.20%	0.057%
193	11.185	11.182	11.195	VV	436	2605	0.03%	0.009%
194	11.235	11.195	11.318	VV	612330	6728772	82.07%	23.089%

195	11.324	11.318	11.338	VV	1824	17563	0.21%	0.060%
196	11.345	11.338	11.370	VV	1180	18953	0.23%	0.065%
197	11.377	11.370	11.385	VV	981	7912	0.10%	0.027%
198	11.410	11.385	11.447	VV	2148	43102	0.53%	0.148%
199	11.452	11.447	11.470	VV	766	9055	0.11%	0.031%
200	11.478	11.470	11.503	VV	768	11486	0.14%	0.039%
201	11.522	11.503	11.546	VV	760	15622	0.19%	0.054%
202	11.565	11.546	11.582	VV	1165	17913	0.22%	0.061%
203	11.589	11.582	11.616	VV	1075	16430	0.20%	0.056%
204	11.640	11.616	11.650	VV	848	15680	0.19%	0.054%
205	11.672	11.650	11.720	VV	5744	93360	1.14%	0.320%
206	11.739	11.720	11.745	VV	802	10190	0.12%	0.035%
207	11.753	11.745	11.780	VV	1055	16448	0.20%	0.056%
208	11.812	11.780	11.845	VV	1477	40199	0.49%	0.138%
209	11.872	11.845	11.929	VV	7982	187475	2.29%	0.643%
210	11.938	11.929	11.975	VV	1870	40885	0.50%	0.140%
211	11.984	11.975	12.028	VV	1358	35955	0.44%	0.123%
212	12.032	12.028	12.059	VV	1039	16578	0.20%	0.057%
213	12.103	12.059	12.139	VV	5204	93138	1.14%	0.320%
214	12.149	12.139	12.163	VV	775	9709	0.12%	0.033%
215	12.183	12.163	12.216	VV	1643	29840	0.36%	0.102%
216	12.242	12.216	12.270	VV	2755	43225	0.53%	0.148%
217	12.274	12.270	12.287	VV	591	5595	0.07%	0.019%
218	12.312	12.287	12.347	VV	2599	44468	0.54%	0.153%
219	12.369	12.347	12.395	VV	563	12778	0.16%	0.044%
220	12.407	12.395	12.423	VV	381	5072	0.06%	0.017%
221	12.434	12.423	12.440	VV	439	3781	0.05%	0.013%
222	12.447	12.440	12.456	VV	578	3752	0.05%	0.013%
223	12.462	12.456	12.485	VV	363	5520	0.07%	0.019%
224	12.503	12.485	12.509	VV	660	7179	0.09%	0.025%
225	12.515	12.509	12.528	VV	551	5811	0.07%	0.020%
226	12.534	12.528	12.539	VV	534	3023	0.04%	0.010%
227	12.561	12.539	12.587	VV	817	17297	0.21%	0.059%
228	12.602	12.587	12.629	VV	685	13798	0.17%	0.047%
229	12.638	12.629	12.643	VV	635	4486	0.05%	0.015%
230	12.677	12.643	12.737	VV	153099	1896192	23.13%	6.507%
231	12.742	12.737	12.767	VV	1441	21194	0.26%	0.073%
232	12.772	12.767	12.779	VV	884	5672	0.07%	0.019%
233	12.787	12.779	12.792	VV	910	7263	0.09%	0.025%
234	12.796	12.792	12.801	VV	865	4598	0.06%	0.016%
235	12.809	12.801	12.819	VV	865	8104	0.10%	0.028%
236	12.822	12.819	12.825	VV	745	2885	0.04%	0.010%
237	12.831	12.825	12.836	VV	807	5106	0.06%	0.018%
238	12.847	12.836	12.870	VV	916	16708	0.20%	0.057%
239	12.875	12.870	12.880	VV	753	4271	0.05%	0.015%
240	12.893	12.880	12.900	VV	794	8910	0.11%	0.031%
241	12.920	12.900	12.954	VV	3205	55982	0.68%	0.192%
242	12.958	12.954	12.974	VV	799	8475	0.10%	0.029%
243	12.985	12.974	13.010	VV	769	14017	0.17%	0.048%
244	13.014	13.010	13.017	VV	569	2547	0.03%	0.009%
245	13.021	13.017	13.030	VV	677	4694	0.06%	0.016%
246	13.044	13.030	13.082	VV	850	21314	0.26%	0.073%

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247	13.110	13.082	13.117	VV	2557	32318	0.39%	0.111%
248	13.118	13.117	13.163	VV	2374	45232	0.55%	0.155%
249	13.170	13.163	13.217	VV	951	24668	0.30%	0.085%
250	13.228	13.217	13.249	VV	649	12385	0.15%	0.042%
251	13.266	13.249	13.288	VV	1036	18212	0.22%	0.062%
252	13.296	13.288	13.304	VV	780	6480	0.08%	0.022%
253	13.308	13.304	13.320	VV	693	5842	0.07%	0.020%
254	13.327	13.320	13.332	VV	639	3840	0.05%	0.013%
255	13.341	13.332	13.346	VV	610	4896	0.06%	0.017%
256	13.353	13.346	13.358	VV	720	4431	0.05%	0.015%
257	13.397	13.358	13.417	VV	2178	52815	0.64%	0.181%
258	13.434	13.417	13.472	VV	2749	40294	0.49%	0.138%
259	13.500	13.472	13.507	VV	508	8812	0.11%	0.030%
260	13.510	13.507	13.517	VV	523	2243	0.03%	0.008%
261	13.522	13.517	13.527	VV	359	1874	0.02%	0.006%
262	13.541	13.527	13.565	VV	588	9270	0.11%	0.032%
263	13.571	13.565	13.579	VV	398	2976	0.04%	0.010%
264	13.585	13.579	13.599	VV	407	3990	0.05%	0.014%
265	13.603	13.599	13.609	VV	388	1866	0.02%	0.006%
266	13.622	13.609	13.630	VV	602	4004	0.05%	0.014%
267	13.635	13.630	13.649	VV	420	2229	0.03%	0.008%
268	13.661	13.649	13.680	PV	255	3657	0.04%	0.013%
269	13.704	13.680	13.719	VV	598	8634	0.11%	0.030%
270	13.723	13.719	13.738	VV	333	2244	0.03%	0.008%
271	13.757	13.738	13.761	VV	199	1578	0.02%	0.005%
272	13.768	13.761	13.784	VV	397	3093	0.04%	0.011%
273	13.805	13.784	13.820	VV	594	7663	0.09%	0.026%
274	13.883	13.820	13.927	VV	1295	43672	0.53%	0.150%
275	13.933	13.927	13.950	VV	493	6367	0.08%	0.022%
276	13.954	13.950	13.974	VV	516	6945	0.08%	0.024%
277	13.981	13.974	13.987	VV	568	3704	0.05%	0.013%
278	13.997	13.987	14.029	VV	601	9913	0.12%	0.034%
279	14.053	14.029	14.064	VV	592	9453	0.12%	0.032%
280	14.071	14.064	14.097	VV	505	7079	0.09%	0.024%
281	14.118	14.097	14.137	VV	550	9429	0.11%	0.032%
282	14.142	14.137	14.146	VV	438	2235	0.03%	0.008%
283	14.160	14.146	14.172	VV	623	7501	0.09%	0.026%
284	14.179	14.172	14.189	VV	545	5037	0.06%	0.017%
285	14.195	14.189	14.221	VV	622	7924	0.10%	0.027%
286	14.250	14.221	14.265	VV	762	14175	0.17%	0.049%
287	14.270	14.265	14.290	VV	730	9247	0.11%	0.032%
288	14.295	14.290	14.319	VV	643	9809	0.12%	0.034%
289	14.331	14.319	14.337	VV	727	7358	0.09%	0.025%
290	14.340	14.337	14.365	VV	702	8691	0.11%	0.030%
291	14.389	14.365	14.397	VV	606	10345	0.13%	0.035%
292	14.401	14.397	14.413	VV	606	4581	0.06%	0.016%
293	14.418	14.413	14.437	VV	592	6125	0.07%	0.021%
294	14.443	14.437	14.449	VV	444	2583	0.03%	0.009%
295	14.453	14.449	14.458	VV	482	2160	0.03%	0.007%
296	14.498	14.458	14.515	VV	1758	36542	0.45%	0.125%
297	14.531	14.515	14.567	VV	2423	39802	0.49%	0.137%
298	14.591	14.567	14.646	VV	1456	28193	0.34%	0.097%
299	14.657	14.646	14.675	VV	575	6413	0.08%	0.022%

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300	14.697	14.675	14.719	VV	772	11789	0.14%	0.040%
301	14.725	14.719	14.740	VV	282	2090	0.03%	0.007%
302	14.750	14.740	14.773	VV	383	4779	0.06%	0.016%
303	14.788	14.773	14.806	VV	302	3987	0.05%	0.014%
304	14.850	14.806	14.878	PV	793	18370	0.22%	0.063%
305	14.911	14.878	14.977	VV	10571	223272	2.72%	0.766%
306	14.995	14.977	15.045	VV	1453	43592	0.53%	0.150%
307	15.070	15.045	15.105	VV	1907	43801	0.53%	0.150%
308	15.111	15.105	15.144	VV	878	14724	0.18%	0.051%
309	15.173	15.144	15.178	VV	626	10482	0.13%	0.036%
310	15.192	15.178	15.219	VV	700	12724	0.16%	0.044%
311	15.222	15.219	15.255	VV	726	13445	0.16%	0.046%
312	15.262	15.255	15.290	VV	582	8957	0.11%	0.031%
313	15.302	15.290	15.306	VV	326	2760	0.03%	0.009%
314	15.311	15.306	15.314	VV	373	1581	0.02%	0.005%
315	15.348	15.314	15.358	VV	637	10777	0.13%	0.037%
316	15.394	15.358	15.417	VV	629	18952	0.23%	0.065%
317	15.423	15.417	15.429	VV	530	2966	0.04%	0.010%
318	15.438	15.429	15.467	VV	664	11385	0.14%	0.039%
319	15.472	15.467	15.482	VV	497	3804	0.05%	0.013%
320	15.506	15.482	15.527	VV	1173	21612	0.26%	0.074%
321	15.546	15.527	15.577	VV	2082	33998	0.41%	0.117%
322	15.586	15.577	15.610	VV	654	10093	0.12%	0.035%
323	15.615	15.610	15.646	VV	526	7506	0.09%	0.026%
324	15.654	15.646	15.666	VV	281	1648	0.02%	0.006%
325	15.682	15.666	15.687	VV	247	2869	0.03%	0.010%
326	15.701	15.687	15.713	VV	424	4111	0.05%	0.014%
327	15.730	15.713	15.755	VV	267	4388	0.05%	0.015%
328	15.779	15.755	15.784	PV	310	3024	0.04%	0.010%
329	15.790	15.784	15.795	VV	252	1180	0.01%	0.004%
330	15.804	15.795	15.809	VV	223	1182	0.01%	0.004%
331	15.842	15.819	15.864	VV	367	5558	0.07%	0.019%
332	15.869	15.864	15.879	VV	211	1489	0.02%	0.005%
333	15.931	15.879	15.959	VV	1271	27637	0.34%	0.095%
334	15.972	15.959	15.979	VV	662	6757	0.08%	0.023%
335	15.985	15.979	16.000	VV	717	7685	0.09%	0.026%
336	16.027	16.000	16.067	VV	744	19737	0.24%	0.068%
337	16.078	16.067	16.088	VV	383	4240	0.05%	0.015%
338	16.115	16.088	16.172	VV	3282	64204	0.78%	0.220%
339	16.204	16.172	16.212	VV	592	8532	0.10%	0.029%
340	16.227	16.212	16.249	VV	802	12456	0.15%	0.043%
341	16.263	16.249	16.280	VV	558	9262	0.11%	0.032%
342	16.285	16.280	16.307	VV	552	7267	0.09%	0.025%
343	16.319	16.307	16.330	VV	553	6252	0.08%	0.021%
344	16.334	16.330	16.347	VV	489	4335	0.05%	0.015%
345	16.407	16.347	16.434	VV	710	22916	0.28%	0.079%
346	16.455	16.434	16.470	VV	1529	20087	0.24%	0.069%
347	16.490	16.470	16.510	VV	2253	36265	0.44%	0.124%
348	16.532	16.510	16.566	VV	7747	115704	1.41%	0.397%
349	16.584	16.566	16.628	VV	846	19465	0.24%	0.067%
350	16.641	16.628	16.647	VV	505	4189	0.05%	0.014%
351	16.657	16.647	16.672	VV	544	6624	0.08%	0.023%

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352	16.677	16.672	16.699	VV	473	5754	0.07%	0.020%
353	16.712	16.699	16.734	VV	425	5762	0.07%	0.020%
354	16.745	16.734	16.757	VV	264	1991	0.02%	0.007%
355	16.767	16.757	16.773	VV	221	1481	0.02%	0.005%
356	16.805	16.773	16.852	VV	858	20041	0.24%	0.069%
357	16.873	16.852	16.879	VV	838	10630	0.13%	0.036%
358	16.882	16.879	16.894	VV	640	4611	0.06%	0.016%
359	16.938	16.894	16.973	VV	2182	44636	0.54%	0.153%
360	16.979	16.973	16.985	VV	454	2657	0.03%	0.009%
361	16.991	16.985	17.000	VV	487	3370	0.04%	0.012%
362	17.005	17.000	17.014	VV	441	2823	0.03%	0.010%
363	17.043	17.014	17.050	VV	720	11249	0.14%	0.039%
364	17.055	17.050	17.083	VV	685	8612	0.11%	0.030%
365	17.095	17.083	17.100	VV	440	3889	0.05%	0.013%
366	17.105	17.100	17.112	VV	440	2513	0.03%	0.009%
367	17.123	17.112	17.134	VV	549	5498	0.07%	0.019%
368	17.155	17.134	17.179	VV	954	18815	0.23%	0.065%
369	17.182	17.179	17.190	VV	638	3645	0.04%	0.013%
370	17.201	17.190	17.208	VV	657	5270	0.06%	0.018%
371	17.222	17.208	17.254	VV	1007	18175	0.22%	0.062%
372	17.262	17.254	17.269	VV	528	3923	0.05%	0.013%
373	17.276	17.269	17.287	VV	410	3946	0.05%	0.014%
374	17.292	17.287	17.300	VV	456	2903	0.04%	0.010%
375	17.312	17.300	17.324	VV	675	8391	0.10%	0.029%
376	17.341	17.324	17.352	VV	1384	17698	0.22%	0.061%
377	17.373	17.352	17.406	VV	2796	47727	0.58%	0.164%
378	17.410	17.406	17.414	VV	444	2246	0.03%	0.008%
379	17.428	17.414	17.441	VV	624	7090	0.09%	0.024%
380	17.468	17.441	17.505	VV	3221	54360	0.66%	0.187%
381	17.518	17.505	17.530	VV	553	7552	0.09%	0.026%
382	17.533	17.530	17.540	VV	613	2912	0.04%	0.010%
383	17.544	17.540	17.559	VV	527	4651	0.06%	0.016%
384	17.576	17.559	17.614	VV	594	13303	0.16%	0.046%
385	17.621	17.614	17.625	VV	303	1692	0.02%	0.006%
386	17.635	17.625	17.639	VV	384	2574	0.03%	0.009%
387	17.674	17.639	17.691	VV	806	18268	0.22%	0.063%
388	17.697	17.691	17.704	VV	471	3205	0.04%	0.011%
389	17.731	17.704	17.771	VV	6436	132135	1.61%	0.453%
390	17.794	17.771	17.840	VV	3067	72228	0.88%	0.248%
391	17.847	17.840	17.872	VV	859	14267	0.17%	0.049%
392	17.898	17.872	17.922	VV	911	22096	0.27%	0.076%
393	17.925	17.922	17.941	VV	658	6634	0.08%	0.023%
394	17.948	17.941	17.961	VV	685	6650	0.08%	0.023%
395	17.973	17.961	17.986	VV	783	9920	0.12%	0.034%
396	18.001	17.986	18.010	VV	688	8754	0.11%	0.030%
397	18.016	18.010	18.023	VV	668	5170	0.06%	0.018%
398	18.029	18.023	18.052	VV	842	12665	0.15%	0.043%
399	18.064	18.052	18.078	VV	779	10200	0.12%	0.035%
400	18.083	18.078	18.091	VV	637	4212	0.05%	0.014%
401	18.097	18.091	18.110	VV	597	6837	0.08%	0.023%
402	18.114	18.110	18.139	VV	615	9905	0.12%	0.034%
403	18.200	18.139	18.237	VV	3197	88447	1.08%	0.304%
404	18.241	18.237	18.269	VV	1187	15435	0.19%	0.053%

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Sum of corrected areas: 29142279

Aromatic EPH 021125.M Sat Mar 01 03:59:04 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:00	02/25/25 17:36	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.00	U	1	6.00	31.2	ug/l	FC068299.D
Aliphatic C12-C16	Aliphatic C12-C16	3.76	U	1	3.76	20.8	ug/l	FC068299.D
Aliphatic C16-C21	Aliphatic C16-C21	5.35	U	1	5.35	31.2	ug/l	FC068299.D
Aliphatic C21-C28	Aliphatic C21-C28	9.34	U	1	9.34	41.7	ug/l	FC068299.D
Aliphatic C28-C40	Aliphatic C28-C40	17.7	U	1	17.7	62.5	ug/l	FC068299.D
Aromatic C10-C12	Aromatic C10-C12	3.46	U	1	3.46	20.8	ug/l	FD049104.D
Aromatic C12-C16	Aromatic C12-C16	3.84	U	1	3.84	31.2	ug/l	FD049104.D
Aromatic C16-C21	Aromatic C16-C21	13.2	U	1	13.2	52.1	ug/l	FD049104.D
Aromatic C21-C36	Aromatic C21-C36	27.3	J	1	26.2	83.3	ug/l	FD049104.D
Total AliphaticEPH	Total AliphaticEPH	42.1	U		42.1	187	ug/l	
Total AromaticEPH	Total AromaticEPH	46.7	U		46.7	187	ug/l	
Total EPH	Total EPH	88.8	U		88.8	375	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068299.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.00	U	6.00	31.2	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.76	U	3.76	20.8	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.35	U	5.35	31.2	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	9.34	U	9.34	41.7	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.7	U	17.7	62.5	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.6		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-05	Acq On:	25 Feb 2025 17:36
Client Sample ID:	FB02222025	Operator:	YP/AJ
Data file:	FC068299.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	0	0	300	ug/ml
Aliphatic C12-C16	6.372	9.756	0	0	200	ug/ml
Aliphatic C16-C21	9.757	13.110	0	0	300	ug/ml
Aliphatic C21-C28	13.111	16.764	0	0	400	ug/ml
Aliphatic C28-C40	16.765	21.571	0	0	600	ug/ml
Aliphatic EPH	3.105	21.571	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.842	12.842	4004876	35.61		ug/ml
Aliphatic C9-C28	3.105	16.764	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068299.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 17:36
Operator : YP/AJ
Sample : Q1415-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

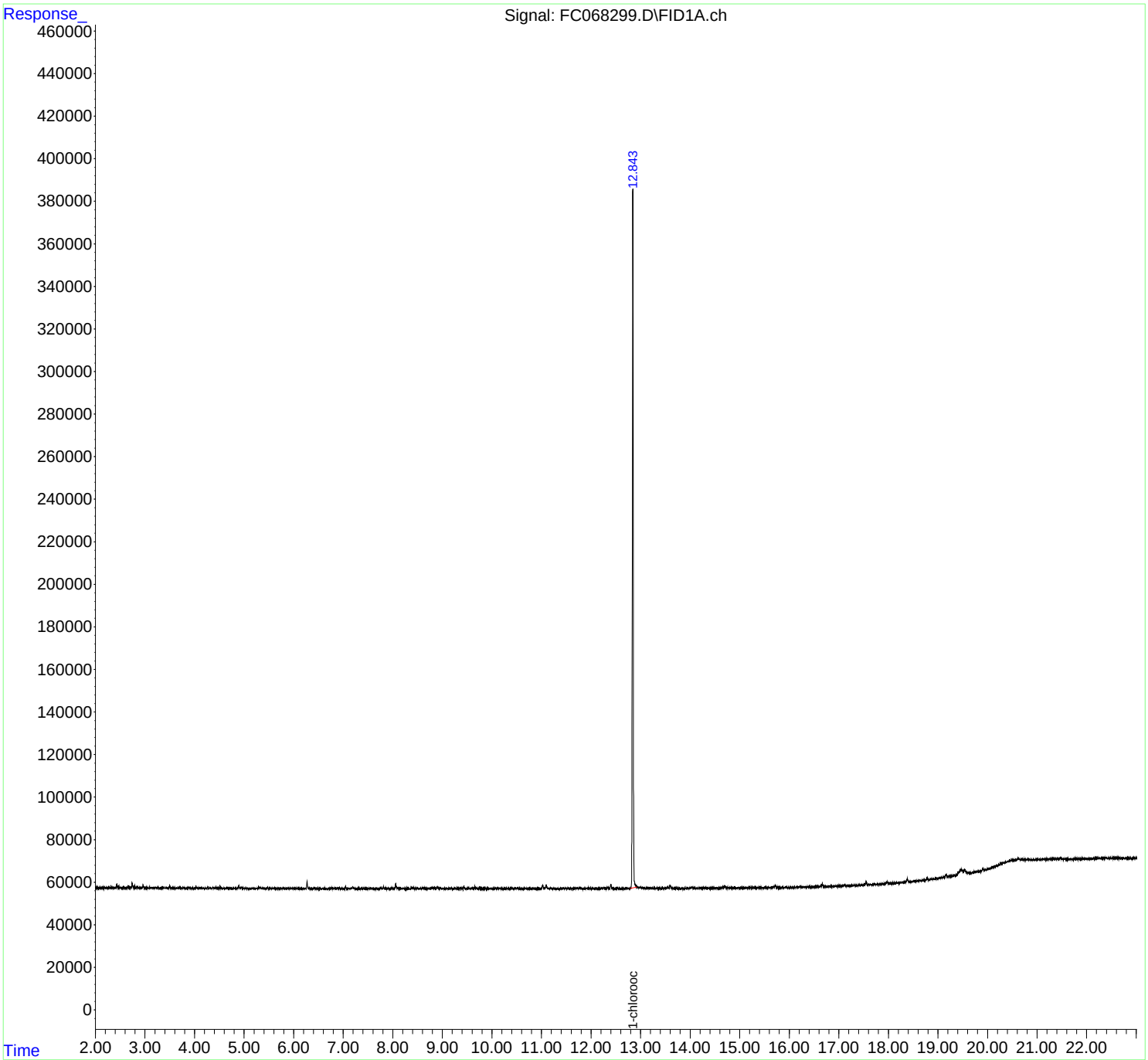
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.842	4004876	35.607 ug/ml
Spiked Amount 50.000		Recovery = 71.21%	
Target Compounds			

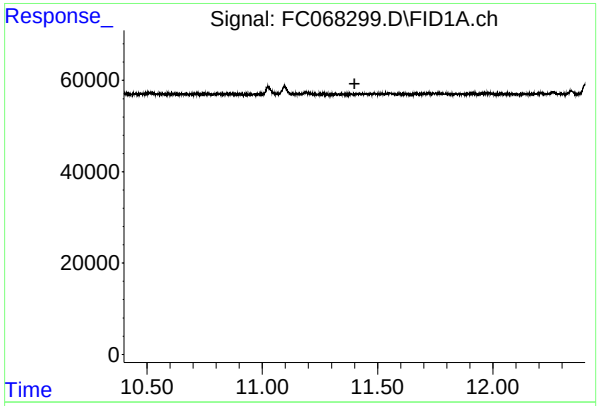
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068299.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 17:36
Operator : YP/AJ
Sample : Q1415-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

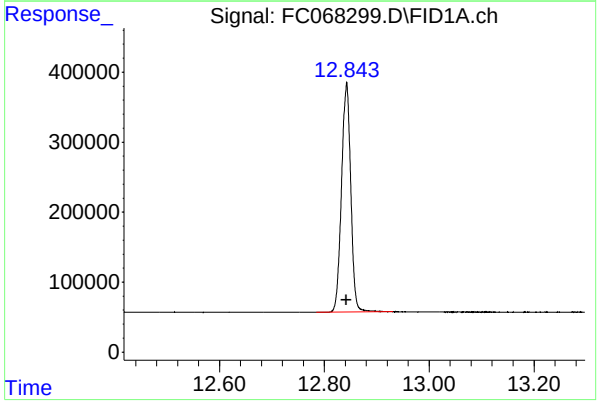
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#12 1-chlorooctadecane (SURR)

R.T.: 12.842 min
Delta R.T.: 0.000 min
Response: 4004876
Conc: 35.61 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068299.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 17:36
Sample : Q1415-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.842	12.784	12.931	BB	320144	4004876	100.00%	100.000%

Sum of corrected areas: 4004876

Aliphatic EPH 021125.M Fri Mar 07 02:56:26 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	02/22/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	02/24/25	
Client Sample ID:	FB02222025		SDG No.:	Q1415	
Lab Sample ID:	Q1415-05		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	960	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049104.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.46	U	3.46	20.8	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.84	U	3.84	31.2	ug/l
Aromatic C16-C21	Aromatic C16-C21	13.2	U	13.2	52.1	ug/l
Aromatic C21-C36	Aromatic C21-C36	27.3	J	26.2	83.3	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.3		40 - 140	107%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	55.6		40 - 140	111%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.3		40 - 140	99%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-05	Acq On:	25 Feb 2025 17:36
Client Sample ID:	FB02222025	Operator:	YP/AJ
Data file:	FD049104.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	73314	0.461	200	ug/ml
Aromatic C12-C16	5.794	8.396	43097	0.268	300	ug/ml
Aromatic C16-C21	8.397	12.660	621464	4.052	500	ug/ml
Aromatic C21-C36	12.661	18.070	1878259	13.124	800	ug/ml
Aromatic EPH	4.075	18.070	2616134	17.905		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	7629671	53.31		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4891693	55.64		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	7979636	49.33		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049104.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 17:36
Operator : YP/AJ
Sample : Q1415-05
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
FB02222025

Integration File: autoint1.e
Quant Time: Feb 26 01:34:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.352	7629671	53.314 ug/ml
Spiked Amount 50.000		Recovery = 106.63%	
6) S 2-Flurobiphenyl (SURR)	8.202	4891693	55.643 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 111.29%	
11) S ortho-Terphenyl (SURR)	11.236	7979636	49.326 ug/ml
Spiked Amount 50.000		Recovery = 98.65%	
Target Compounds			

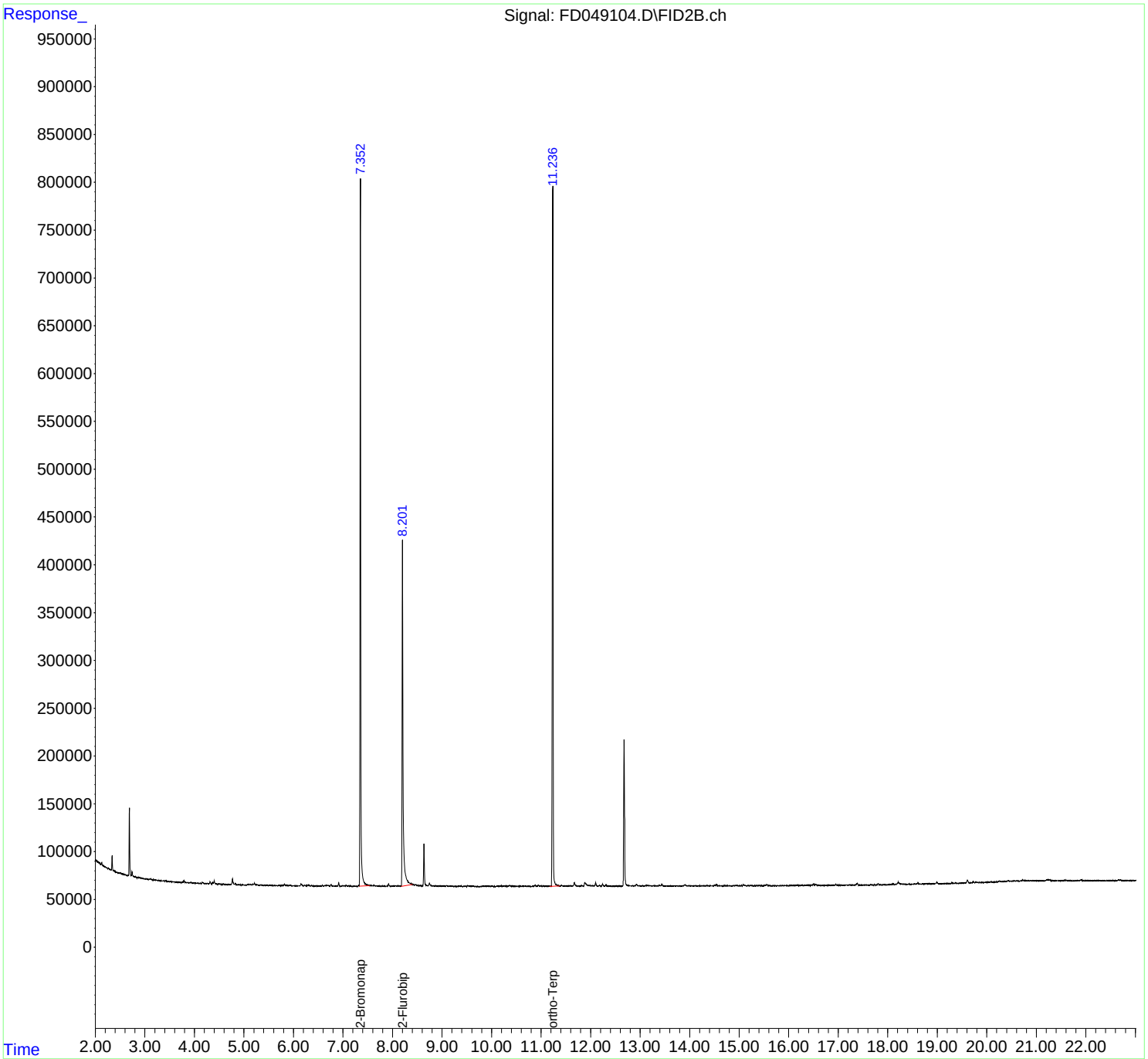
(f)=RT Delta > 1/2 Window (m)=manual int.

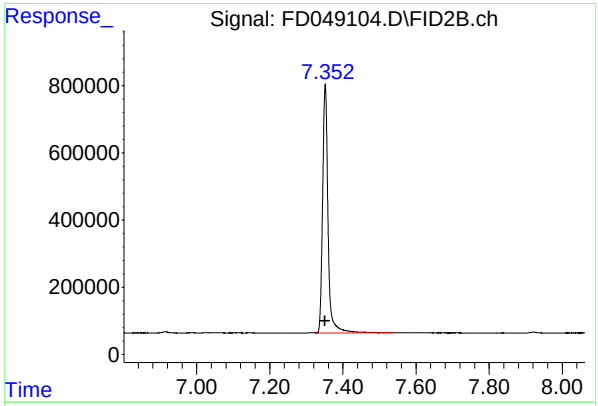
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049104.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 17:36
Operator : YP/AJ
Sample : Q1415-05
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
FB02222025

Integration File: autoint1.e
Quant Time: Feb 26 01:34:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

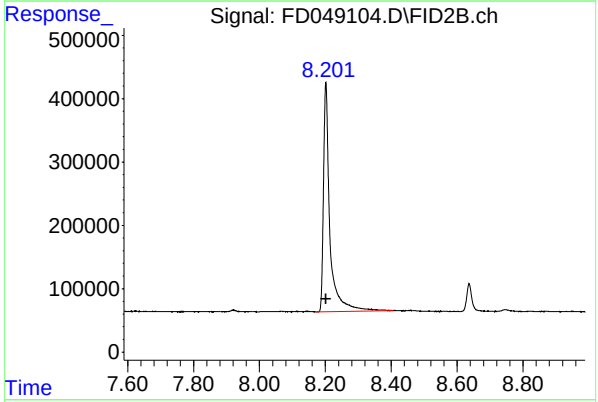




#4 2-Bromonaphthalene (SURR)

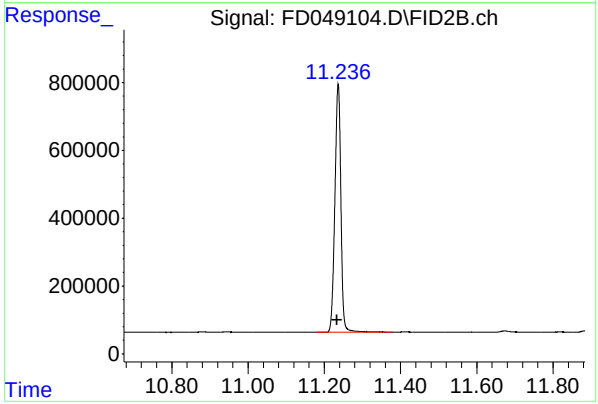
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 7629671
Conc: 53.31 ug/ml

Instrument :
FID_D
ClientSampleId :
FB02222025



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 4891693
Conc: 55.64 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.003 min
Response: 7979636
Conc: 49.33 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049104.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 17:36
Sample : Q1415-05
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.337	2.320	2.368	PV	15501	119854	1.57%	0.754%
2	2.686	2.666	2.720	VV	71025	580800	7.61%	3.654%
3	2.740	2.720	2.798	VB	4917	55305	0.72%	0.348%
4	4.769	4.705	4.808	BV	5917	73314	0.96%	0.461%
5	6.914	6.872	6.957	BB	3611	43097	0.56%	0.271%
6	7.352	7.327	7.537	PB	739145	7629671	100.00%	48.005%
7	8.202	8.172	8.405	BV	361932	4891693	64.11%	30.778%
8	8.637	8.609	8.717	PV	44105	484392	6.35%	3.048%
9	11.673	11.623	11.722	BB	3666	57459	0.75%	0.362%
10	11.884	11.843	11.960	BB	3692	79613	1.04%	0.501%
11	12.678	12.603	12.793	BB	152325	1878259	24.62%	11.818%

Sum of corrected areas: 15893458

Aromatic EPH 021125.M Fri Mar 07 03:38:06 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:00	02/25/25 18:13	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.40	U	1	6.40	33.3	ug/l	FC068300.D
Aliphatic C12-C16	Aliphatic C12-C16	4.01	U	1	4.01	22.2	ug/l	FC068300.D
Aliphatic C16-C21	Aliphatic C16-C21	5.71	U	1	5.71	33.3	ug/l	FC068300.D
Aliphatic C21-C28	Aliphatic C21-C28	9.97	U	1	9.97	44.4	ug/l	FC068300.D
Aliphatic C28-C40	Aliphatic C28-C40	18.9	U	1	18.9	66.7	ug/l	FC068300.D
Aromatic C10-C12	Aromatic C10-C12	3.69	U	1	3.69	22.2	ug/l	FD049105.D
Aromatic C12-C16	Aromatic C12-C16	4.10	U	1	4.10	33.3	ug/l	FD049105.D
Aromatic C16-C21	Aromatic C16-C21	14.1	U	1	14.1	55.6	ug/l	FD049105.D
Aromatic C21-C36	Aromatic C21-C36	28.0	U	1	28.0	88.9	ug/l	FD049105.D
Total AliphaticEPH	Total AliphaticEPH	45.0	U		45.0	200	ug/l	
Total AromaticEPH	Total AromaticEPH	49.9	U		49.9	200	ug/l	
Total EPH	Total EPH	94.9	U		94.9	400	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068300.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.40	U	6.40	33.3	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	4.01	U	4.01	22.2	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.71	U	5.71	33.3	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	9.97	U	9.97	44.4	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	18.9	U	18.9	66.7	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.8		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1415-06	Acq On:	25 Feb 2025 18:13
Client Sample ID:	B-173-GW01	Operator:	YP/AJ
Data file:	FC068300.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	238016	1.688	300	ug/ml
Aliphatic C12-C16	6.372	9.756	188032	1.376	200	ug/ml
Aliphatic C16-C21	9.757	13.110	0	0	300	ug/ml
Aliphatic C21-C28	13.111	16.764	0	0	400	ug/ml
Aliphatic C28-C40	16.765	21.571	0	0	600	ug/ml
Aliphatic EPH	3.105	21.571	426048	3.064		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.841	12.841	3123778	27.77		ug/ml
Aliphatic C9-C28	3.105	16.764	426048	3.064	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068300.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 18:13
Operator : YP/AJ
Sample : Q1415-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:26:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

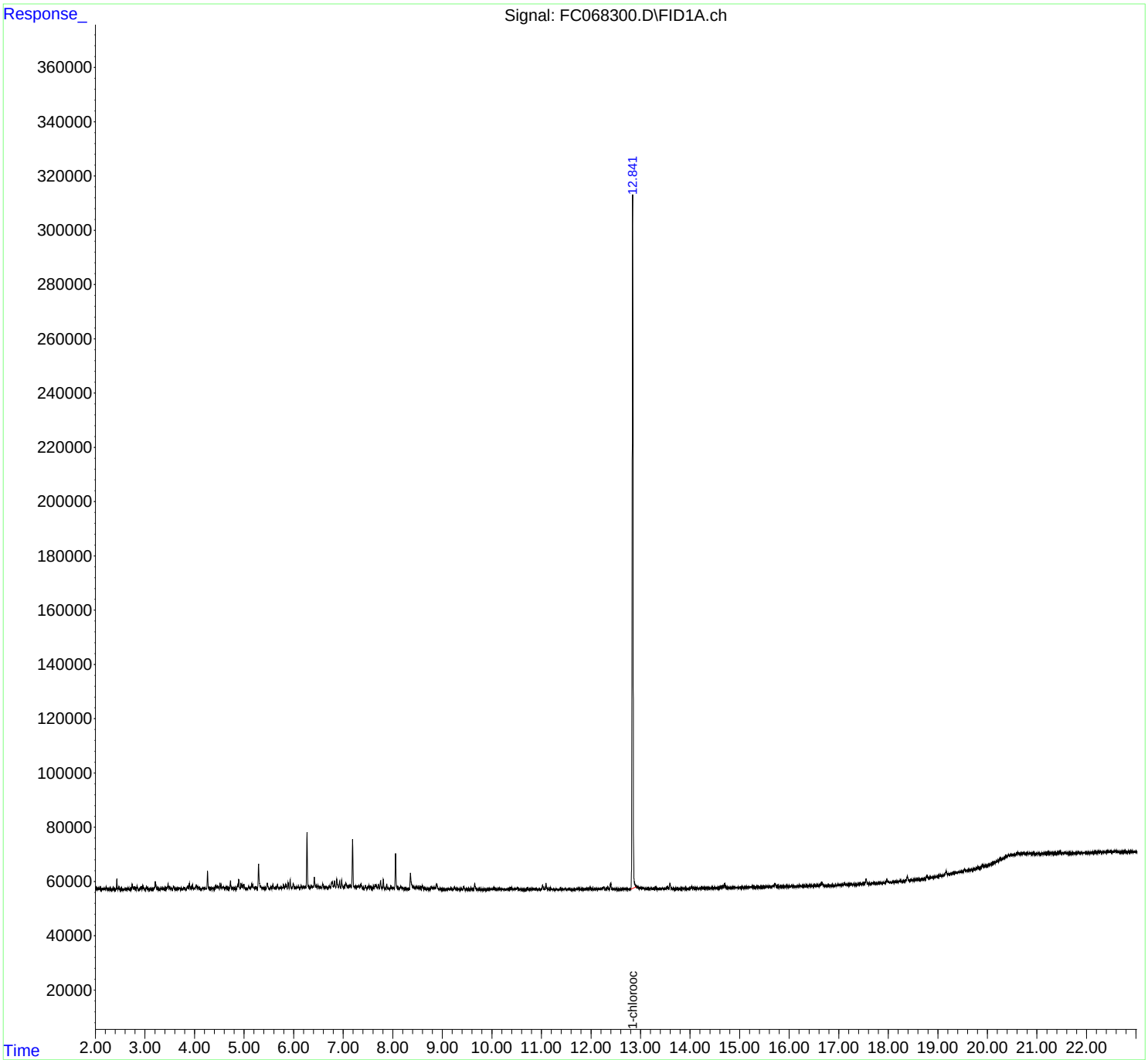
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.841	3123778	27.773 ug/ml
Spiked Amount 50.000		Recovery = 55.55%	
Target Compounds			

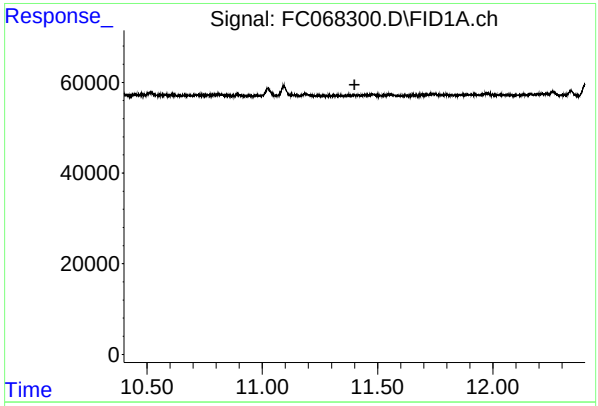
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068300.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 18:13
Operator : YP/AJ
Sample : Q1415-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:26:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

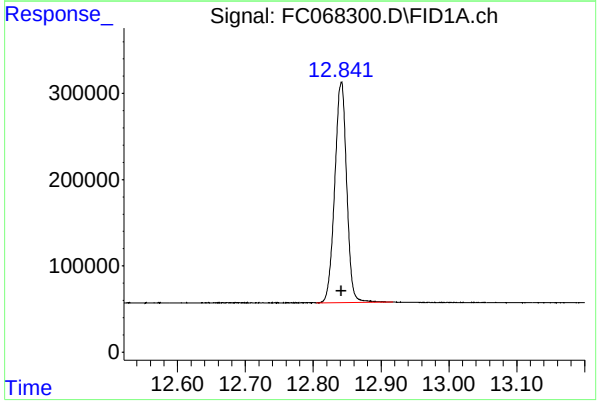
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#12 1-chlorooctadecane (SURR)

R.T.: 12.841 min
Delta R.T.: 0.000 min
Response: 3123778
Conc: 27.77 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068300.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 18:13
Sample : Q1415-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	6.270	6.128	6.331	BB	20483	238016	7.62%	6.705%
2	7.190	7.118	7.251	BB	17245	188032	6.02%	5.297%
3	12.841	12.804	12.918	BB	255164	3123778	100.00%	87.998%

Sum of corrected areas: 3549826

Aliphatic EPH 021125.M Fri Mar 07 02:56:47 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049105.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.69	U	3.69	22.2	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.10	U	4.10	33.3	ug/l
Aromatic C16-C21	Aromatic C16-C21	14.1	U	14.1	55.6	ug/l
Aromatic C21-C36	Aromatic C21-C36	28.0	U	28.0	88.9	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.6		40 - 140	123%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	63.5		40 - 140	127%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.1		40 - 140	56%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1415-06	Acq On:	25 Feb 2025 18:13
Client Sample ID:	B-173-GW01	Operator:	YP/AJ
Data file:	FD049105.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	158473	0.997	200	ug/ml
Aromatic C12-C16	5.794	8.396	202999	1.261	300	ug/ml
Aromatic C16-C21	8.397	12.660	871427	5.682	500	ug/ml
Aromatic C21-C36	12.661	18.070	996427	6.962	800	ug/ml
Aromatic EPH	4.075	18.070	2229326	14.903		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	4550424	28.13		ug/ml
2-Bromonaphthalene (SURR)	7.353	7.353	8810523	61.57		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	5586333	63.54		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049105.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 18:13
Operator : YP/AJ
Sample : Q1415-06
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-173-GW01

Integration File: autoint1.e
Quant Time: Feb 26 01:34:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.353	8810523	61.565 ug/ml
Spiked Amount 50.000		Recovery = 123.13%	
6) S 2-Flurobiphenyl (SURR)	8.202	5586333	63.545 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 127.09%	
11) S ortho-Terphenyl (SURR)	11.234	4550424	28.128 ug/ml
Spiked Amount 50.000		Recovery = 56.26%	
Target Compounds			

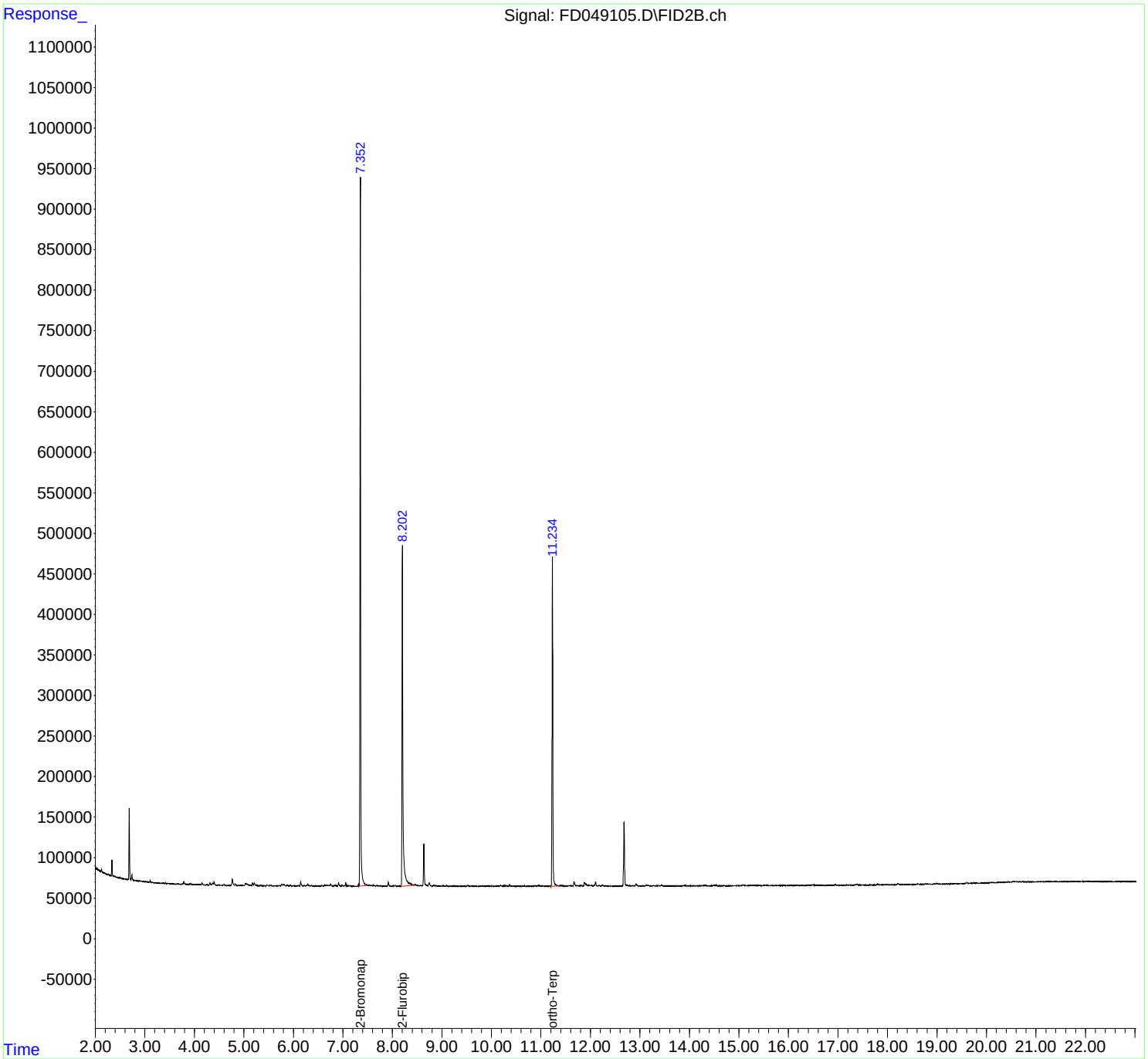
(f)=RT Delta > 1/2 Window (m)=manual int.

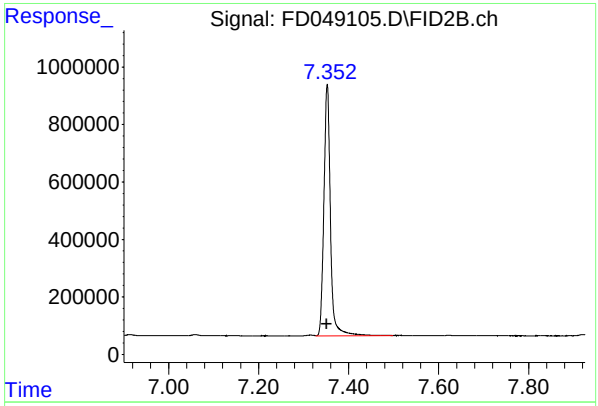
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049105.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 18:13
Operator : YP/AJ
Sample : Q1415-06
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-173-GW01

Integration File: autoint1.e
Quant Time: Feb 26 01:34:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

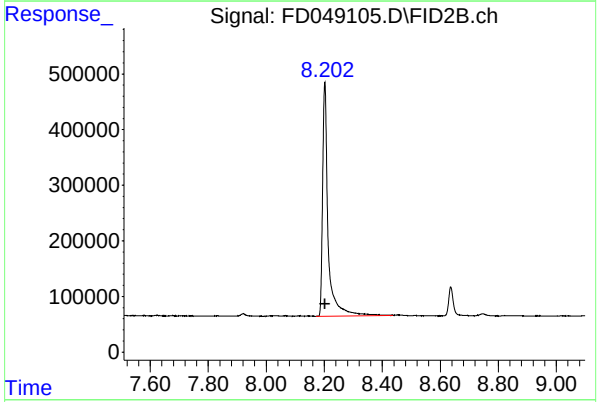




#4 2-Bromonaphthalene (SURR)

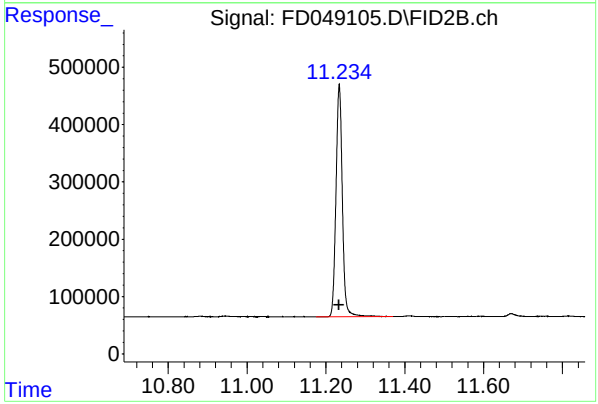
R.T.: 7.353 min
Delta R.T.: 0.001 min
Response: 8810523
Conc: 61.57 ug/ml

Instrument :
FID_D
ClientSampleId :
B-173-GW01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 5586333
Conc: 63.54 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 4550424
Conc: 28.13 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049105.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 18:13
Sample : Q1415-06
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.334	2.317	2.363	BV	19936	153522	1.74%	0.693%
2	2.683	2.623	2.720	BV	88070	709239	8.05%	3.202%
3	2.737	2.720	2.797	VB	6488	68162	0.77%	0.308%
4	3.785	3.770	3.823	VB	3473	38993	0.44%	0.176%
5	4.399	4.383	4.437	VV	4653	55348	0.63%	0.250%
6	4.767	4.717	4.807	BV	7559	103125	1.17%	0.466%
7	6.148	6.120	6.195	BB	4894	63383	0.72%	0.286%
8	6.914	6.867	6.960	BV	4119	49794	0.57%	0.225%
9	7.059	7.038	7.084	VV	4116	41719	0.47%	0.188%
10	7.353	7.328	7.498	VV	873549	8810523	100.00%	39.783%
11	7.921	7.852	7.959	BBA	4270	48103	0.55%	0.217%
12	8.202	8.172	8.437	BB	420794	5586333	63.41%	25.224%
13	8.636	8.598	8.717	BV	51977	583604	6.62%	2.635%
14	8.746	8.717	8.802	VB	3922	65376	0.74%	0.295%
15	11.234	11.175	11.370	BB	404869	4550424	51.65%	20.547%
16	11.670	11.622	11.722	BB	4977	70280	0.80%	0.317%
17	11.881	11.850	11.952	BB	4265	90867	1.03%	0.410%
18	12.104	12.037	12.143	BB	4722	61300	0.70%	0.277%
19	12.678	12.643	12.783	BB	78717	996427	11.31%	4.499%

Sum of corrected areas: 22146523

Aromatic EPH 021125.M Fri Mar 07 02:59:49 2025

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Inital Calibration Report for SequenceID : FC012425AL

AreaCount

Parameter Range	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.D	
Aliphatic C9-C12	39119921.000	19595370.000	8560674.000	4475977.000	2092923.000	
Aliphatic C12-C16	26002482.000	13035277.000	5712859.000	2968256.000	1369659.000	
Aliphatic C16-C21	37691789.000	18971800.000	8404107.000	4402241.000	2042530.000	
Aliphatic C21-C28	46742612.000	23877310.000	10488572.000	5543696.000	2601900.000	
Aliphatic C28-C40	54828663.000	28773658.000	12627086.000	6741853.000	3399332.000	
Aliphatic EPH	204385467.000	104253415.000	45793298.000	24132023.000	11506344.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	138488.1739998	5.827				
Aliphatic C12-C16	137713.071	5.793				
Aliphatic C16-C21	135019.2893328	6.678				
Aliphatic C21-C28	127207.526	7.047				
Aliphatic C28-C40	103638.8596662	9.431				
Aliphatic EPH	123700.6552216	7.023				

Concentration

Parameter Range	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.D	
Aliphatic C9-C12	130399.736666	130635.800000	142677.900000	149199.233333	139528.200000	
Aliphatic C12-C16	130012.410000	130352.770000	142821.475000	148412.800000	136965.900000	
Aliphatic C16-C21	125639.296666	126478.666666	140068.450000	146741.366666	136168.666666	

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Fax : 908 789 8922

Inital Calibration Report for SequenceID : FC012425AL

Aliphatic C21-C28	116856.530000	119386.550000	131107.150000	138592.400000	130095.000000	
Aliphatic C28-C40	91381.105000	95912.193333	105225.716666	112364.216666	113311.066666	
Aliphatic EPH	113547.481666	115837.127777	127203.605555	134066.794444	127848.266666	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068103.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 08:47
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 25 04:21:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.437	14573832	90.197 ug/ml
Spiked Amount	50.000		Recovery =	180.39%
12)	S 1-chlorooctadecane (S...	12.874	10772279	90.162 ug/ml
Spiked Amount	50.000		Recovery =	180.32%
	Target Compounds			
1)	T n-Nonane (C9)	3.236	12896666	91.779 ug/ml
2)	T n-Decane (C10)	4.295	13082082	91.420 ug/ml
3)	T A~Naphthalene (C11.7)	5.865	14453299	92.959 ug/ml
4)	T n-Dodecane (C12)	6.306	13141173	90.994 ug/ml
5)	T A~2-methylnaphthalene...	6.919	14003977	93.520 ug/ml
6)	T n-Tetradecane (C14)	8.094	12889444	91.139 ug/ml
7)	T n-Hexadecane (C16)	9.690	13113038	90.926 ug/ml
8)	T n-Octadecane (C18)	11.130	13072737	89.981 ug/ml
10)	T n-Eicosane (C20)	12.434	12431492	89.576 ug/ml
11)	T n-Heneicosane (C21)	13.044	12187560	89.521 ug/ml
13)	T n-Docosane (C22)	13.628	12054623	90.262 ug/ml
14)	T n-Tetracosane (C24)	14.728	11873929	89.419 ug/ml
15)	T n-Hexacosane (C26)	15.746	11563228	88.873 ug/ml
16)	T n-Octacosane (C28)	16.694	11250832	87.913 ug/ml
17)	T n-Tricontane (C30)	17.581	11253721	85.521 ug/ml
18)	T n-Dotriacontane (C32)	18.410	10723134	84.881 ug/ml
19)	T n-Tetratriacontane (C34)	19.191	9454823	86.012 ug/ml
20)	T n-Hexatriacontane (C36)	19.928	8235414	87.729 ug/ml
21)	T n-Octatriacontane (C38)	20.642	7745753	88.219 ug/ml
22)	T n-Tetracontane (C40)	21.501	7415818	90.622 ug/ml

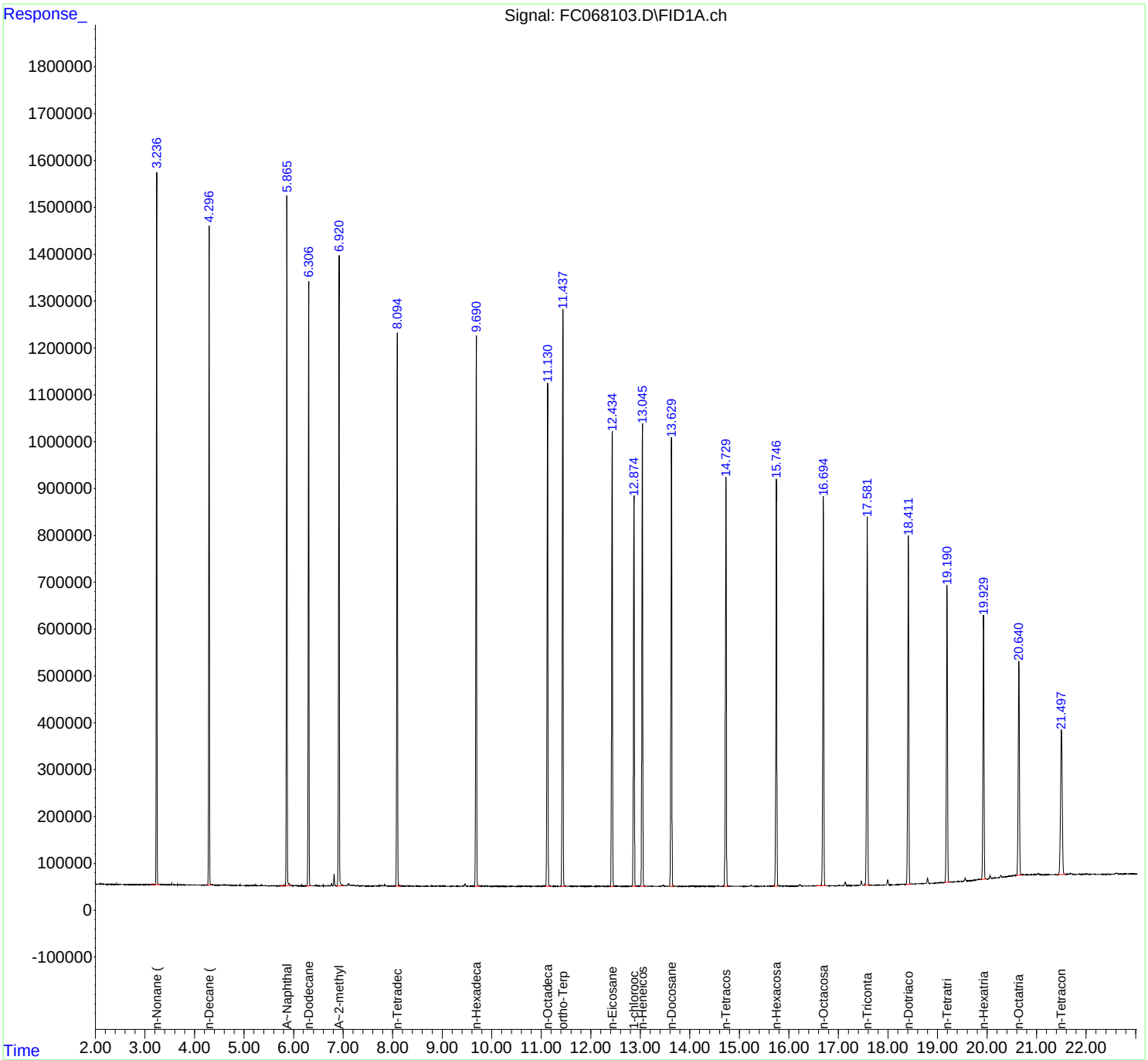
(f)=RT Delta > 1/2 Window (m)=manual int.

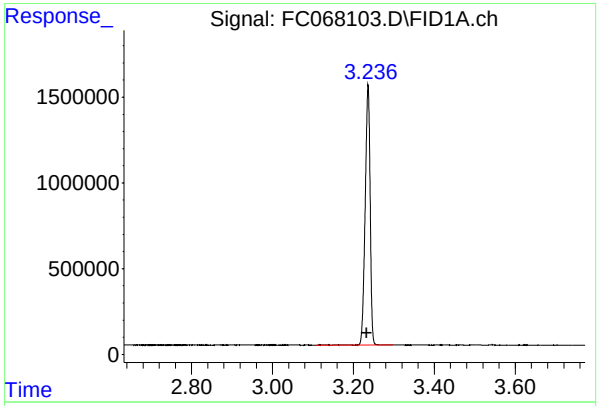
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068103.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 08:47
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 25 04:21:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

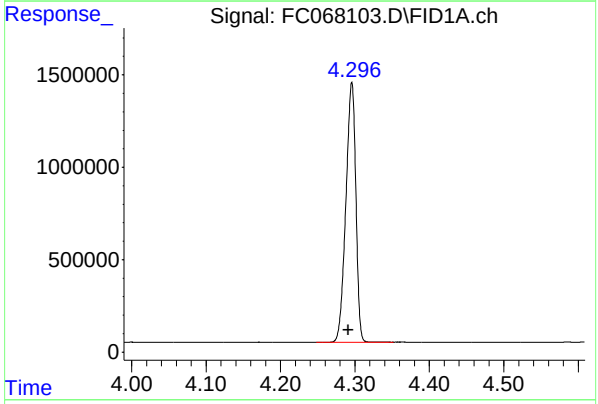




#1 n-Nonane (C9)

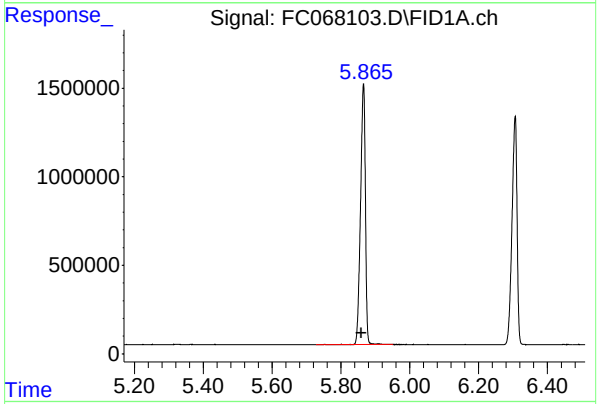
R.T.: 3.236 min
Delta R.T.: 0.003 min
Response: 12896666
Conc: 91.78 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



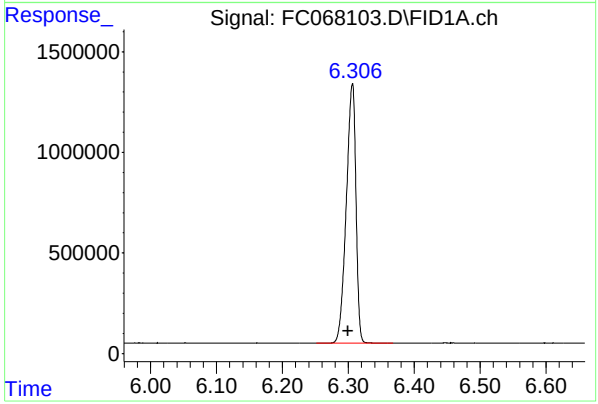
#2 n-Decane (C10)

R.T.: 4.295 min
Delta R.T.: 0.004 min
Response: 13082082
Conc: 91.42 ug/ml



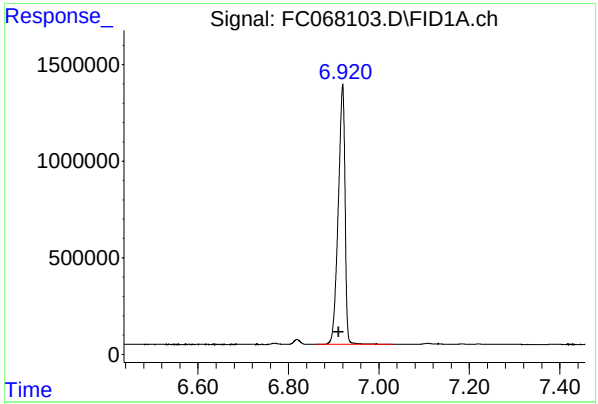
#3 A~Naphthalene (C11.7)

R.T.: 5.865 min
Delta R.T.: 0.006 min
Response: 14453299
Conc: 92.96 ug/ml



#4 n-Dodecane (C12)

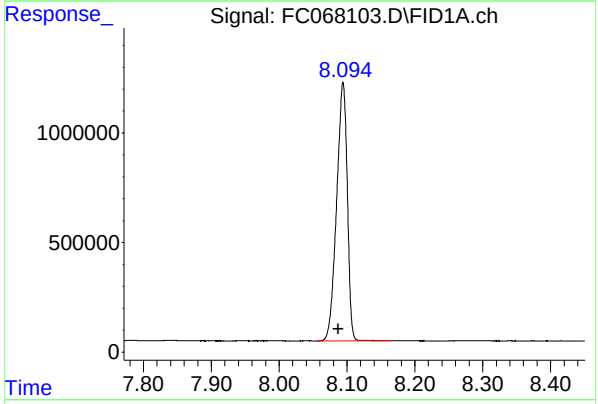
R.T.: 6.306 min
Delta R.T.: 0.006 min
Response: 13141173
Conc: 90.99 ug/ml



#5 A~2-methylnaphthalene (C12.89)

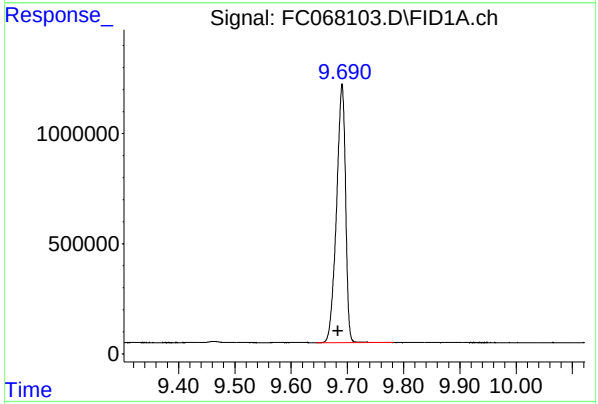
R.T.: 6.919 min
Delta R.T.: 0.008 min
Response: 14003977
Conc: 93.52 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



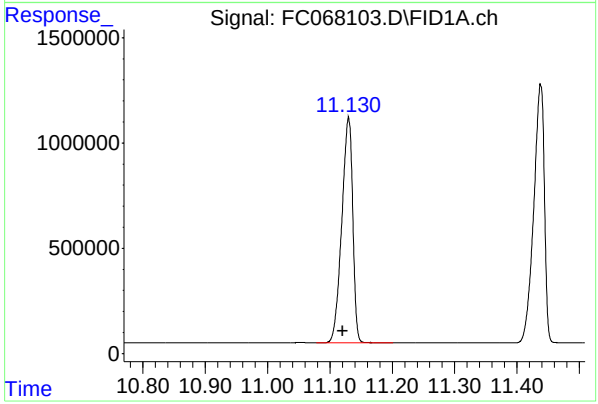
#6 n-Tetradecane (C14)

R.T.: 8.094 min
Delta R.T.: 0.007 min
Response: 12889444
Conc: 91.14 ug/ml



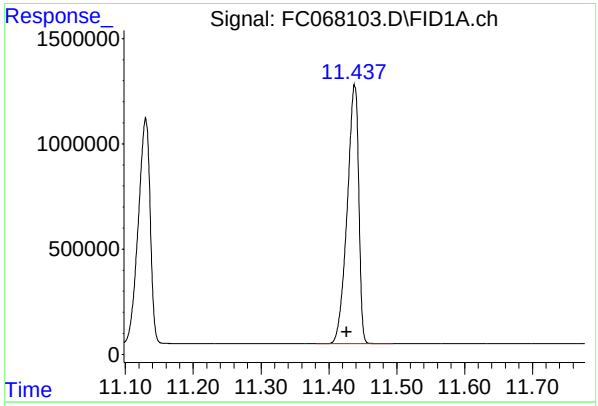
#7 n-Hexadecane (C16)

R.T.: 9.690 min
Delta R.T.: 0.007 min
Response: 13113038
Conc: 90.93 ug/ml



#8 n-Octadecane (C18)

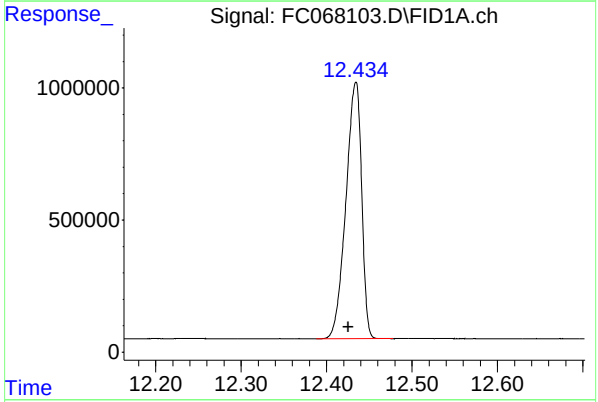
R.T.: 11.130 min
Delta R.T.: 0.009 min
Response: 13072737
Conc: 89.98 ug/ml



#9 ortho-Terphenyl (SURR)

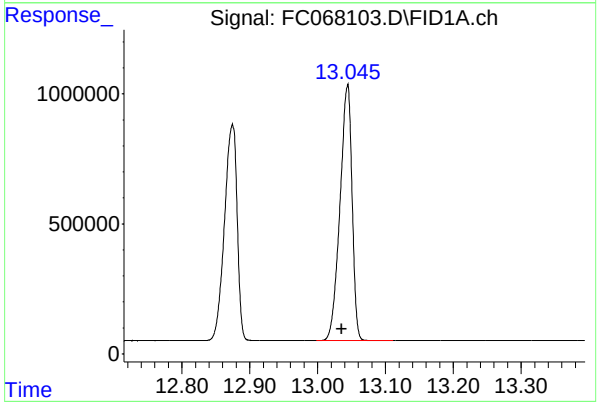
R.T.: 11.437 min
Delta R.T.: 0.011 min
Response: 14573832
Conc: 90.20 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



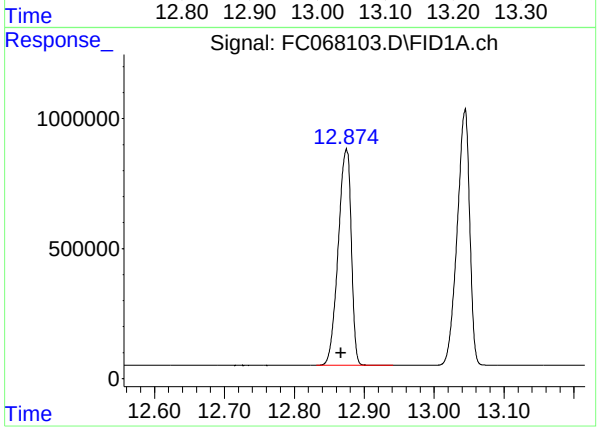
#10 n-Eicosane (C20)

R.T.: 12.434 min
Delta R.T.: 0.008 min
Response: 12431492
Conc: 89.58 ug/ml



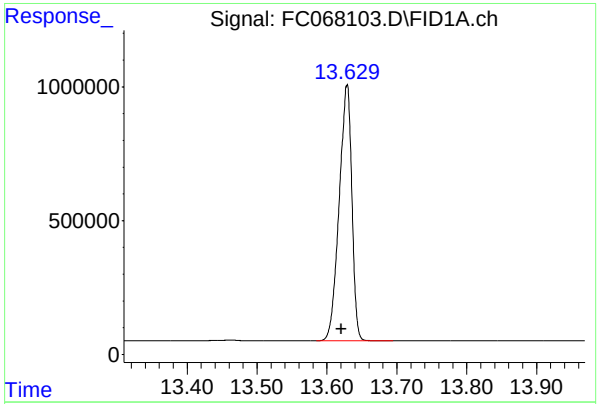
#11 n-Heneicosane (C21)

R.T.: 13.044 min
Delta R.T.: 0.008 min
Response: 12187560
Conc: 89.52 ug/ml



#12 1-chlorooctadecane (SURR)

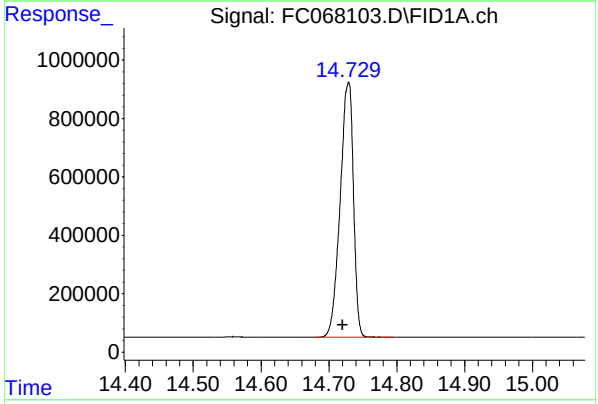
R.T.: 12.874 min
Delta R.T.: 0.007 min
Response: 10772279
Conc: 90.16 ug/ml



#13 n-Docosane (C22)

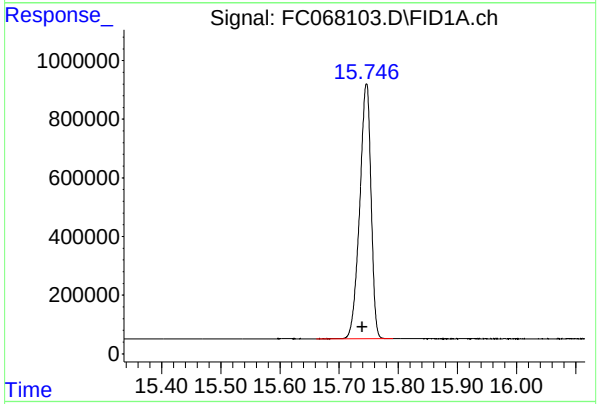
R.T.: 13.628 min
Delta R.T.: 0.008 min
Response: 12054623
Conc: 90.26 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



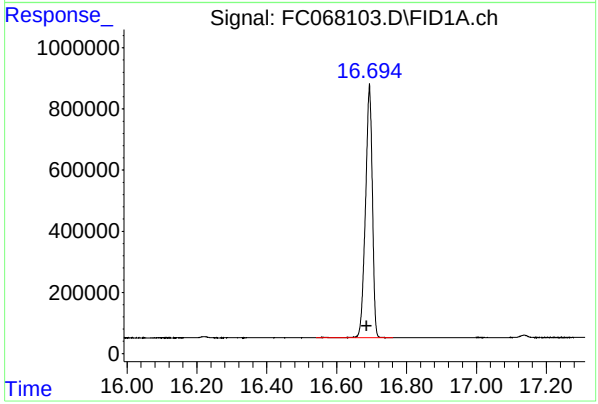
#14 n-Tetracosane (C24)

R.T.: 14.728 min
Delta R.T.: 0.008 min
Response: 11873929
Conc: 89.42 ug/ml



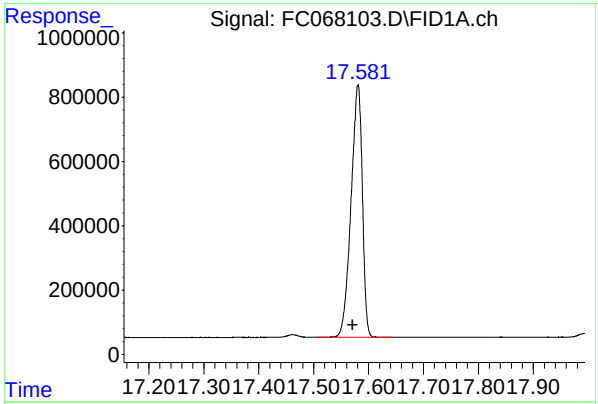
#15 n-Hexacosane (C26)

R.T.: 15.746 min
Delta R.T.: 0.007 min
Response: 11563228
Conc: 88.87 ug/ml



#16 n-Octacosane (C28)

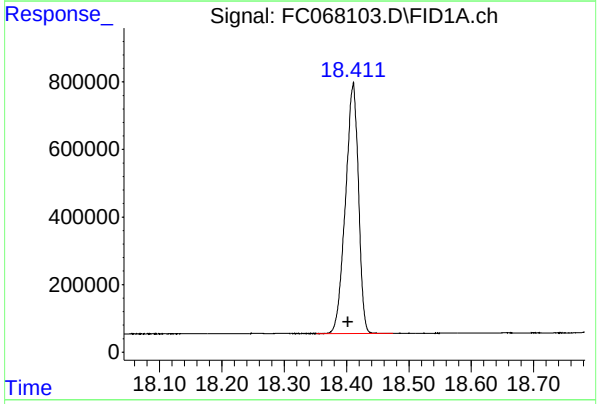
R.T.: 16.694 min
Delta R.T.: 0.008 min
Response: 11250832
Conc: 87.91 ug/ml



#17 n-Tricontane (C30)

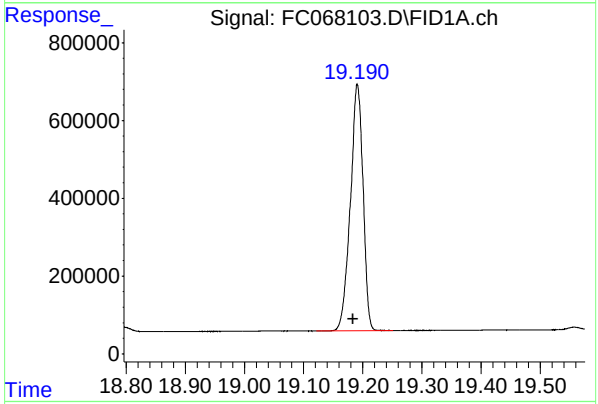
R.T.: 17.581 min
Delta R.T.: 0.009 min
Response: 11253721
Conc: 85.52 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



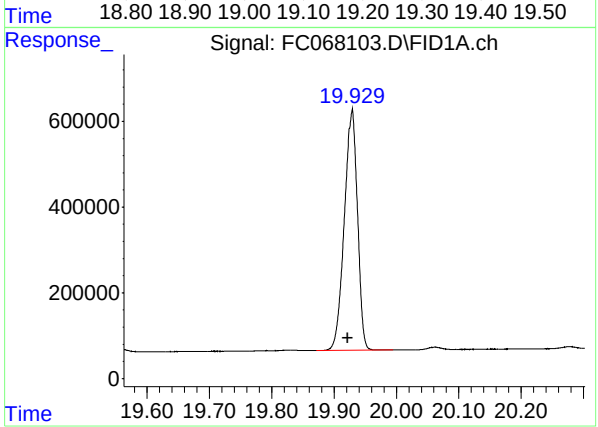
#18 n-Dotriacontane (C32)

R.T.: 18.410 min
Delta R.T.: 0.008 min
Response: 10723134
Conc: 84.88 ug/ml



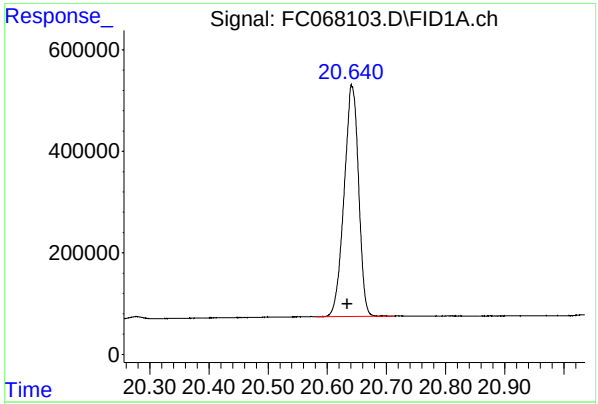
#19 n-Tetratriacontane (C34)

R.T.: 19.191 min
Delta R.T.: 0.008 min
Response: 9454823
Conc: 86.01 ug/ml



#20 n-Hexatriacontane (C36)

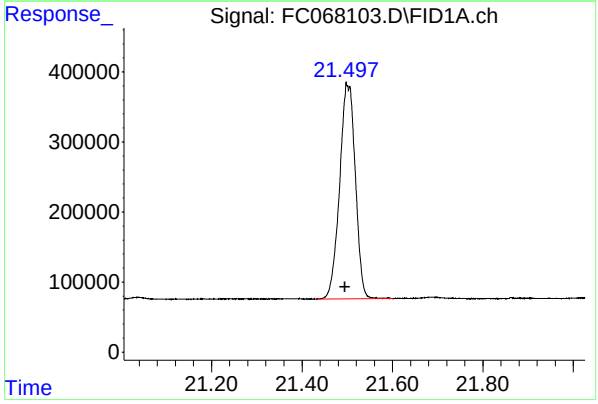
R.T.: 19.928 min
Delta R.T.: 0.006 min
Response: 8235414
Conc: 87.73 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.642 min
Delta R.T.: 0.008 mi
Response: 7745753
Conc: 88.22 ug/m

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.501 min
Delta R.T.: 0.006 min
Response: 7415818
Conc: 90.62 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068103.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 08:47
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.236	3.108	3.298	BB	1476777	12896666	88.49%	4.995%
2	4.295	4.248	4.351	BB	1389988	13082082	89.76%	5.067%
3	5.865	5.728	5.951	BB	1463650	14453299	99.17%	5.598%
4	6.306	6.251	6.368	BB	1273767	13141173	90.17%	5.090%
5	6.919	6.861	7.031	BB	1308343	14003977	96.09%	5.424%
6	8.094	8.054	8.168	BB	1186157	12889444	88.44%	4.992%
7	9.690	9.644	9.781	BB	1180215	13113038	89.98%	5.079%
8	11.130	11.078	11.201	BB	1079467	13072737	89.70%	5.063%
9	11.437	11.381	11.494	BB	1234445	14573832	100.00%	5.645%
10	12.434	12.388	12.478	BB	978654	12431492	85.30%	4.815%
11	12.874	12.831	12.941	BB	832699	10772279	73.92%	4.172%
12	13.044	12.998	13.111	BB	991571	12187560	83.63%	4.720%
13	13.628	13.584	13.694	BB	957218	12054623	82.71%	4.669%
14	14.728	14.681	14.794	BB	869860	11873929	81.47%	4.599%
15	15.746	15.661	15.791	BB	868521	11563228	79.34%	4.479%
16	16.694	16.541	16.761	BB	818402	11250832	77.20%	4.358%
17	17.581	17.504	17.644	BB	789424	11253721	77.22%	4.359%
18	18.410	18.351	18.474	BB	740134	10723134	73.58%	4.153%
19	19.191	19.121	19.251	BB	633829	9454823	64.88%	3.662%
20	19.928	19.871	19.994	BB	551088	8235414	56.51%	3.190%
21	20.642	20.581	20.711	BB	456102	7745753	53.15%	3.000%
22	21.501	21.431	21.601	BB	302473	7415818	50.88%	2.872%

Sum of corrected areas: 258188854

Aliphatic EPH 012425.M Sat Jan 25 04:55:10 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068104.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:23
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 25 04:21:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.431	7322791	45.321 ug/ml
Spiked Amount	50.000		Recovery =	90.64%
12) S	1-chlorooctadecane (S...	12.869	5415134	45.324 ug/ml
Spiked Amount	50.000		Recovery =	90.65%
	Target Compounds			
1) T	n-Nonane (C9)	3.234	6442775	45.850 ug/ml
2) T	n-Decane (C10)	4.293	6559814	45.841 ug/ml
3) T	A~Naphthalene (C11.7)	5.861	7202894	46.327 ug/ml
4) T	n-Dodecane (C12)	6.301	6592781	45.651 ug/ml
5) T	A~2-methylnaphthalene...	6.914	6965539	46.516 ug/ml
6) T	n-Tetradecane (C14)	8.090	6460619	45.682 ug/ml
7) T	n-Hexadecane (C16)	9.686	6574658	45.589 ug/ml
8) T	n-Octadecane (C18)	11.124	6583402	45.314 ug/ml
10) T	n-Eicosane (C20)	12.428	6256943	45.085 ug/ml
11) T	n-Heneicosane (C21)	13.039	6131455	45.037 ug/ml
13) T	n-Docosane (C22)	13.623	6085749	45.568 ug/ml
14) T	n-Tetracosane (C24)	14.724	6046058	45.531 ug/ml
15) T	n-Hexacosane (C26)	15.743	5918808	45.491 ug/ml
16) T	n-Octacosane (C28)	16.690	5826695	45.529 ug/ml
17) T	n-Tricontane (C30)	17.575	5915990	44.958 ug/ml
18) T	n-Dotriacontane (C32)	18.406	5678551	44.949 ug/ml
19) T	n-Tetratriacontane (C34)	19.187	4970299	45.215 ug/ml
20) T	n-Hexatriacontane (C36)	19.924	4283541	45.631 ug/ml
21) T	n-Octatriacontane (C38)	20.638	4034854	45.955 ug/ml
22) T	n-Tetracontane (C40)	21.498	3890423	47.541 ug/ml

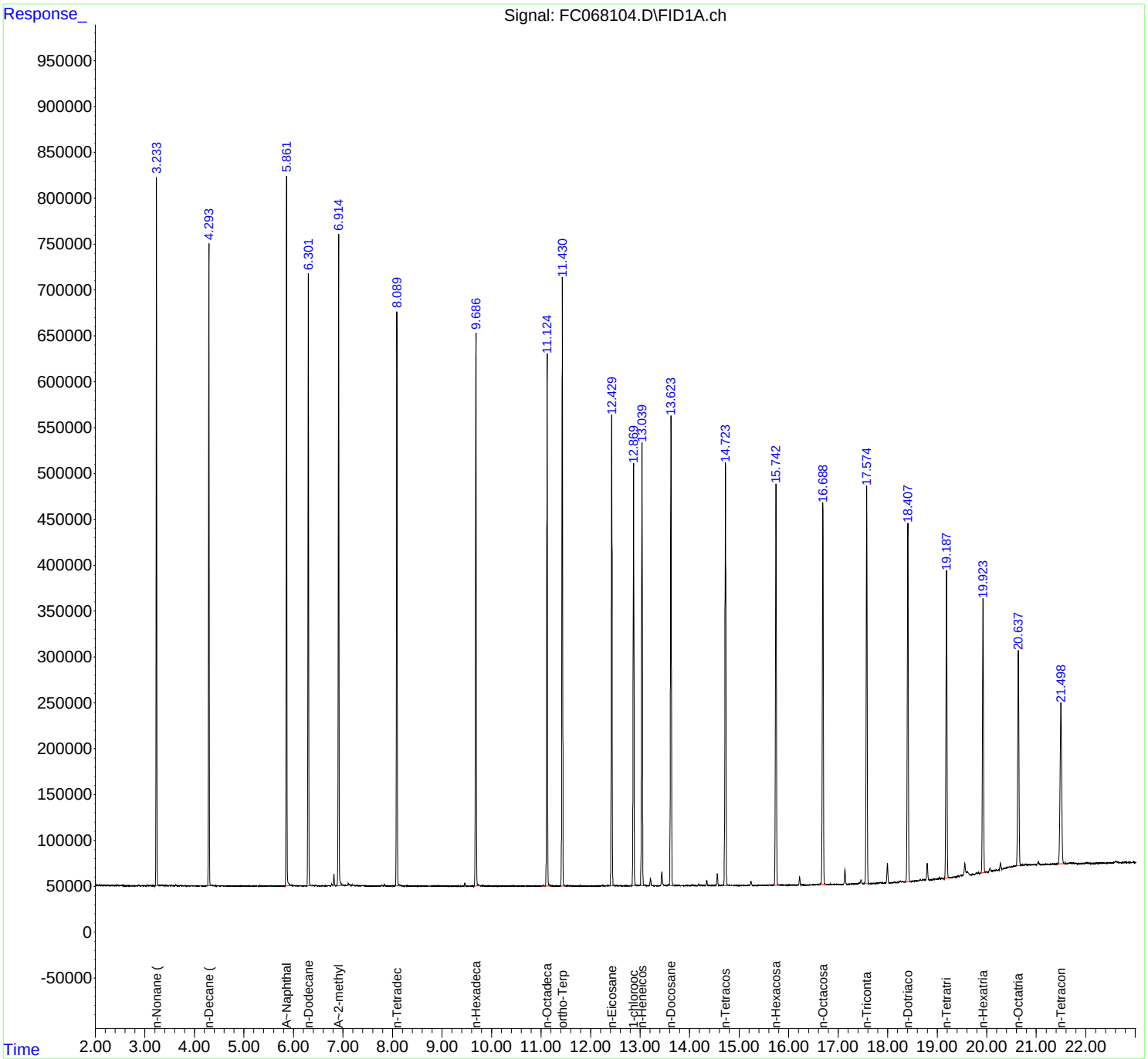
(f)=RT Delta > 1/2 Window (m)=manual int.

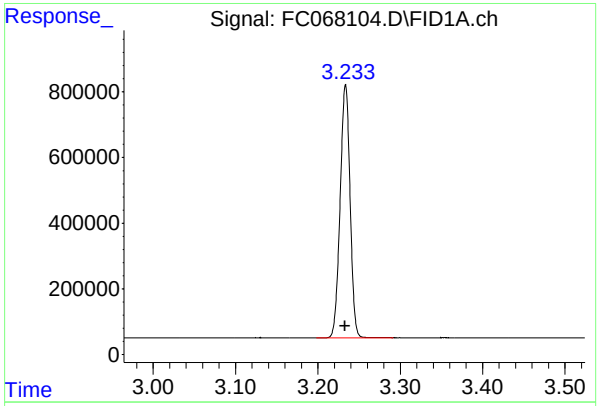
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068104.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:23
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 25 04:21:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

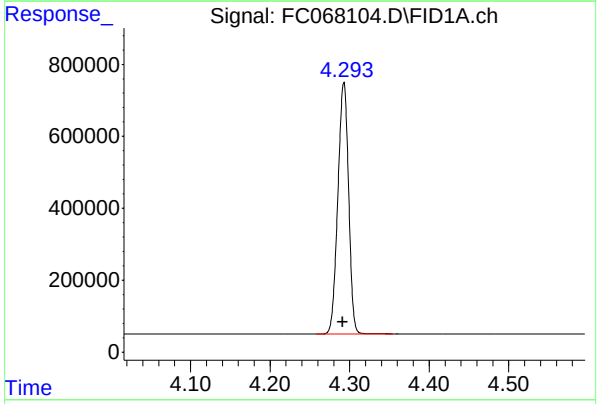




#1 n-Nonane (C9)

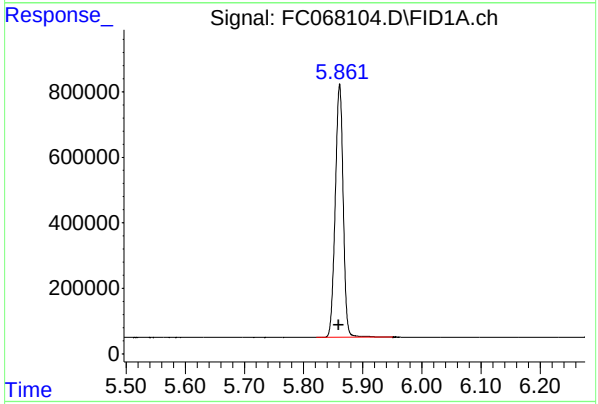
R.T.: 3.234 min
Delta R.T.: 0.000 min
Response: 6442775
Conc: 45.85 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



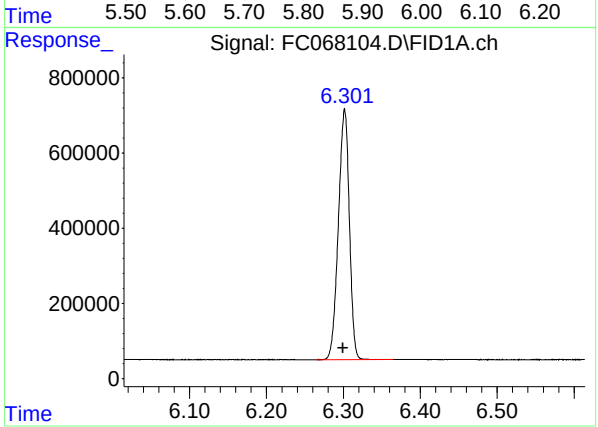
#2 n-Decane (C10)

R.T.: 4.293 min
Delta R.T.: 0.001 min
Response: 6559814
Conc: 45.84 ug/ml



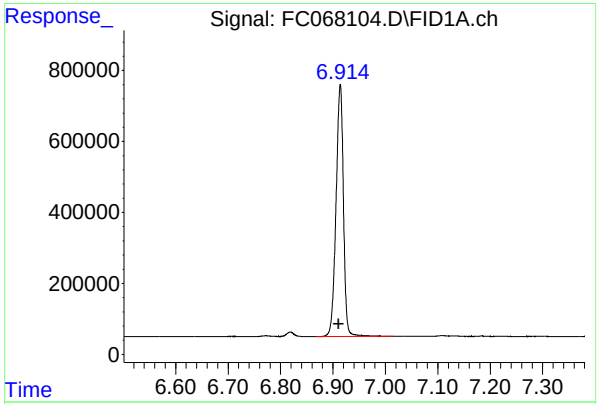
#3 A~Naphthalene (C11.7)

R.T.: 5.861 min
Delta R.T.: 0.002 min
Response: 7202894
Conc: 46.33 ug/ml



#4 n-Dodecane (C12)

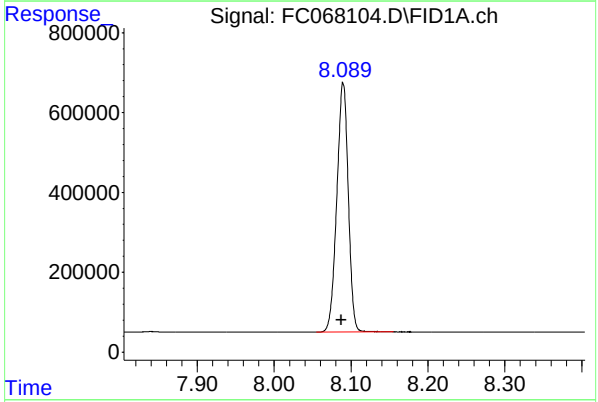
R.T.: 6.301 min
Delta R.T.: 0.002 min
Response: 6592781
Conc: 45.65 ug/ml



#5 A~2-methylnaphthalene (C12.89)

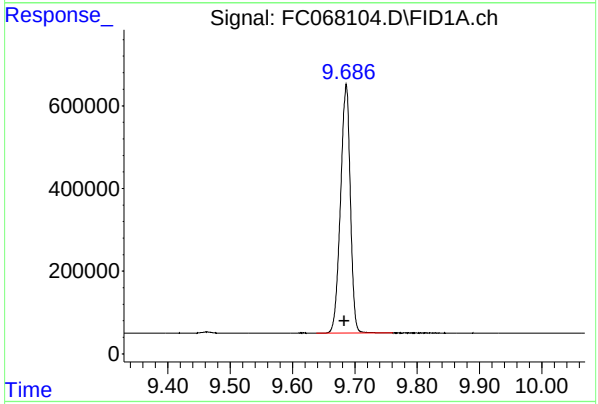
R.T.: 6.914 min
Delta R.T.: 0.003 min
Response: 6965539
Conc: 46.52 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



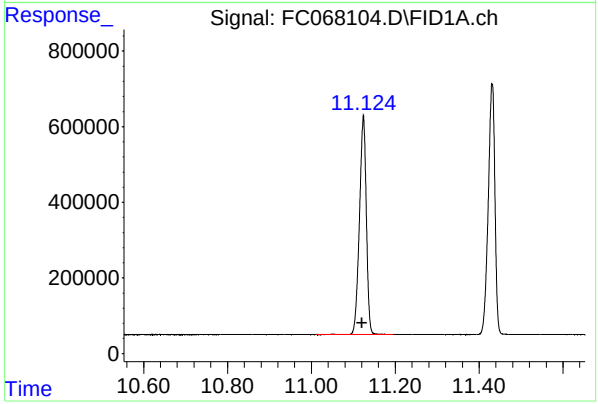
#6 n-Tetradecane (C14)

R.T.: 8.090 min
Delta R.T.: 0.002 min
Response: 6460619
Conc: 45.68 ug/ml



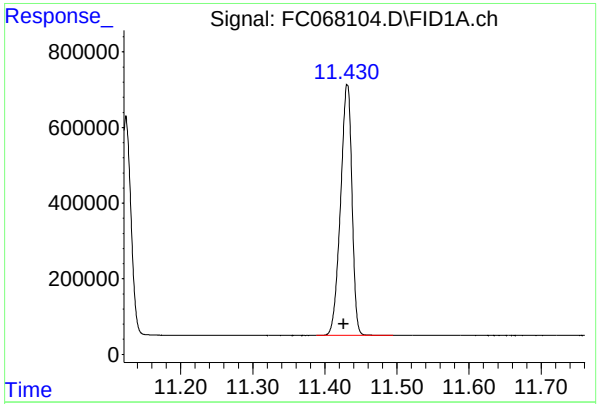
#7 n-Hexadecane (C16)

R.T.: 9.686 min
Delta R.T.: 0.003 min
Response: 6574658
Conc: 45.59 ug/ml



#8 n-Octadecane (C18)

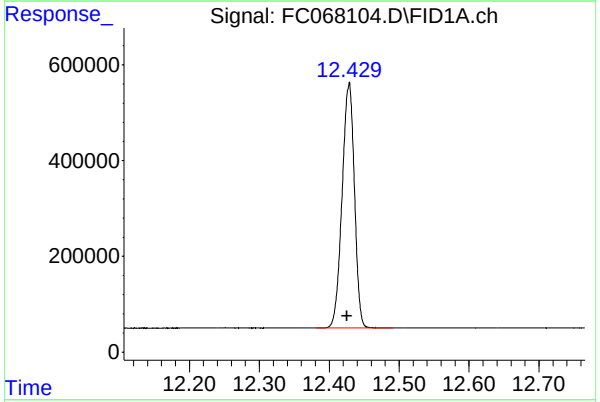
R.T.: 11.124 min
Delta R.T.: 0.003 min
Response: 6583402
Conc: 45.31 ug/ml



#9 ortho-Terphenyl (SURR)

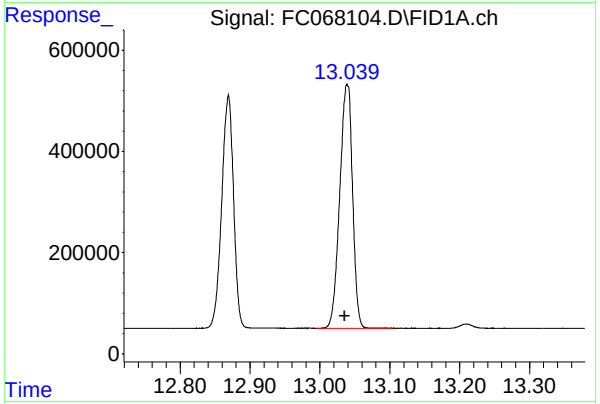
R.T.: 11.431 min
Delta R.T.: 0.005 min
Response: 7322791
Conc: 45.32 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



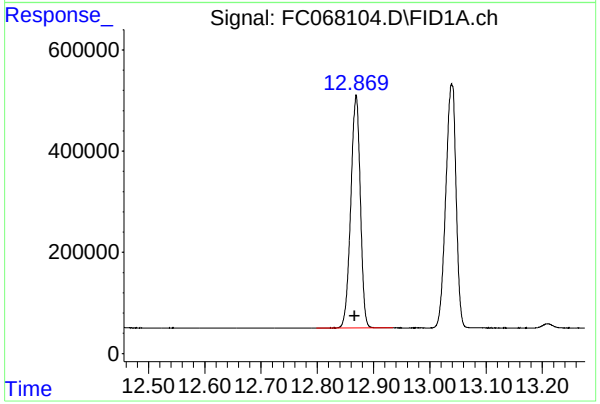
#10 n-Eicosane (C20)

R.T.: 12.428 min
Delta R.T.: 0.003 min
Response: 6256943
Conc: 45.08 ug/ml



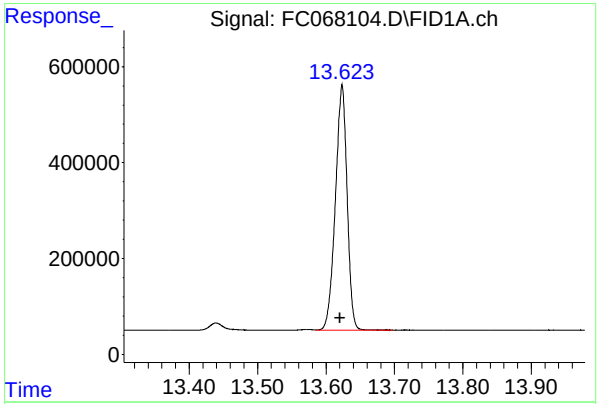
#11 n-Heneicosane (C21)

R.T.: 13.039 min
Delta R.T.: 0.003 min
Response: 6131455
Conc: 45.04 ug/ml



#12 1-chlorooctadecane (SURR)

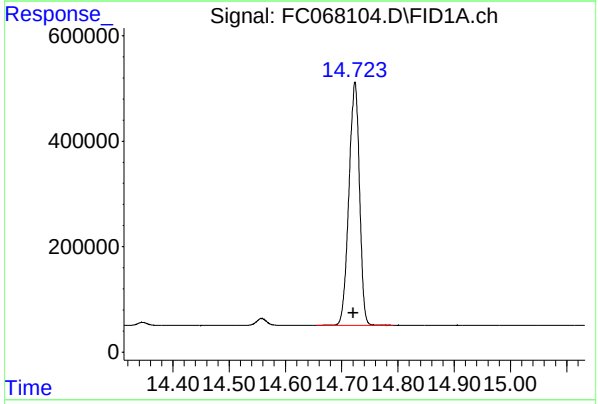
R.T.: 12.869 min
Delta R.T.: 0.002 min
Response: 5415134
Conc: 45.32 ug/ml



#13 n-Docosane (C22)

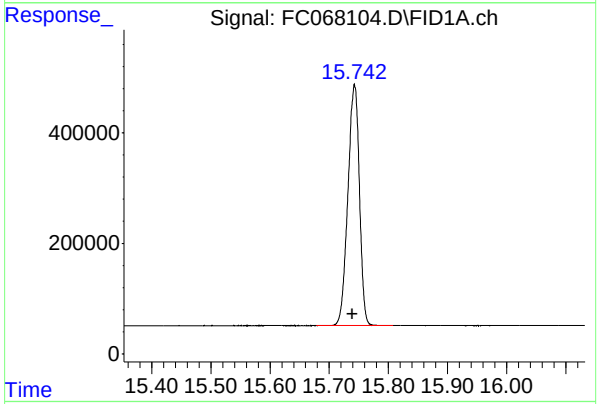
R.T.: 13.623 min
Delta R.T.: 0.003 min
Response: 6085749
Conc: 45.57 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



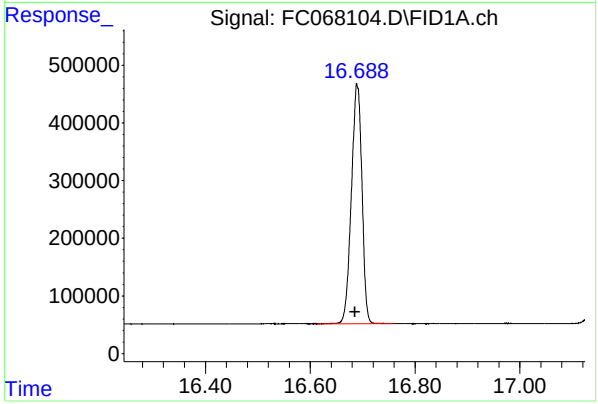
#14 n-Tetracosane (C24)

R.T.: 14.724 min
Delta R.T.: 0.003 min
Response: 6046058
Conc: 45.53 ug/ml



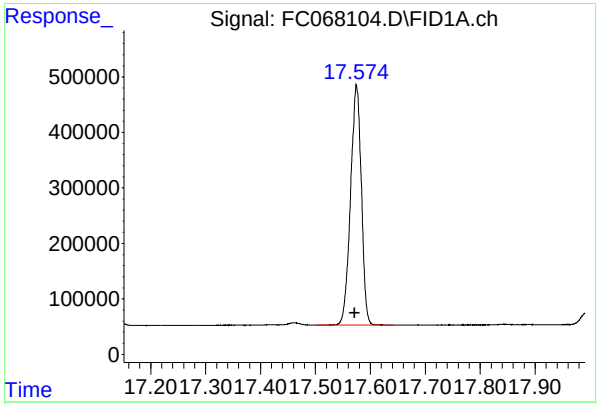
#15 n-Hexacosane (C26)

R.T.: 15.743 min
Delta R.T.: 0.003 min
Response: 5918808
Conc: 45.49 ug/ml



#16 n-Octacosane (C28)

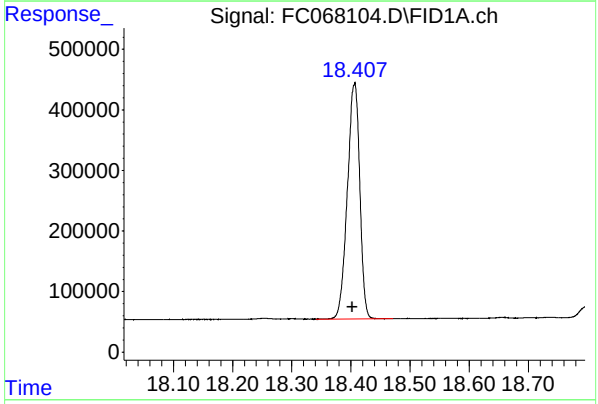
R.T.: 16.690 min
Delta R.T.: 0.004 min
Response: 5826695
Conc: 45.53 ug/ml



#17 n-Tricontane (C30)

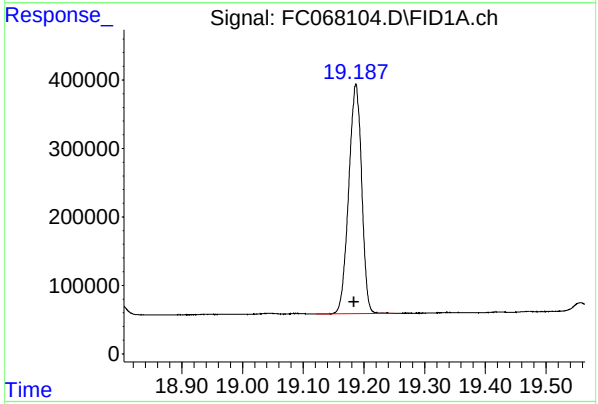
R.T.: 17.575 min
Delta R.T.: 0.004 min
Response: 5915990
Conc: 44.96 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



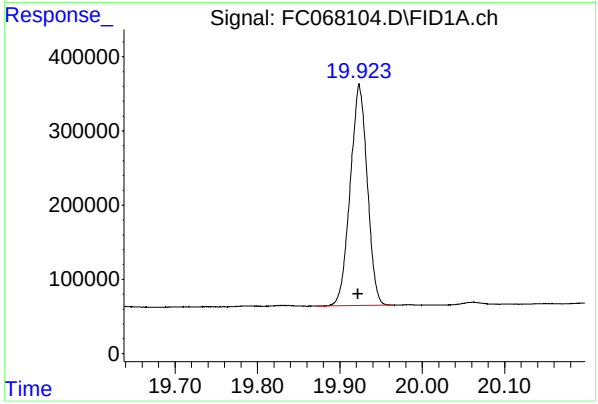
#18 n-Dotriacontane (C32)

R.T.: 18.406 min
Delta R.T.: 0.004 min
Response: 5678551
Conc: 44.95 ug/ml



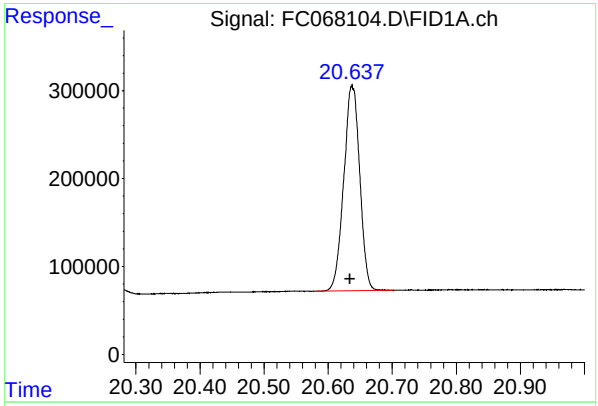
#19 n-Tetratriacontane (C34)

R.T.: 19.187 min
Delta R.T.: 0.003 min
Response: 4970299
Conc: 45.22 ug/ml



#20 n-Hexatriacontane (C36)

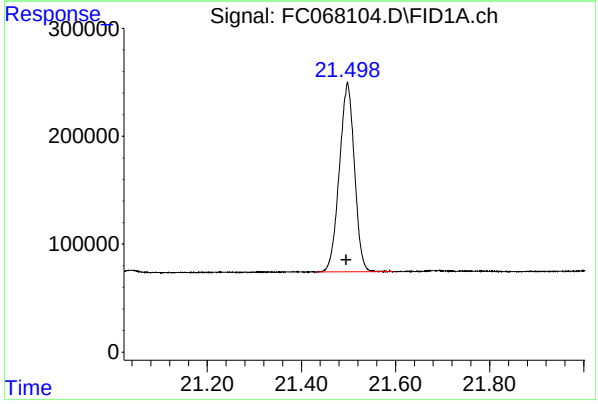
R.T.: 19.924 min
Delta R.T.: 0.002 min
Response: 4283541
Conc: 45.63 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.638 min
Delta R.T.: 0.003 min
Response: 4034854
Conc: 45.95 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.498 min
Delta R.T.: 0.003 min
Response: 3890423
Conc: 47.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068104.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:23
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.234	3.198	3.291	BB	774278	6442775	87.98%	4.912%
2	4.293	4.258	4.355	BB	693906	6559814	89.58%	5.001%
3	5.861	5.821	5.951	BB	772740	7202894	98.36%	5.492%
4	6.301	6.265	6.365	BB	662417	6592781	90.03%	5.027%
5	6.914	6.868	7.015	BB	713919	6965539	95.12%	5.311%
6	8.090	8.055	8.155	BB	627229	6460619	88.23%	4.926%
7	9.686	9.638	9.761	BB	591032	6574658	89.78%	5.013%
8	11.124	11.011	11.195	BB	577849	6583402	89.90%	5.019%
9	11.431	11.388	11.495	BB	668563	7322791	100.00%	5.583%
10	12.428	12.381	12.491	BB	508780	6256943	85.44%	4.770%
11	12.869	12.798	12.935	BB	454323	5415134	73.95%	4.129%
12	13.039	12.995	13.105	BB	483558	6131455	83.73%	4.675%
13	13.623	13.585	13.698	VB	513190	6085749	83.11%	4.640%
14	14.724	14.655	14.791	BB	462982	6046058	82.56%	4.610%
15	15.743	15.678	15.808	BB	432175	5918808	80.83%	4.513%
16	16.690	16.611	16.758	BB	414810	5826695	79.57%	4.442%
17	17.575	17.501	17.641	BB	432146	5915990	80.79%	4.511%
18	18.406	18.341	18.471	BB	388200	5678551	77.55%	4.329%
19	19.187	19.121	19.248	BB	335389	4970299	67.87%	3.789%
20	19.924	19.871	19.965	BB	294922	4283541	58.50%	3.266%
21	20.638	20.581	20.701	BB	232299	4034854	55.10%	3.076%
22	21.498	21.431	21.595	BB	175086	3890423	53.13%	2.966%

Sum of corrected areas: 131159772

Aliphatic EPH 012425.M Sat Jan 25 04:55:33 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068105.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:58
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 25 04:21:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.426	3231539	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12) S	1-chlorooctadecane (S...	12.867	2389546	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	n-Nonane (C9)	3.233	2810367	20.000 ug/ml
2) T	n-Decane (C10)	4.291	2861961	20.000 ug/ml
3) T	A~Naphthalene (C11.7)	5.859	3109613	20.000 ug/ml
4) T	n-Dodecane (C12)	6.300	2888346	20.000 ug/ml
5) T	A~2-methylnaphthalene...	6.911	2994869	20.000 ug/ml
6) T	n-Tetradecane (C14)	8.087	2828524	20.000 ug/ml
7) T	n-Hexadecane (C16)	9.683	2884335	20.000 ug/ml
8) T	n-Octadecane (C18)	11.120	2905661	20.000 ug/ml
10) T	n-Eicosane (C20)	12.426	2775623	20.000 ug/ml
11) T	n-Heneicosane (C21)	13.035	2722823	20.000 ug/ml
13) T	n-Docosane (C22)	13.620	2671035	20.000 ug/ml
14) T	n-Tetracosane (C24)	14.720	2655805	20.000 ug/ml
15) T	n-Hexacosane (C26)	15.739	2602198	20.000 ug/ml
16) T	n-Octacosane (C28)	16.686	2559534	20.000 ug/ml
17) T	n-Tricontane (C30)	17.571	2631800	20.000 ug/ml
18) T	n-Dotriacontane (C32)	18.402	2526641	20.000 ug/ml
19) T	n-Tetratriacontane (C34)	19.183	2198499	20.000 ug/ml
20) T	n-Hexatriacontane (C36)	19.922	1877473	20.000 ug/ml
21) T	n-Octatriacontane (C38)	20.634	1756021	20.000 ug/ml
22) T	n-Tetracontane (C40)	21.495	1636652	20.000 ug/ml

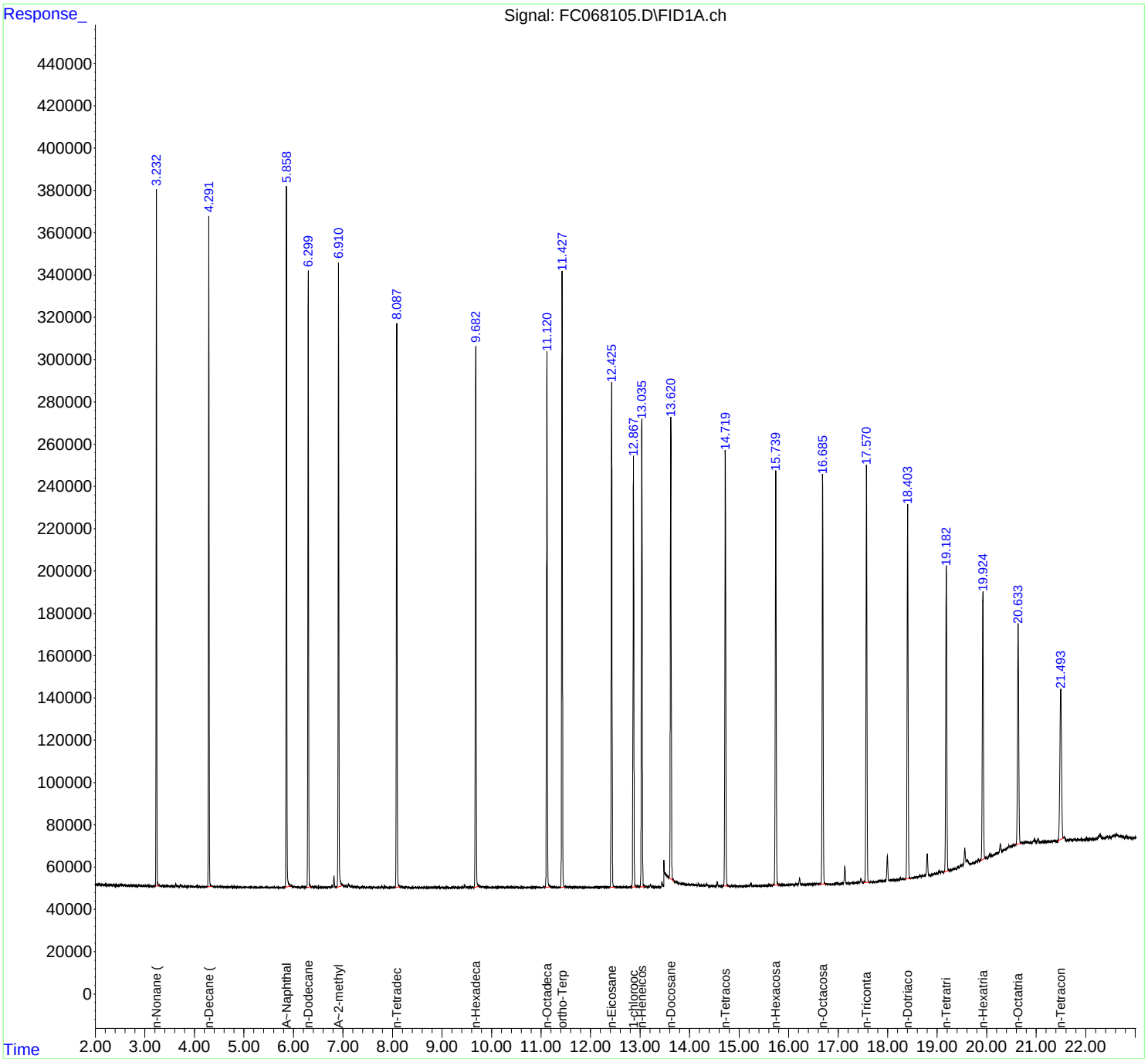
(f)=RT Delta > 1/2 Window (m)=manual int.

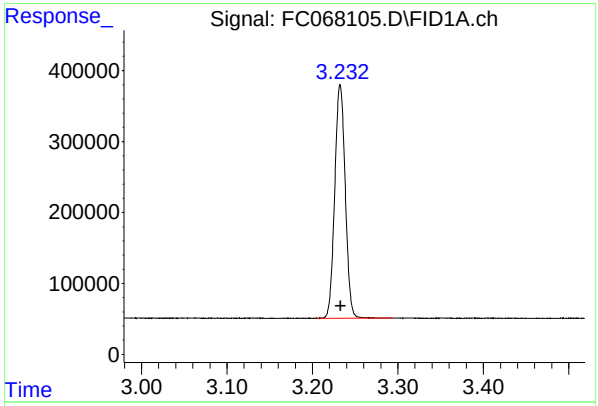
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068105.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:58
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 25 04:21:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

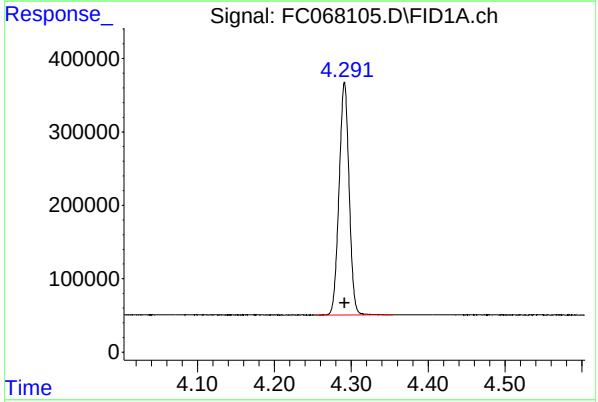




#1 n-Nonane (C9)

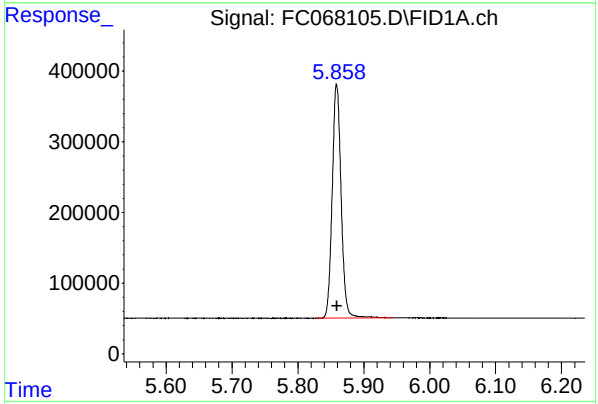
R.T.: 3.233 min
Delta R.T.: 0.000 min
Response: 2810367
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



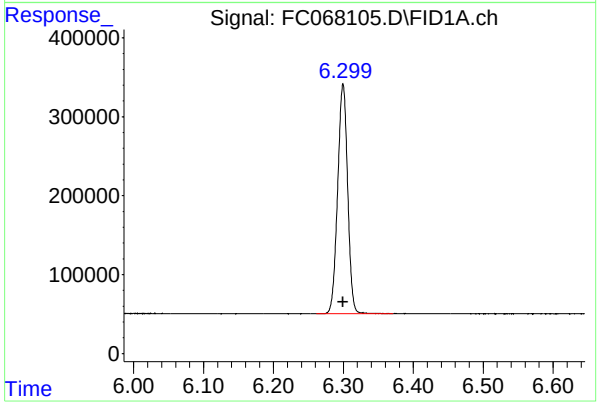
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: 0.000 min
Response: 2861961
Conc: 20.00 ug/ml



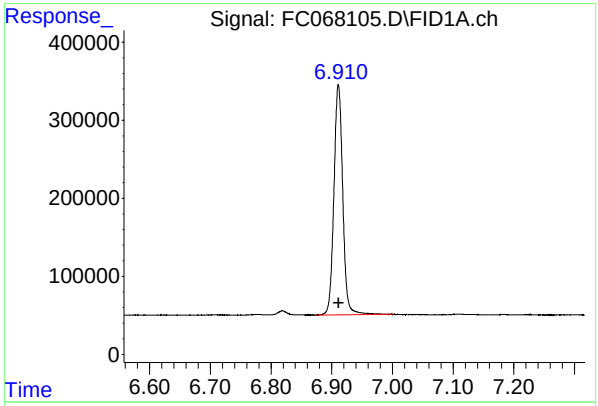
#3 A~Naphthalene (C11.7)

R.T.: 5.859 min
Delta R.T.: 0.000 min
Response: 3109613
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

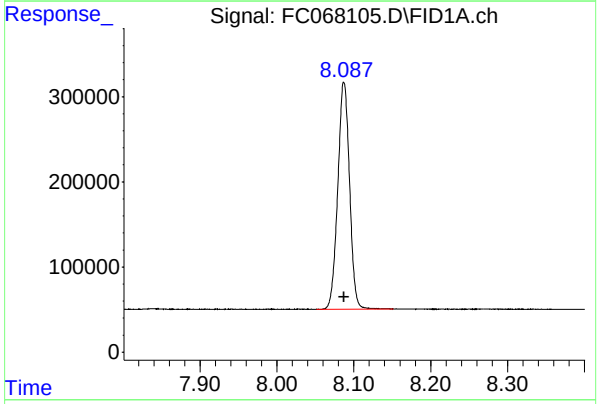
R.T.: 6.300 min
Delta R.T.: 0.000 min
Response: 2888346
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

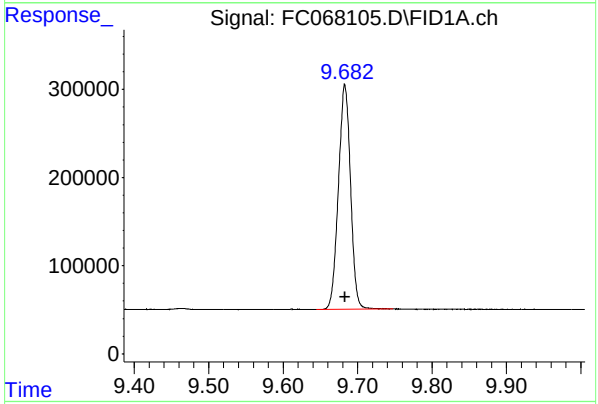
R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 2994869
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



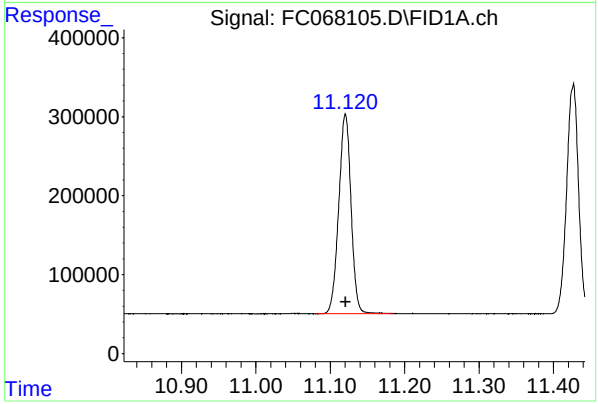
#6 n-Tetradecane (C14)

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 2828524
Conc: 20.00 ug/ml



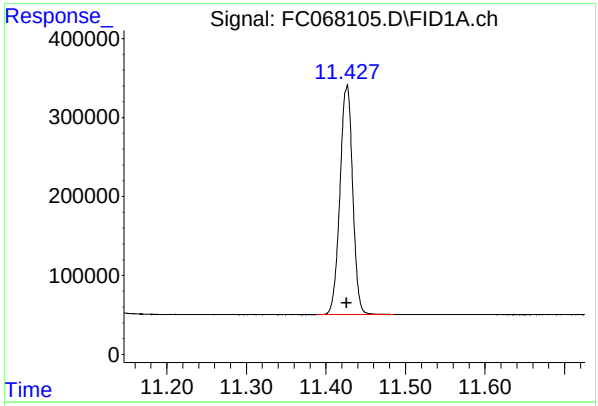
#7 n-Hexadecane (C16)

R.T.: 9.683 min
Delta R.T.: 0.000 min
Response: 2884335
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

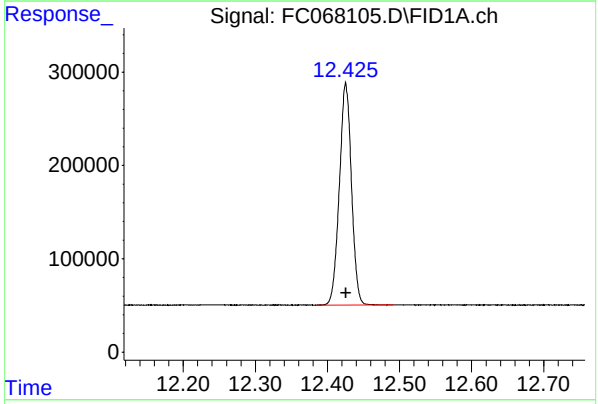
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 2905661
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

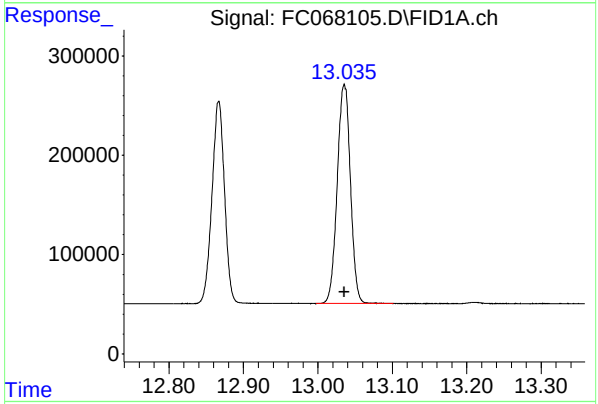
R.T.: 11.426 min
Delta R.T.: 0.000 min
Response: 3231539
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



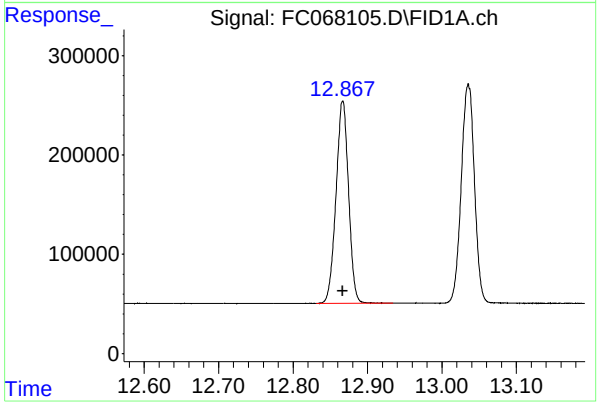
#10 n-Eicosane (C20)

R.T.: 12.426 min
Delta R.T.: 0.000 min
Response: 2775623
Conc: 20.00 ug/ml



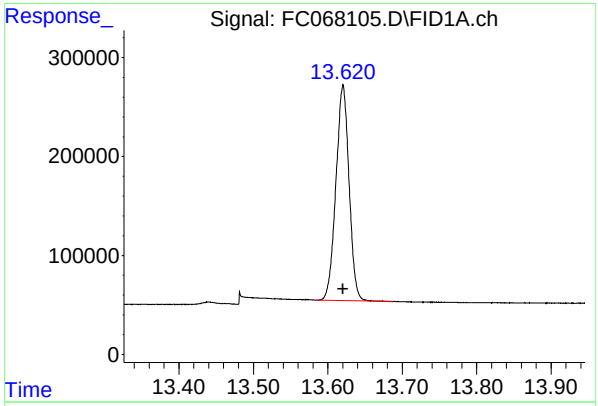
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 2722823
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

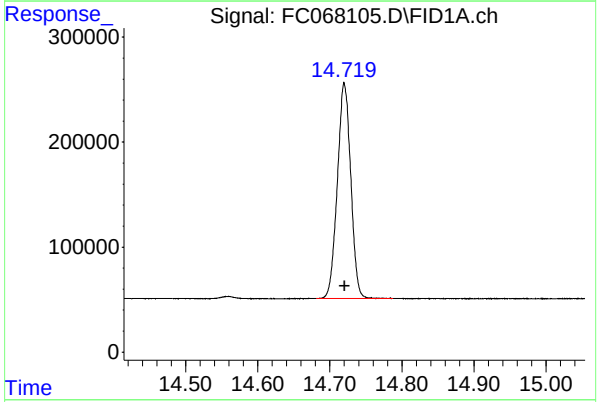
R.T.: 12.867 min
Delta R.T.: 0.000 min
Response: 2389546
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

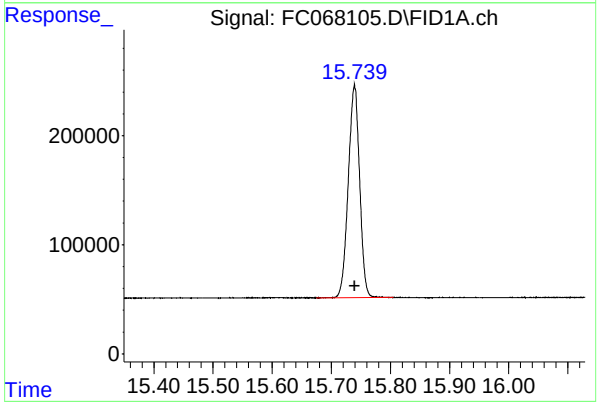
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 2671035
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



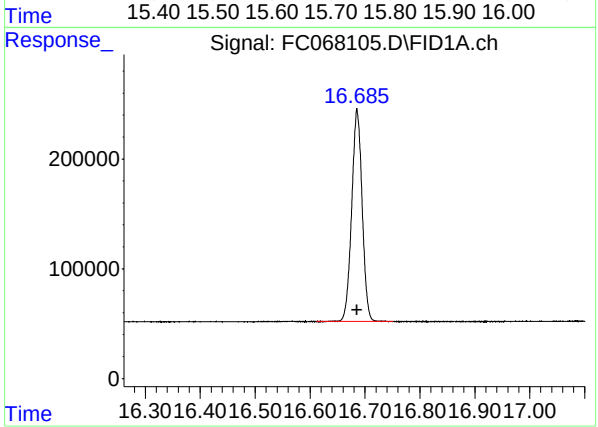
#14 n-Tetracosane (C24)

R.T.: 14.720 min
Delta R.T.: 0.000 min
Response: 2655805
Conc: 20.00 ug/ml



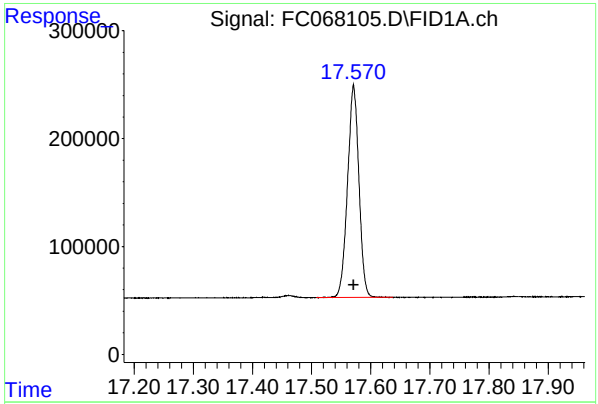
#15 n-Hexacosane (C26)

R.T.: 15.739 min
Delta R.T.: 0.000 min
Response: 2602198
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

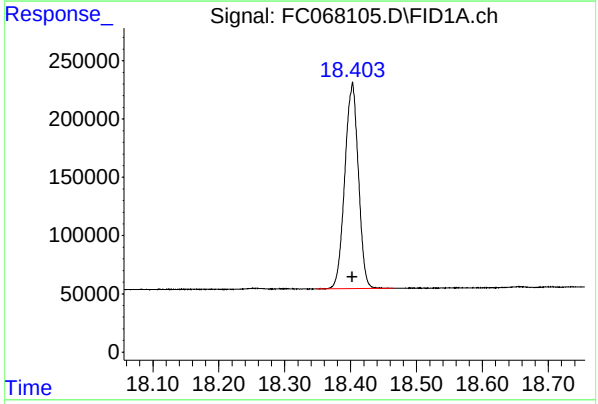
R.T.: 16.686 min
Delta R.T.: 0.000 min
Response: 2559534
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

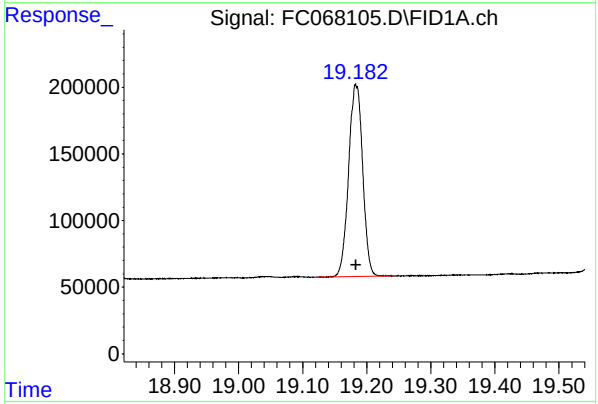
R.T.: 17.571 min
Delta R.T.: 0.000 min
Response: 2631800
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



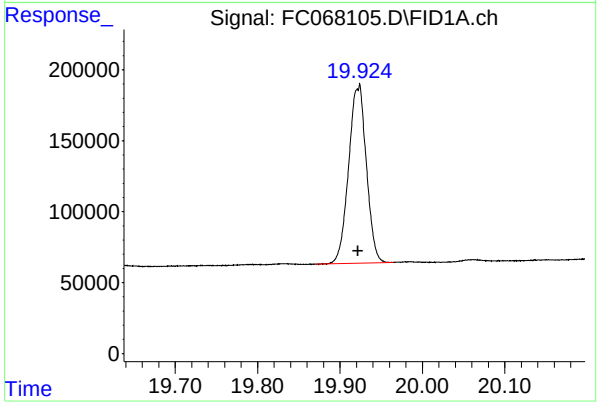
#18 n-Dotriacontane (C32)

R.T.: 18.402 min
Delta R.T.: 0.000 min
Response: 2526641
Conc: 20.00 ug/ml



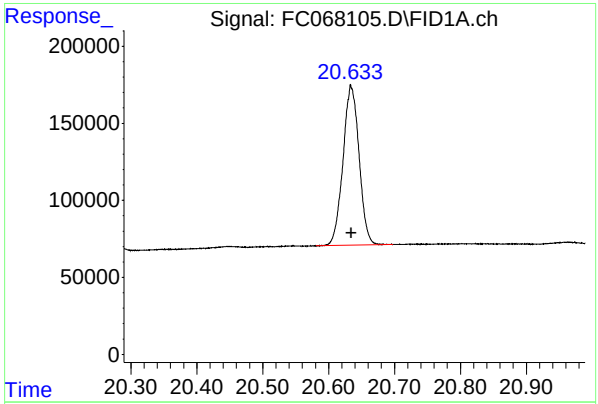
#19 n-Tetratriacontane (C34)

R.T.: 19.183 min
Delta R.T.: 0.000 min
Response: 2198499
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

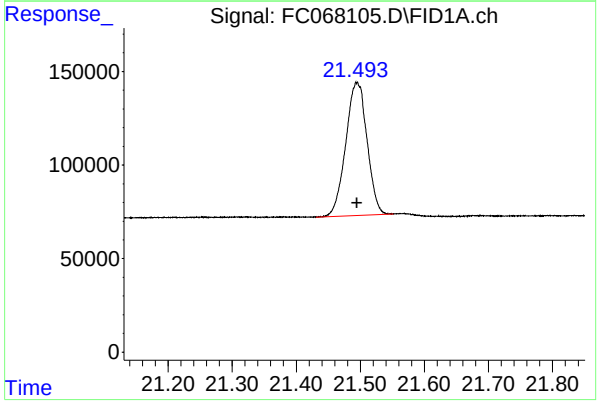
R.T.: 19.922 min
Delta R.T.: 0.000 min
Response: 1877473
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.634 min
Delta R.T.: 0.000 min
Response: 1756021
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.495 min
Delta R.T.: 0.000 min
Response: 1636652
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068105.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:58
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.233	3.204	3.294	BB	327194	2810367	86.97%	4.886%
2	4.291	4.254	4.354	BB	316289	2861961	88.56%	4.976%
3	5.859	5.828	5.944	BB	331378	3109613	96.23%	5.406%
4	6.300	6.261	6.371	BB	291129	2888346	89.38%	5.022%
5	6.911	6.874	7.001	BB	294657	2994869	92.68%	5.207%
6	8.087	8.051	8.151	BB	267213	2828524	87.53%	4.918%
7	9.683	9.644	9.748	BB	252616	2884335	89.26%	5.015%
8	11.120	11.081	11.184	BB	252573	2905661	89.92%	5.052%
9	11.426	11.388	11.484	BB	292475	3231539	100.00%	5.618%
10	12.426	12.384	12.491	BB	237052	2775623	85.89%	4.826%
11	12.867	12.831	12.934	BB	204470	2389546	73.94%	4.154%
12	13.035	12.998	13.101	BB	221132	2722823	84.26%	4.734%
13	13.620	13.584	13.688	BB	216950	2671035	82.66%	4.644%
14	14.720	14.681	14.788	BB	203668	2655805	82.18%	4.617%
15	15.739	15.674	15.804	BB	193474	2602198	80.53%	4.524%
16	16.686	16.611	16.751	BB	191675	2559534	79.20%	4.450%
17	17.571	17.508	17.638	BB	195840	2631800	81.44%	4.576%
18	18.402	18.348	18.464	BB	172625	2526641	78.19%	4.393%
19	19.183	19.121	19.241	BB	143315	2198499	68.03%	3.822%
20	19.922	19.871	19.964	BB	123626	1877473	58.10%	3.264%
21	20.634	20.581	20.698	BB	103180	1756021	54.34%	3.053%
22	21.495	21.431	21.551	BB	71090	1636652	50.65%	2.845%
			Sum of corrected areas:			57518864		

Aliphatic EPH 012425.M Sat Jan 25 04:55:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068106.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 10:34
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 25 04:21:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.425	1693195	10.479 ug/ml
Spiked Amount	50.000		Recovery =	20.96%
12) S	1-chlorooctadecane (S...	12.865	1244032	10.412 ug/ml
Spiked Amount	50.000		Recovery =	20.82%
	Target Compounds			
1) T	n-Nonane (C9)	3.232	1475263	10.499 ug/ml
2) T	n-Decane (C10)	4.291	1496558	10.458 ug/ml
3) T	A~Naphthalene (C11.7)	5.859	1594666	10.256 ug/ml
4) T	n-Dodecane (C12)	6.299	1504156	10.415 ug/ml
5) T	A~2-methylnaphthalene...	6.911	1531057	10.225 ug/ml
6) T	n-Tetradecane (C14)	8.087	1470817	10.400 ug/ml
7) T	n-Hexadecane (C16)	9.682	1497439	10.383 ug/ml
8) T	n-Octadecane (C18)	11.120	1516982	10.442 ug/ml
10) T	n-Eicosane (C20)	12.424	1453910	10.476 ug/ml
11) T	n-Heneicosane (C21)	13.035	1431349	10.514 ug/ml
13) T	n-Docosane (C22)	13.620	1411126	10.566 ug/ml
14) T	n-Tetracosane (C24)	14.719	1400111	10.544 ug/ml
15) T	n-Hexacosane (C26)	15.737	1370317	10.532 ug/ml
16) T	n-Octacosane (C28)	16.685	1362142	10.644 ug/ml
17) T	n-Tricontane (C30)	17.570	1402454	10.658 ug/ml
18) T	n-Dotriacontane (C32)	18.401	1354078	10.718 ug/ml
19) T	n-Tetratriacontane (C34)	19.183	1175638	10.695 ug/ml
20) T	n-Hexatriacontane (C36)	19.921	1013341	10.795 ug/ml
21) T	n-Octatriacontane (C38)	20.635	924019	10.524 ug/ml
22) T	n-Tetracontane (C40)	21.497	872323	10.660 ug/ml

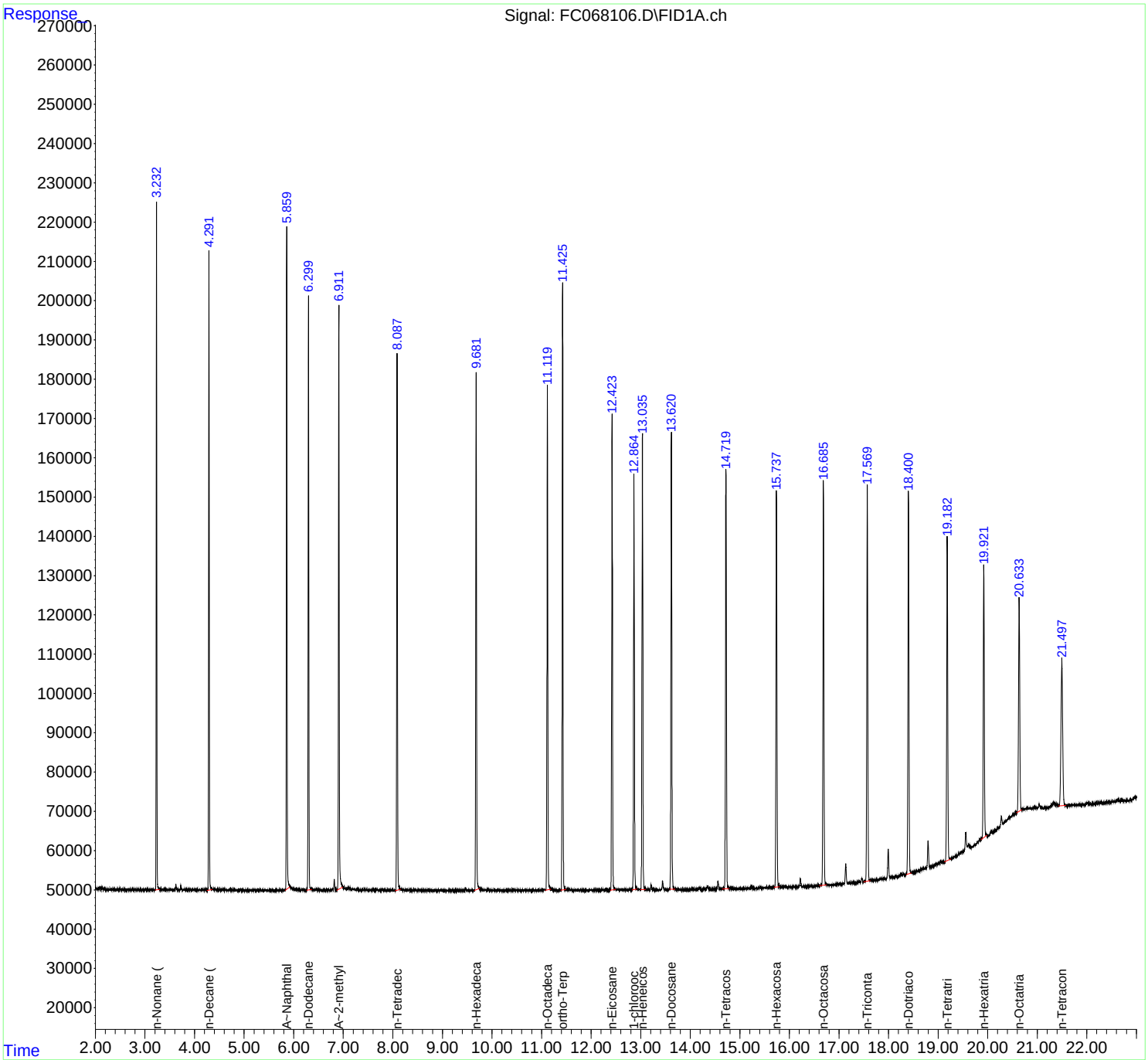
(f)=RT Delta > 1/2 Window (m)=manual int.

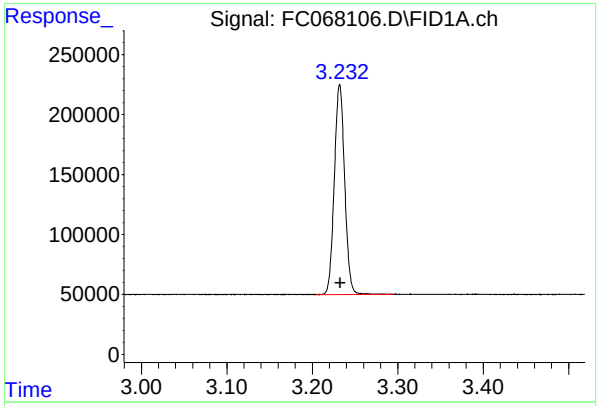
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068106.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 10:34
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 25 04:21:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

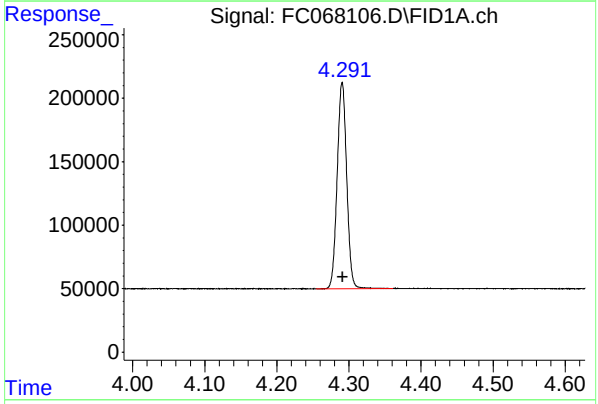




#1 n-Nonane (C9)

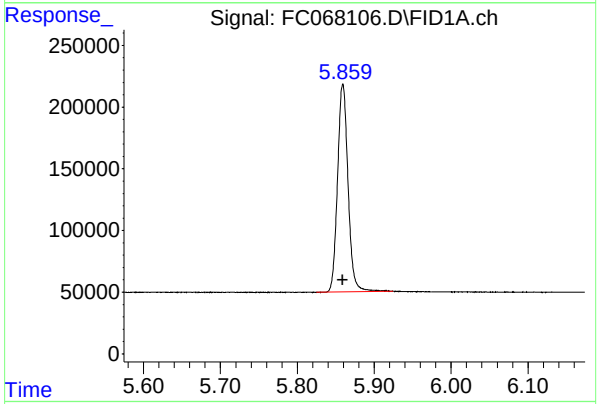
R.T.: 3.232 min
Delta R.T.: 0.000 min
Response: 1475263
Conc: 10.50 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



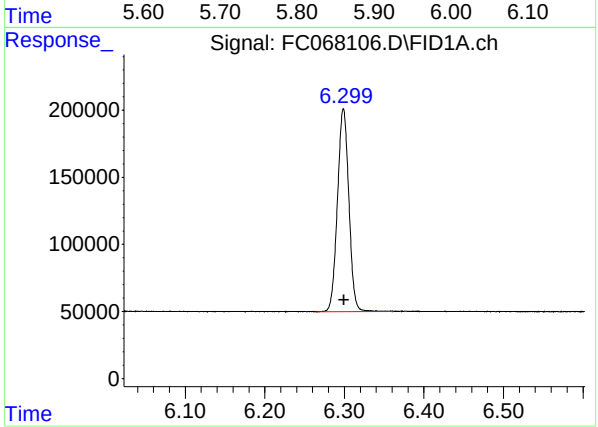
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: 0.000 min
Response: 1496558
Conc: 10.46 ug/ml



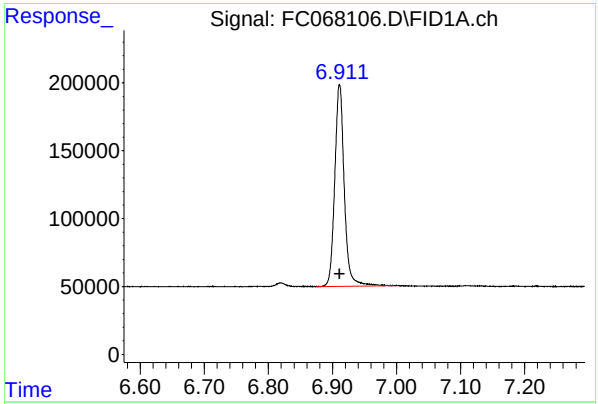
#3 A~Naphthalene (C11.7)

R.T.: 5.859 min
Delta R.T.: 0.000 min
Response: 1594666
Conc: 10.26 ug/ml



#4 n-Dodecane (C12)

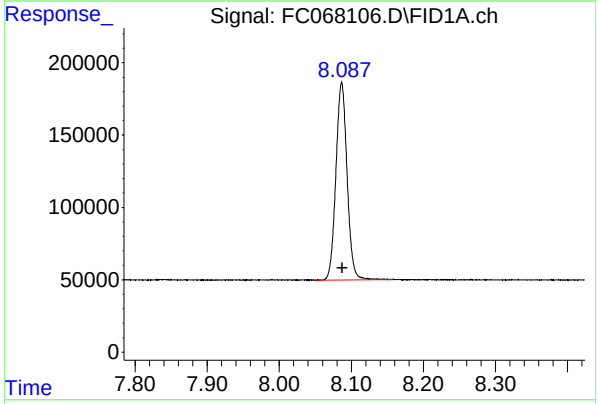
R.T.: 6.299 min
Delta R.T.: 0.000 min
Response: 1504156
Conc: 10.42 ug/ml



#5 A~2-methylnaphthalene (C12.89)

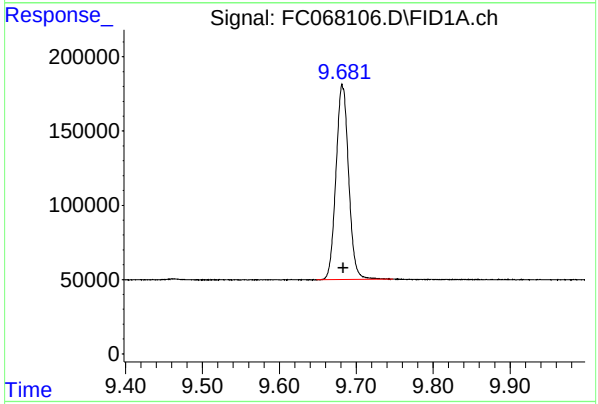
R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 1531057
Conc: 10.22 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



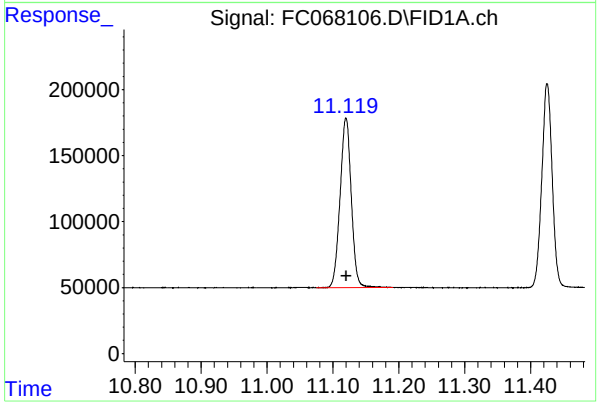
#6 n-Tetradecane (C14)

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 1470817
Conc: 10.40 ug/ml



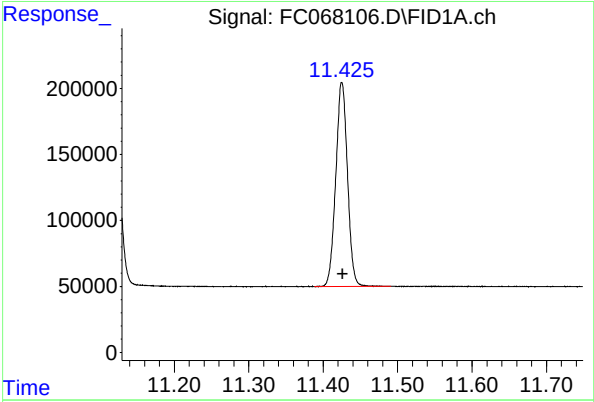
#7 n-Hexadecane (C16)

R.T.: 9.682 min
Delta R.T.: 0.000 min
Response: 1497439
Conc: 10.38 ug/ml



#8 n-Octadecane (C18)

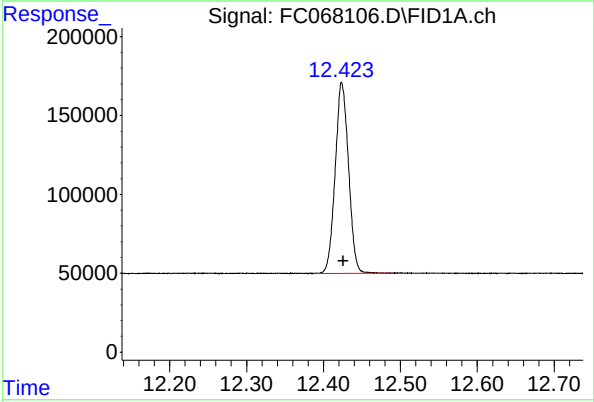
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 1516982
Conc: 10.44 ug/ml



#9 ortho-Terphenyl (SURR)

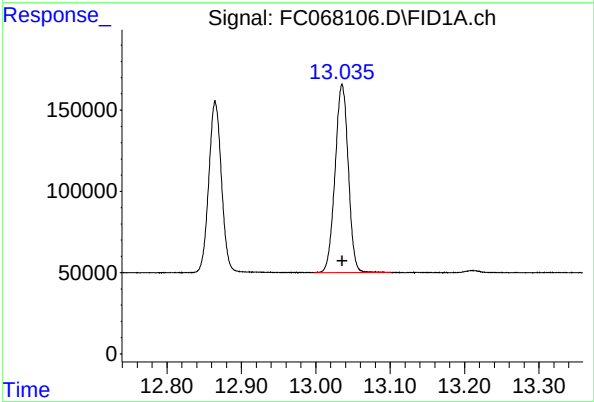
R.T.: 11.425 min
Delta R.T.: -0.001 min
Response: 1693195
Conc: 10.48 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



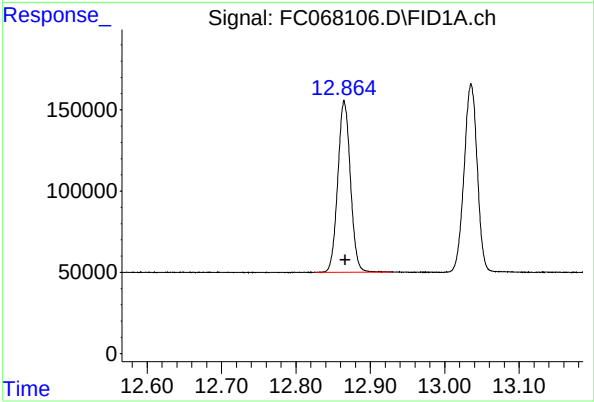
#10 n-Eicosane (C20)

R.T.: 12.424 min
Delta R.T.: -0.001 min
Response: 1453910
Conc: 10.48 ug/ml



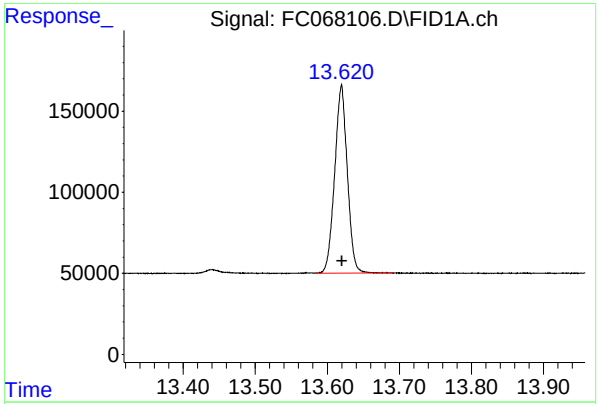
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 1431349
Conc: 10.51 ug/ml



#12 1-chlorooctadecane (SURR)

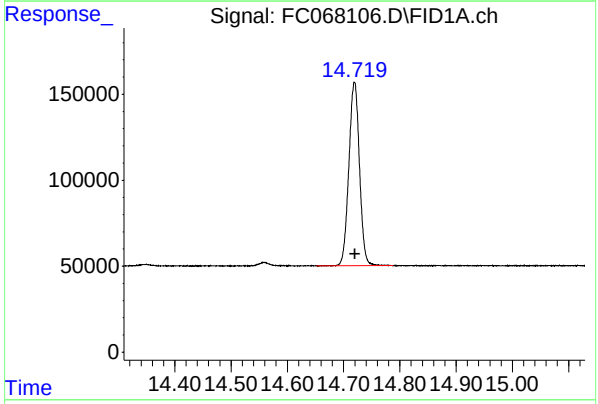
R.T.: 12.865 min
Delta R.T.: -0.002 min
Response: 1244032
Conc: 10.41 ug/ml



#13 n-Docosane (C22)

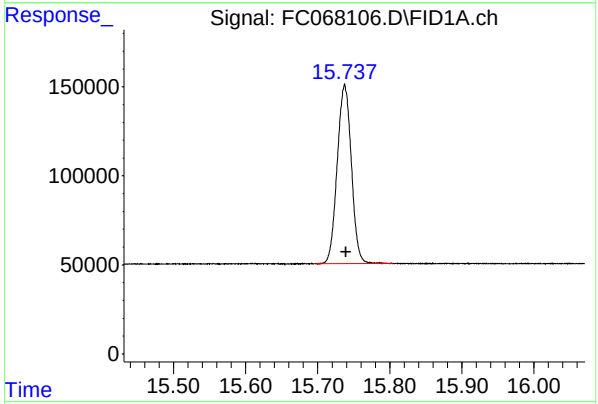
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 1411126
Conc: 10.57 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



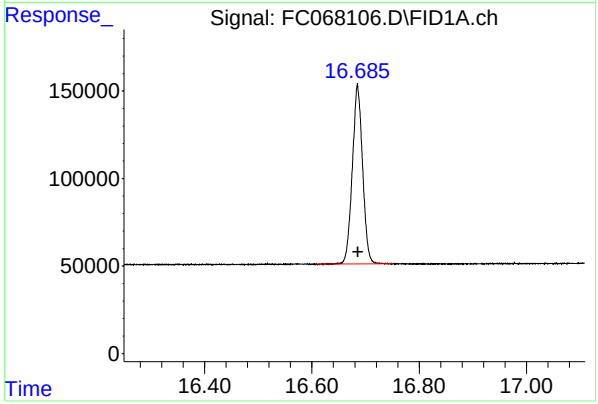
#14 n-Tetracosane (C24)

R.T.: 14.719 min
Delta R.T.: 0.000 min
Response: 1400111
Conc: 10.54 ug/ml



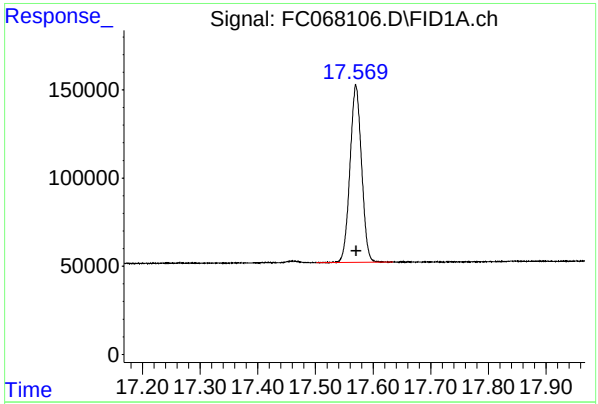
#15 n-Hexacosane (C26)

R.T.: 15.737 min
Delta R.T.: -0.002 min
Response: 1370317
Conc: 10.53 ug/ml



#16 n-Octacosane (C28)

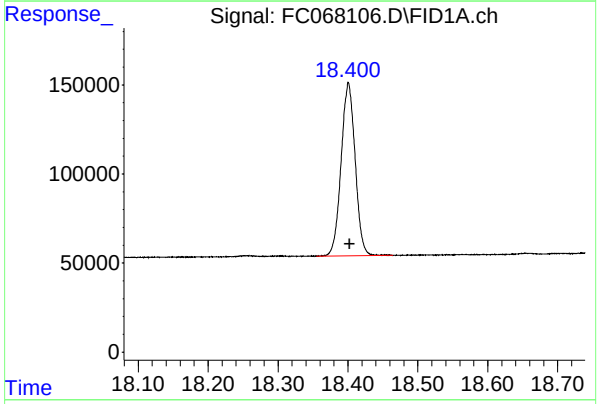
R.T.: 16.685 min
Delta R.T.: 0.000 min
Response: 1362142
Conc: 10.64 ug/ml



#17 n-Tricontane (C30)

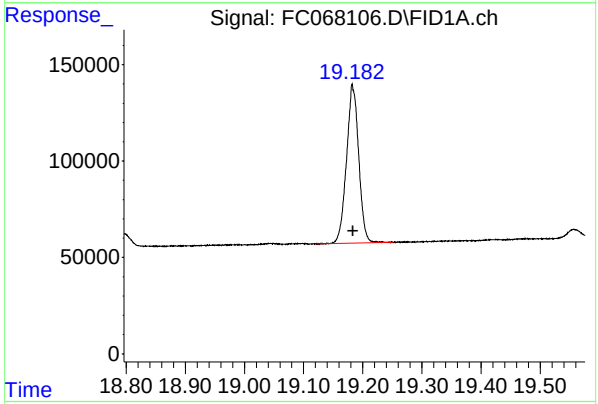
R.T.: 17.570 min
Delta R.T.: 0.000 min
Response: 1402454
Conc: 10.66 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



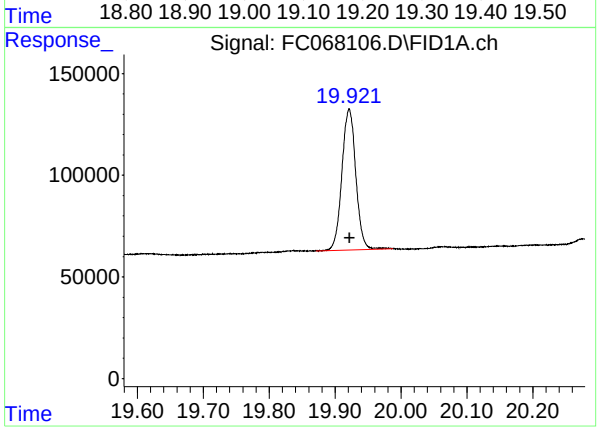
#18 n-Dotriacontane (C32)

R.T.: 18.401 min
Delta R.T.: -0.002 min
Response: 1354078
Conc: 10.72 ug/ml



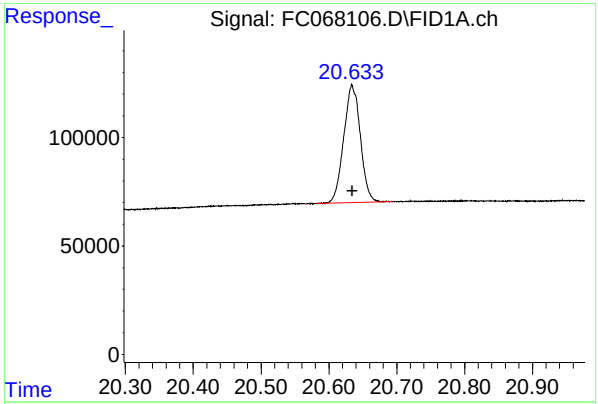
#19 n-Tetratriacontane (C34)

R.T.: 19.183 min
Delta R.T.: 0.000 min
Response: 1175638
Conc: 10.69 ug/ml



#20 n-Hexatriacontane (C36)

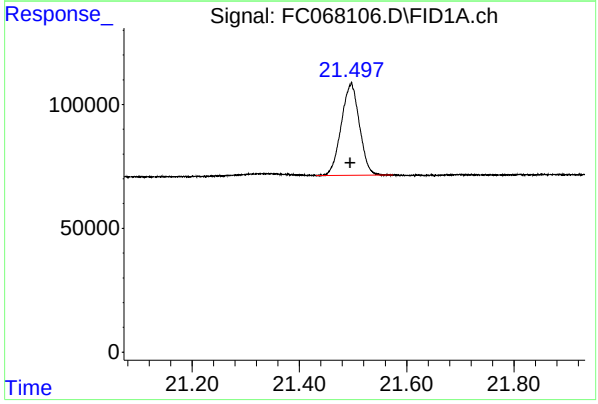
R.T.: 19.921 min
Delta R.T.: 0.000 min
Response: 1013341
Conc: 10.79 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.635 min
Delta R.T.: 0.000 min
Response: 924019
Conc: 10.52 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.497 min
Delta R.T.: 0.002 min
Response: 872323
Conc: 10.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068106.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 10:34
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.232	3.204	3.294	BB	173891	1475263	87.13%	4.886%
2	4.291	4.254	4.361	BB	162720	1496558	88.39%	4.956%
3	5.859	5.824	5.924	BB	168195	1594666	94.18%	5.281%
4	6.299	6.264	6.361	BB	150731	1504156	88.84%	4.981%
5	6.911	6.874	6.994	BB	149273	1531057	90.42%	5.071%
6	8.087	8.051	8.158	BB	136084	1470817	86.87%	4.871%
7	9.682	9.648	9.748	BB	131211	1497439	88.44%	4.959%
8	11.120	11.074	11.191	BB	128815	1516982	89.59%	5.024%
9	11.425	11.388	11.491	BB	155292	1693195	100.00%	5.608%
10	12.424	12.388	12.488	BB	120109	1453910	85.87%	4.815%
11	12.865	12.824	12.928	BB	105028	1244032	73.47%	4.120%
12	13.035	12.998	13.101	BB	115485	1431349	84.54%	4.740%
13	13.620	13.584	13.691	BB	115583	1411126	83.34%	4.673%
14	14.719	14.651	14.788	BB	106542	1400111	82.69%	4.637%
15	15.737	15.698	15.804	BB	100036	1370317	80.93%	4.538%
16	16.685	16.608	16.751	BB	102147	1362142	80.45%	4.511%
17	17.570	17.501	17.634	BB	100184	1402454	82.83%	4.645%
18	18.401	18.354	18.464	BB	97240	1354078	79.97%	4.484%
19	19.183	19.121	19.251	BB	79568	1175638	69.43%	3.893%
20	19.921	19.871	19.988	BB	69262	1013341	59.85%	3.356%
21	20.635	20.581	20.694	BB	53776	924019	54.57%	3.060%
22	21.497	21.431	21.574	BB	37309	872323	51.52%	2.889%

Sum of corrected areas: 30194970

Aliphatic EPH 012425.M Sat Jan 25 04:56:01 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068107.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:10
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jan 25 04:22:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.425	791222	4.897 ug/ml
Spiked Amount	50.000		Recovery =	9.79%
12) S	1-chlorooctadecane (S...	12.866	575543	4.817 ug/ml
Spiked Amount	50.000		Recovery =	9.63%
	Target Compounds			
1) T	n-Nonane (C9)	3.233	694002	4.939 ug/ml
2) T	n-Decane (C10)	4.291	696954	4.870 ug/ml
3) T	A~Naphthalene (C11.7)	5.860	735461	4.730 ug/ml
4) T	n-Dodecane (C12)	6.298	701967	4.861 ug/ml
5) T	A~2-methylnaphthalene...	6.912	679817	4.540 ug/ml
6) T	n-Tetradecane (C14)	8.087	678873	4.800 ug/ml
7) T	n-Hexadecane (C16)	9.682	690786	4.790 ug/ml
8) T	n-Octadecane (C18)	11.119	701017	4.825 ug/ml
10) T	n-Eicosane (C20)	12.425	676915	4.878 ug/ml
11) T	n-Heneicosane (C21)	13.035	664598	4.882 ug/ml
13) T	n-Docosane (C22)	13.620	653737	4.895 ug/ml
14) T	n-Tetracosane (C24)	14.720	647347	4.875 ug/ml
15) T	n-Hexacosane (C26)	15.738	640168	4.920 ug/ml
16) T	n-Octacosane (C28)	16.685	660648	5.162 ug/ml
17) T	n-Tricontane (C30)	17.571	717917	5.456 ug/ml
18) T	n-Dotriacontane (C32)	18.400	712580	5.641 ug/ml
19) T	n-Tetratriacontane (C34)	19.183	604670	5.501 ug/ml
20) T	n-Hexatriacontane (C36)	19.922	497419	5.299 ug/ml
21) T	n-Octatriacontane (C38)	20.635	450417	5.130 ug/ml
22) T	n-Tetracontane (C40)	21.497	416329	5.088 ug/ml

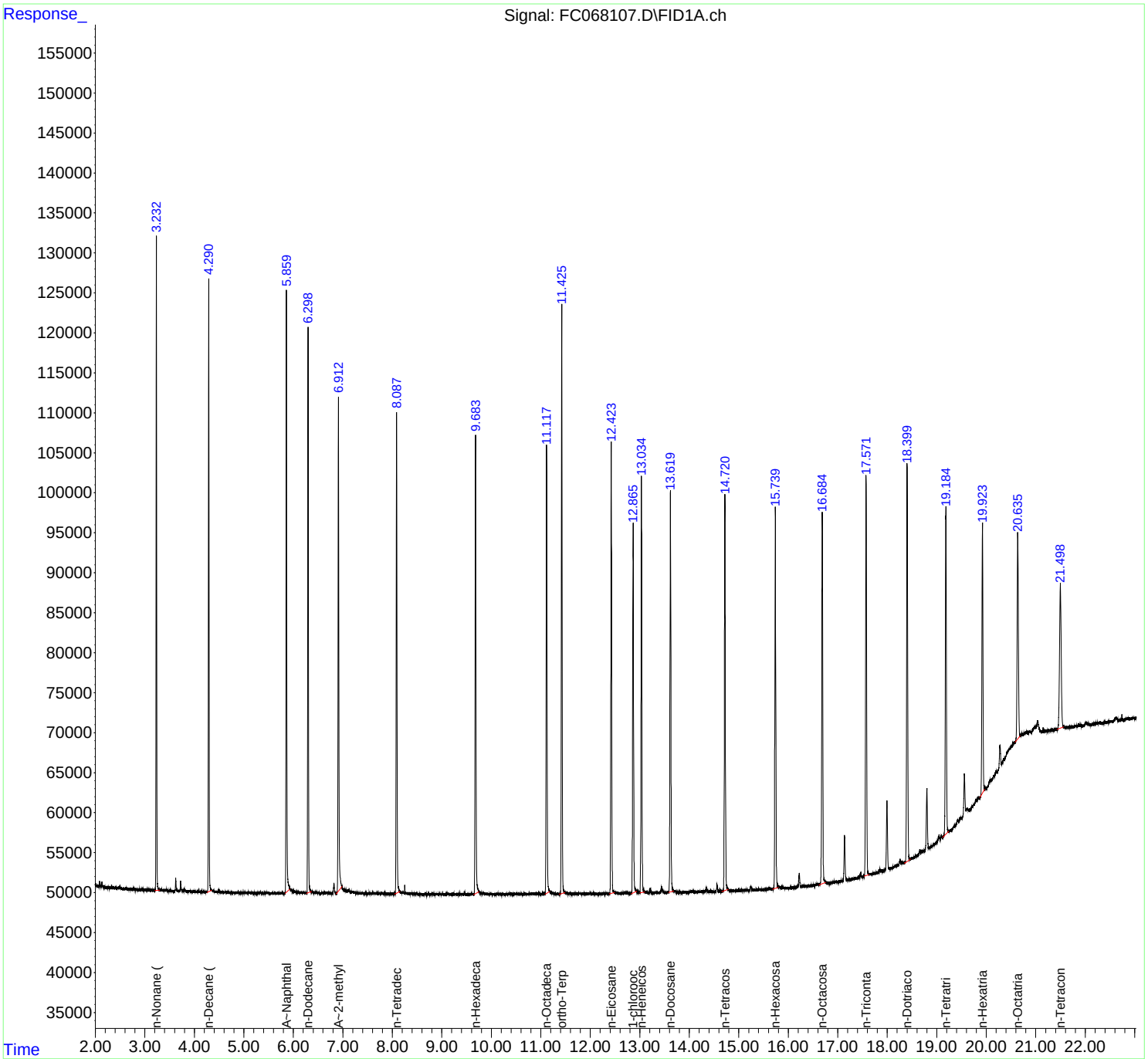
(f)=RT Delta > 1/2 Window (m)=manual int.

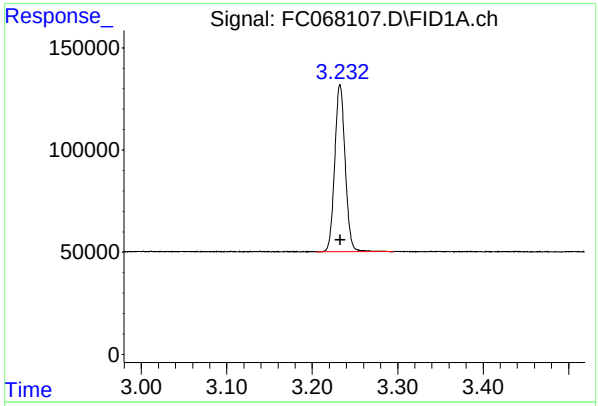
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068107.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:10
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jan 25 04:22:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

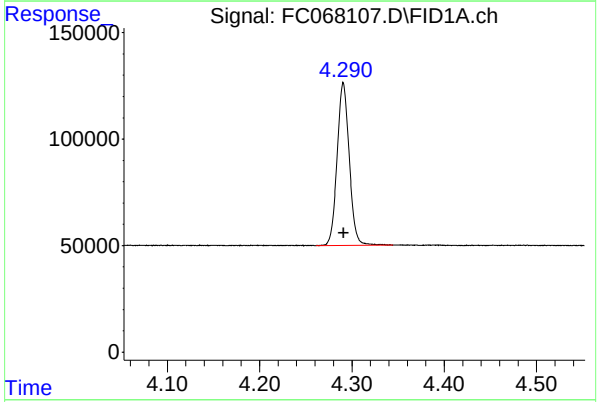




#1 n-Nonane (C9)

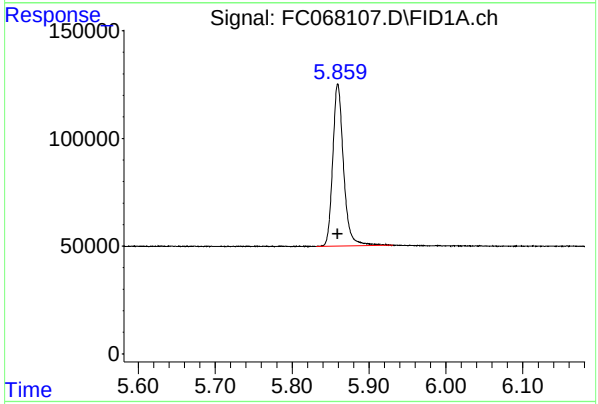
R.T.: 3.233 min
Delta R.T.: 0.000 min
Response: 694002
Conc: 4.94 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



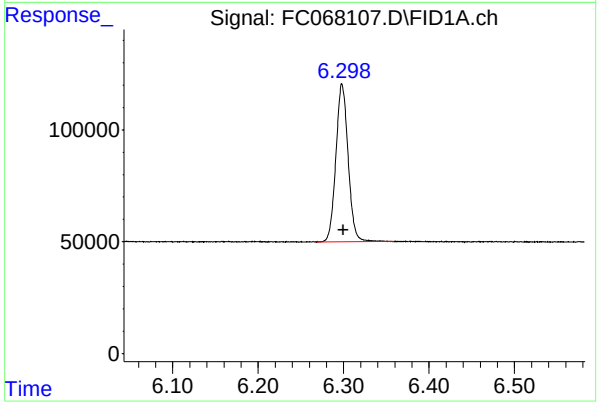
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: 0.000 min
Response: 696954
Conc: 4.87 ug/ml



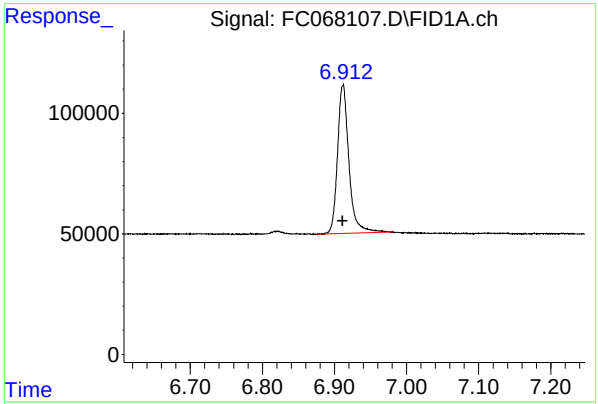
#3 A~Naphthalene (C11.7)

R.T.: 5.860 min
Delta R.T.: 0.000 min
Response: 735461
Conc: 4.73 ug/ml



#4 n-Dodecane (C12)

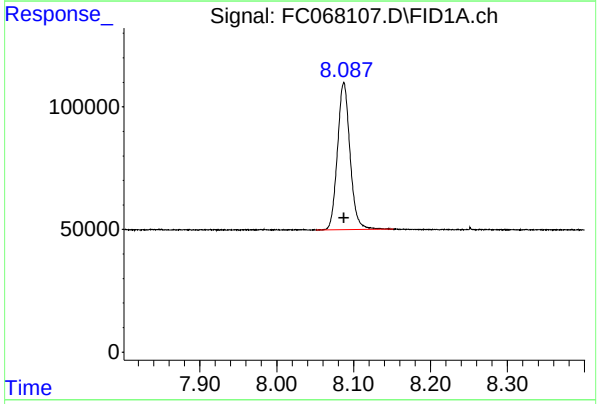
R.T.: 6.298 min
Delta R.T.: -0.001 min
Response: 701967
Conc: 4.86 ug/ml



#5 A~2-methylnaphthalene (C12.89)

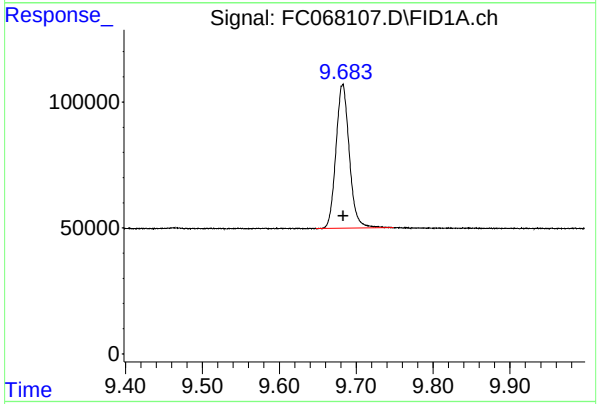
R.T.: 6.912 min
Delta R.T.: 0.000 min
Response: 679817
Conc: 4.54 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



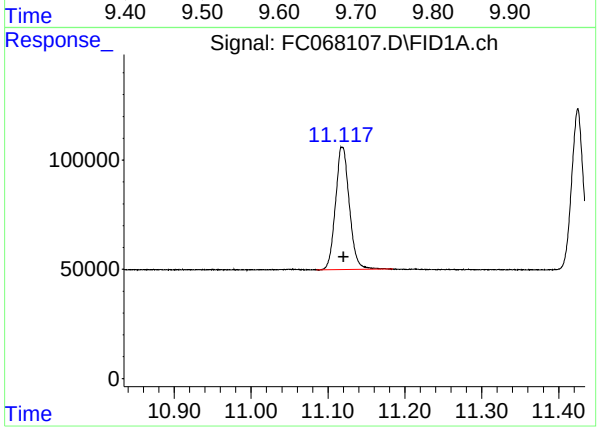
#6 n-Tetradecane (C14)

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 678873
Conc: 4.80 ug/ml



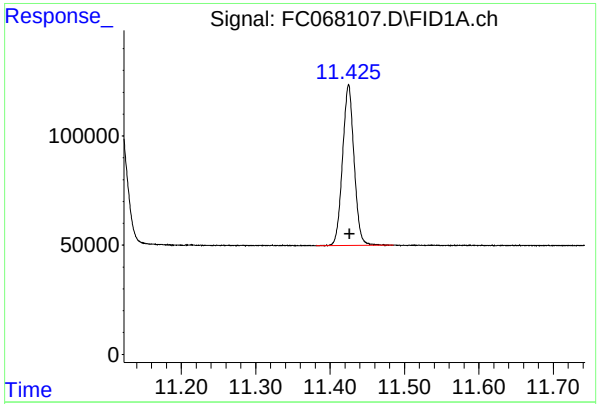
#7 n-Hexadecane (C16)

R.T.: 9.682 min
Delta R.T.: 0.000 min
Response: 690786
Conc: 4.79 ug/ml



#8 n-Octadecane (C18)

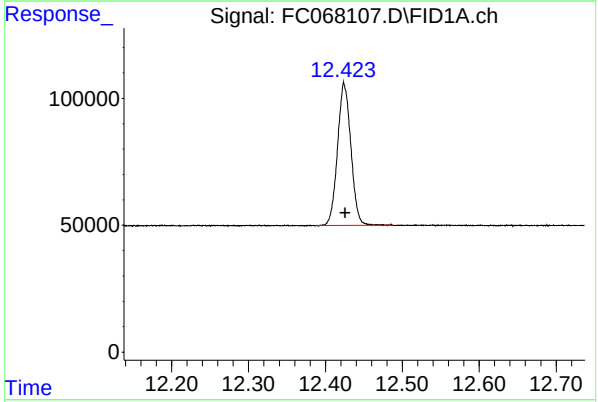
R.T.: 11.119 min
Delta R.T.: -0.002 min
Response: 701017
Conc: 4.83 ug/ml



#9 ortho-Terphenyl (SURR)

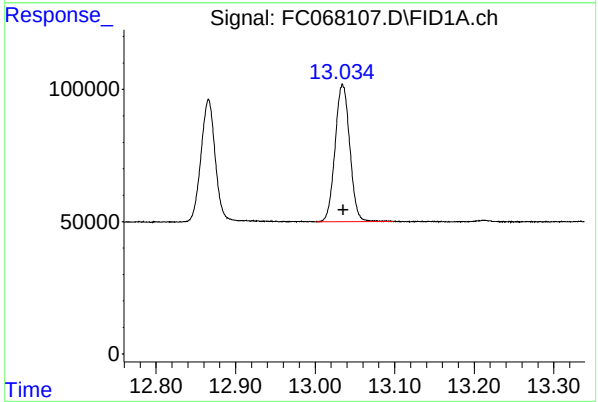
R.T.: 11.425 min
Delta R.T.: -0.001 min
Response: 791222
Conc: 4.90 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



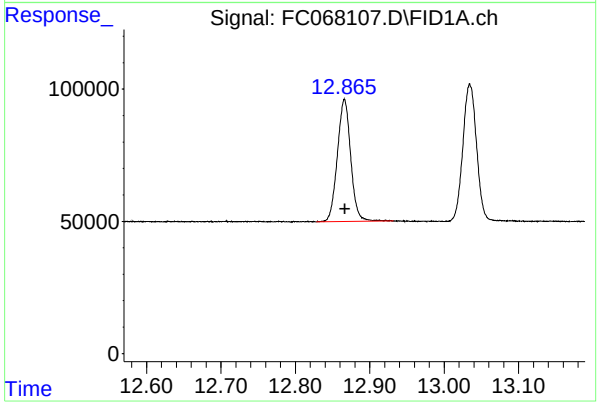
#10 n-Eicosane (C20)

R.T.: 12.425 min
Delta R.T.: 0.000 min
Response: 676915
Conc: 4.88 ug/ml



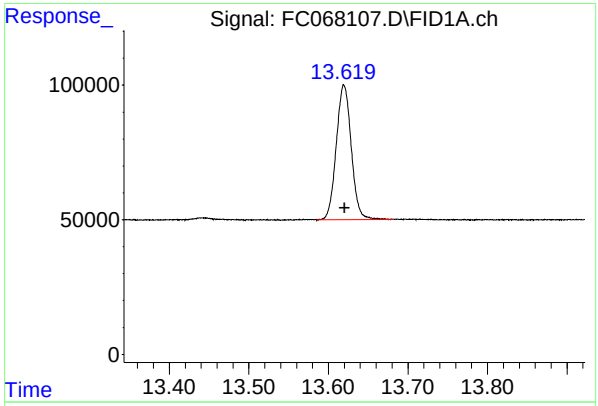
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 664598
Conc: 4.88 ug/ml



#12 1-chlorooctadecane (SURR)

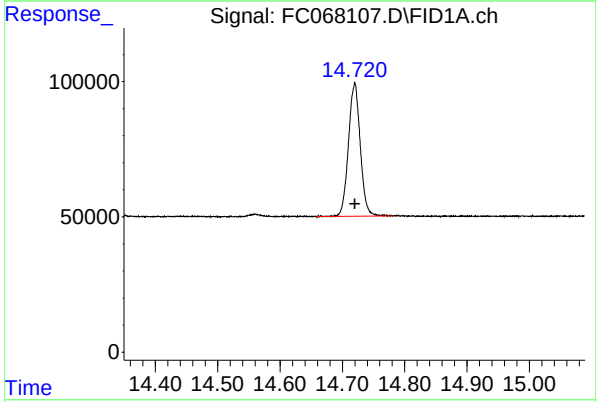
R.T.: 12.866 min
Delta R.T.: 0.000 min
Response: 575543
Conc: 4.82 ug/ml



#13 n-Docosane (C22)

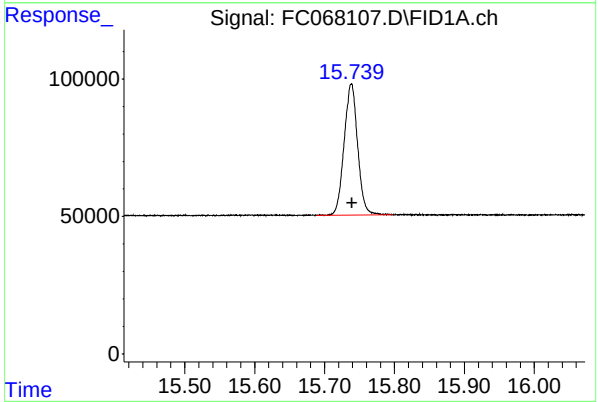
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 653737
Conc: 4.90 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



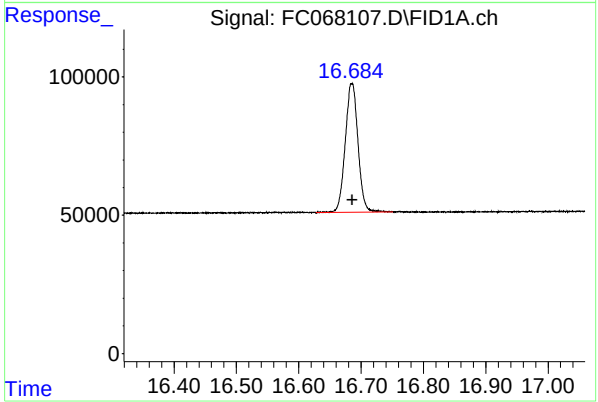
#14 n-Tetracosane (C24)

R.T.: 14.720 min
Delta R.T.: 0.000 min
Response: 647347
Conc: 4.87 ug/ml



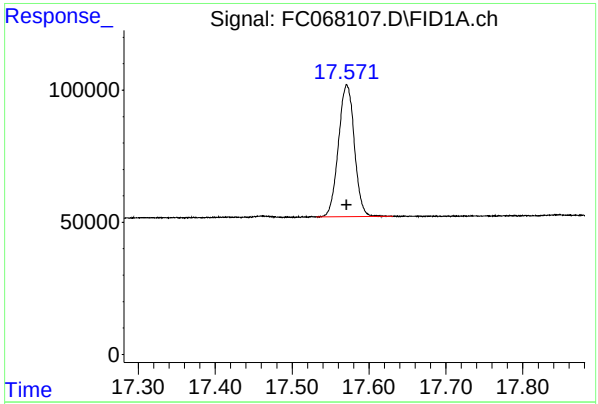
#15 n-Hexacosane (C26)

R.T.: 15.738 min
Delta R.T.: 0.000 min
Response: 640168
Conc: 4.92 ug/ml



#16 n-Octacosane (C28)

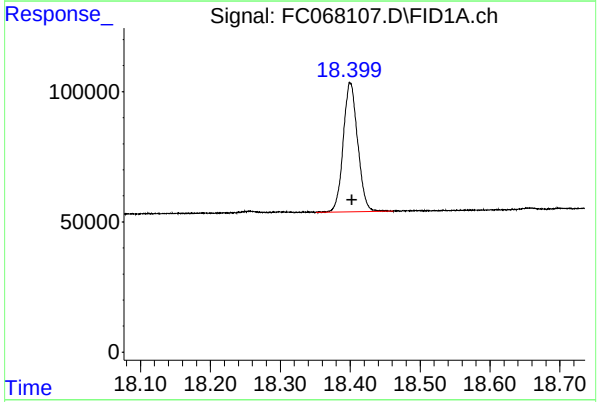
R.T.: 16.685 min
Delta R.T.: 0.000 min
Response: 660648
Conc: 5.16 ug/ml



#17 n-Tricontane (C30)

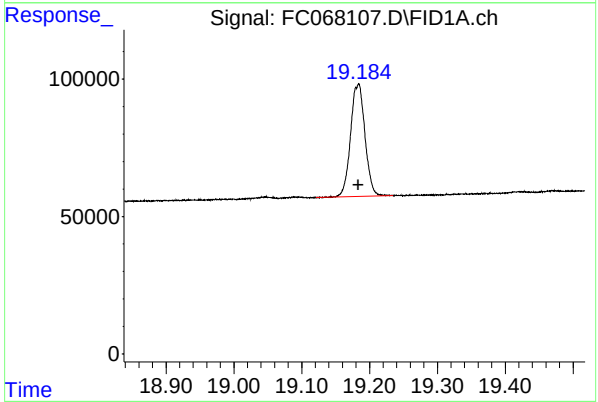
R.T.: 17.571 min
Delta R.T.: 0.000 min
Response: 717917
Conc: 5.46 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



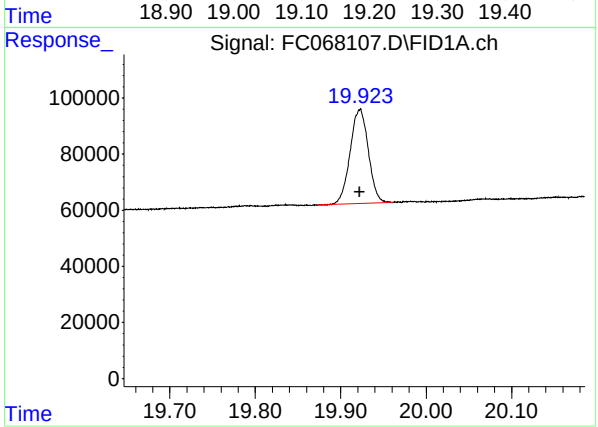
#18 n-Dotriacontane (C32)

R.T.: 18.400 min
Delta R.T.: -0.002 min
Response: 712580
Conc: 5.64 ug/ml



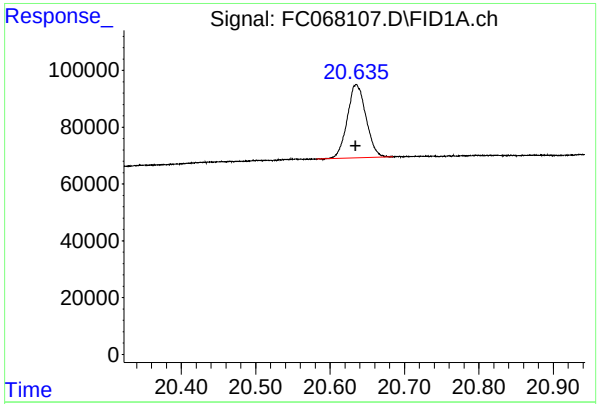
#19 n-Tetratriacontane (C34)

R.T.: 19.183 min
Delta R.T.: 0.000 min
Response: 604670
Conc: 5.50 ug/ml



#20 n-Hexatriacontane (C36)

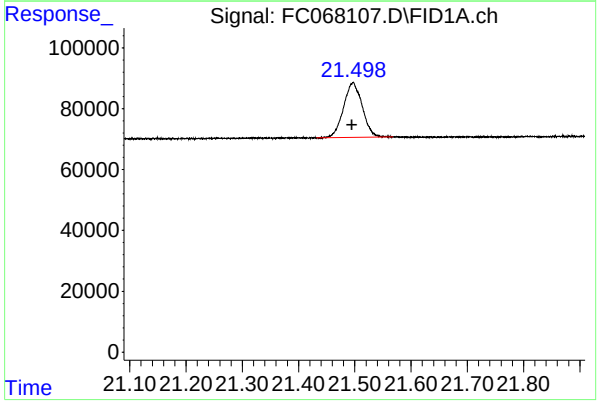
R.T.: 19.922 min
Delta R.T.: 0.000 min
Response: 497419
Conc: 5.30 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.635 min
Delta R.T.: 0.001 min
Response: 450417
Conc: 5.13 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.497 min
Delta R.T.: 0.002 min
Response: 416329
Conc: 5.09 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068107.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:10
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.233	3.205	3.295	BB	81211	694002	87.71%	4.857%
2	4.291	4.261	4.345	BB	76093	696954	88.09%	4.878%
3	5.860	5.831	5.931	BB	74115	735461	92.95%	5.147%
4	6.298	6.268	6.358	BB	70358	701967	88.72%	4.913%
5	6.912	6.875	6.981	BB	61540	679817	85.92%	4.758%
6	8.087	8.051	8.151	BB	59884	678873	85.80%	4.751%
7	9.682	9.648	9.748	BB	57178	690786	87.31%	4.835%
8	11.119	11.085	11.185	BB	56462	701017	88.60%	4.906%
9	11.425	11.381	11.485	BB	73366	791222	100.00%	5.538%
10	12.425	12.388	12.488	BB	55734	676915	85.55%	4.738%
11	12.866	12.828	12.931	BB	45879	575543	72.74%	4.028%
12	13.035	13.001	13.098	BB	51716	664598	84.00%	4.651%
13	13.620	13.585	13.681	BB	49760	653737	82.62%	4.575%
14	14.720	14.658	14.781	BB	49743	647347	81.82%	4.531%
15	15.738	15.688	15.798	BB	47829	640168	80.91%	4.480%
16	16.685	16.628	16.751	BB	46740	660648	83.50%	4.624%
17	17.571	17.531	17.631	BB	49806	717917	90.74%	5.024%
18	18.400	18.351	18.461	BB	49533	712580	90.06%	4.987%
19	19.183	19.121	19.235	BB	41551	604670	76.42%	4.232%
20	19.922	19.871	19.961	BB	33283	497419	62.87%	3.481%
21	20.635	20.581	20.685	BB	25685	450417	56.93%	3.152%
22	21.497	21.431	21.568	BB	18210	416329	52.62%	2.914%
			Sum of corrected areas:			14288387		

Aliphatic EPH 012425.M Sat Jan 25 04:56:17 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068108.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:46
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 25 04:32:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.426	3210149	20.543 ug/ml
Spiked Amount	50.000		Recovery =	41.09%
12) S	1-chlorooctadecane (S...	12.866	2353417	20.464 ug/ml
Spiked Amount	50.000		Recovery =	40.93%
	Target Compounds			
1) T	n-Nonane (C9)	3.233	2856850	20.863 ug/ml
2) T	n-Decane (C10)	4.291	2892910	20.837 ug/ml
3) T	A~Naphthalene (C11.7)	5.859	3146417	20.959 ug/ml
4) T	n-Dodecane (C12)	6.299	2898986	20.752 ug/ml
5) T	A~2-methylnaphthalene...	6.912	3016045	20.998 ug/ml
6) T	n-Tetradecane (C14)	8.088	2823344	20.687 ug/ml
7) T	n-Hexadecane (C16)	9.682	2866683	20.631 ug/ml
8) T	n-Octadecane (C18)	11.120	2860062	20.441 ug/ml
10) T	n-Eicosane (C20)	12.425	2726294	20.376 ug/ml
11) T	n-Heneicosane (C21)	13.035	2669582	20.326 ug/ml
13) T	n-Docosane (C22)	13.621	2632473	20.323 ug/ml
14) T	n-Tetracosane (C24)	14.720	2607107	20.307 ug/ml
15) T	n-Hexacosane (C26)	15.738	2544255	20.219 ug/ml
16) T	n-Octacosane (C28)	16.686	2514179	20.102 ug/ml
17) T	n-Tricontane (C30)	17.572	2583068	19.984 ug/ml
18) T	n-Dotriacontane (C32)	18.402	2485515	19.882 ug/ml
19) T	n-Tetratriacontane (C34)	19.184	2168265	19.989 ug/ml
20) T	n-Hexatriacontane (C36)	19.922	1856990	20.066 ug/ml
21) T	n-Octatriacontane (C38)	20.634	1734577	20.243 ug/ml
22) T	n-Tetracontane (C40)	21.496	1670521	20.660 ug/ml

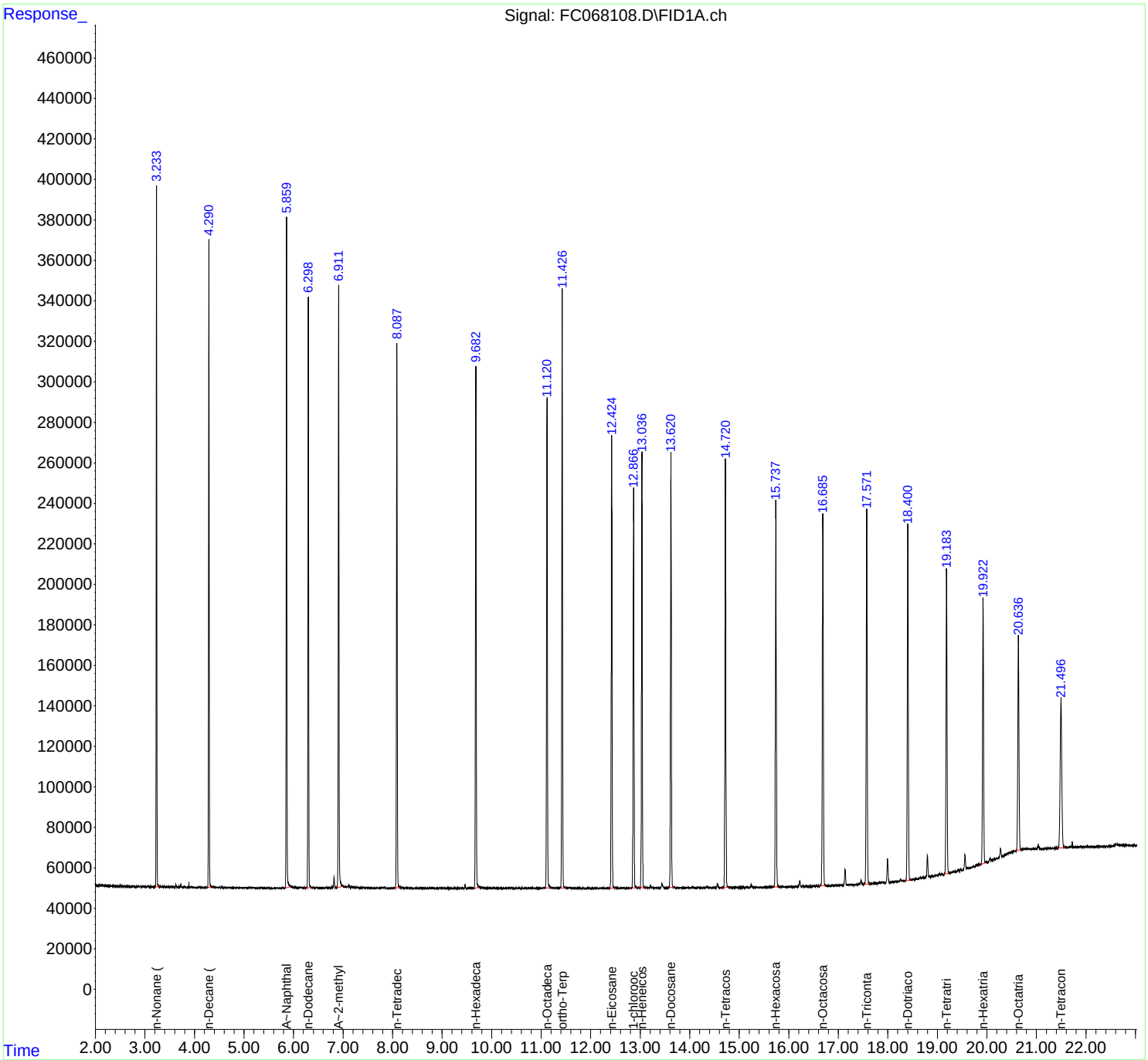
(f)=RT Delta > 1/2 Window (m)=manual int.

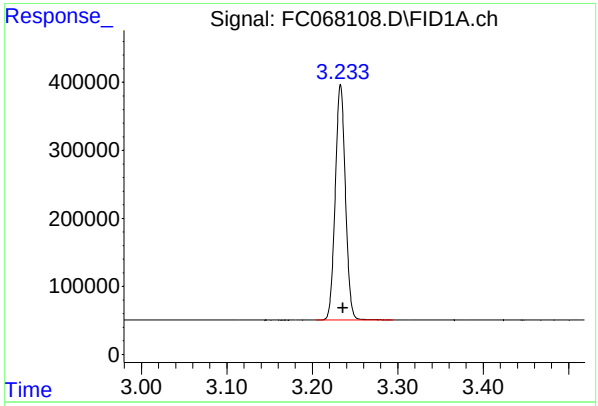
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068108.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:46
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 25 04:32:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

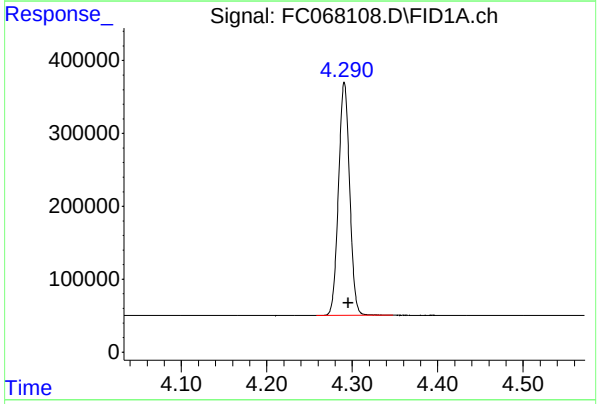




#1 n-Nonane (C9)

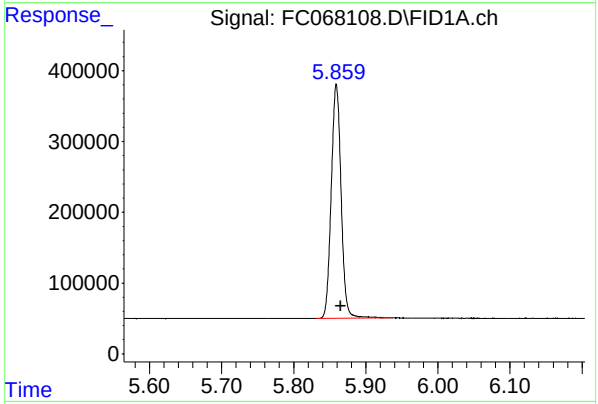
R.T.: 3.233 min
Delta R.T.: -0.003 min
Response: 2856850
Conc: 20.86 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



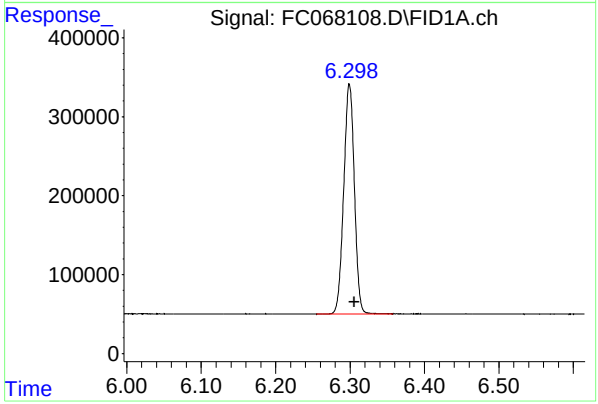
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: -0.005 min
Response: 2892910
Conc: 20.84 ug/ml



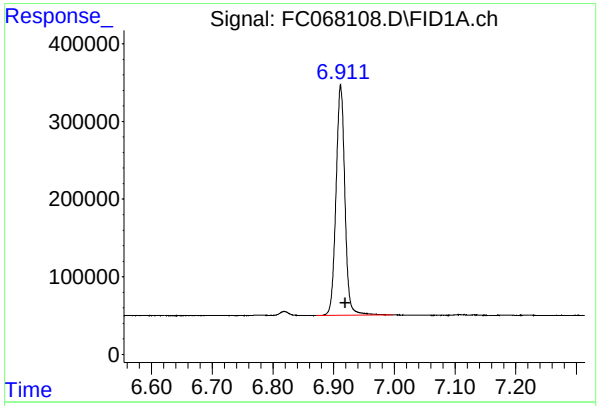
#3 A~Naphthalene (C11.7)

R.T.: 5.859 min
Delta R.T.: -0.006 min
Response: 3146417
Conc: 20.96 ug/ml



#4 n-Dodecane (C12)

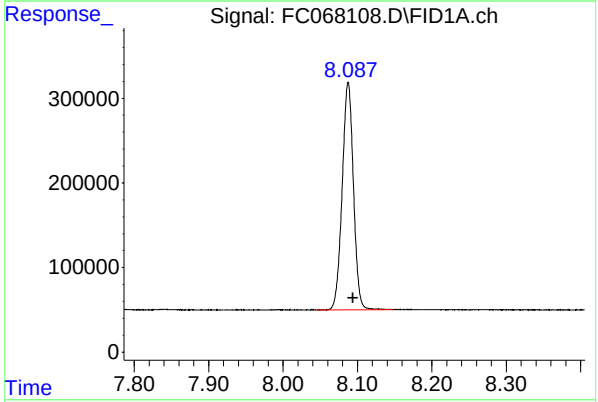
R.T.: 6.299 min
Delta R.T.: -0.006 min
Response: 2898986
Conc: 20.75 ug/ml



#5 A~2-methylnaphthalene (C12.89)

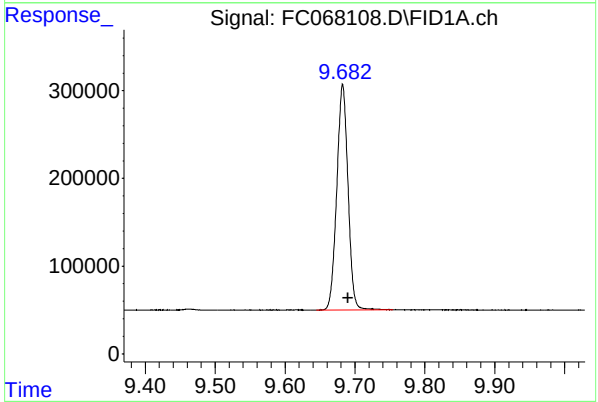
R.T.: 6.912 min
Delta R.T.: -0.008 min
Response: 3016045
Conc: 21.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



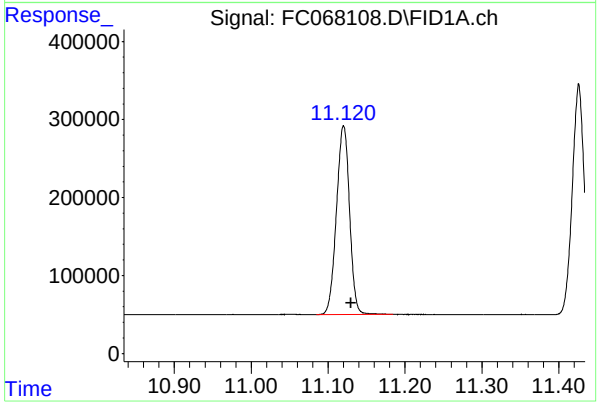
#6 n-Tetradecane (C14)

R.T.: 8.088 min
Delta R.T.: -0.006 min
Response: 2823344
Conc: 20.69 ug/ml



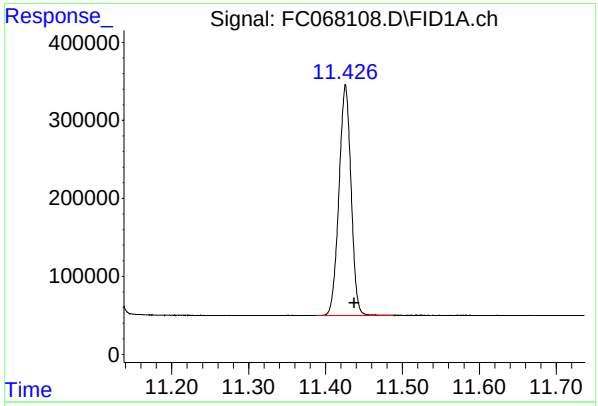
#7 n-Hexadecane (C16)

R.T.: 9.682 min
Delta R.T.: -0.008 min
Response: 2866683
Conc: 20.63 ug/ml



#8 n-Octadecane (C18)

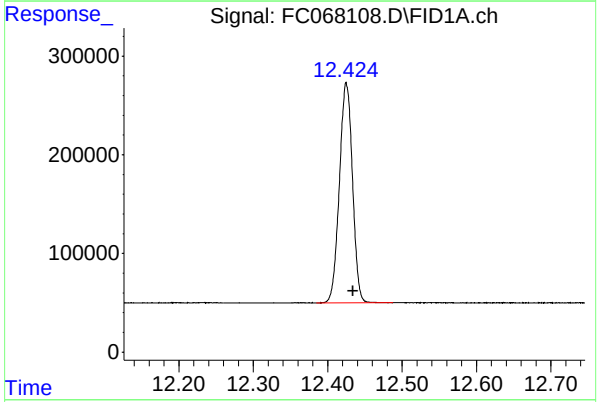
R.T.: 11.120 min
Delta R.T.: -0.009 min
Response: 2860062
Conc: 20.44 ug/ml



#9 ortho-Terphenyl (SURR)

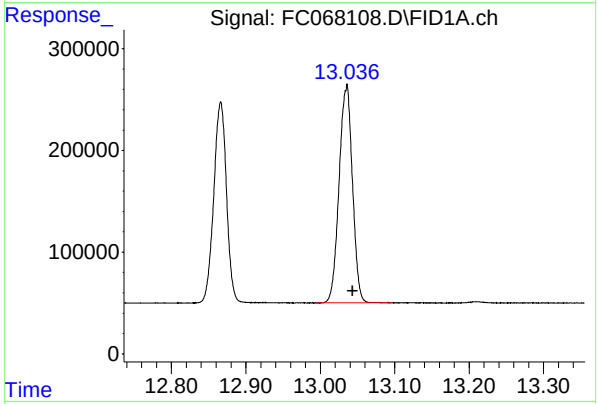
R.T.: 11.426 min
Delta R.T.: -0.011 min
Response: 3210149
Conc: 20.54 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



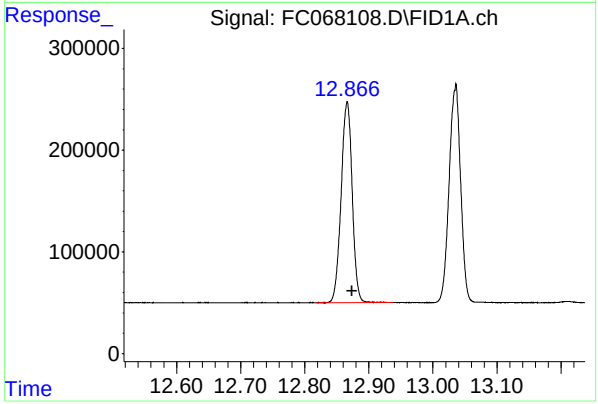
#10 n-Eicosane (C20)

R.T.: 12.425 min
Delta R.T.: -0.009 min
Response: 2726294
Conc: 20.38 ug/ml



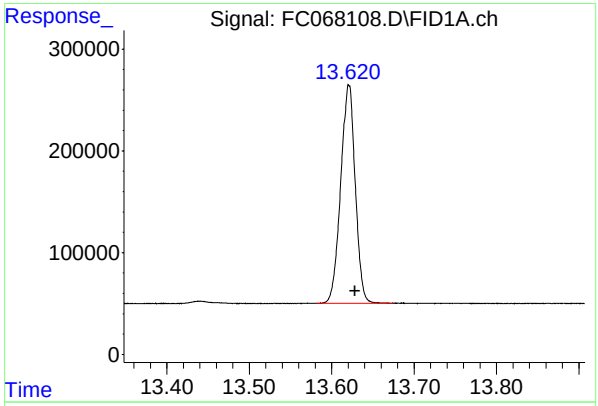
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: -0.009 min
Response: 2669582
Conc: 20.33 ug/ml



#12 1-chlorooctadecane (SURR)

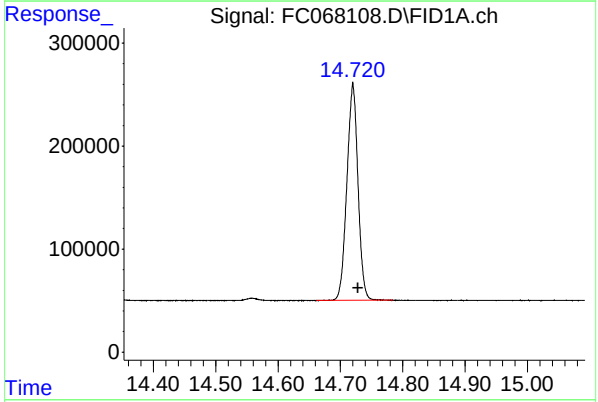
R.T.: 12.866 min
Delta R.T.: -0.008 min
Response: 2353417
Conc: 20.46 ug/ml



#13 n-Docosane (C22)

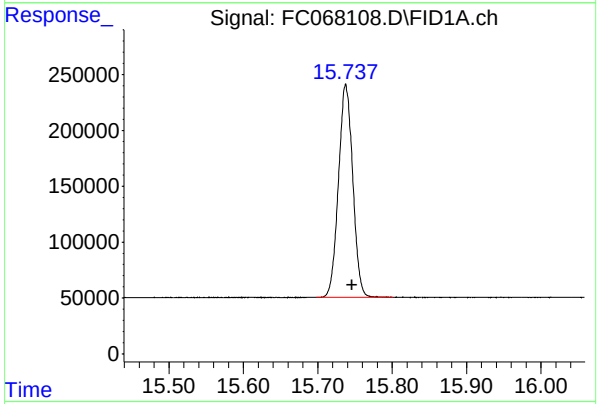
R.T.: 13.621 min
Delta R.T.: -0.008 min
Response: 2632473
Conc: 20.32 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



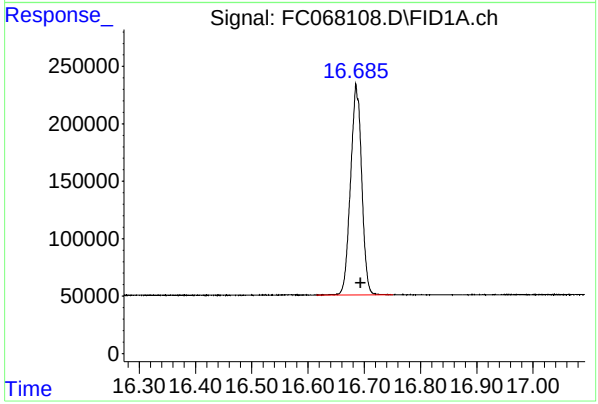
#14 n-Tetracosane (C24)

R.T.: 14.720 min
Delta R.T.: -0.008 min
Response: 2607107
Conc: 20.31 ug/ml



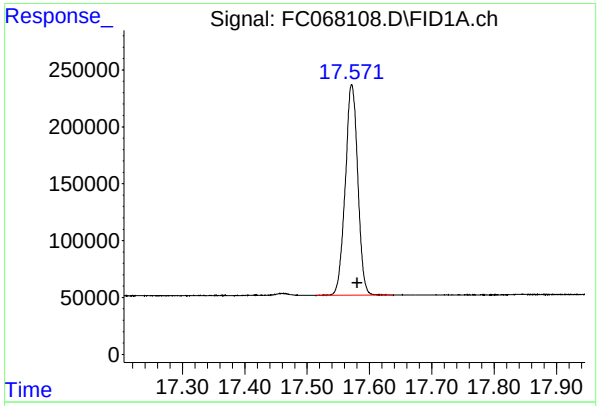
#15 n-Hexacosane (C26)

R.T.: 15.738 min
Delta R.T.: -0.008 min
Response: 2544255
Conc: 20.22 ug/ml



#16 n-Octacosane (C28)

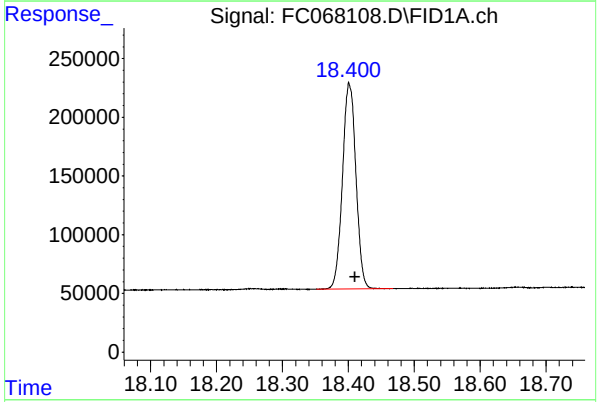
R.T.: 16.686 min
Delta R.T.: -0.007 min
Response: 2514179
Conc: 20.10 ug/ml



#17 n-Tricontane (C30)

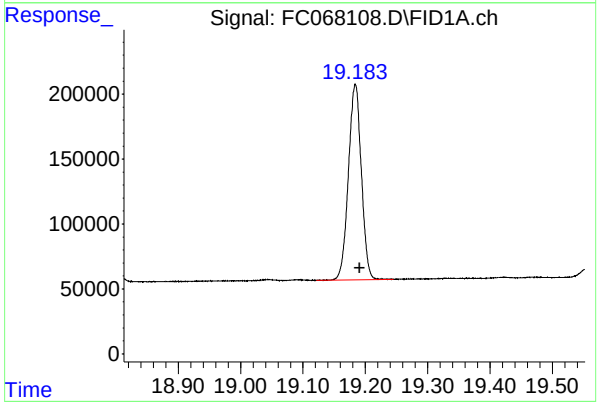
R.T.: 17.572 min
Delta R.T.: -0.009 min
Response: 2583068
Conc: 19.98 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



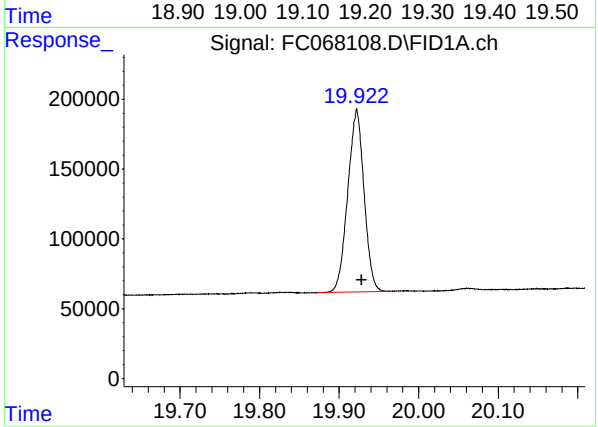
#18 n-Dotriacontane (C32)

R.T.: 18.402 min
Delta R.T.: -0.009 min
Response: 2485515
Conc: 19.88 ug/ml



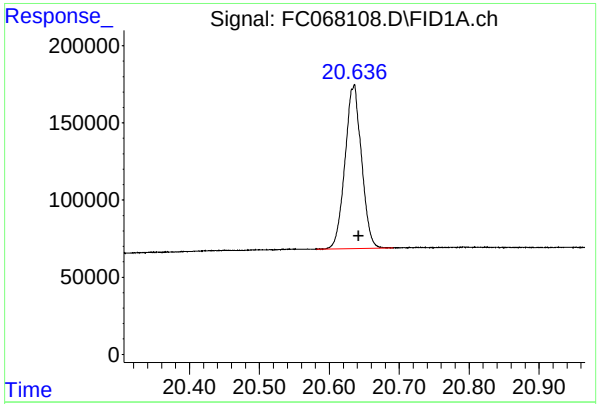
#19 n-Tetratriacontane (C34)

R.T.: 19.184 min
Delta R.T.: -0.007 min
Response: 2168265
Conc: 19.99 ug/ml



#20 n-Hexatriacontane (C36)

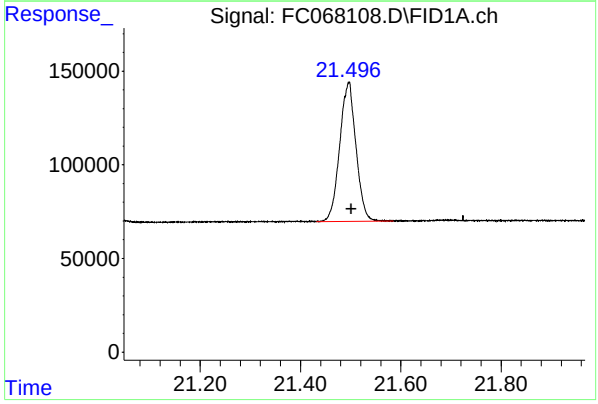
R.T.: 19.922 min
Delta R.T.: -0.006 min
Response: 1856990
Conc: 20.07 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.634 min
Delta R.T.: -0.008 min
Response: 1734577
Conc: 20.24 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.496 min
Delta R.T.: -0.005 min
Response: 1670521
Conc: 20.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068108.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:46
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.233	3.204	3.294	BB	343704	2856850	88.99%	5.002%
2	4.291	4.258	4.348	BB	319572	2892910	90.12%	5.065%
3	5.859	5.831	5.938	BB	328241	3146417	98.01%	5.509%
4	6.299	6.254	6.358	BB	290866	2898986	90.31%	5.075%
5	6.912	6.871	6.998	BB	295864	3016045	93.95%	5.280%
6	8.088	8.044	8.148	BB	268893	2823344	87.95%	4.943%
7	9.682	9.644	9.754	BB	254778	2866683	89.30%	5.019%
8	11.120	11.084	11.184	BB	242579	2860062	89.09%	5.007%
9	11.426	11.388	11.488	BB	290771	3210149	100.00%	5.620%
10	12.425	12.384	12.488	BB	223122	2726294	84.93%	4.773%
11	12.866	12.818	12.938	BB	197552	2353417	73.31%	4.120%
12	13.035	12.994	13.098	BB	211315	2669582	83.16%	4.674%
13	13.621	13.581	13.674	BB	216625	2632473	82.00%	4.609%
14	14.720	14.661	14.784	BB	209276	2607107	81.21%	4.564%
15	15.738	15.698	15.801	BB	189595	2544255	79.26%	4.454%
16	16.686	16.614	16.751	BB	174808	2514179	78.32%	4.402%
17	17.572	17.514	17.638	BB	185211	2583068	80.47%	4.522%
18	18.402	18.351	18.468	BB	175194	2485515	77.43%	4.352%
19	19.184	19.121	19.244	BB	150939	2168265	67.54%	3.796%
20	19.922	19.871	19.968	BB	128729	1856990	57.85%	3.251%
21	20.634	20.581	20.691	BB	104780	1734577	54.03%	3.037%
22	21.496	21.431	21.584	BB	73905	1670521	52.04%	2.925%
			Sum of corrected areas:			57117687		

Aliphatic EPH 012425.M Sat Jan 25 04:56:39 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Inital Calibration Report for SequenceID : FC021125AL

AreaCount

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	39331006.000	20240186.000	8511519.000	4474674.000	2221877.000	
Aliphatic C12-C16	25563872.000	13091029.000	5472087.000	2866719.000	1444048.000	
Aliphatic C16-C21	36707935.000	18751121.000	7907675.000	4144581.000	2112599.000	
Aliphatic C21-C28	45593595.000	23234194.000	9834944.000	5144532.000	2635031.000	
Aliphatic C28-C40	56736862.000	29009865.000	12324513.000	6514067.000	3350978.000	
Aliphatic EPH	203933270.000	104326395.000	44050738.000	23144573.000	11764533.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	141035.5019998	5.636				
Aliphatic C12-C16	136654.515	5.375				
Aliphatic C16-C21	131630.8946664	6.092				
Aliphatic C21-C28	122691.3215	6.255				
Aliphatic C28-C40	102846.462333	7.171				
Aliphatic EPH	122175.1266664	6.234				

Concentration

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	131103.353333	134934.573333	141858.650000	149155.800000	148125.133333	
Aliphatic C12-C16	127819.360000	130910.290000	136802.175000	143335.950000	144404.800000	
Aliphatic C16-C21	122359.783333	125007.473333	131794.583333	138152.700000	140839.933333	

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Inital Calibration Report for SequenceID : FC021125AL

Aliphatic C21-C28	113983.987500	116170.970000	122936.800000	128613.300000	131751.550000	
Aliphatic C28-C40	94561.436666	96699.550000	102704.275000	108567.783333	111699.266666	
Aliphatic EPH	113296.261111	115918.216666	122363.161111	128580.961111	130717.033333	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068252.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 11 02:30:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.410	14212174	92.574 ug/ml
Spiked Amount	50.000		Recovery =	185.15%
12)	S 1-chlorooctadecane (S...	12.849	10559687	93.495 ug/ml
Spiked Amount	50.000		Recovery =	186.99%
	Target Compounds			
1)	T n-Nonane (C9)	3.211	13034849	92.005 ug/ml
2)	T n-Decane (C10)	4.270	13187244	92.433 ug/ml
3)	T A~Naphthalene (C11.7)	5.838	14533716	93.918 ug/ml
4)	T n-Dodecane (C12)	6.280	13108913	92.818 ug/ml
5)	T A~2-methylnaphthalene...	6.891	13929436	94.987 ug/ml
6)	T n-Tetradecane (C14)	8.068	12728359	93.377 ug/ml
7)	T n-Hexadecane (C16)	9.664	12835513	93.490 ug/ml
8)	T n-Octadecane (C18)	11.104	12748213	93.034 ug/ml
10)	T n-Eicosane (C20)	12.408	12107311	92.743 ug/ml
11)	T n-Heneicosane (C21)	13.019	11852411	92.734 ug/ml
13)	T n-Docosane (C22)	13.604	11728617	92.902 ug/ml
14)	T n-Tetracosane (C24)	14.704	11568914	92.905 ug/ml
15)	T n-Hexacosane (C26)	15.723	11302843	92.721 ug/ml
16)	T n-Octacosane (C28)	16.671	10993221	92.322 ug/ml
17)	T n-Tricontane (C30)	17.556	11027160	91.890 ug/ml
18)	T n-Dotriacontane (C32)	18.388	10599289	91.711 ug/ml
19)	T n-Tetratriacontane (C34)	19.170	9898762	91.900 ug/ml
20)	T n-Hexatriacontane (C36)	19.908	8865949	92.289 ug/ml
21)	T n-Octatriacontane (C38)	20.619	8293679	91.939 ug/ml
22)	T n-Tetracontane (C40)	21.474	8052023	92.913 ug/ml

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

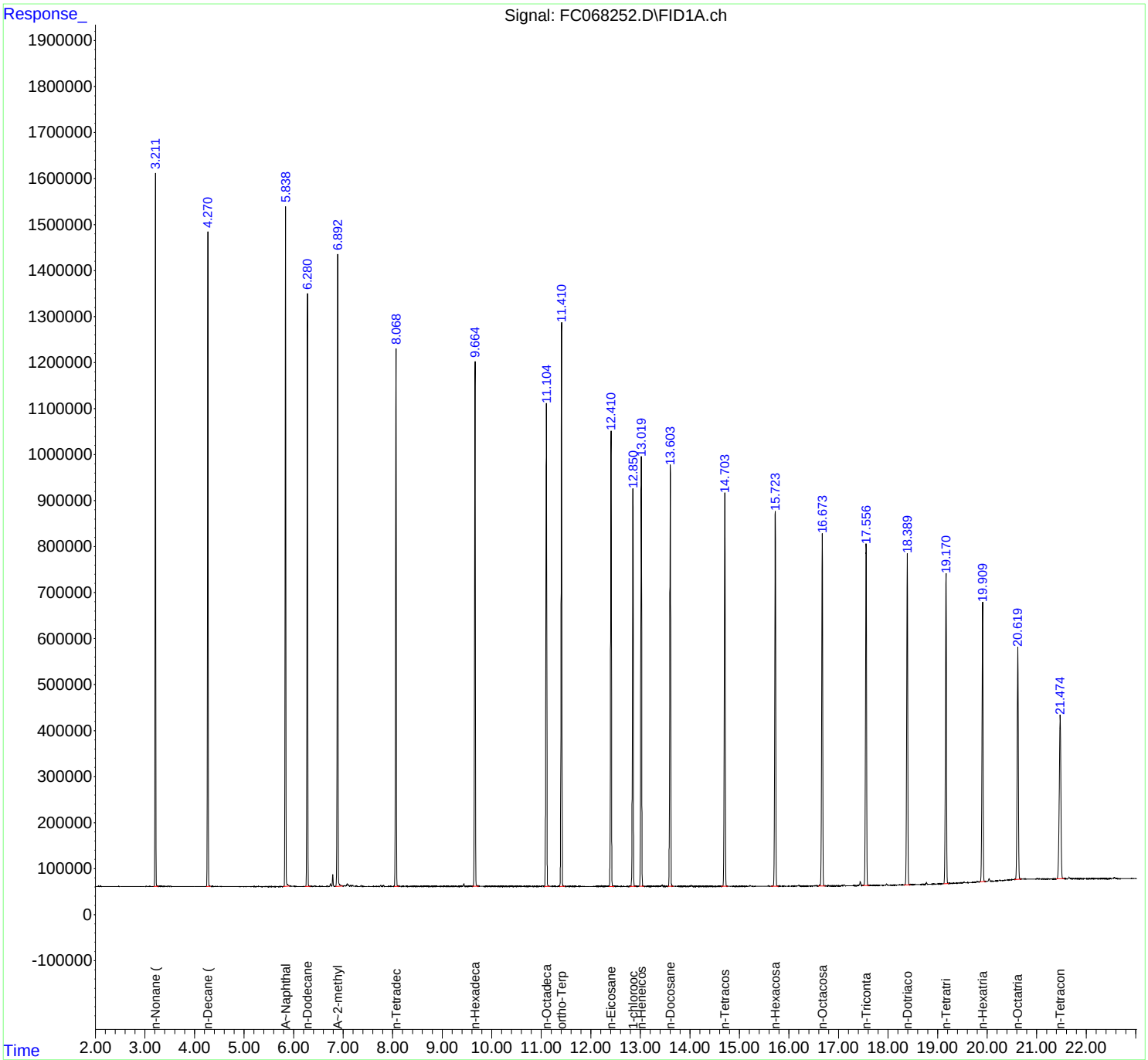
Quantitation Report (QT Reviewed)

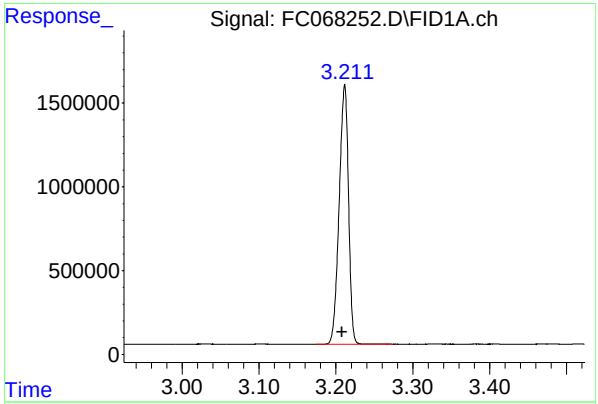
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068252.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 11 02:30:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

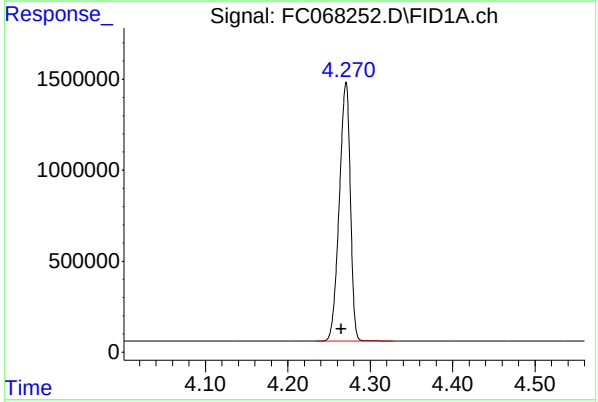




#1 n-Nonane (C9)

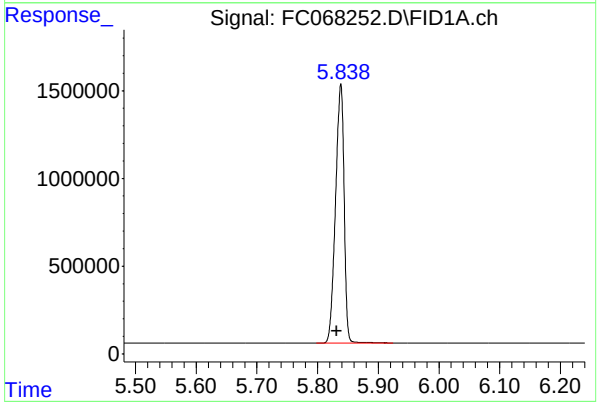
R.T.: 3.211 min
Delta R.T.: 0.003 min
Response: 13034849
Conc: 92.01 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



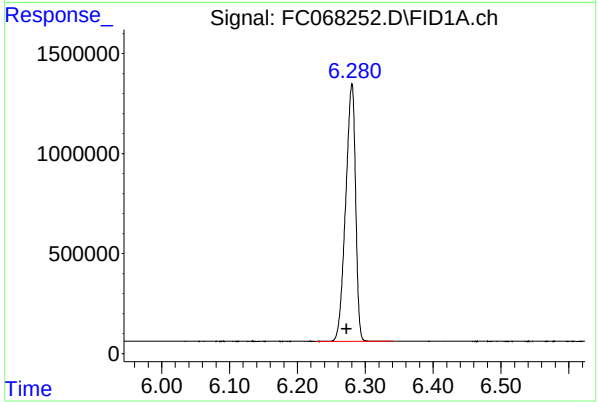
#2 n-Decane (C10)

R.T.: 4.270 min
Delta R.T.: 0.005 min
Response: 13187244
Conc: 92.43 ug/ml



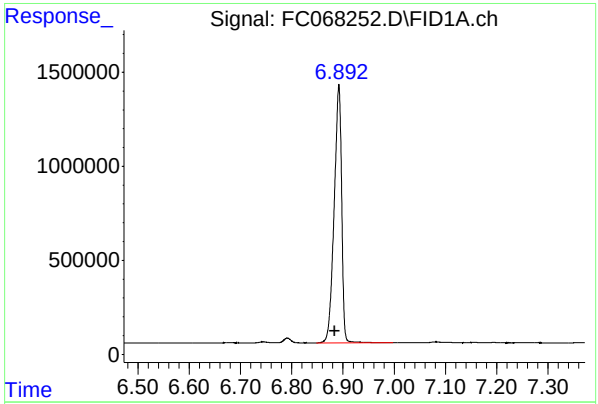
#3 A~Naphthalene (C11.7)

R.T.: 5.838 min
Delta R.T.: 0.006 min
Response: 14533716
Conc: 93.92 ug/ml



#4 n-Dodecane (C12)

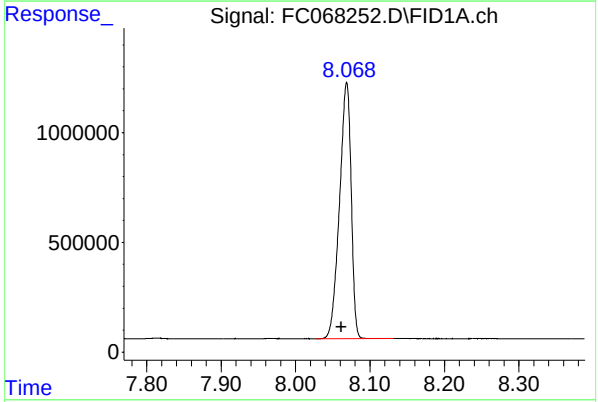
R.T.: 6.280 min
Delta R.T.: 0.007 min
Response: 13108913
Conc: 92.82 ug/ml



#5 A~2-methylnaphthalene (C12.89)

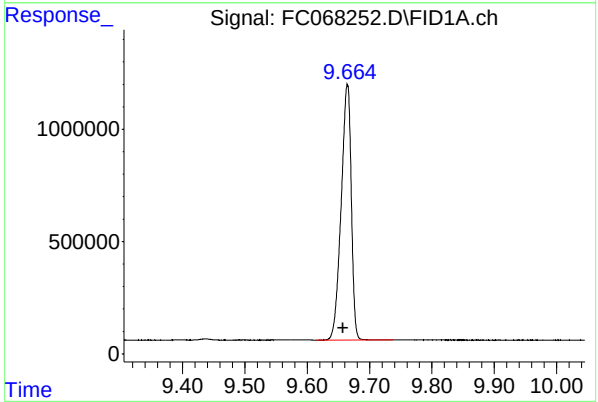
R.T.: 6.891 min
Delta R.T.: 0.007 min
Response: 13929436
Conc: 94.99 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



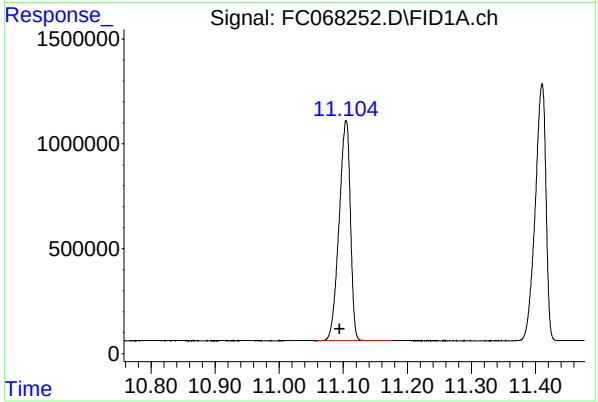
#6 n-Tetradecane (C14)

R.T.: 8.068 min
Delta R.T.: 0.007 min
Response: 12728359
Conc: 93.38 ug/ml



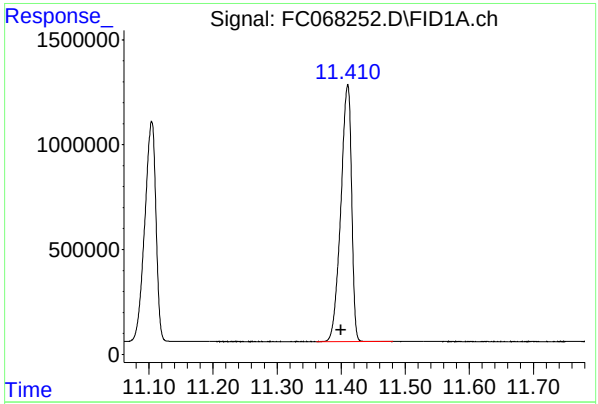
#7 n-Hexadecane (C16)

R.T.: 9.664 min
Delta R.T.: 0.007 min
Response: 12835513
Conc: 93.49 ug/ml



#8 n-Octadecane (C18)

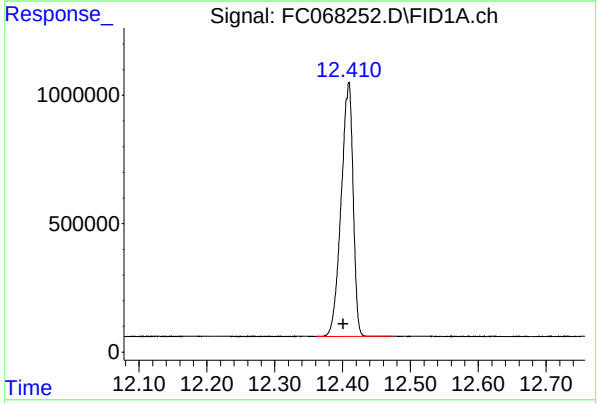
R.T.: 11.104 min
Delta R.T.: 0.009 min
Response: 12748213
Conc: 93.03 ug/ml



#9 ortho-Terphenyl (SURR)

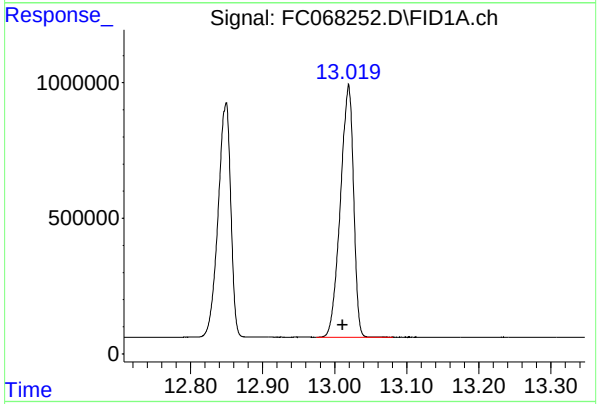
R.T.: 11.410 min
Delta R.T.: 0.010 min
Response: 14212174
Conc: 92.57 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



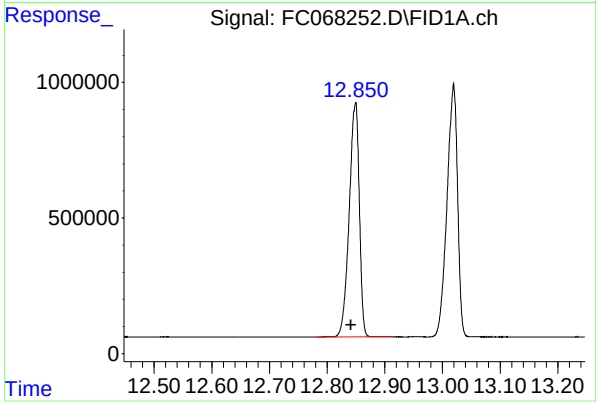
#10 n-Eicosane (C20)

R.T.: 12.408 min
Delta R.T.: 0.007 min
Response: 12107311
Conc: 92.74 ug/ml



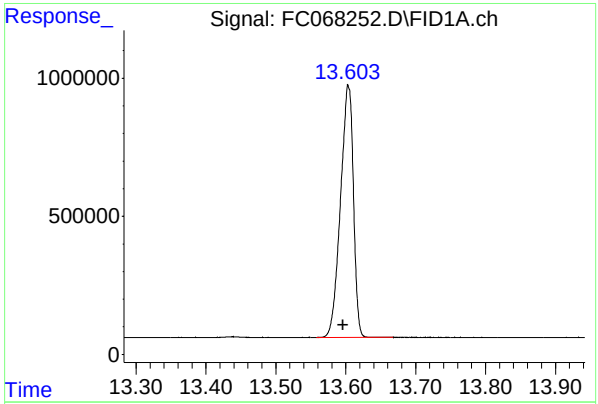
#11 n-Heneicosane (C21)

R.T.: 13.019 min
Delta R.T.: 0.008 min
Response: 11852411
Conc: 92.73 ug/ml



#12 1-chlorooctadecane (SURR)

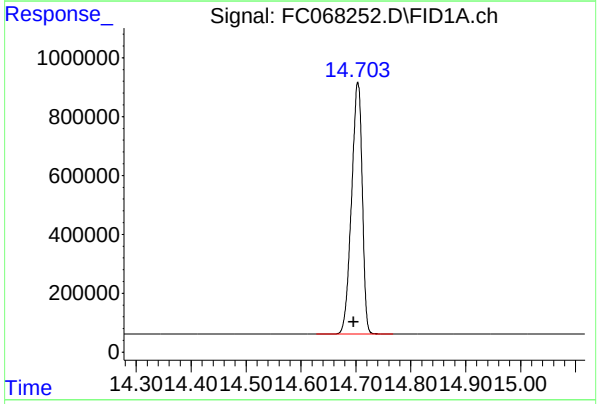
R.T.: 12.849 min
Delta R.T.: 0.007 min
Response: 10559687
Conc: 93.50 ug/ml



#13 n-Docosane (C22)

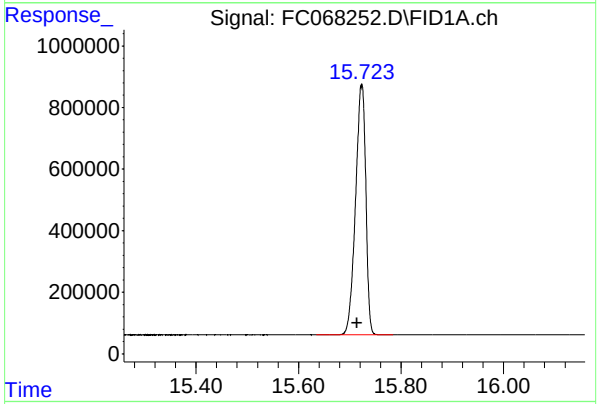
R.T.: 13.604 min
Delta R.T.: 0.008 min
Response: 11728617
Conc: 92.90 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



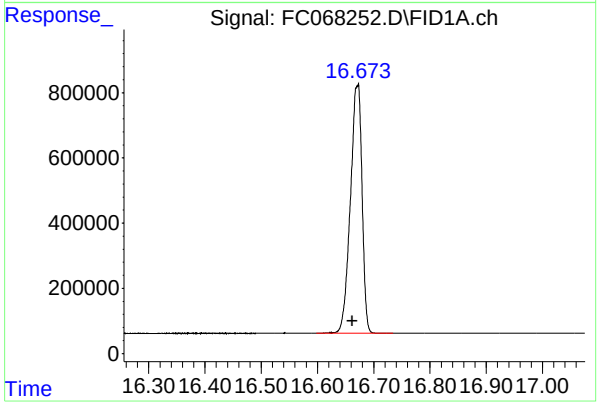
#14 n-Tetracosane (C24)

R.T.: 14.704 min
Delta R.T.: 0.008 min
Response: 11568914
Conc: 92.91 ug/ml



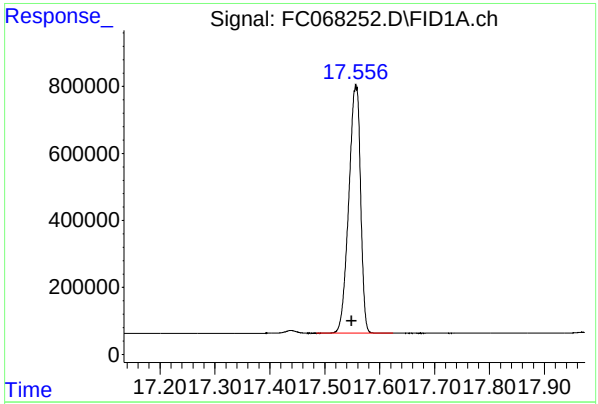
#15 n-Hexacosane (C26)

R.T.: 15.723 min
Delta R.T.: 0.009 min
Response: 11302843
Conc: 92.72 ug/ml



#16 n-Octacosane (C28)

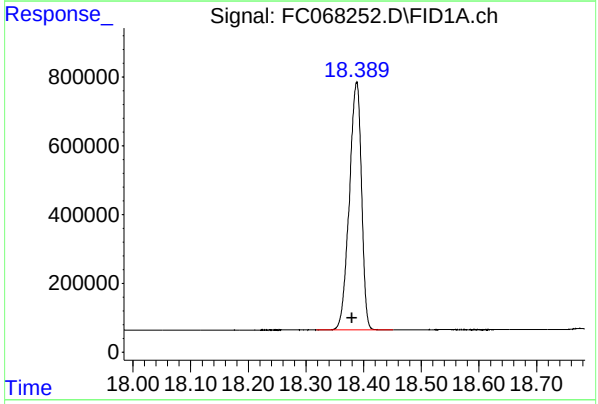
R.T.: 16.671 min
Delta R.T.: 0.009 min
Response: 10993221
Conc: 92.32 ug/ml



#17 n-Tricontane (C30)

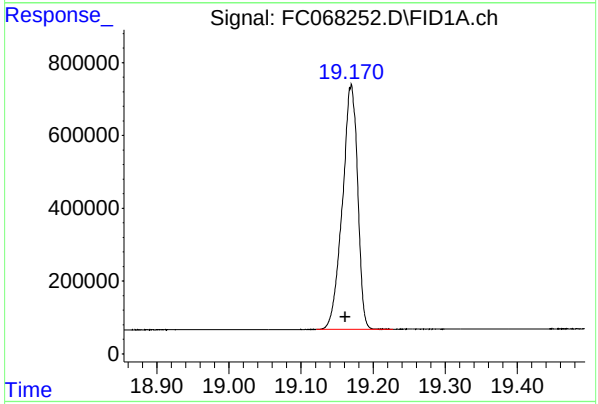
R.T.: 17.556 min
Delta R.T.: 0.007 min
Response: 11027160
Conc: 91.89 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



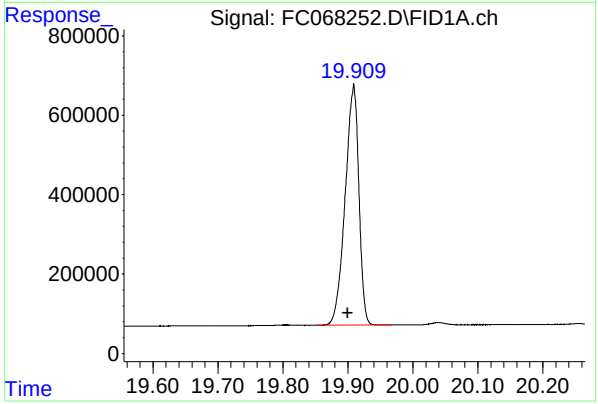
#18 n-Dotriacontane (C32)

R.T.: 18.388 min
Delta R.T.: 0.008 min
Response: 10599289
Conc: 91.71 ug/ml



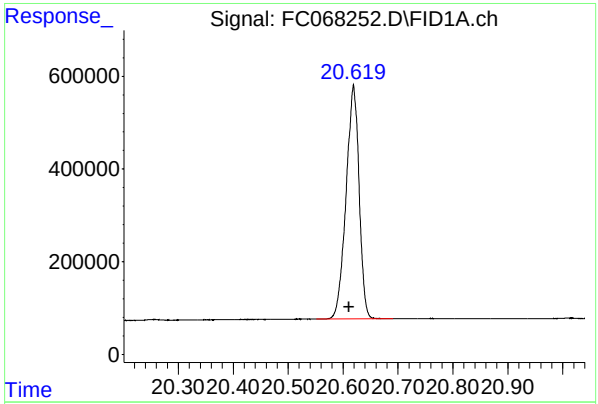
#19 n-Tetratriacontane (C34)

R.T.: 19.170 min
Delta R.T.: 0.008 min
Response: 9898762
Conc: 91.90 ug/ml



#20 n-Hexatriacontane (C36)

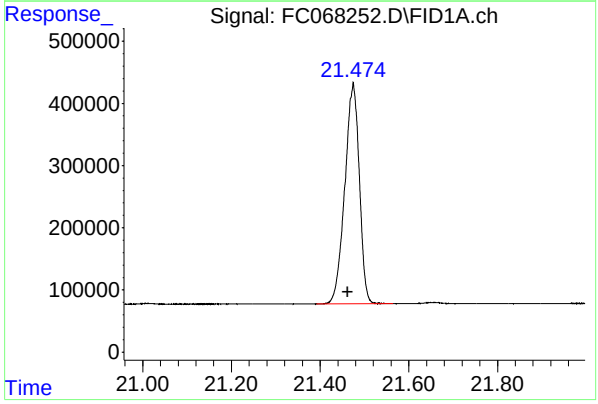
R.T.: 19.908 min
Delta R.T.: 0.008 min
Response: 8865949
Conc: 92.29 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.619 min
Delta R.T.: 0.008 min
Response: 8293679
Conc: 91.94 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.474 min
Delta R.T.: 0.012 min
Response: 8052023
Conc: 92.91 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068252.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 16:24
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.211	3.174	3.274	BB	1536067	13034849	89.69%	5.069%
2	4.270	4.234	4.328	BB	1438029	13187244	90.74%	5.128%
3	5.838	5.798	5.924	BB	1468511	14533716	100.00%	5.651%
4	6.280	6.228	6.341	BB	1303761	13108913	90.20%	5.097%
5	6.891	6.848	6.998	BB	1352654	13929436	95.84%	5.416%
6	8.068	8.028	8.131	BB	1162652	12728359	87.58%	4.949%
7	9.664	9.614	9.738	BB	1144286	12835513	88.32%	4.991%
8	11.104	11.058	11.178	BB	1054227	12748213	87.71%	4.957%
9	11.410	11.361	11.481	BB	1241101	14212174	97.79%	5.526%
10	12.408	12.361	12.474	BB	966080	12107311	83.30%	4.708%
11	12.849	12.781	12.914	BB	856617	10559687	72.66%	4.106%
12	13.019	12.974	13.081	BB	912197	11852411	81.55%	4.609%
13	13.604	13.558	13.668	BB	916235	11728617	80.70%	4.561%
14	14.704	14.628	14.768	BB	856005	11568914	79.60%	4.499%
15	15.723	15.634	15.784	BB	820737	11302843	77.77%	4.395%
16	16.671	16.598	16.734	BB	759899	10993221	75.64%	4.275%
17	17.556	17.484	17.624	BB	738963	11027160	75.87%	4.288%
18	18.388	18.318	18.451	BB	719758	10599289	72.93%	4.122%
19	19.170	19.121	19.228	BB	668913	9898762	68.11%	3.849%
20	19.908	19.851	19.969	BBA	593167	8865949	61.00%	3.448%
21	20.619	20.551	20.691	BB	499026	8293679	57.07%	3.225%
22	21.474	21.391	21.564	BB	353119	8052023	55.40%	3.131%
			Sum of corrected areas:			257168283		

Aliphatic EPH 021125.M Tue Feb 11 02:39:04 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068253.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:01
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 11 02:30:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.404	7265657	47.326 ug/ml
Spiked Amount	50.000		Recovery =	94.65%
12) S	1-chlorooctadecane (S...	12.845	5379642	47.631 ug/ml
Spiked Amount	50.000		Recovery =	95.26%
	Target Compounds			
1) T	n-Nonane (C9)	3.209	6719412	47.428 ug/ml
2) T	n-Decane (C10)	4.267	6784596	47.555 ug/ml
3) T	A~Naphthalene (C11.7)	5.834	7434634	48.043 ug/ml
4) T	n-Dodecane (C12)	6.276	6736178	47.696 ug/ml
5) T	A~2-methylnaphthalene...	6.887	7096295	48.391 ug/ml
6) T	n-Tetradecane (C14)	8.065	6521596	47.844 ug/ml
7) T	n-Hexadecane (C16)	9.660	6569433	47.850 ug/ml
8) T	n-Octadecane (C18)	11.099	6516282	47.555 ug/ml
10) T	n-Eicosane (C20)	12.404	6182901	47.362 ug/ml
11) T	n-Heneicosane (C21)	13.014	6051938	47.351 ug/ml
13) T	n-Docosane (C22)	13.599	5978682	47.357 ug/ml
14) T	n-Tetracosane (C24)	14.700	5893630	47.329 ug/ml
15) T	n-Hexacosane (C26)	15.718	5756725	47.224 ug/ml
16) T	n-Octacosane (C28)	16.665	5605157	47.073 ug/ml
17) T	n-Tricontane (C30)	17.551	5630196	46.917 ug/ml
18) T	n-Dotriacontane (C32)	18.383	5417986	46.879 ug/ml
19) T	n-Tetratriacontane (C34)	19.165	5059593	46.973 ug/ml
20) T	n-Hexatriacontane (C36)	19.902	4533198	47.188 ug/ml
21) T	n-Octatriacontane (C38)	20.614	4246406	47.073 ug/ml
22) T	n-Tetracontane (C40)	21.465	4122486	47.570 ug/ml

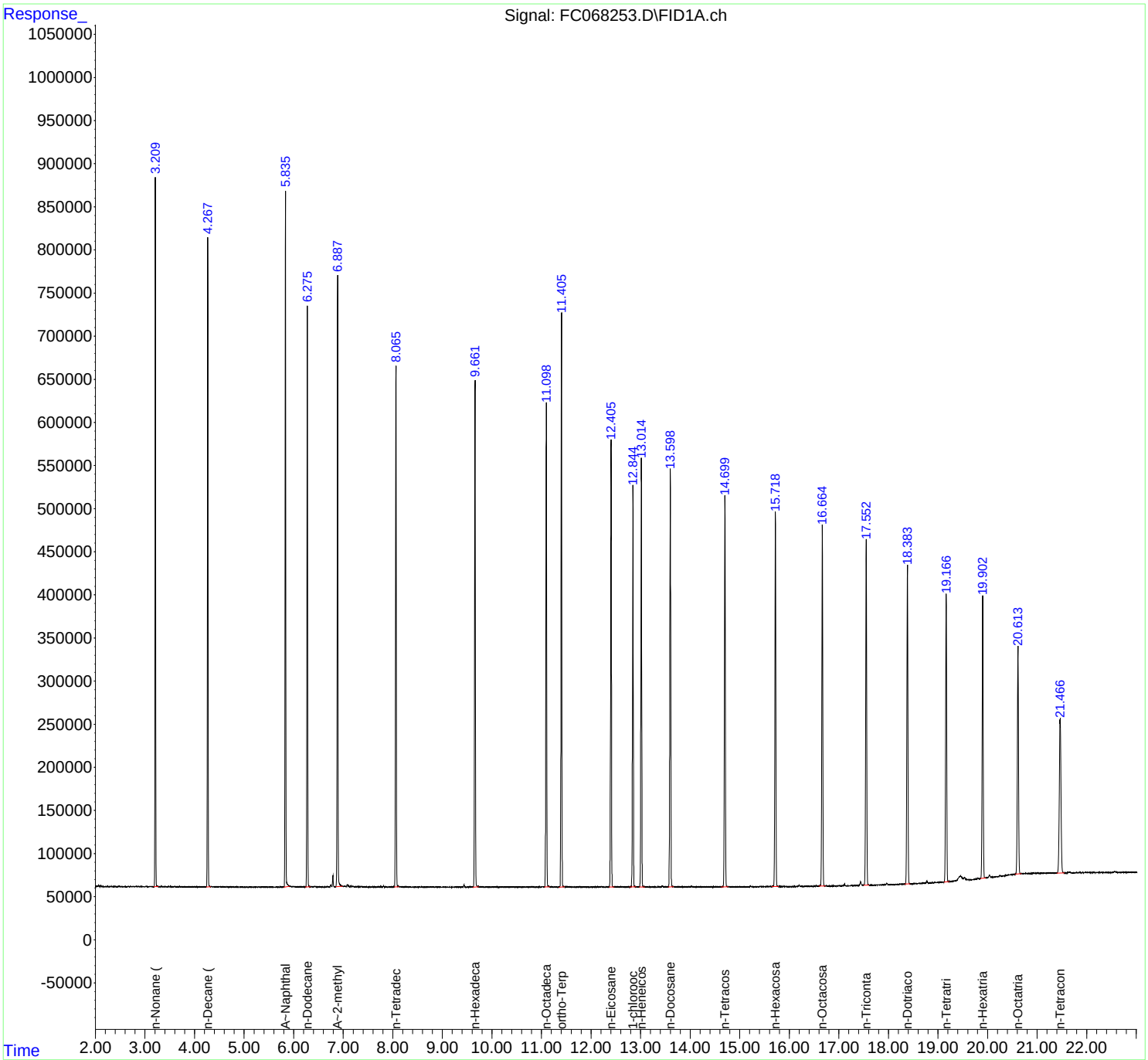
(f)=RT Delta > 1/2 Window (m)=manual int.

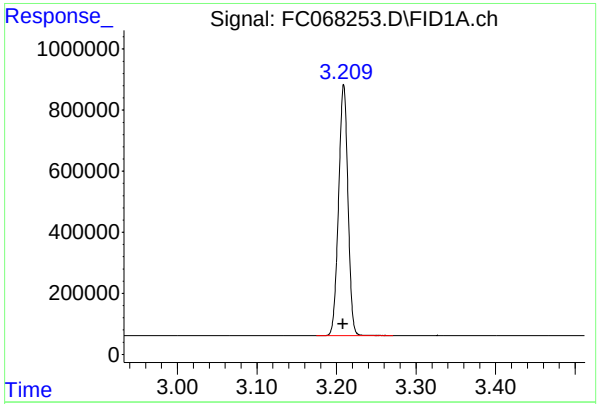
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068253.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:01
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 11 02:30:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

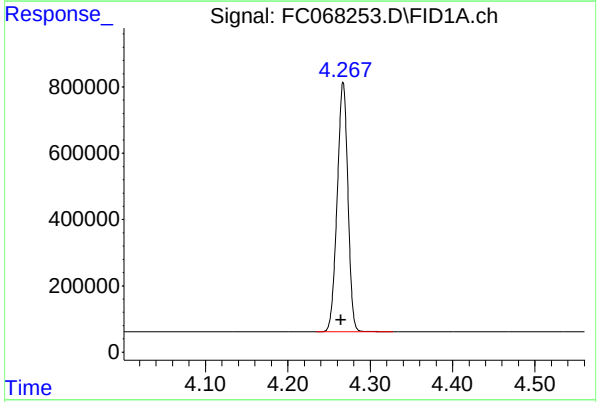




#1 n-Nonane (C9)

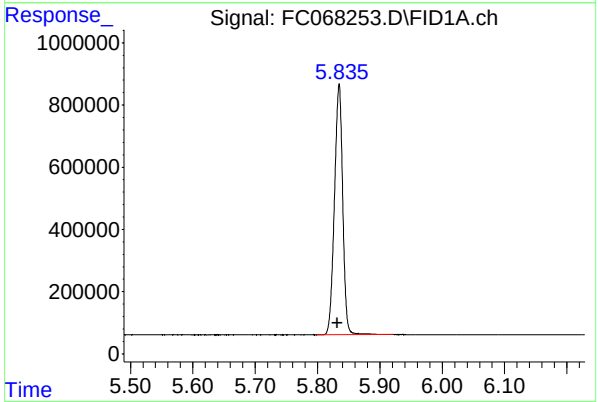
R.T.: 3.209 min
Delta R.T.: 0.000 min
Response: 6719412
Conc: 47.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



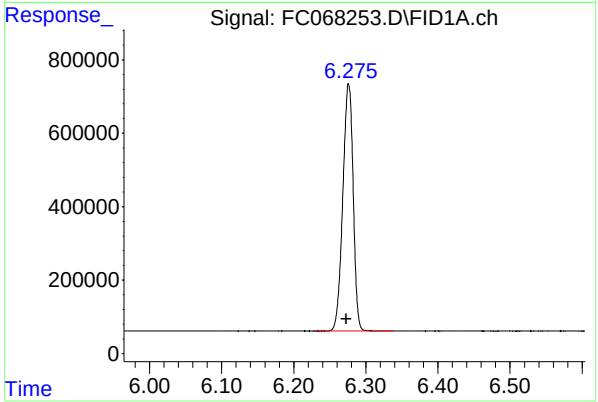
#2 n-Decane (C10)

R.T.: 4.267 min
Delta R.T.: 0.002 min
Response: 6784596
Conc: 47.56 ug/ml



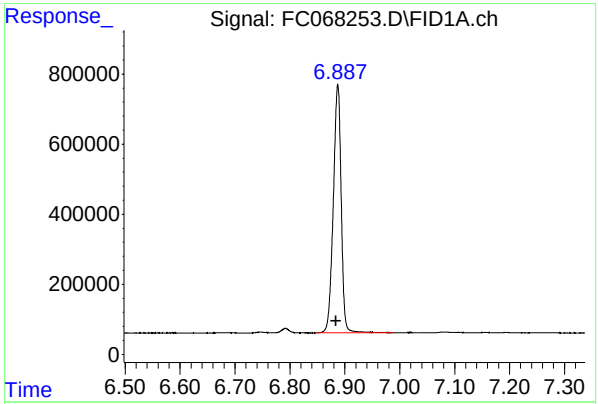
#3 A~Naphthalene (C11.7)

R.T.: 5.834 min
Delta R.T.: 0.003 min
Response: 7434634
Conc: 48.04 ug/ml



#4 n-Dodecane (C12)

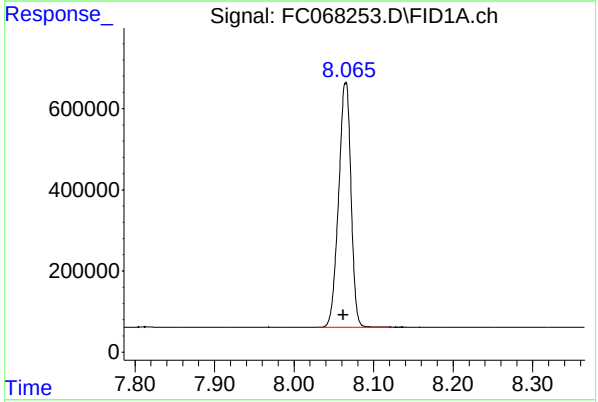
R.T.: 6.276 min
Delta R.T.: 0.003 min
Response: 6736178
Conc: 47.70 ug/ml



#5 A~2-methylnaphthalene (C12.89)

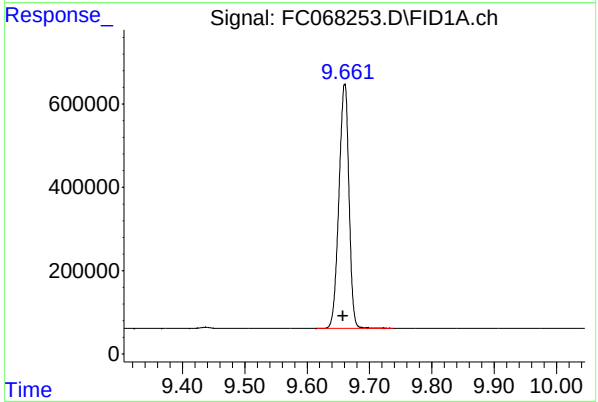
R.T.: 6.887 min
Delta R.T.: 0.003 min
Response: 7096295
Conc: 48.39 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



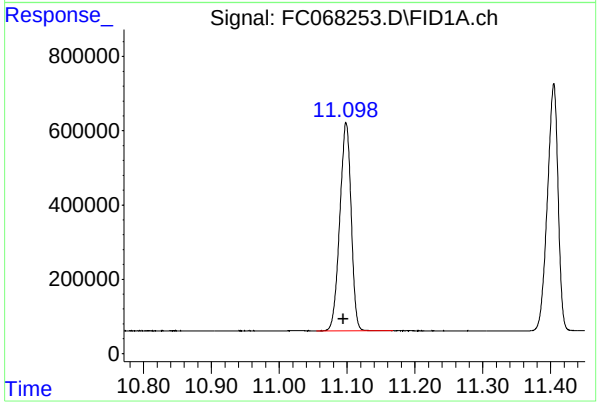
#6 n-Tetradecane (C14)

R.T.: 8.065 min
Delta R.T.: 0.003 min
Response: 6521596
Conc: 47.84 ug/ml



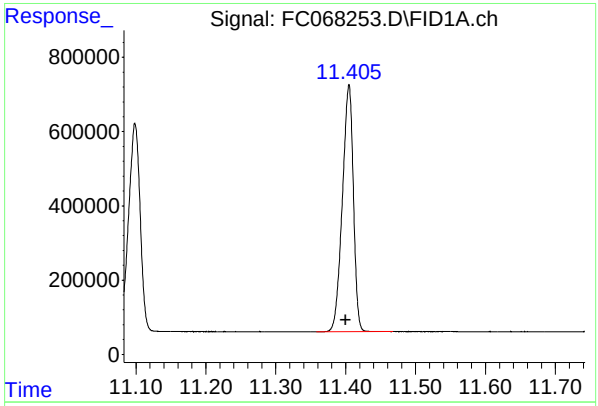
#7 n-Hexadecane (C16)

R.T.: 9.660 min
Delta R.T.: 0.003 min
Response: 6569433
Conc: 47.85 ug/ml



#8 n-Octadecane (C18)

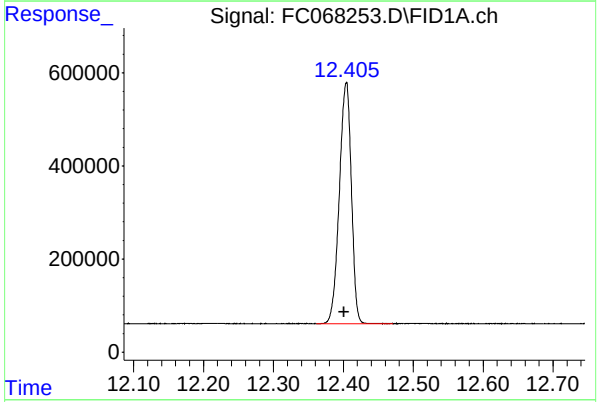
R.T.: 11.099 min
Delta R.T.: 0.004 min
Response: 6516282
Conc: 47.55 ug/ml



#9 ortho-Terphenyl (SURR)

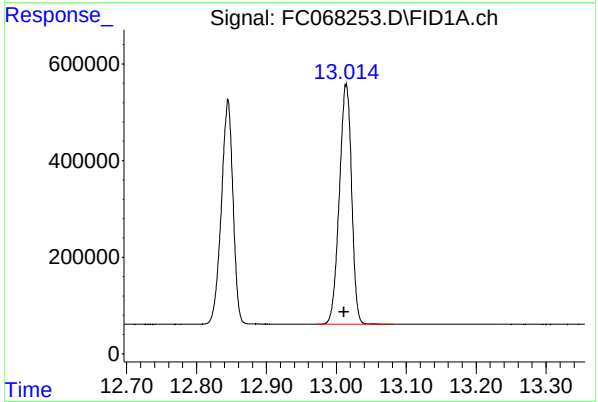
R.T.: 11.404 min
Delta R.T.: 0.005 min
Response: 7265657
Conc: 47.33 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



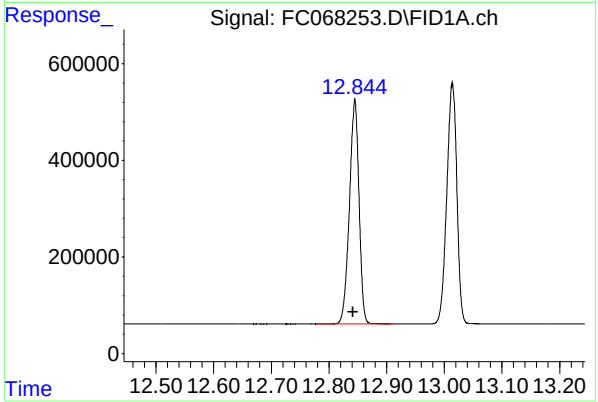
#10 n-Eicosane (C20)

R.T.: 12.404 min
Delta R.T.: 0.003 min
Response: 6182901
Conc: 47.36 ug/ml



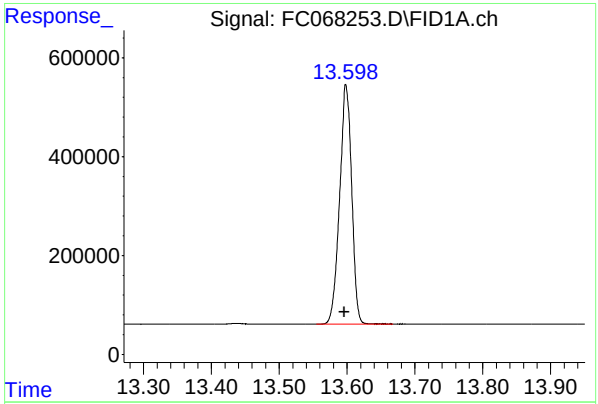
#11 n-Heneicosane (C21)

R.T.: 13.014 min
Delta R.T.: 0.003 min
Response: 6051938
Conc: 47.35 ug/ml



#12 1-chlorooctadecane (SURR)

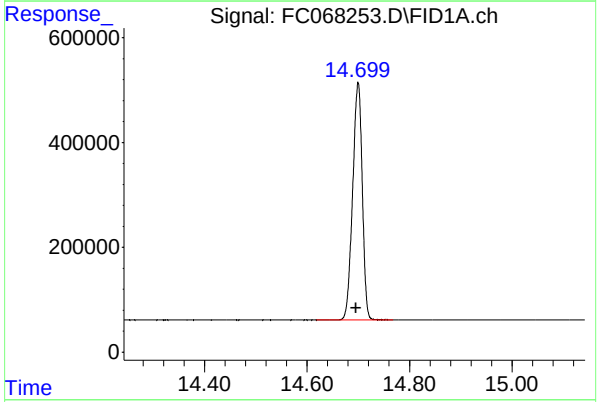
R.T.: 12.845 min
Delta R.T.: 0.003 min
Response: 5379642
Conc: 47.63 ug/ml



#13 n-Docosane (C22)

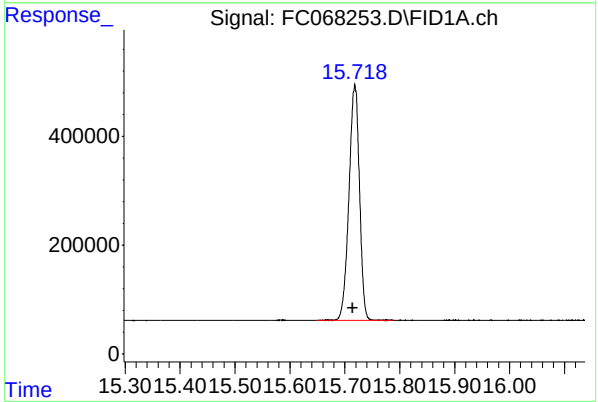
R.T.: 13.599 min
Delta R.T.: 0.003 min
Response: 5978682
Conc: 47.36 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



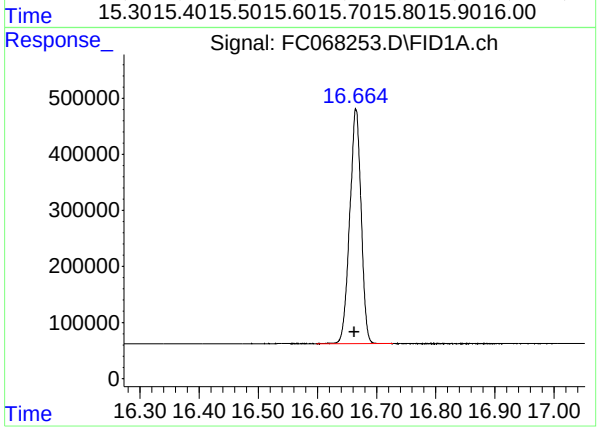
#14 n-Tetracosane (C24)

R.T.: 14.700 min
Delta R.T.: 0.004 min
Response: 5893630
Conc: 47.33 ug/ml



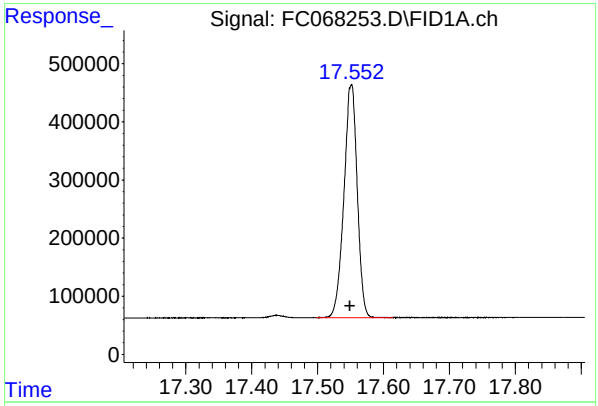
#15 n-Hexacosane (C26)

R.T.: 15.718 min
Delta R.T.: 0.004 min
Response: 5756725
Conc: 47.22 ug/ml



#16 n-Octacosane (C28)

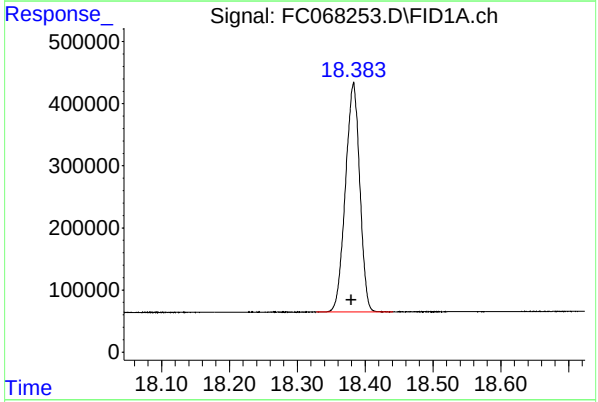
R.T.: 16.665 min
Delta R.T.: 0.003 min
Response: 5605157
Conc: 47.07 ug/ml



#17 n-Tricontane (C30)

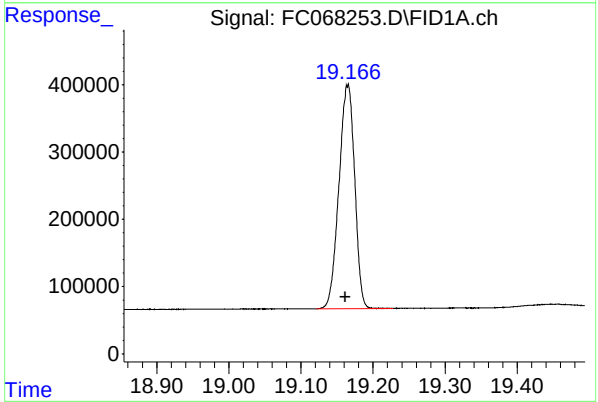
R.T.: 17.551 min
Delta R.T.: 0.002 min
Response: 5630196
Conc: 46.92 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



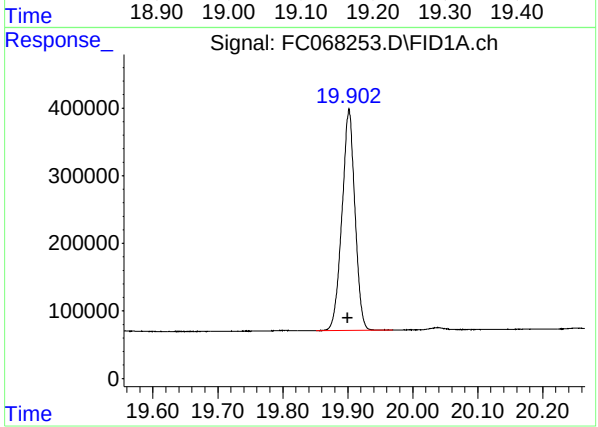
#18 n-Dotriacontane (C32)

R.T.: 18.383 min
Delta R.T.: 0.003 min
Response: 5417986
Conc: 46.88 ug/ml



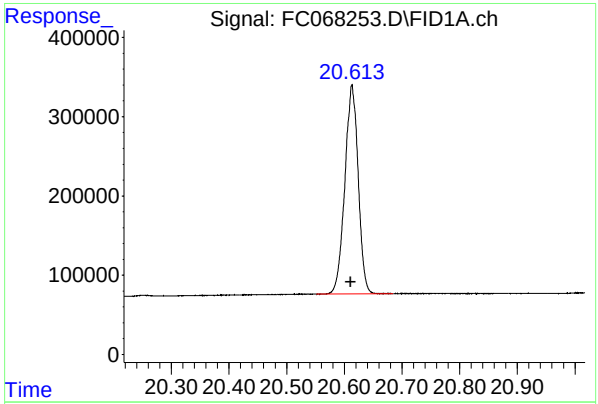
#19 n-Tetratriacontane (C34)

R.T.: 19.165 min
Delta R.T.: 0.004 min
Response: 5059593
Conc: 46.97 ug/ml



#20 n-Hexatriacontane (C36)

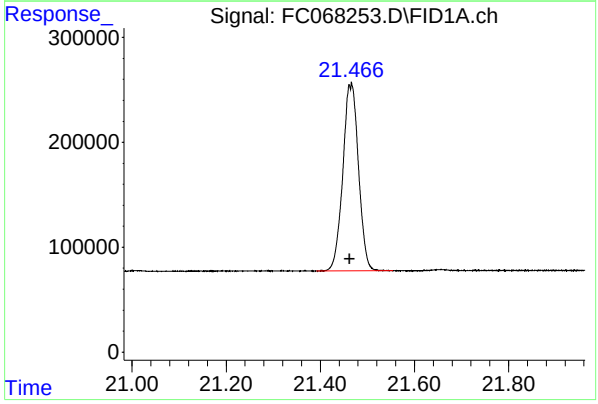
R.T.: 19.902 min
Delta R.T.: 0.002 min
Response: 4533198
Conc: 47.19 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.614 min
Delta R.T.: 0.003 min
Response: 4246406
Conc: 47.07 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.465 min
Delta R.T.: 0.002 min
Response: 4122486
Conc: 47.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068253.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:01
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.209	3.174	3.271	BB	811218	6719412	90.38%	5.110%
2	4.267	4.234	4.328	BB	755911	6784596	91.26%	5.159%
3	5.834	5.798	5.921	BB	804975	7434634	100.00%	5.654%
4	6.276	6.231	6.338	BB	678512	6736178	90.61%	5.122%
5	6.887	6.848	6.988	BB	711876	7096295	95.45%	5.396%
6	8.065	8.028	8.124	BB	605991	6521596	87.72%	4.959%
7	9.660	9.614	9.738	BB	593828	6569433	88.36%	4.996%
8	11.099	11.054	11.168	BB	559745	6516282	87.65%	4.955%
9	11.404	11.358	11.468	BB	664804	7265657	97.73%	5.525%
10	12.404	12.361	12.471	BB	520586	6182901	83.16%	4.702%
11	12.845	12.778	12.911	BB	460356	5379642	72.36%	4.091%
12	13.014	12.971	13.081	BB	497432	6051938	81.40%	4.602%
13	13.599	13.554	13.668	BB	486709	5978682	80.42%	4.546%
14	14.700	14.618	14.768	BB	455435	5893630	79.27%	4.482%
15	15.718	15.648	15.788	BB	431622	5756725	77.43%	4.378%
16	16.665	16.598	16.728	BB	419236	5605157	75.39%	4.262%
17	17.551	17.498	17.614	BB	400816	5630196	75.73%	4.281%
18	18.383	18.328	18.441	BB	366233	5417986	72.87%	4.120%
19	19.165	19.121	19.228	BB	333071	5059593	68.05%	3.848%
20	19.902	19.851	19.969	BBA	324588	4533198	60.97%	3.447%
21	20.614	20.551	20.684	BB	260933	4246406	57.12%	3.229%
22	21.465	21.391	21.554	BB	175049	4122486	55.45%	3.135%

Sum of corrected areas: 131502620

Aliphatic EPH 021125.M Tue Feb 11 02:39:29 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068254.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:38
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 11 02:30:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.400	3070458	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12)	S 1-chlorooctadecane (S...	12.842	2258872	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1)	T n-Nonane (C9)	3.208	2833506	20.000 ug/ml
2)	T n-Decane (C10)	4.265	2853357	20.000 ug/ml
3)	T A~Naphthalene (C11.7)	5.831	3094970	20.000 ug/ml
4)	T n-Dodecane (C12)	6.273	2824656	20.000 ug/ml
5)	T A~2-methylnaphthalene...	6.884	2932900	20.000 ug/ml
6)	T n-Tetradecane (C14)	8.062	2726217	20.000 ug/ml
7)	T n-Hexadecane (C16)	9.657	2745870	20.000 ug/ml
8)	T n-Octadecane (C18)	11.095	2740539	20.000 ug/ml
10)	T n-Eicosane (C20)	12.401	2610929	20.000 ug/ml
11)	T n-Heneicosane (C21)	13.011	2556207	20.000 ug/ml
13)	T n-Docosane (C22)	13.596	2524938	20.000 ug/ml
14)	T n-Tetracosane (C24)	14.696	2490472	20.000 ug/ml
15)	T n-Hexacosane (C26)	15.714	2438036	20.000 ug/ml
16)	T n-Octacosane (C28)	16.662	2381498	20.000 ug/ml
17)	T n-Tricontane (C30)	17.549	2400071	20.000 ug/ml
18)	T n-Dotriacontane (C32)	18.380	2311459	20.000 ug/ml
19)	T n-Tetratriacontane (C34)	19.161	2154239	20.000 ug/ml
20)	T n-Hexatriacontane (C36)	19.900	1921336	20.000 ug/ml
21)	T n-Octatriacontane (C38)	20.611	1804172	20.000 ug/ml
22)	T n-Tetracontane (C40)	21.463	1733236	20.000 ug/ml

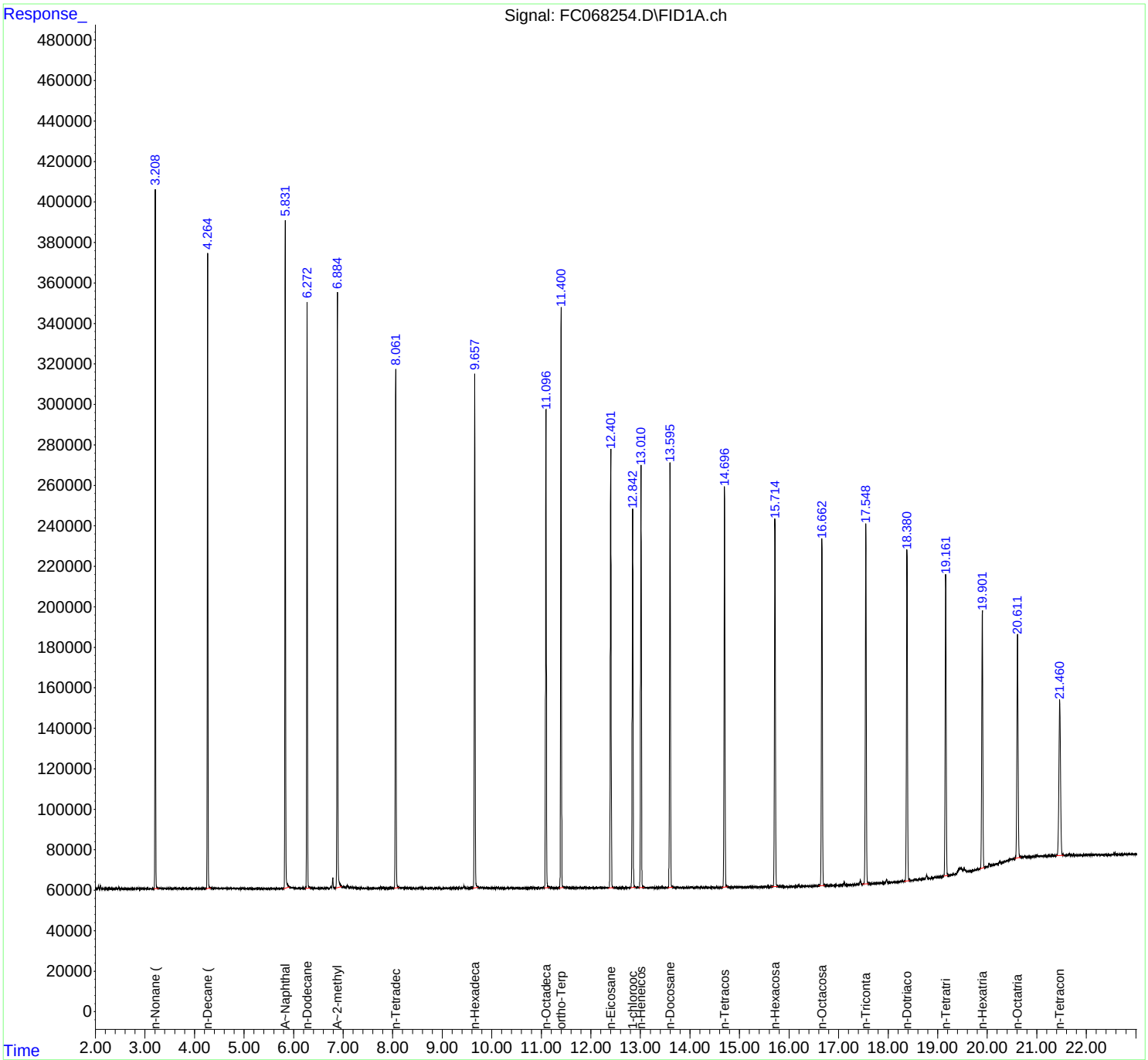
(f)=RT Delta > 1/2 Window (m)=manual int.

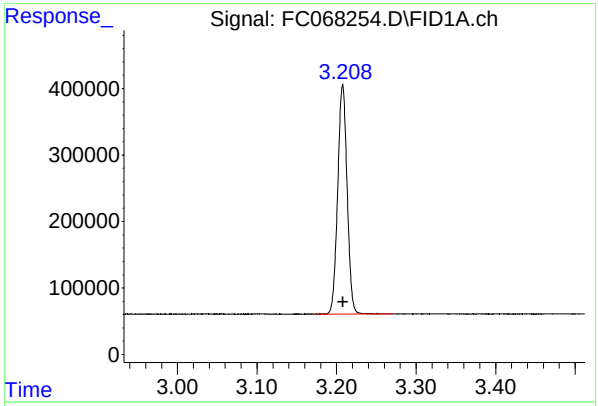
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068254.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:38
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 11 02:30:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

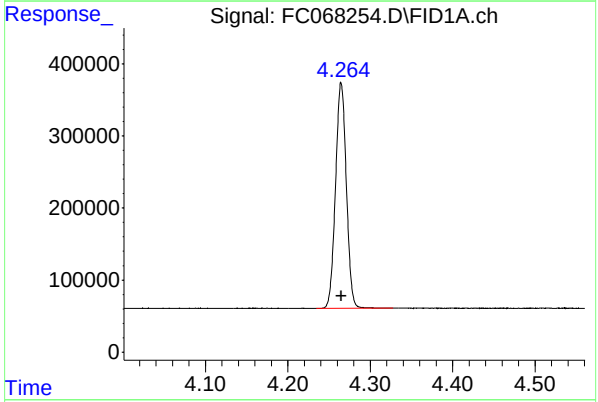




#1 n-Nonane (C9)

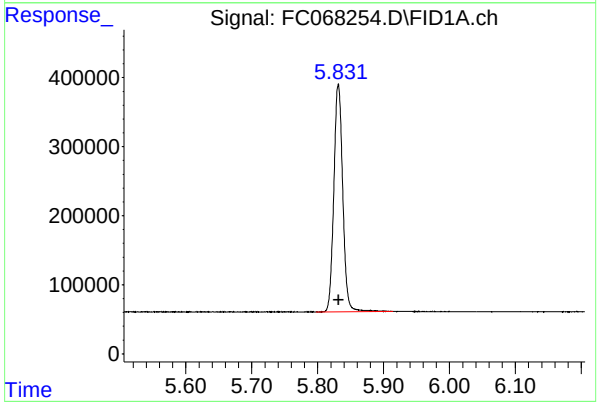
R.T.: 3.208 min
Delta R.T.: 0.000 min
Response: 2833506
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



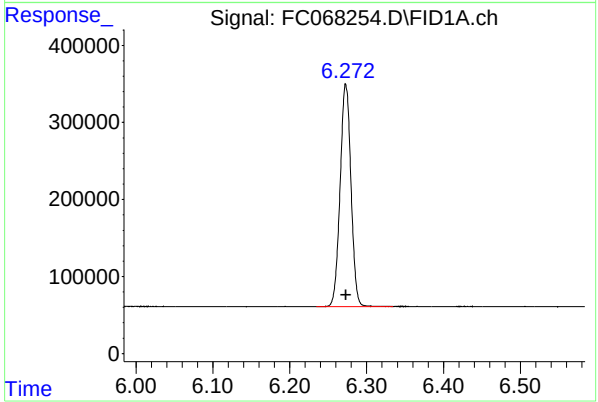
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 2853357
Conc: 20.00 ug/ml



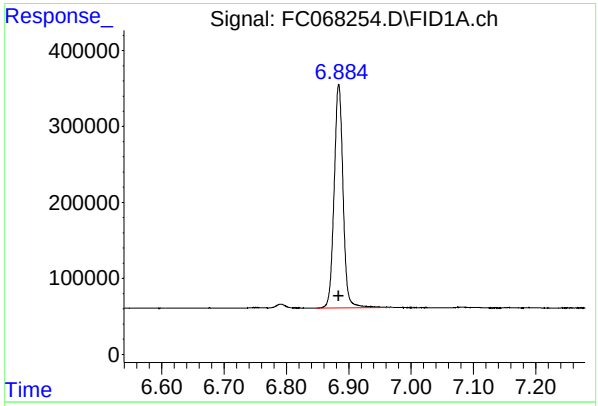
#3 A~Naphthalene (C11.7)

R.T.: 5.831 min
Delta R.T.: 0.000 min
Response: 3094970
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

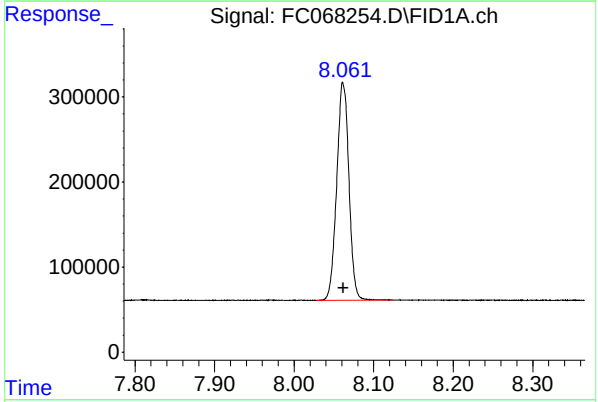
R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 2824656
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

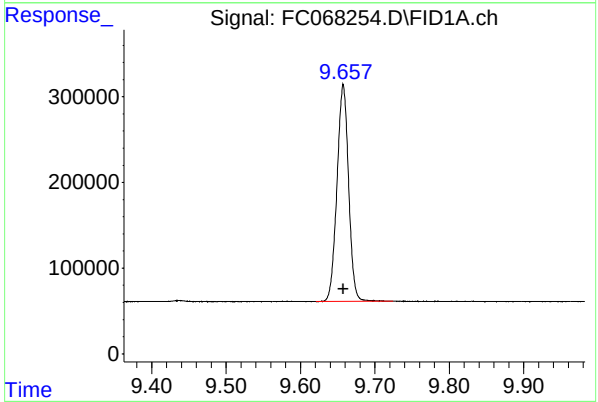
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 2932900
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



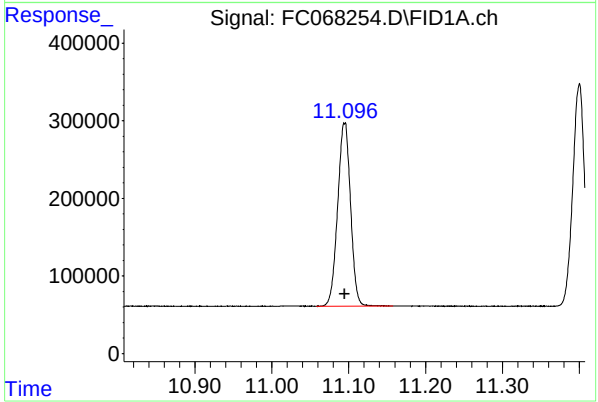
#6 n-Tetradecane (C14)

R.T.: 8.062 min
Delta R.T.: 0.000 min
Response: 2726217
Conc: 20.00 ug/ml



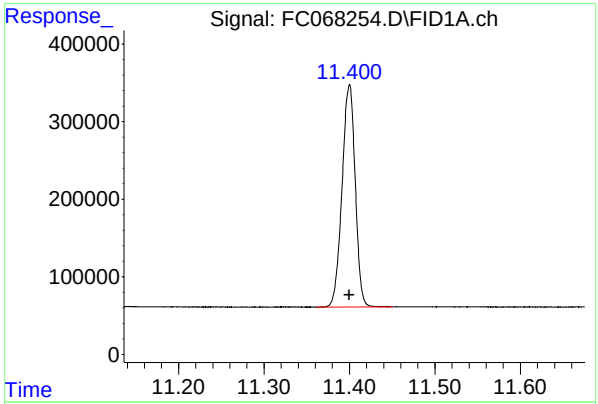
#7 n-Hexadecane (C16)

R.T.: 9.657 min
Delta R.T.: 0.000 min
Response: 2745870
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

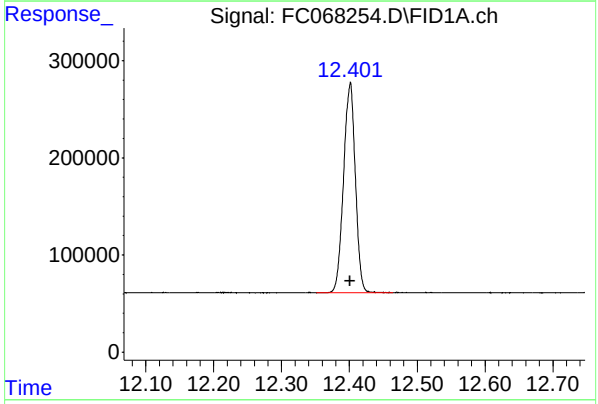
R.T.: 11.095 min
Delta R.T.: 0.000 min
Response: 2740539
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

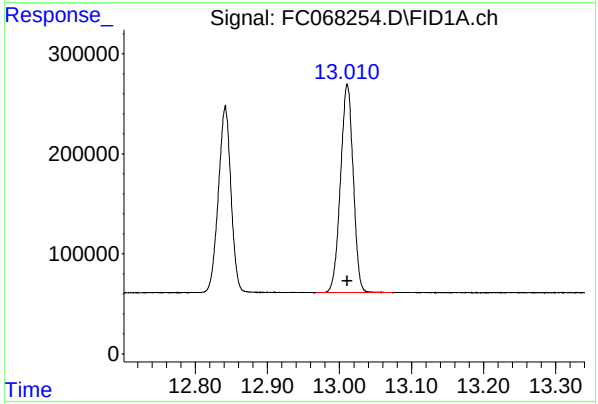
R.T.: 11.400 min
Delta R.T.: 0.000 min
Response: 3070458
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



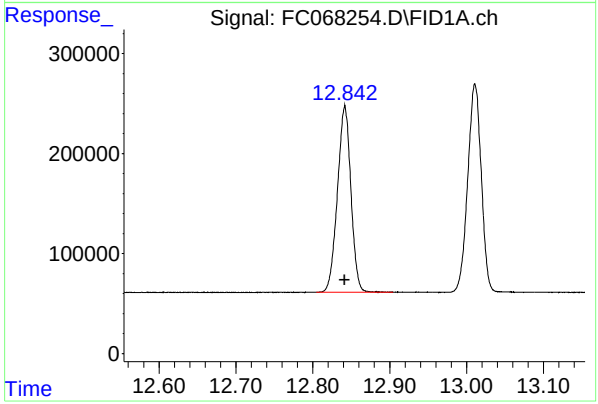
#10 n-Eicosane (C20)

R.T.: 12.401 min
Delta R.T.: 0.000 min
Response: 2610929
Conc: 20.00 ug/ml



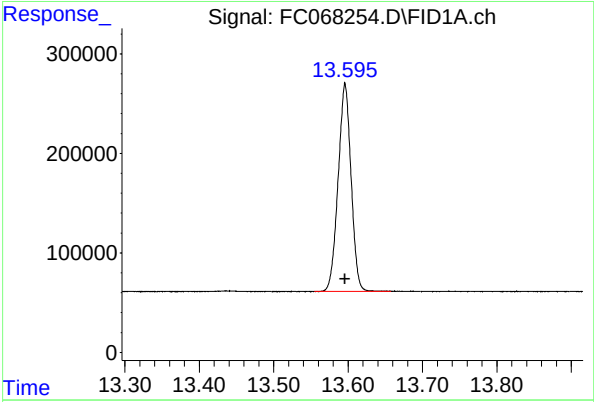
#11 n-Heneicosane (C21)

R.T.: 13.011 min
Delta R.T.: 0.000 min
Response: 2556207
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

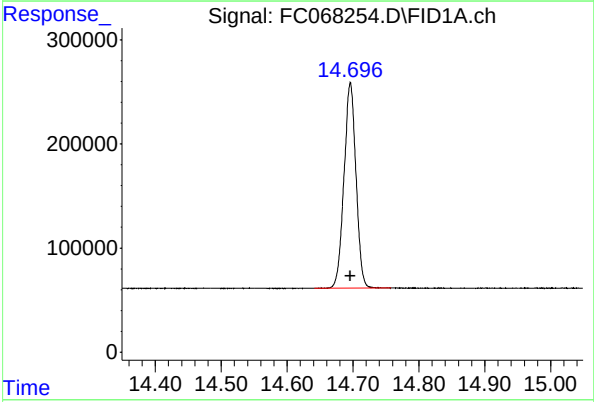
R.T.: 12.842 min
Delta R.T.: 0.000 min
Response: 2258872
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

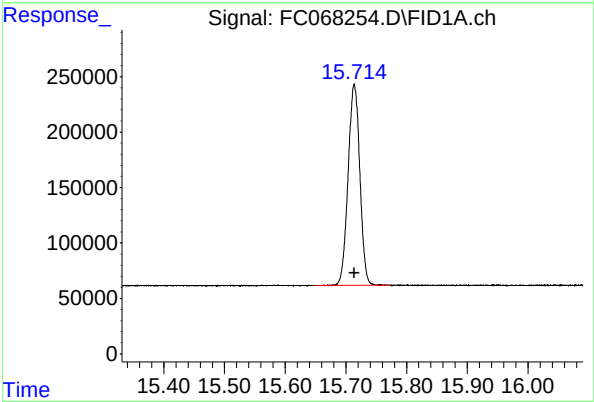
R.T.: 13.596 min
Delta R.T.: 0.000 min
Response: 2524938
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



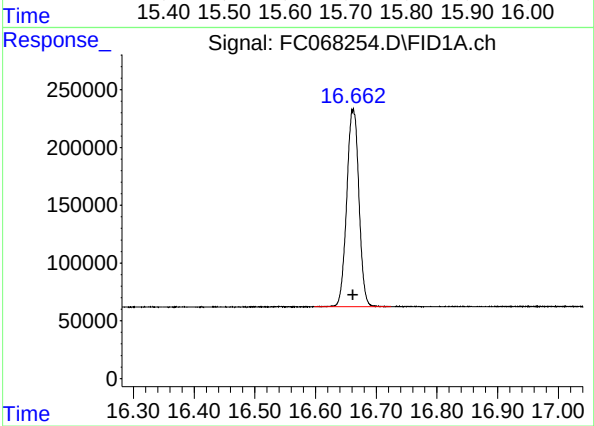
#14 n-Tetracosane (C24)

R.T.: 14.696 min
Delta R.T.: 0.000 min
Response: 2490472
Conc: 20.00 ug/ml



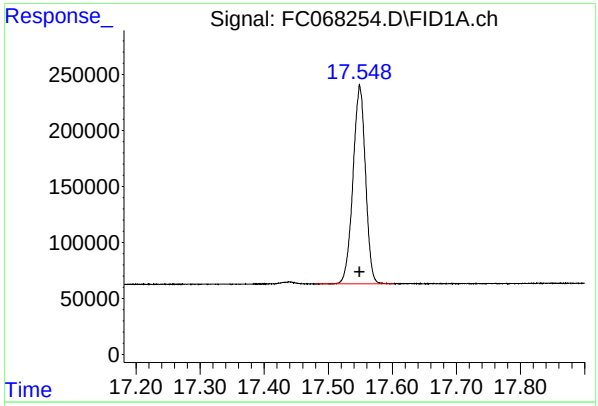
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 2438036
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

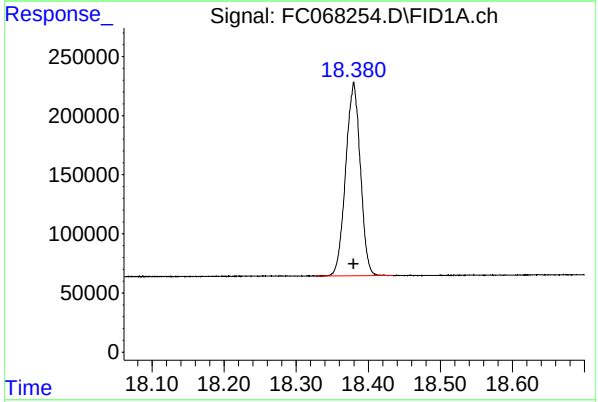
R.T.: 16.662 min
Delta R.T.: 0.000 min
Response: 2381498
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

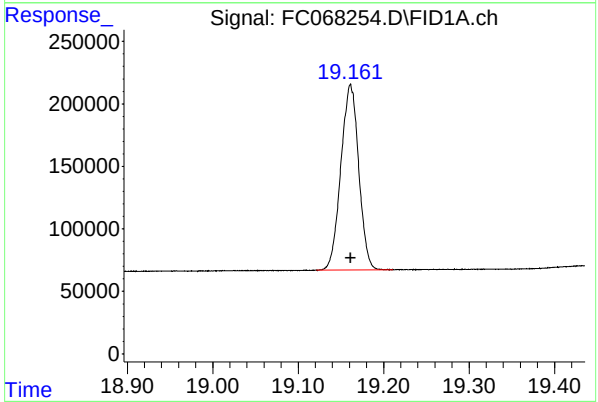
R.T.: 17.549 min
Delta R.T.: 0.000 min
Response: 2400071
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



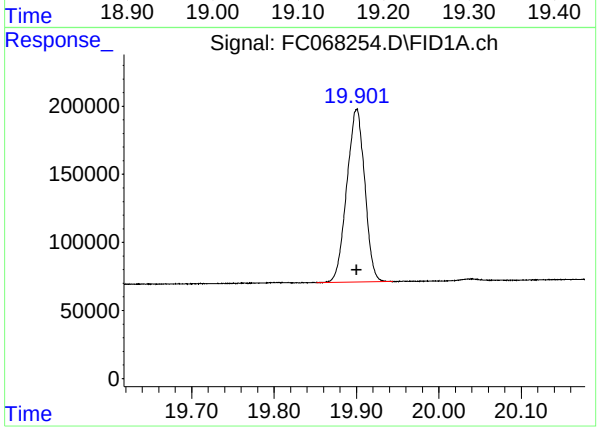
#18 n-Dotriacontane (C32)

R.T.: 18.380 min
Delta R.T.: 0.000 min
Response: 2311459
Conc: 20.00 ug/ml



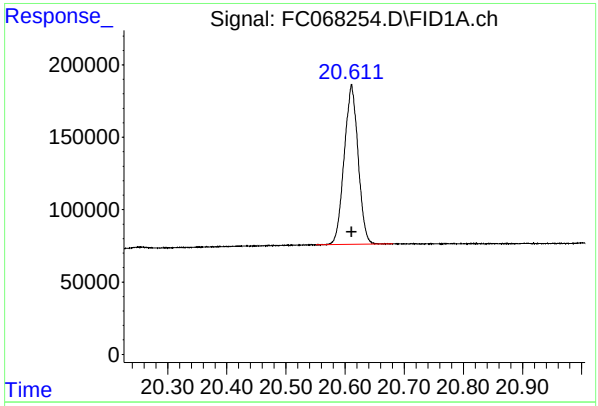
#19 n-Tetratriacontane (C34)

R.T.: 19.161 min
Delta R.T.: 0.000 min
Response: 2154239
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

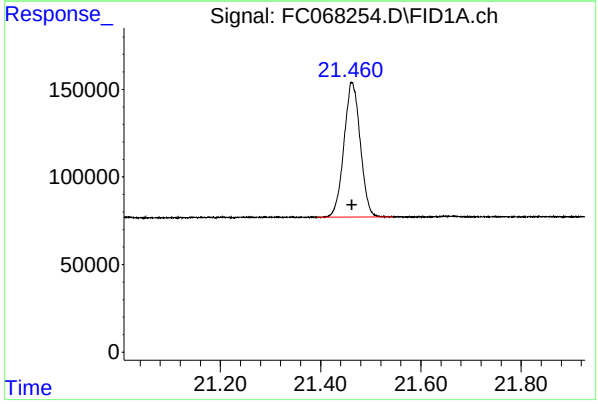
R.T.: 19.900 min
Delta R.T.: 0.000 min
Response: 1921336
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.611 min
Delta R.T.: 0.000 min
Response: 1804172
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.463 min
Delta R.T.: 0.000 min
Response: 1733236
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068254.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:38
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.208	3.174	3.271	BB	344103	2833506	91.55%	5.114%
2	4.265	4.234	4.328	BB	312569	2853357	92.19%	5.150%
3	5.831	5.798	5.914	BB	329933	3094970	100.00%	5.586%
4	6.273	6.234	6.334	BB	287834	2824656	91.27%	5.098%
5	6.884	6.848	6.971	BB	294443	2932900	94.76%	5.293%
6	8.062	8.028	8.124	BB	257216	2726217	88.09%	4.920%
7	9.657	9.621	9.724	BB	252359	2745870	88.72%	4.956%
8	11.095	11.058	11.158	BB	236897	2740539	88.55%	4.946%
9	11.400	11.361	11.451	BB	288971	3070458	99.21%	5.542%
10	12.401	12.351	12.464	BB	215019	2610929	84.36%	4.712%
11	12.842	12.804	12.904	BB	185197	2258872	72.99%	4.077%
12	13.011	12.968	13.074	BB	208305	2556207	82.59%	4.613%
13	13.596	13.554	13.658	BB	206427	2524938	81.58%	4.557%
14	14.696	14.641	14.758	BB	197006	2490472	80.47%	4.495%
15	15.714	15.648	15.774	BB	180907	2438036	78.77%	4.400%
16	16.662	16.598	16.724	BB	171177	2381498	76.95%	4.298%
17	17.549	17.481	17.601	BB	174807	2400071	77.55%	4.332%
18	18.380	18.328	18.434	BB	162329	2311459	74.68%	4.172%
19	19.161	19.121	19.211	BB	148420	2154239	69.60%	3.888%
20	19.900	19.851	19.944	BB	127484	1921336	62.08%	3.468%
21	20.611	20.551	20.681	BB	109957	1804172	58.29%	3.256%
22	21.463	21.391	21.544	BB	77234	1733236	56.00%	3.128%
			Sum of corrected areas:			55407934		

Aliphatic EPH 021125.M Tue Feb 11 02:39:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068255.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:14
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 11 02:30:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.398	1614436	10.516 ug/ml
Spiked Amount	50.000		Recovery =	21.03%
12) S	1-chlorooctadecane (S...	12.840	1174811	10.402 ug/ml
Spiked Amount	50.000		Recovery =	20.80%
	Target Compounds			
1) T	n-Nonane (C9)	3.208	1490390	10.520 ug/ml
2) T	n-Decane (C10)	4.265	1497516	10.497 ug/ml
3) T	A~Naphthalene (C11.7)	5.832	1604467	10.368 ug/ml
4) T	n-Dodecane (C12)	6.273	1486768	10.527 ug/ml
5) T	A~2-methylnaphthalene...	6.884	1503396	10.252 ug/ml
6) T	n-Tetradecane (C14)	8.061	1434684	10.525 ug/ml
7) T	n-Hexadecane (C16)	9.656	1432035	10.430 ug/ml
8) T	n-Octadecane (C18)	11.093	1433269	10.460 ug/ml
10) T	n-Eicosane (C20)	12.400	1367303	10.474 ug/ml
11) T	n-Heneicosane (C21)	13.010	1344009	10.516 ug/ml
13) T	n-Docosane (C22)	13.595	1321567	10.468 ug/ml
14) T	n-Tetracosane (C24)	14.695	1302068	10.456 ug/ml
15) T	n-Hexacosane (C26)	15.714	1273525	10.447 ug/ml
16) T	n-Octacosane (C28)	16.661	1247372	10.476 ug/ml
17) T	n-Tricontane (C30)	17.547	1280217	10.668 ug/ml
18) T	n-Dotriacontane (C32)	18.378	1224121	10.592 ug/ml
19) T	n-Tetratriacontane (C34)	19.160	1138846	10.573 ug/ml
20) T	n-Hexatriacontane (C36)	19.898	1016654	10.583 ug/ml
21) T	n-Octatriacontane (C38)	20.611	943380	10.458 ug/ml
22) T	n-Tetracontane (C40)	21.461	910849	10.510 ug/ml

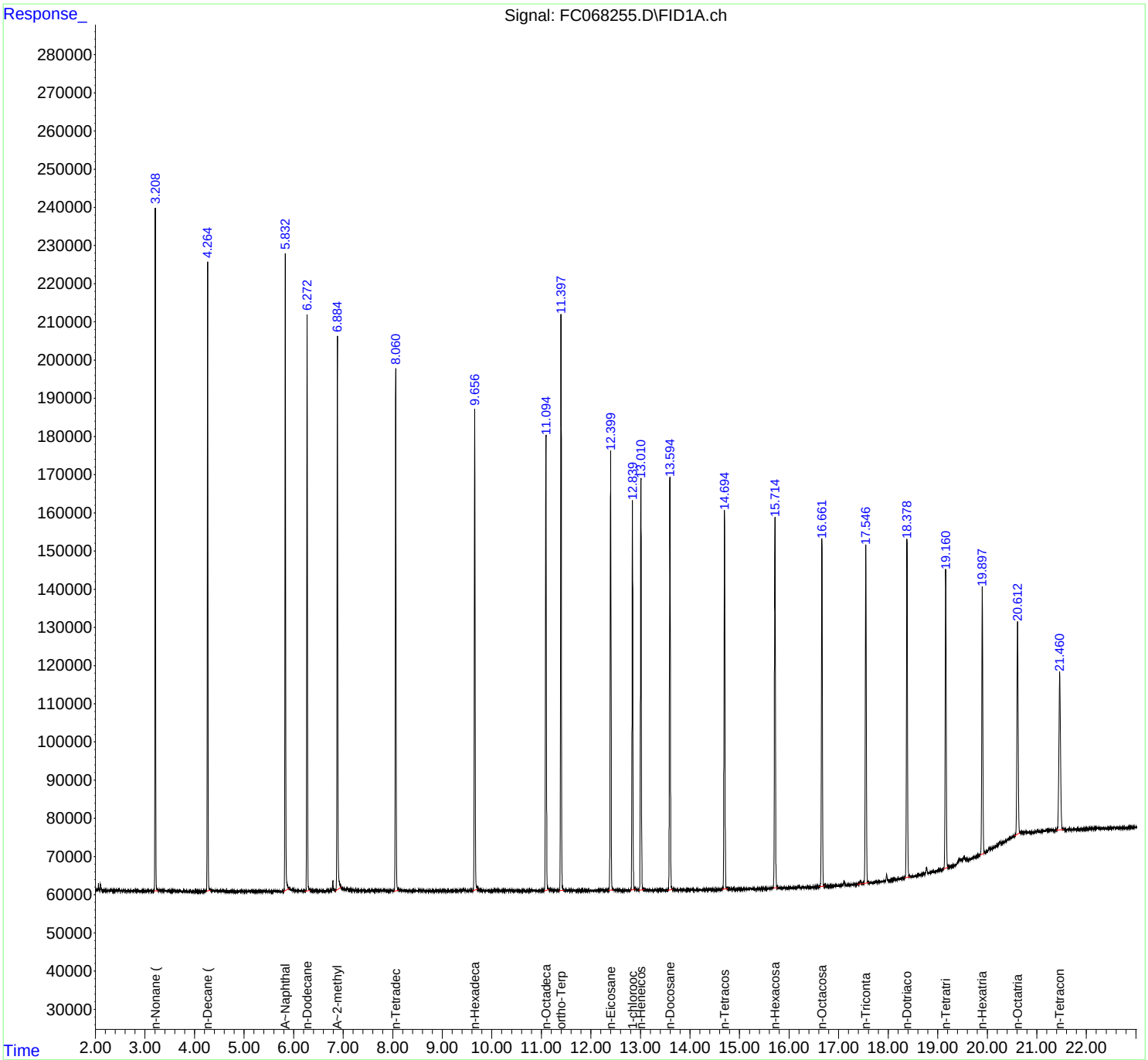
(f)=RT Delta > 1/2 Window (m)=manual int.

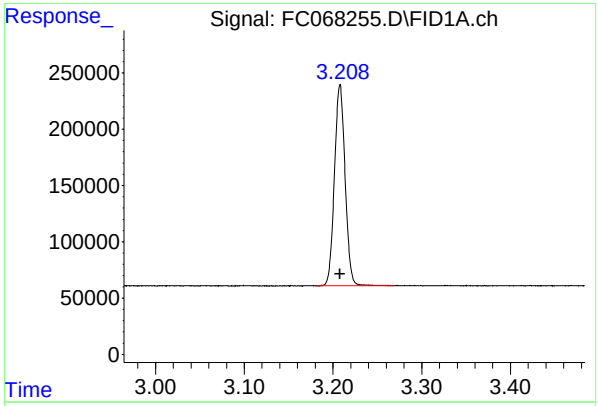
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068255.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:14
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 11 02:30:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

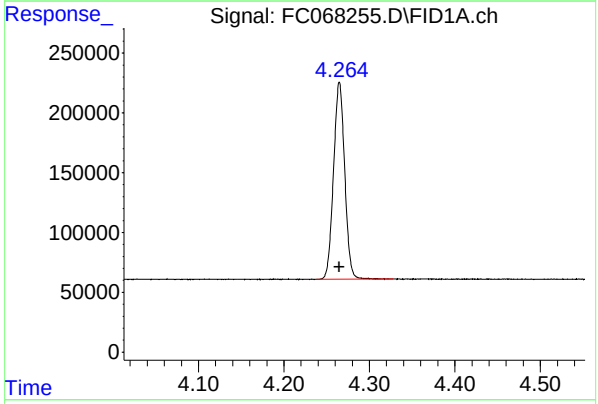




#1 n-Nonane (C9)

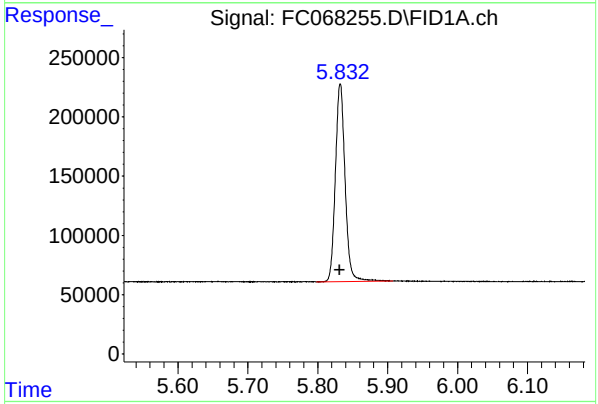
R.T.: 3.208 min
Delta R.T.: 0.000 min
Response: 1490390
Conc: 10.52 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



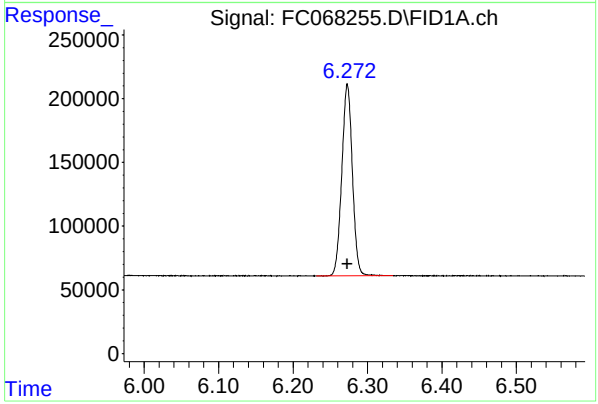
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 1497516
Conc: 10.50 ug/ml



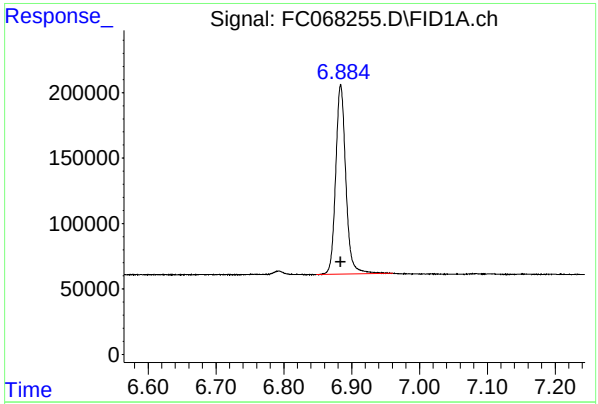
#3 A~Naphthalene (C11.7)

R.T.: 5.832 min
Delta R.T.: 0.000 min
Response: 1604467
Conc: 10.37 ug/ml



#4 n-Dodecane (C12)

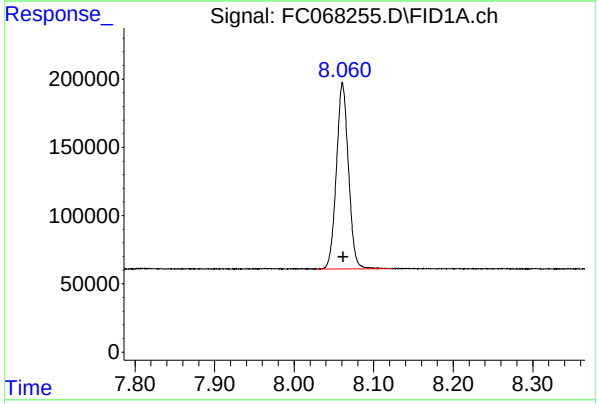
R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 1486768
Conc: 10.53 ug/ml



#5 A~2-methylnaphthalene (C12.89)

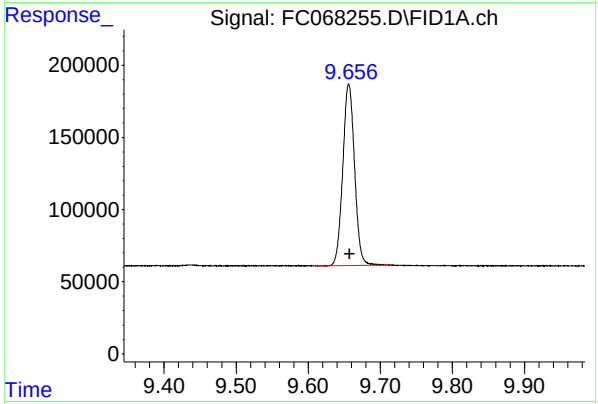
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 1503396
Conc: 10.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



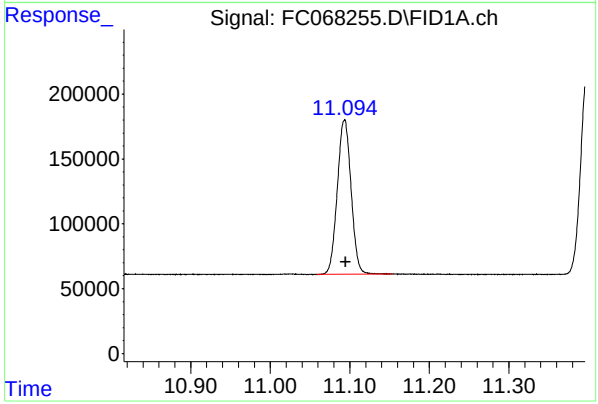
#6 n-Tetradecane (C14)

R.T.: 8.061 min
Delta R.T.: 0.000 min
Response: 1434684
Conc: 10.53 ug/ml



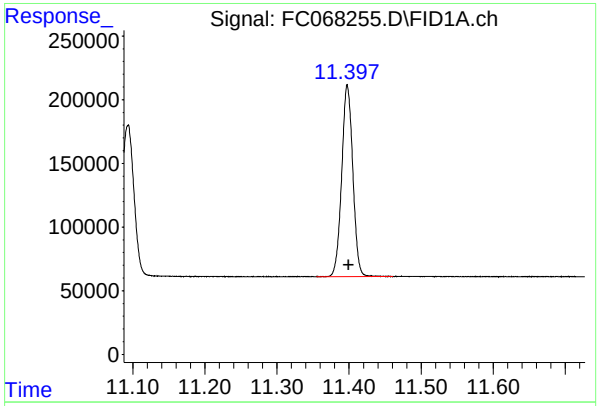
#7 n-Hexadecane (C16)

R.T.: 9.656 min
Delta R.T.: 0.000 min
Response: 1432035
Conc: 10.43 ug/ml



#8 n-Octadecane (C18)

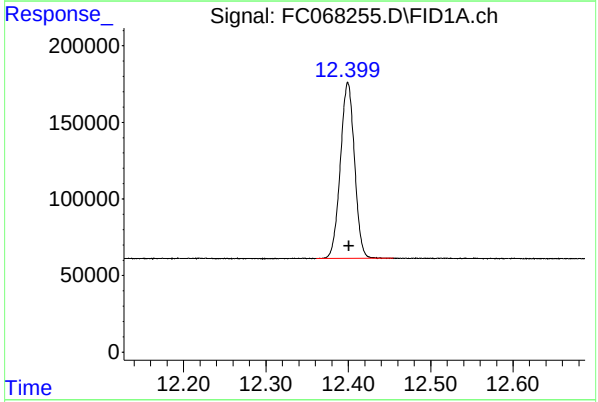
R.T.: 11.093 min
Delta R.T.: -0.001 min
Response: 1433269
Conc: 10.46 ug/ml



#9 ortho-Terphenyl (SURR)

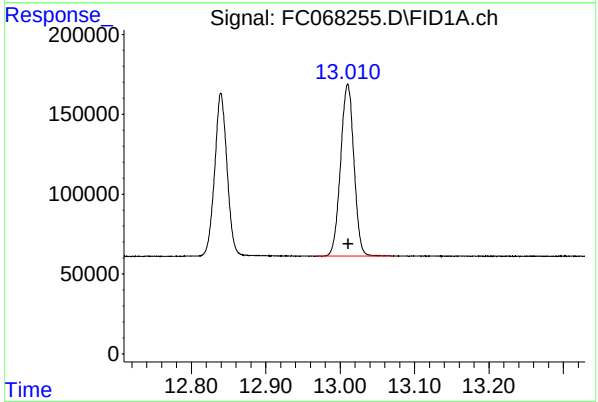
R.T.: 11.398 min
Delta R.T.: -0.002 min
Response: 1614436
Conc: 10.52 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



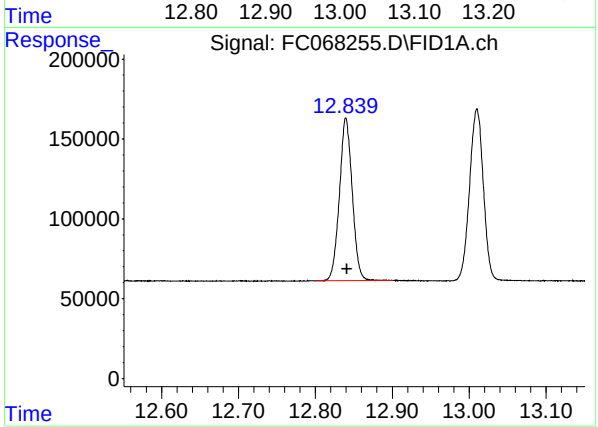
#10 n-Eicosane (C20)

R.T.: 12.400 min
Delta R.T.: -0.001 min
Response: 1367303
Conc: 10.47 ug/ml



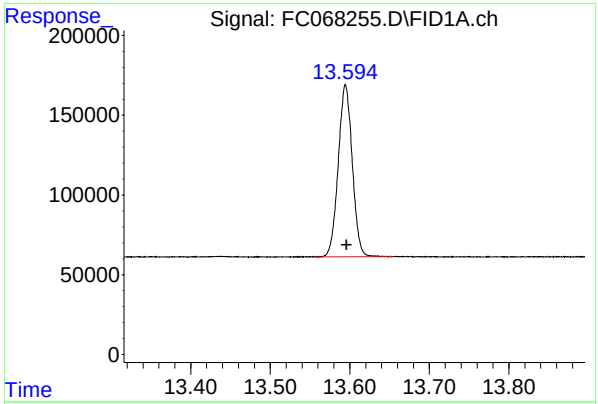
#11 n-Heneicosane (C21)

R.T.: 13.010 min
Delta R.T.: 0.000 min
Response: 1344009
Conc: 10.52 ug/ml



#12 1-chlorooctadecane (SURR)

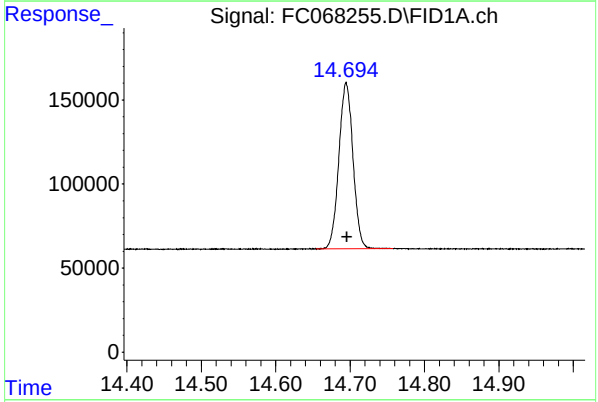
R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 1174811
Conc: 10.40 ug/ml



#13 n-Docosane (C22)

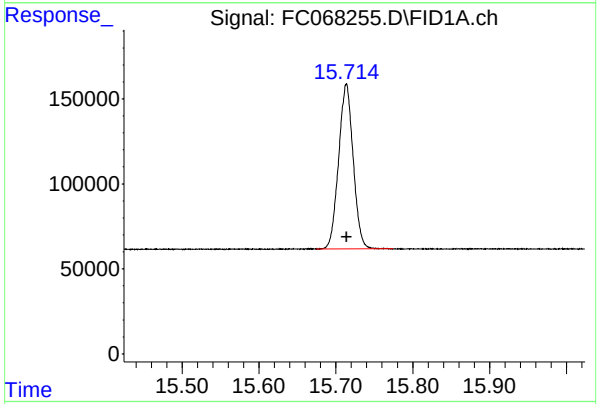
R.T.: 13.595 min
Delta R.T.: -0.001 min
Response: 1321567
Conc: 10.47 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



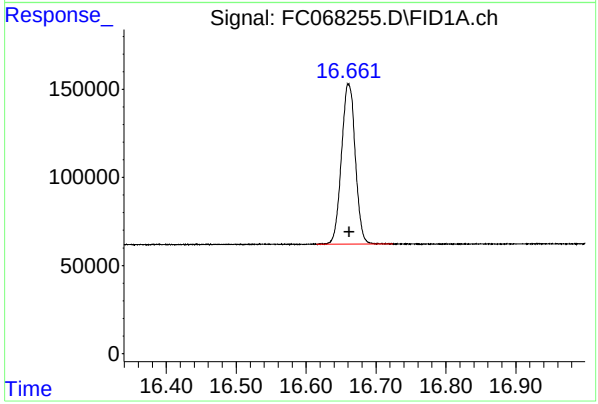
#14 n-Tetracosane (C24)

R.T.: 14.695 min
Delta R.T.: -0.001 min
Response: 1302068
Conc: 10.46 ug/ml



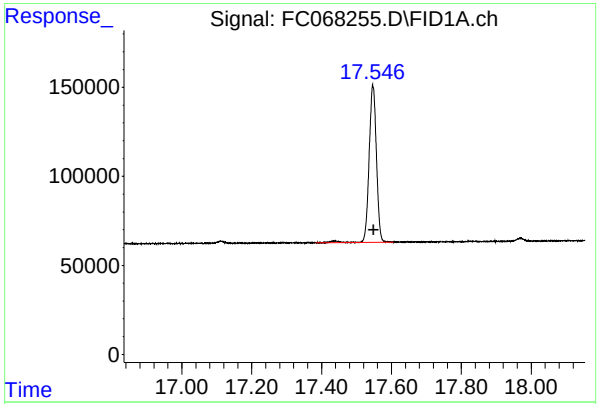
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 1273525
Conc: 10.45 ug/ml



#16 n-Octacosane (C28)

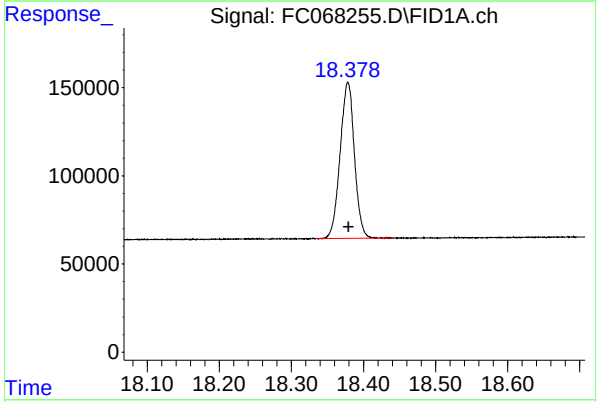
R.T.: 16.661 min
Delta R.T.: -0.001 min
Response: 1247372
Conc: 10.48 ug/ml



#17 n-Tricontane (C30)

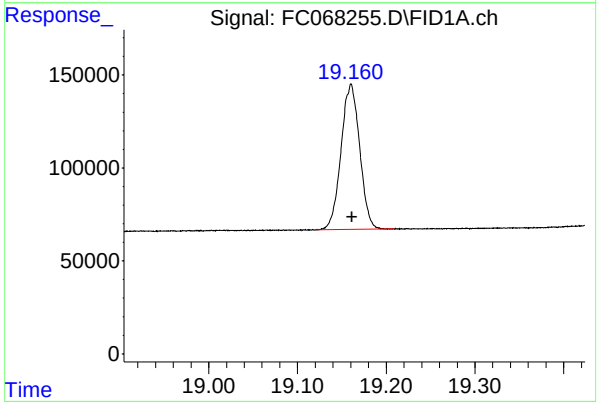
R.T.: 17.547 min
Delta R.T.: -0.002 min
Response: 1280217
Conc: 10.67 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



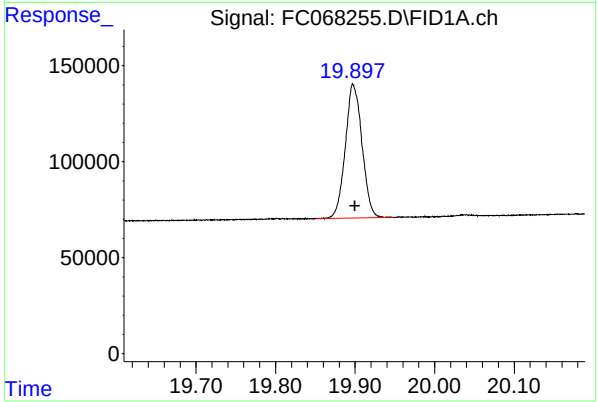
#18 n-Dotriacontane (C32)

R.T.: 18.378 min
Delta R.T.: -0.001 min
Response: 1224121
Conc: 10.59 ug/ml



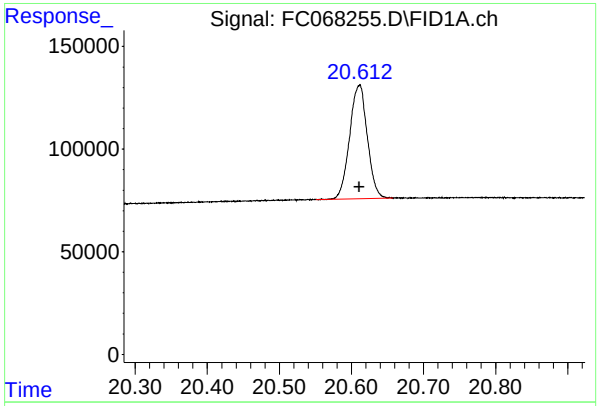
#19 n-Tetratriacontane (C34)

R.T.: 19.160 min
Delta R.T.: -0.001 min
Response: 1138846
Conc: 10.57 ug/ml



#20 n-Hexatriacontane (C36)

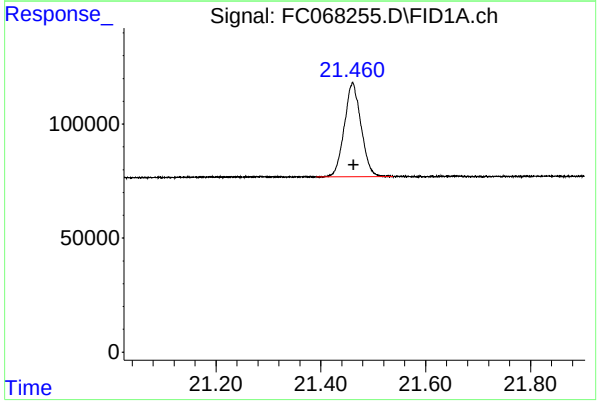
R.T.: 19.898 min
Delta R.T.: -0.002 min
Response: 1016654
Conc: 10.58 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.611 min
Delta R.T.: 0.000 mi
Response: 943380
Conc: 10.46 ug/m

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.461 min
Delta R.T.: -0.002 min
Response: 910849
Conc: 10.51 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068255.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:14
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.208	3.181	3.268	BB	177887	1490390	92.32%	5.132%
2	4.265	4.238	4.328	BB	163966	1497516	92.76%	5.156%
3	5.832	5.798	5.908	BB	166500	1604467	99.38%	5.525%
4	6.273	6.231	6.334	BB	149363	1486768	92.09%	5.119%
5	6.884	6.848	6.961	BB	144374	1503396	93.12%	5.177%
6	8.061	8.028	8.124	BB	135629	1434684	88.87%	4.940%
7	9.656	9.611	9.718	BB	125467	1432035	88.70%	4.931%
8	11.093	11.058	11.154	BB	119437	1433269	88.78%	4.935%
9	11.398	11.354	11.461	BB	150022	1614436	100.00%	5.559%
10	12.400	12.361	12.454	BB	114828	1367303	84.69%	4.708%
11	12.840	12.801	12.901	BB	100668	1174811	72.77%	4.045%
12	13.010	12.968	13.071	BB	107522	1344009	83.25%	4.628%
13	13.595	13.558	13.654	BB	107806	1321567	81.86%	4.551%
14	14.695	14.654	14.758	BB	98638	1302068	80.65%	4.483%
15	15.714	15.674	15.774	BB	97396	1273525	78.88%	4.385%
16	16.661	16.614	16.724	BB	90943	1247372	77.26%	4.295%
17	17.547	17.384	17.604	BB	87801	1280217	79.30%	4.408%
18	18.378	18.334	18.441	BB	88680	1224121	75.82%	4.215%
19	19.160	19.121	19.208	BB	78237	1138846	70.54%	3.921%
20	19.898	19.851	19.948	BB	69453	1016654	62.97%	3.501%
21	20.611	20.551	20.658	BB	55376	943380	58.43%	3.248%
22	21.461	21.391	21.538	BB	41390	910849	56.42%	3.136%
			Sum of corrected areas:			29041681		

Aliphatic EPH 021125.M Tue Feb 11 02:40:05 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068256.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:50
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 11 02:30:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.397	824094	5.368 ug/ml
Spiked Amount	50.000		Recovery =	10.74%
12) S	1-chlorooctadecane (S...	12.840	593786	5.257 ug/ml
Spiked Amount	50.000		Recovery =	10.51%
	Target Compounds			
1) T	n-Nonane (C9)	3.208	739660	5.221 ug/ml
2) T	n-Decane (C10)	4.265	741867	5.200 ug/ml
3) T	A~Naphthalene (C11.7)	5.833	779725	5.039 ug/ml
4) T	n-Dodecane (C12)	6.273	740350	5.242 ug/ml
5) T	A~2-methylnaphthalene...	6.884	729676	4.976 ug/ml
6) T	n-Tetradecane (C14)	8.060	721115	5.290 ug/ml
7) T	n-Hexadecane (C16)	9.655	722933	5.266 ug/ml
8) T	n-Octadecane (C18)	11.093	728153	5.314 ug/ml
10) T	n-Eicosane (C20)	12.398	697130	5.340 ug/ml
11) T	n-Heneicosane (C21)	13.009	687316	5.378 ug/ml
13) T	n-Docosane (C22)	13.594	674382	5.342 ug/ml
14) T	n-Tetracosane (C24)	14.694	667971	5.364 ug/ml
15) T	n-Hexacosane (C26)	15.713	652733	5.355 ug/ml
16) T	n-Octacosane (C28)	16.660	639945	5.374 ug/ml
17) T	n-Tricontane (C30)	17.547	654656	5.455 ug/ml
18) T	n-Dotriacontane (C32)	18.378	639981	5.537 ug/ml
19) T	n-Tetratriacontane (C34)	19.160	592586	5.502 ug/ml
20) T	n-Hexatriacontane (C36)	19.899	518944	5.402 ug/ml
21) T	n-Octatriacontane (C38)	20.609	485383	5.381 ug/ml
22) T	n-Tetracontane (C40)	21.462	459428	5.301 ug/ml

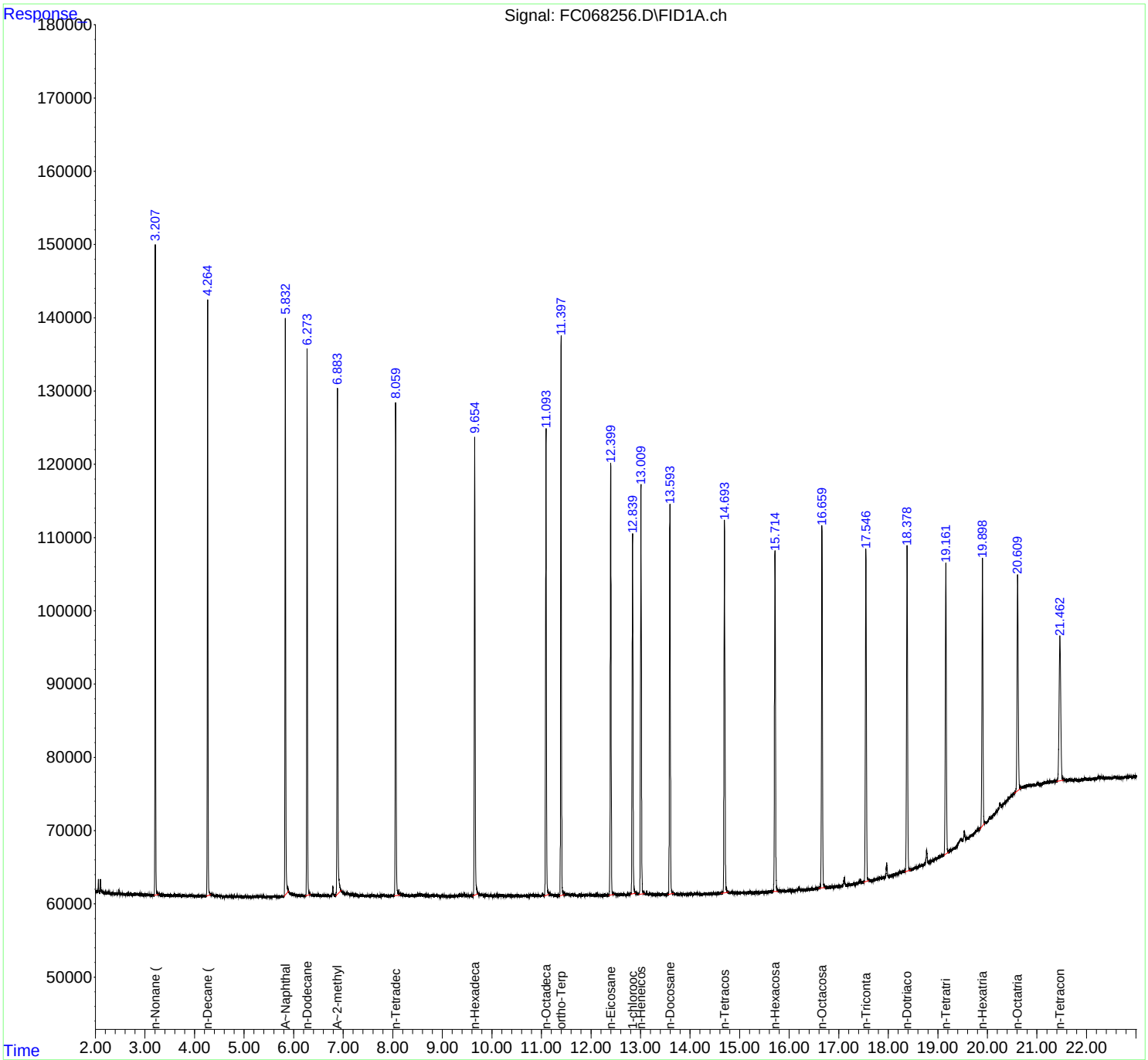
(f)=RT Delta > 1/2 Window (m)=manual int.

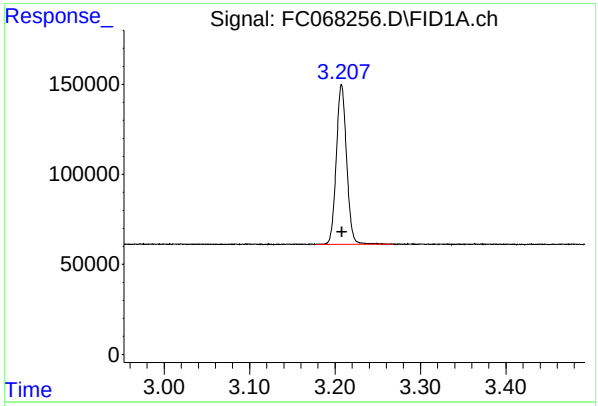
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068256.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:50
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 11 02:30:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

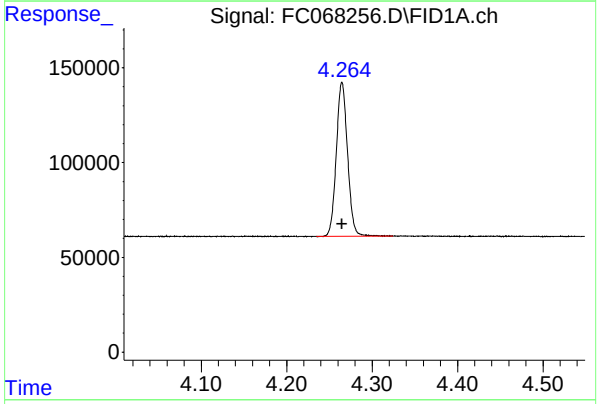




#1 n-Nonane (C9)

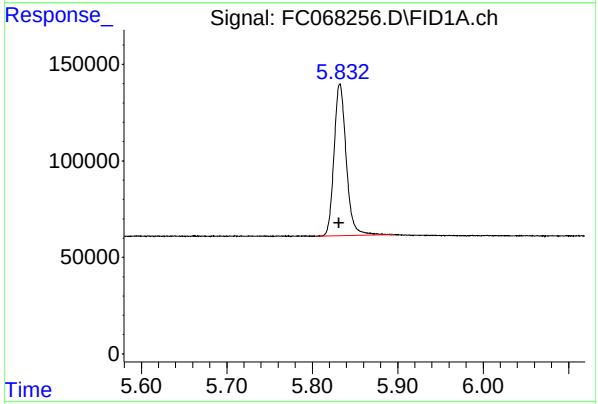
R.T.: 3.208 min
Delta R.T.: 0.000 min
Response: 739660
Conc: 5.22 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



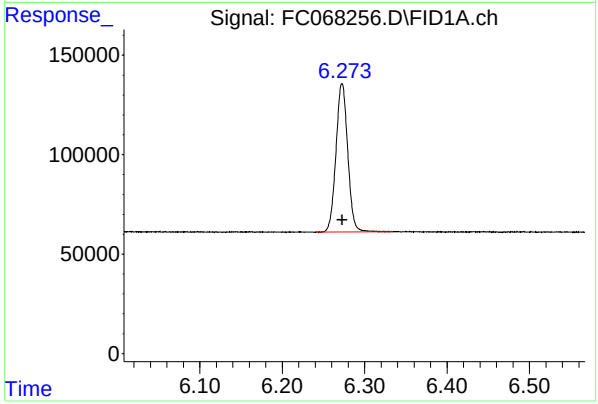
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 741867
Conc: 5.20 ug/ml



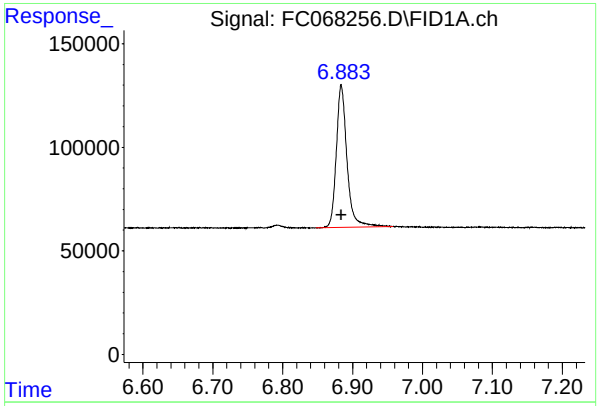
#3 A~Naphthalene (C11.7)

R.T.: 5.833 min
Delta R.T.: 0.001 min
Response: 779725
Conc: 5.04 ug/ml



#4 n-Dodecane (C12)

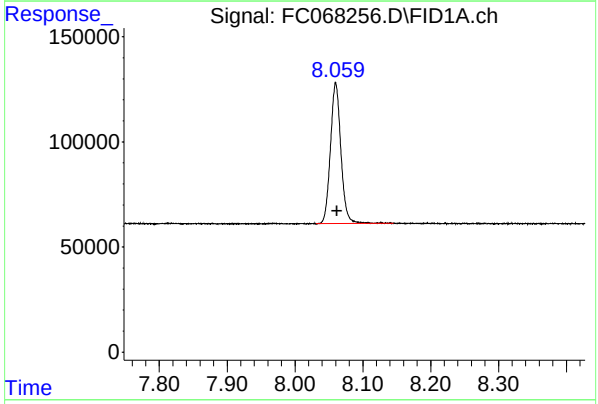
R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 740350
Conc: 5.24 ug/ml



#5 A~2-methylnaphthalene (C12.89)

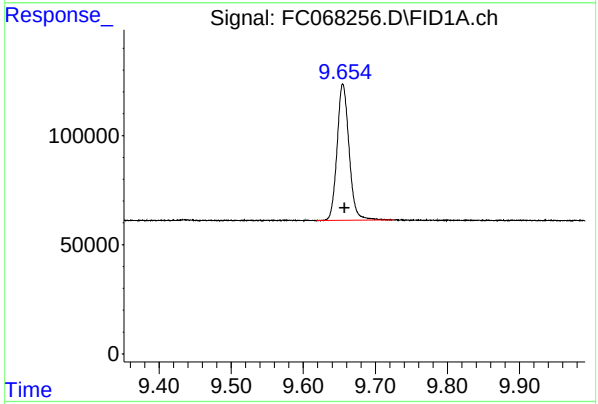
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 729676
Conc: 4.98 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



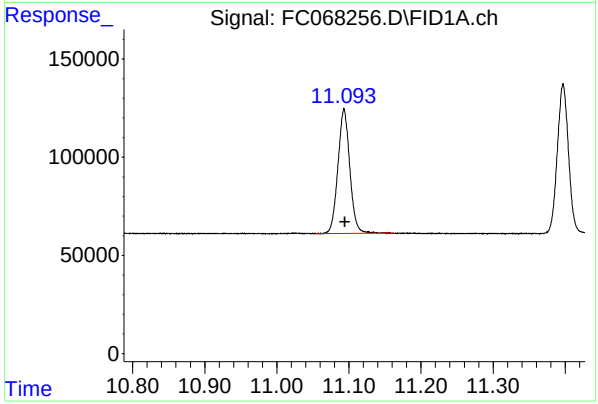
#6 n-Tetradecane (C14)

R.T.: 8.060 min
Delta R.T.: -0.002 min
Response: 721115
Conc: 5.29 ug/ml



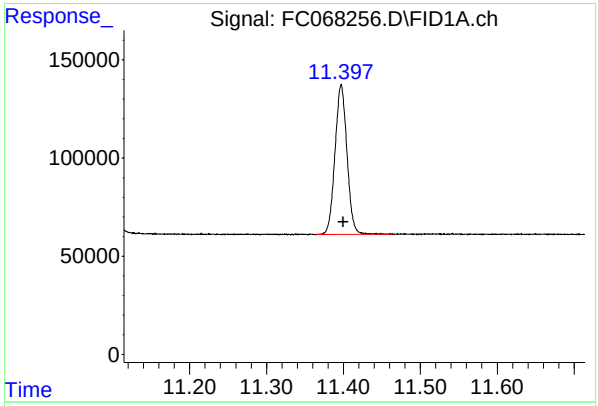
#7 n-Hexadecane (C16)

R.T.: 9.655 min
Delta R.T.: -0.002 min
Response: 722933
Conc: 5.27 ug/ml



#8 n-Octadecane (C18)

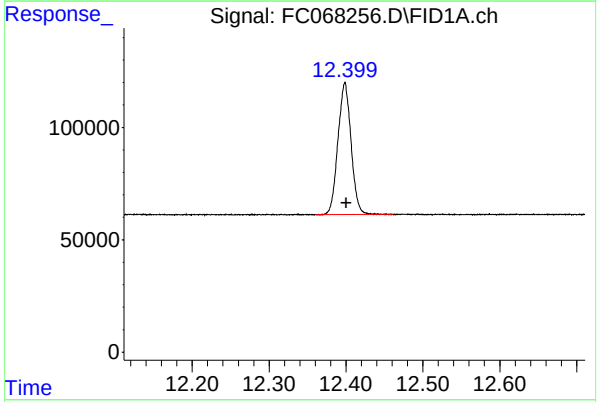
R.T.: 11.093 min
Delta R.T.: -0.001 min
Response: 728153
Conc: 5.31 ug/ml



#9 ortho-Terphenyl (SURR)

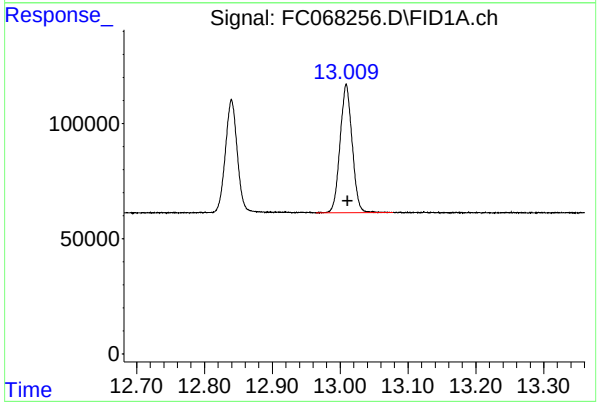
R.T.: 11.397 min
Delta R.T.: -0.003 min
Response: 824094
Conc: 5.37 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



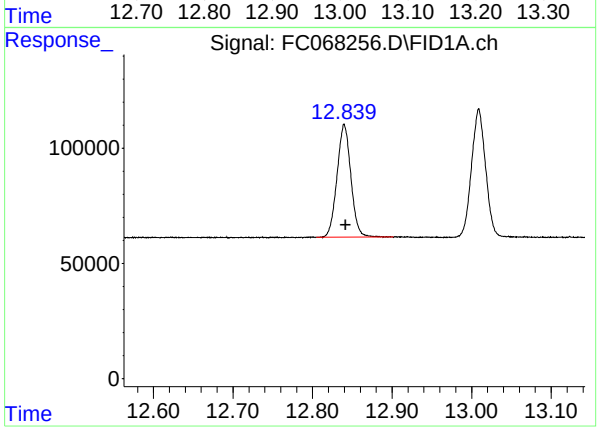
#10 n-Eicosane (C20)

R.T.: 12.398 min
Delta R.T.: -0.002 min
Response: 697130
Conc: 5.34 ug/ml



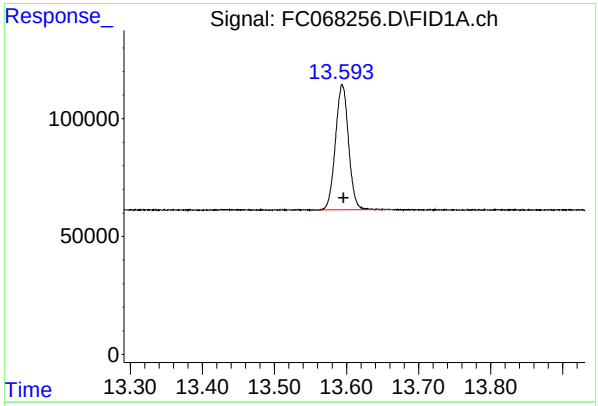
#11 n-Heneicosane (C21)

R.T.: 13.009 min
Delta R.T.: -0.002 min
Response: 687316
Conc: 5.38 ug/ml



#12 1-chlorooctadecane (SURR)

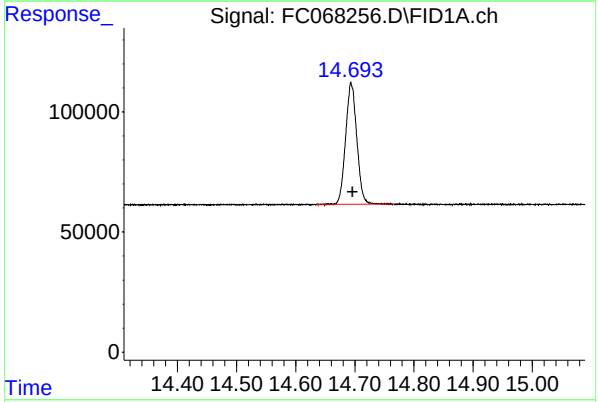
R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 593786
Conc: 5.26 ug/ml



#13 n-Docosane (C22)

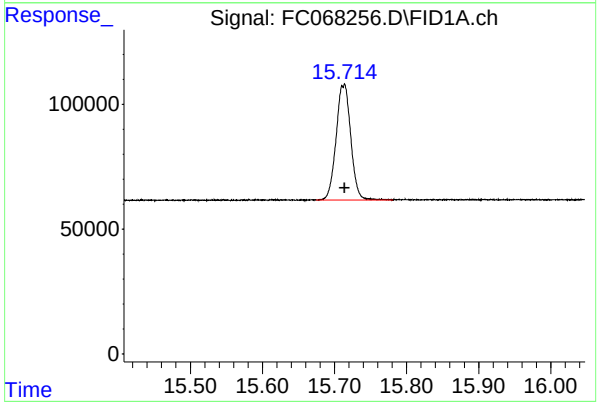
R.T.: 13.594 min
Delta R.T.: -0.002 min
Response: 674382
Conc: 5.34 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



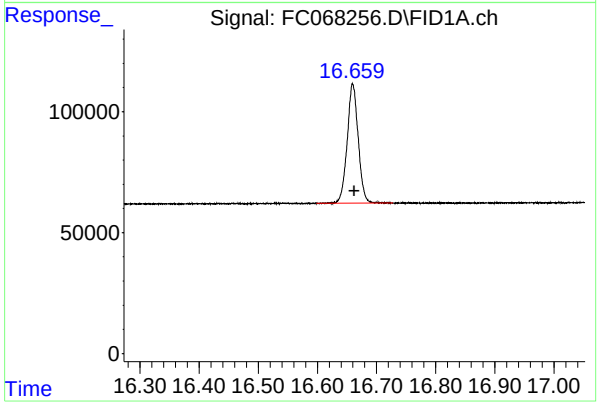
#14 n-Tetracosane (C24)

R.T.: 14.694 min
Delta R.T.: -0.002 min
Response: 667971
Conc: 5.36 ug/ml



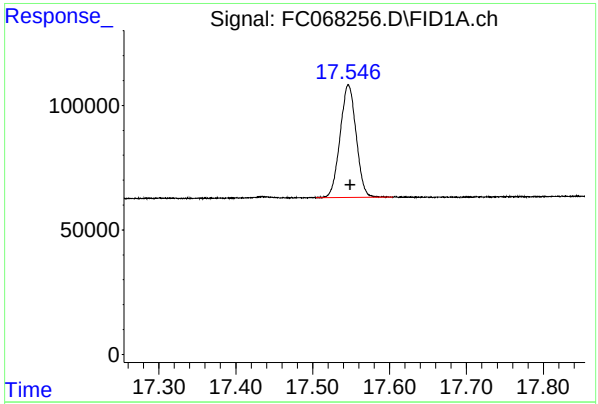
#15 n-Hexacosane (C26)

R.T.: 15.713 min
Delta R.T.: -0.001 min
Response: 652733
Conc: 5.35 ug/ml



#16 n-Octacosane (C28)

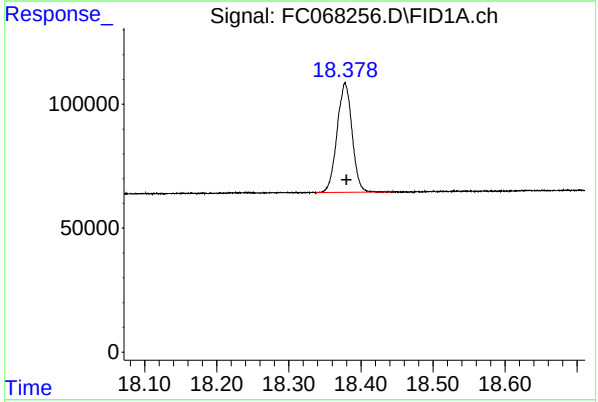
R.T.: 16.660 min
Delta R.T.: -0.002 min
Response: 639945
Conc: 5.37 ug/ml



#17 n-Tricontane (C30)

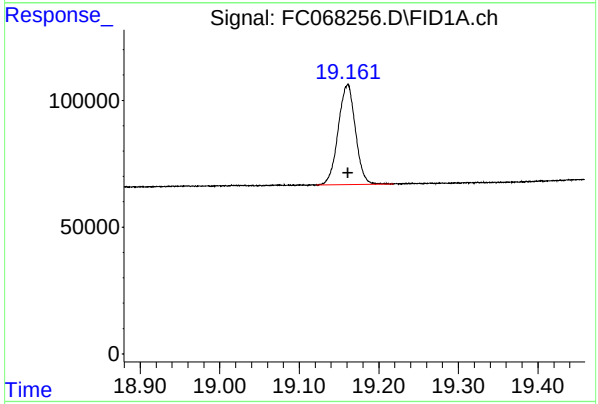
R.T.: 17.547 min
Delta R.T.: -0.002 min
Response: 654656
Conc: 5.46 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



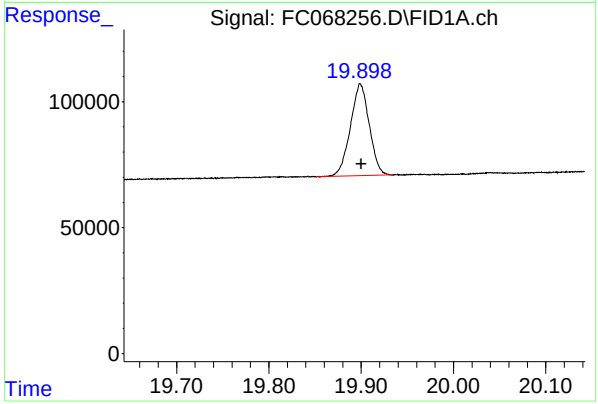
#18 n-Dotriacontane (C32)

R.T.: 18.378 min
Delta R.T.: -0.002 min
Response: 639981
Conc: 5.54 ug/ml



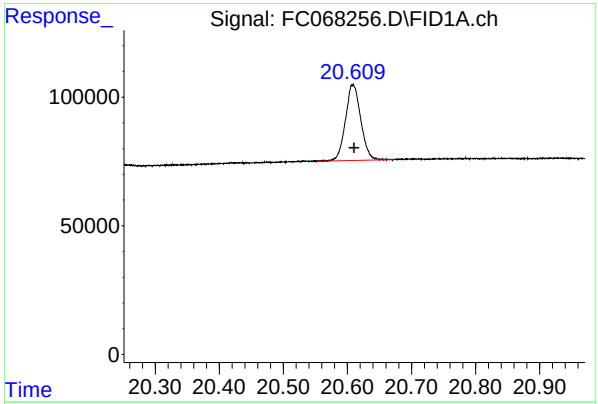
#19 n-Tetratriacontane (C34)

R.T.: 19.160 min
Delta R.T.: 0.000 min
Response: 592586
Conc: 5.50 ug/ml



#20 n-Hexatriacontane (C36)

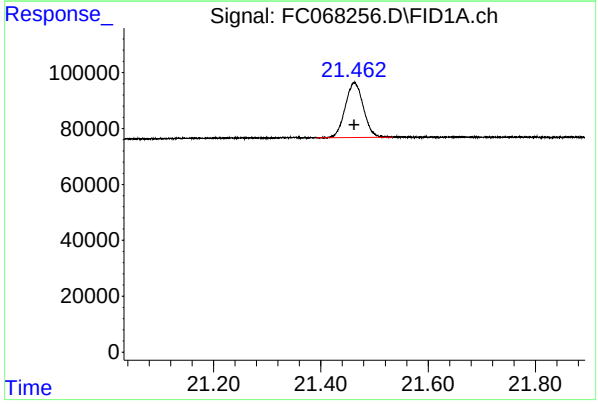
R.T.: 19.899 min
Delta R.T.: 0.000 min
Response: 518944
Conc: 5.40 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.609 min
Delta R.T.: -0.002 min
Response: 485383
Conc: 5.38 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.462 min
Delta R.T.: 0.000 min
Response: 459428
Conc: 5.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068256.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:50
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.208	3.178	3.268	BB	88225	739660	89.75%	5.035%
2	4.265	4.234	4.324	BB	81016	741867	90.02%	5.050%
3	5.833	5.804	5.894	BB	78603	779725	94.62%	5.307%
4	6.273	6.241	6.334	BB	74589	740350	89.84%	5.039%
5	6.884	6.848	6.958	BB	68142	729676	88.54%	4.967%
6	8.060	8.031	8.144	BB	66668	721115	87.50%	4.908%
7	9.655	9.618	9.724	BB	62427	722933	87.72%	4.921%
8	11.093	11.054	11.161	BB	62811	728153	88.36%	4.956%
9	11.397	11.364	11.464	BB	75900	824094	100.00%	5.609%
10	12.398	12.361	12.461	BB	58302	697130	84.59%	4.745%
11	12.840	12.804	12.901	BB	48610	593786	72.05%	4.042%
12	13.009	12.964	13.078	BB	55281	687316	83.40%	4.678%
13	13.594	13.558	13.664	BB	53078	674382	81.83%	4.590%
14	14.694	14.634	14.764	BB	50164	667971	81.06%	4.547%
15	15.713	15.674	15.781	BB	46241	652733	79.21%	4.443%
16	16.660	16.598	16.728	BB	48962	639945	77.65%	4.356%
17	17.547	17.504	17.604	BB	44994	654656	79.44%	4.456%
18	18.378	18.338	18.444	BB	44176	639981	77.66%	4.356%
19	19.160	19.121	19.218	BB	39586	592586	71.91%	4.033%
20	19.899	19.851	19.934	BB	36345	518944	62.97%	3.532%
21	20.609	20.551	20.671	BB	29349	485383	58.90%	3.304%
22	21.462	21.391	21.534	BB	19678	459428	55.75%	3.127%
			Sum of corrected areas:			14691811		

Aliphatic EPH 021125.M Tue Feb 11 02:40:20 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068257.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Feb 11 02:33:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.399	3006153	19.591 ug/ml
Spiked Amount	50.000		Recovery =	39.18%
12) S	1-chlorooctadecane (S...	12.841	2210712	19.655 ug/ml
Spiked Amount	50.000		Recovery =	39.31%
	Target Compounds			
1) T	n-Nonane (C9)	3.207	2763389	19.644 ug/ml
2) T	n-Decane (C10)	4.265	2787474	19.676 ug/ml
3) T	A~Naphthalene (C11.7)	5.832	3022645	19.751 ug/ml
4) T	n-Dodecane (C12)	6.274	2762475	19.626 ug/ml
5) T	A~2-methylnaphthalene...	6.884	2871264	19.825 ug/ml
6) T	n-Tetradecane (C14)	8.061	2665240	19.548 ug/ml
7) T	n-Hexadecane (C16)	9.657	2676698	19.543 ug/ml
8) T	n-Octadecane (C18)	11.095	2671678	19.536 ug/ml
10) T	n-Eicosane (C20)	12.401	2547036	19.549 ug/ml
11) T	n-Heneicosane (C21)	13.011	2500910	19.562 ug/ml
13) T	n-Docosane (C22)	13.595	2472408	19.618 ug/ml
14) T	n-Tetracosane (C24)	14.696	2447601	19.679 ug/ml
15) T	n-Hexacosane (C26)	15.714	2396918	19.713 ug/ml
16) T	n-Octacosane (C28)	16.662	2352553	19.808 ug/ml
17) T	n-Tricontane (C30)	17.548	2368324	19.676 ug/ml
18) T	n-Dotriacontane (C32)	18.379	2282342	19.664 ug/ml
19) T	n-Tetratriacontane (C34)	19.160	2121381	19.632 ug/ml
20) T	n-Hexatriacontane (C36)	19.898	1897153	19.727 ug/ml
21) T	n-Octatriacontane (C38)	20.609	1768616	19.674 ug/ml
22) T	n-Tetracontane (C40)	21.462	1709466	19.758 ug/ml

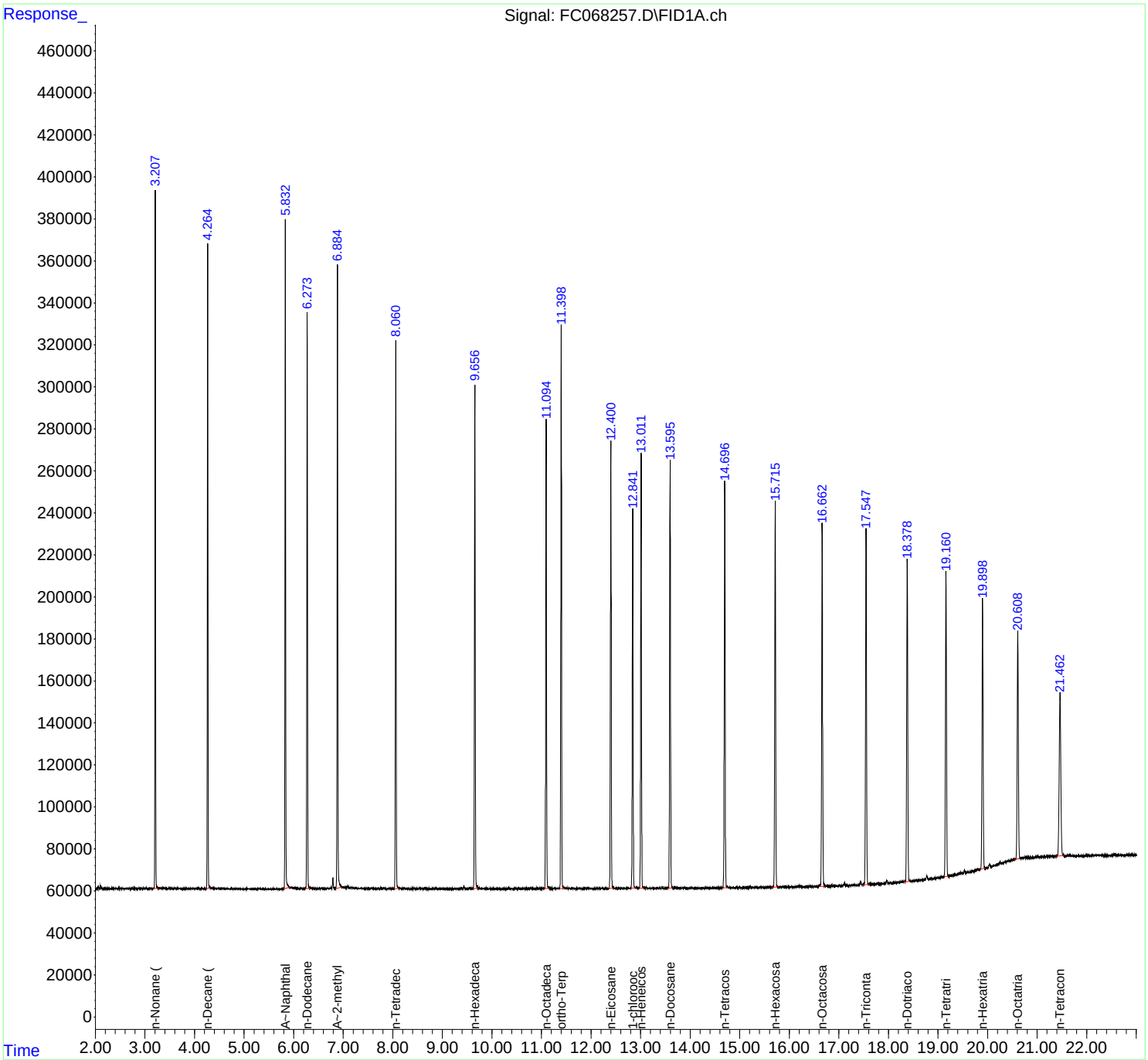
(f)=RT Delta > 1/2 Window (m)=manual int.

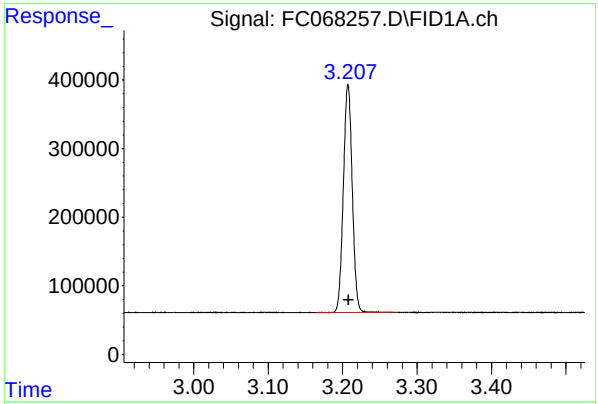
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068257.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Feb 11 02:33:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

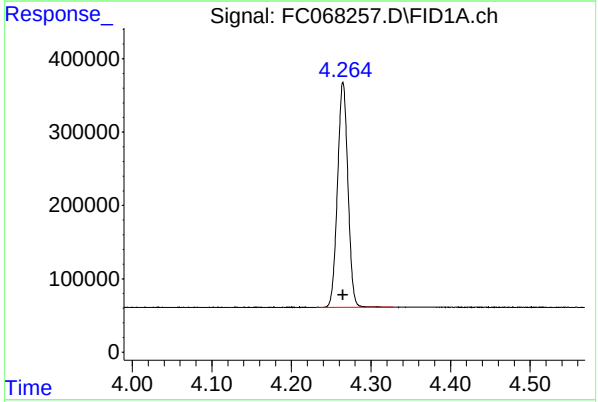




#1 n-Nonane (C9)

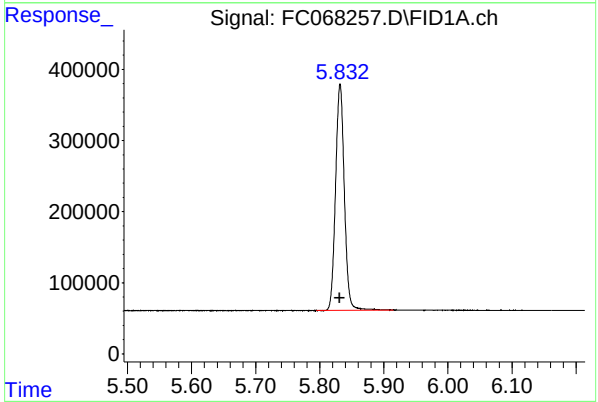
R.T.: 3.207 min
Delta R.T.: 0.000 min
Response: 2763389
Conc: 19.64 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



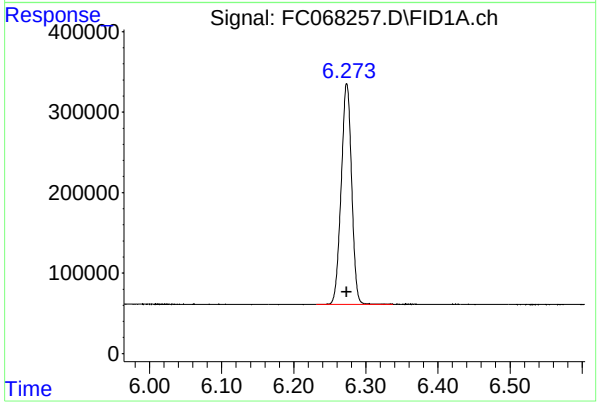
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 2787474
Conc: 19.68 ug/ml



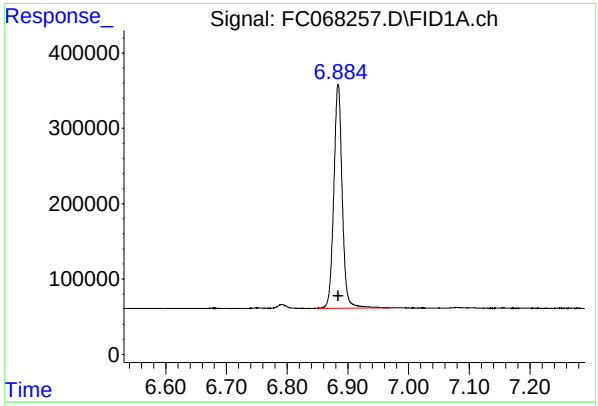
#3 A~Naphthalene (C11.7)

R.T.: 5.832 min
Delta R.T.: 0.000 min
Response: 3022645
Conc: 19.75 ug/ml



#4 n-Dodecane (C12)

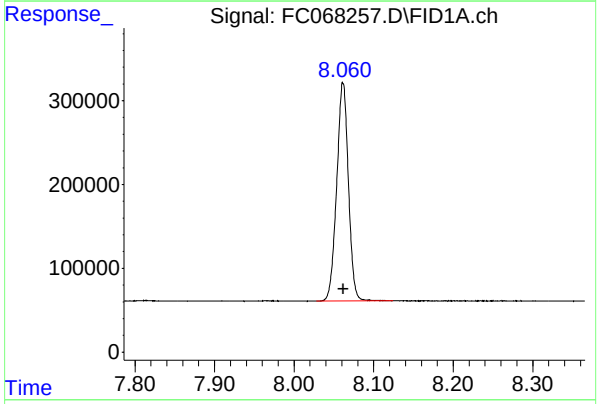
R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 2762475
Conc: 19.63 ug/ml



#5 A~2-methylnaphthalene (C12.89)

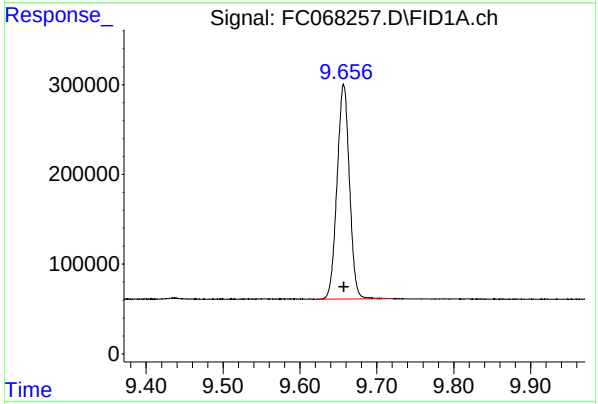
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 2871264
Conc: 19.83 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



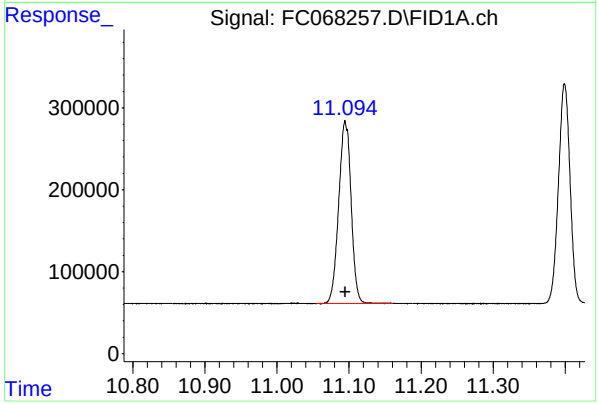
#6 n-Tetradecane (C14)

R.T.: 8.061 min
Delta R.T.: 0.000 min
Response: 2665240
Conc: 19.55 ug/ml



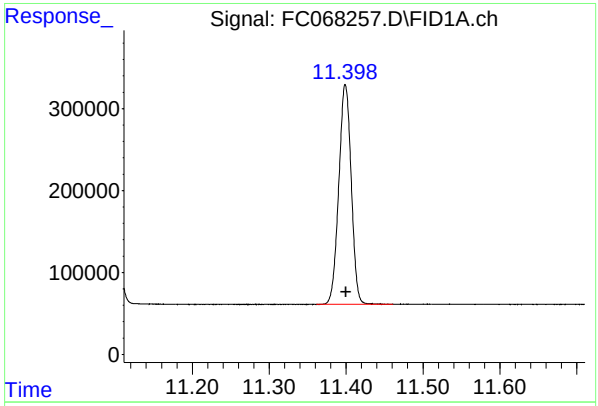
#7 n-Hexadecane (C16)

R.T.: 9.657 min
Delta R.T.: 0.000 min
Response: 2676698
Conc: 19.54 ug/ml



#8 n-Octadecane (C18)

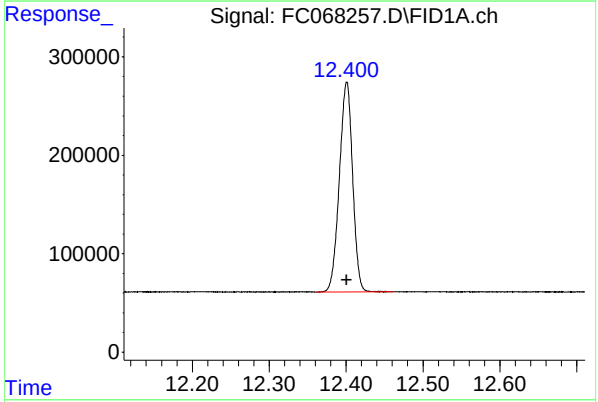
R.T.: 11.095 min
Delta R.T.: 0.000 min
Response: 2671678
Conc: 19.54 ug/ml



#9 ortho-Terphenyl (SURR)

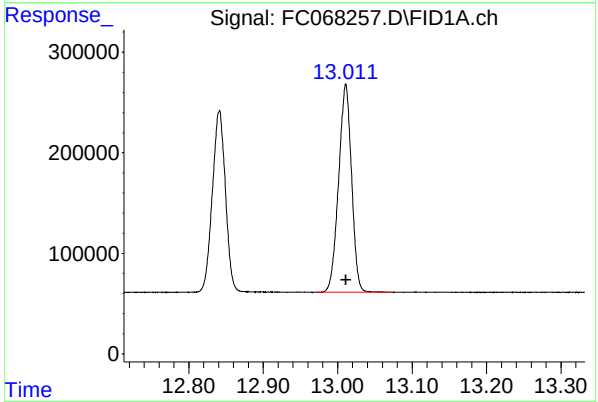
R.T.: 11.399 min
Delta R.T.: 0.000 min
Response: 3006153
Conc: 19.59 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



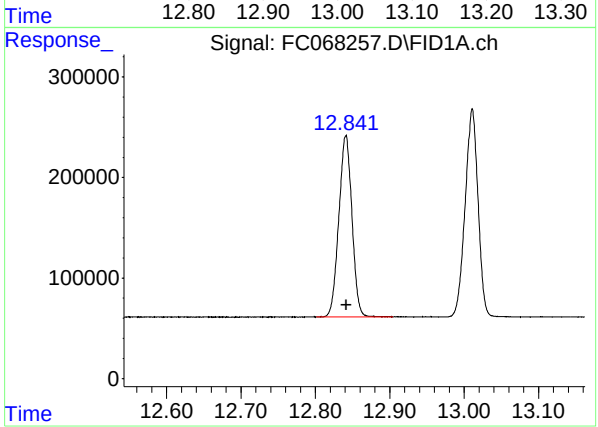
#10 n-Eicosane (C20)

R.T.: 12.401 min
Delta R.T.: 0.000 min
Response: 2547036
Conc: 19.55 ug/ml



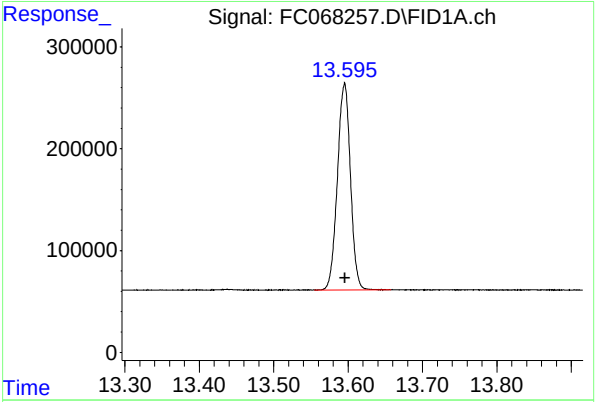
#11 n-Heneicosane (C21)

R.T.: 13.011 min
Delta R.T.: 0.000 min
Response: 2500910
Conc: 19.56 ug/ml



#12 1-chlorooctadecane (SURR)

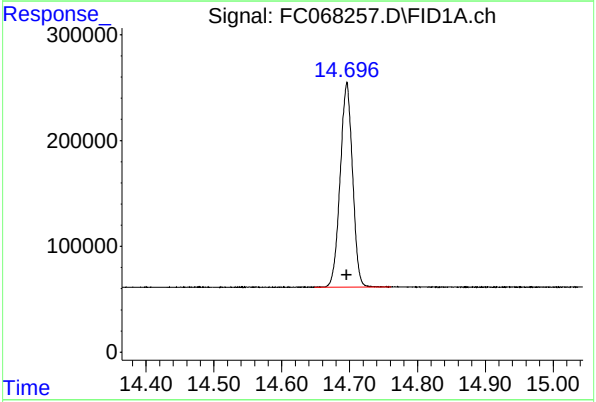
R.T.: 12.841 min
Delta R.T.: 0.000 min
Response: 2210712
Conc: 19.66 ug/ml



#13 n-Docosane (C22)

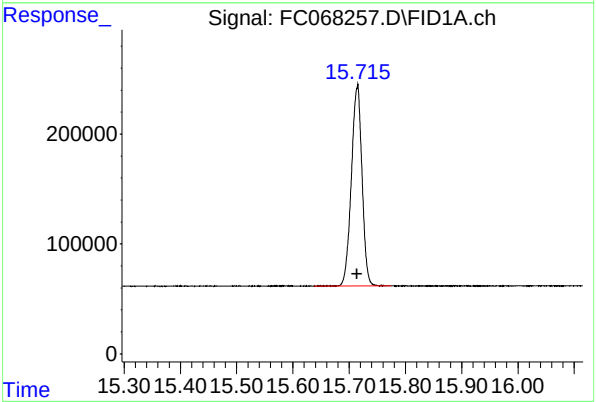
R.T.: 13.595 min
Delta R.T.: 0.000 min
Response: 2472408
Conc: 19.62 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



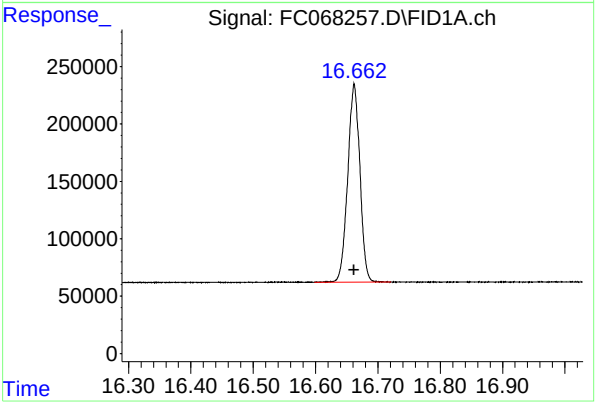
#14 n-Tetracosane (C24)

R.T.: 14.696 min
Delta R.T.: 0.000 min
Response: 2447601
Conc: 19.68 ug/ml



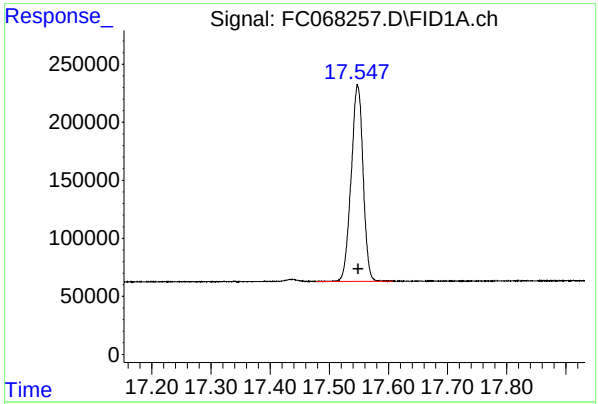
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 2396918
Conc: 19.71 ug/ml



#16 n-Octacosane (C28)

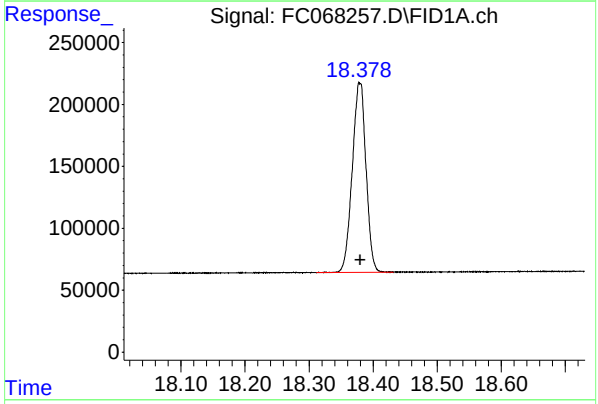
R.T.: 16.662 min
Delta R.T.: 0.000 min
Response: 2352553
Conc: 19.81 ug/ml



#17 n-Tricontane (C30)

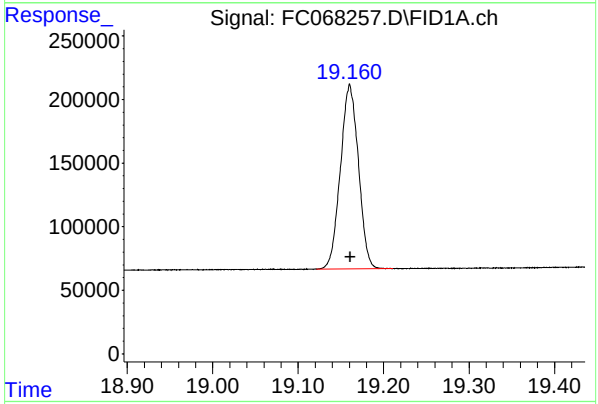
R.T.: 17.548 min
Delta R.T.: -0.001 min
Response: 2368324
Conc: 19.68 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



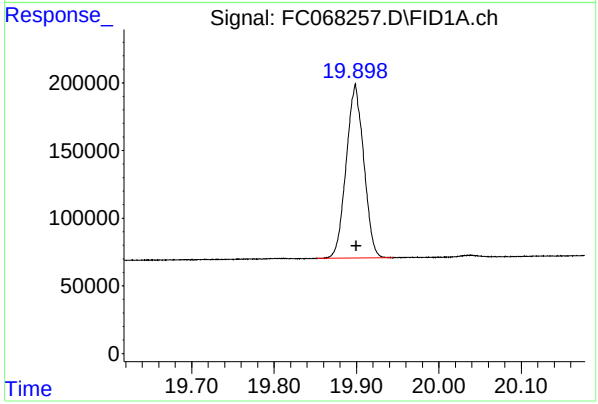
#18 n-Dotriacontane (C32)

R.T.: 18.379 min
Delta R.T.: 0.000 min
Response: 2282342
Conc: 19.66 ug/ml



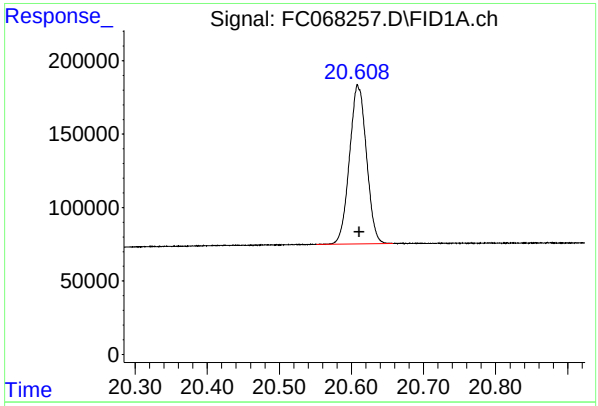
#19 n-Tetratriacontane (C34)

R.T.: 19.160 min
Delta R.T.: 0.000 min
Response: 2121381
Conc: 19.63 ug/ml



#20 n-Hexatriacontane (C36)

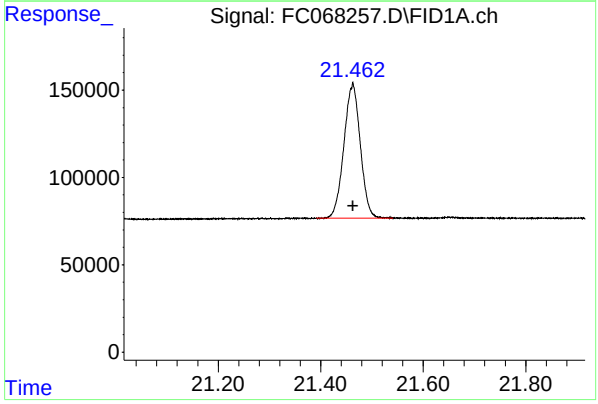
R.T.: 19.898 min
Delta R.T.: -0.002 min
Response: 1897153
Conc: 19.73 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.609 min
Delta R.T.: -0.002 mi
Response: 1768616
Conc: 19.67 ug/m

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.462 min
Delta R.T.: 0.000 min
Response: 1709466
Conc: 19.76 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068257.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 19:26
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.207	3.164	3.268	BB	332094	2763389	91.42%	5.089%
2	4.265	4.231	4.328	BB	306680	2787474	92.22%	5.133%
3	5.832	5.794	5.914	BB	316234	3022645	100.00%	5.566%
4	6.274	6.231	6.338	BB	274740	2762475	91.39%	5.087%
5	6.884	6.848	6.974	BB	297539	2871264	94.99%	5.288%
6	8.061	8.028	8.124	BB	260997	2665240	88.18%	4.908%
7	9.657	9.621	9.721	BB	239943	2676698	88.55%	4.929%
8	11.095	11.054	11.161	BB	222508	2671678	88.39%	4.920%
9	11.399	11.361	11.461	BB	268482	3006153	99.45%	5.536%
10	12.401	12.361	12.461	BB	214041	2547036	84.27%	4.690%
11	12.841	12.801	12.904	BB	180766	2210712	73.14%	4.071%
12	13.011	12.971	13.074	BB	207142	2500910	82.74%	4.606%
13	13.595	13.554	13.658	BB	201306	2472408	81.80%	4.553%
14	14.696	14.648	14.761	BB	189927	2447601	80.98%	4.507%
15	15.714	15.638	15.774	BB	182011	2396918	79.30%	4.414%
16	16.662	16.598	16.721	BB	171008	2352553	77.83%	4.332%
17	17.548	17.478	17.608	BB	168872	2368324	78.35%	4.361%
18	18.379	18.311	18.431	BB	154550	2282342	75.51%	4.203%
19	19.160	19.121	19.211	BB	143746	2121381	70.18%	3.907%
20	19.898	19.851	19.944	BB	125666	1897153	62.76%	3.494%
21	20.609	20.551	20.658	BB	106434	1768616	58.51%	3.257%
22	21.462	21.391	21.541	BB	75880	1709466	56.56%	3.148%
			Sum of corrected areas:			54302432		

Aliphatic EPH 021125.M Tue Feb 11 02:40:39 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Inital Calibration Report for SequenceID : FD021125AR

AreaCount

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	30133782.000	15194817.000	6263156.000	3318077.000	1700032.000	
Aromatic C12-C16	44977690.000	22823722.000	9507721.000	5041964.000	2641021.000	
Aromatic C16-C21	58435647.000	29734390.000	12145436.000	6295751.000	3256475.000	
Aromatic C21-C36	121981098.000	62220992.000	25499877.000	13225172.000	6892110.000	
Aromatic EPH	255528217.000	129973921.000	53416190.000	27880964.000	14489638.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	159020.606	5.389				
Aromatic C12-C16	160935.8659994	6.836				
Aromatic C16-C21	153359.3085	4.411				
Aromatic C21-C36	143114.7526664	4.923				
Aromatic EPH	150128.8232216	5.194				

Concentration

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	150668.910000	151948.170000	156578.900000	165903.850000	170003.200000	
Aromatic C12-C16	149925.633333	152158.146666	158462.016666	168065.466666	176068.066666	
Aromatic C16-C21	146089.117500	148671.950000	151817.950000	157393.775000	162823.750000	
Aromatic C21-C36	135534.553333	138268.871111	141665.983333	146946.355555	153158.000000	
Aromatic EPH	141960.120555	144415.467777	148378.305555	154894.244444	160995.977777	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049072.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:22
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 10 15:30:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.356	13521753	97.612 ug/ml
Spiked Amount	50.000		Recovery =	195.22%
6) S	2-Flurobiphenyl (SURR)	8.206	9031094	100.727 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	201.45%#
11) S	ortho-Terphenyl (SURR)	11.242	14903579	96.771 ug/ml
Spiked Amount	50.000		Recovery =	193.54%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.179	14869075	97.560 ug/ml
2) T	Naphthalene (C11.7)	5.697	15264707	98.585 ug/ml
3) T	2-Methylnaphthalene (...	6.744	14901306	97.974 ug/ml
5) T	Acenaphthylene (C15.06)	8.010	15174302	97.403 ug/ml
7) T	Acenaphthene (C15.5)	8.306	14902082	96.330 ug/ml
8) T	Flouorene (C16.55)	9.085	14990417	97.888 ug/ml
9) T	Phenanthrene (C19.36)	10.472	14561159	98.628 ug/ml
10) T	Anthracene (C19.43)	10.548	14369869	97.698 ug/ml
12) T	Fluoranthene (C21.85)	12.278	14577451	97.401 ug/ml
13) T	Pyrene (C20.8)	12.571	14514202	98.100 ug/ml
14) T	Benzo[a]anthracene (C...	14.441	13838427	101.145 ug/ml
15) T	Chrysene (C27.41)	14.487	14067276	95.042 ug/ml
16) T	benzo[b]fluoranthene ...	15.992	13742882	98.944 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.030	13818927	96.450 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.370	13061093	98.611 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.738	12478937	107.613 ug/ml
20) T	Dibenz[a,h]anthracene...	17.776	13100134	91.486 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.995	13295971	96.863 ug/ml

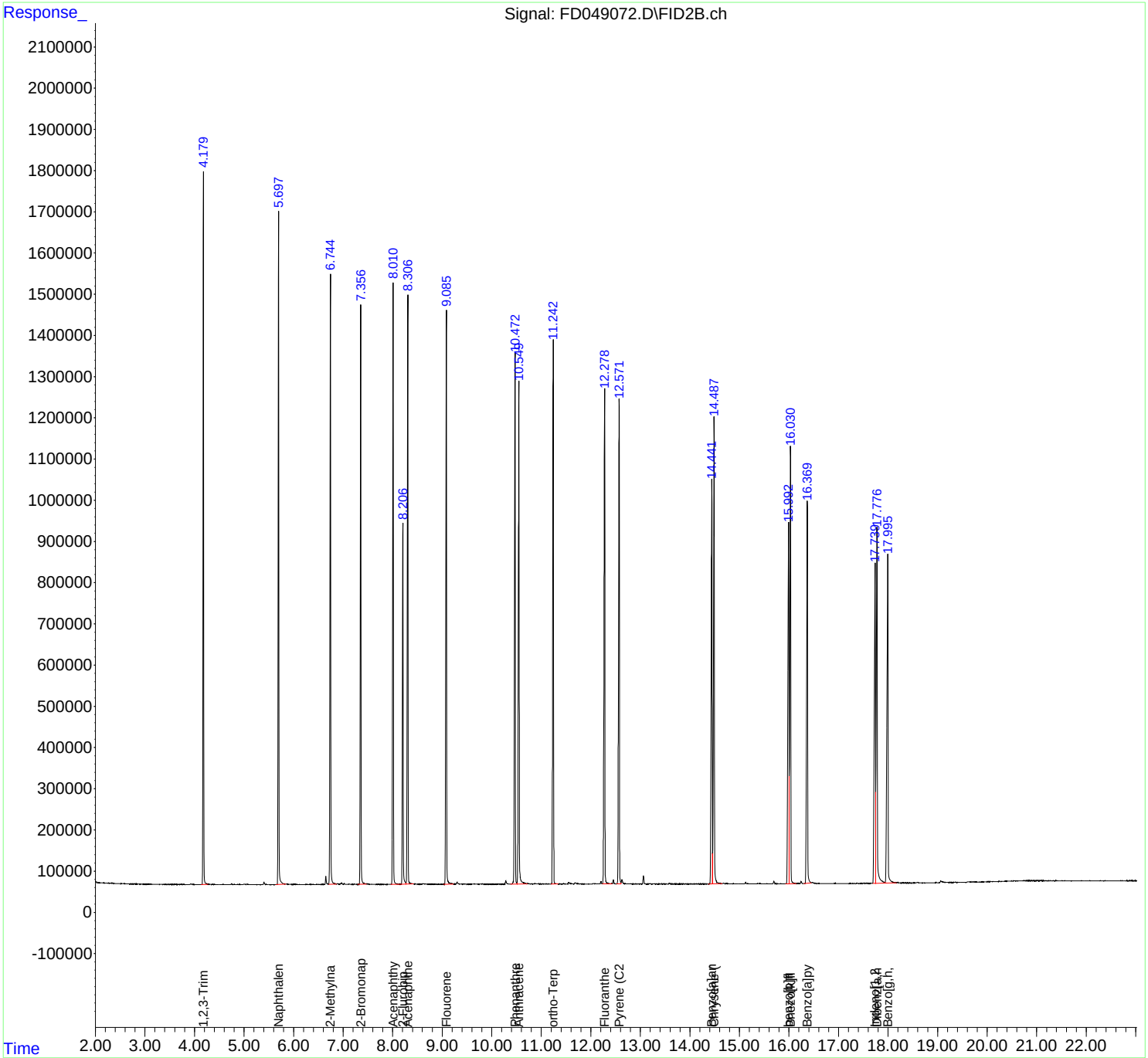
(f)=RT Delta > 1/2 Window (m)=manual int.

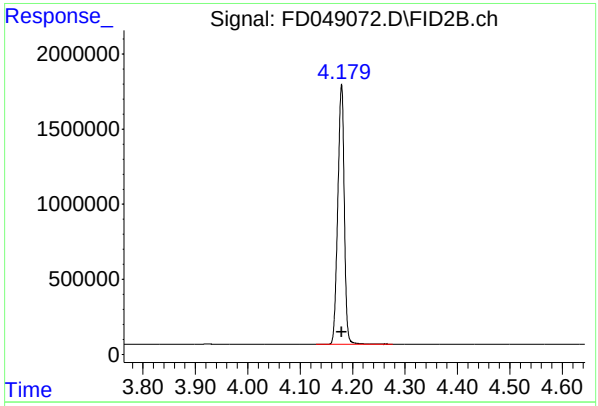
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049072.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:22
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 10 15:30:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

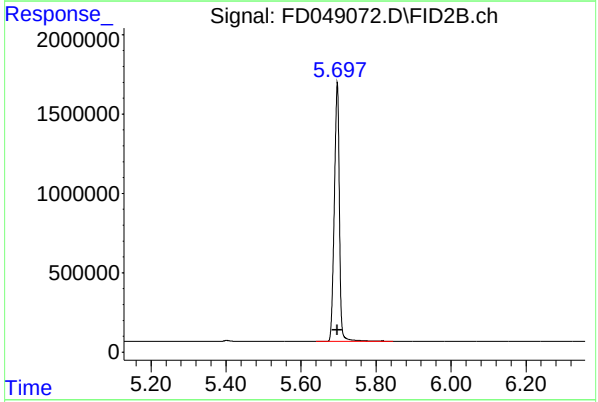




#1 1,2,3-Trimethylbenzene (C10.1)

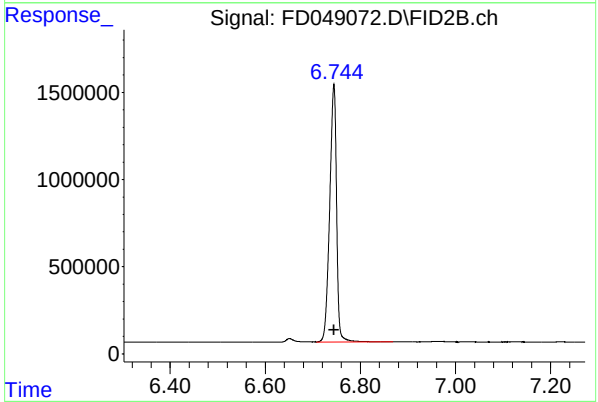
R.T.: 4.179 min
Delta R.T.: 0.000 min
Response: 14869075
Conc: 97.56 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



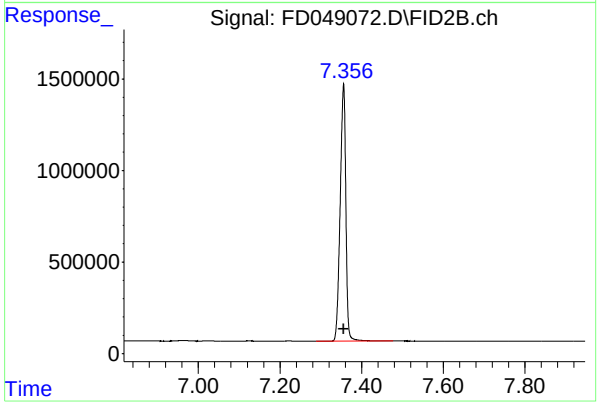
#2 Naphthalene (C11.7)

R.T.: 5.697 min
Delta R.T.: 0.000 min
Response: 15264707
Conc: 98.58 ug/ml



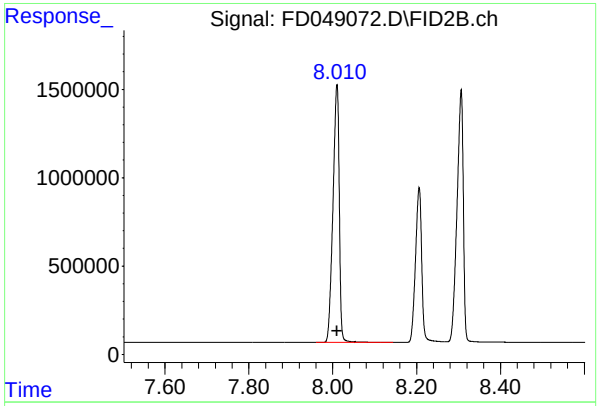
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.744 min
Delta R.T.: 0.000 min
Response: 14901306
Conc: 97.97 ug/ml



#4 2-Bromonaphthalene (SURR)

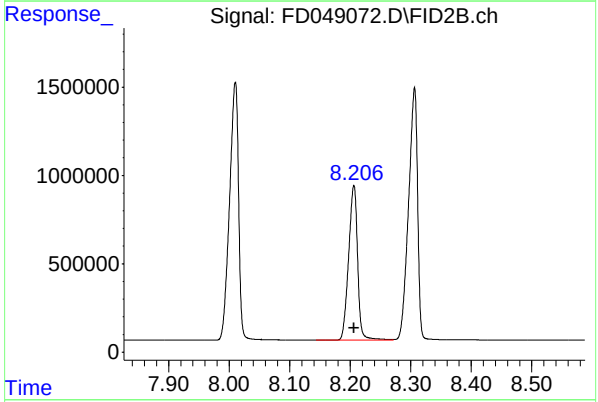
R.T.: 7.356 min
Delta R.T.: 0.000 min
Response: 13521753
Conc: 97.61 ug/ml



#5 Acenaphthylene (C15.06)

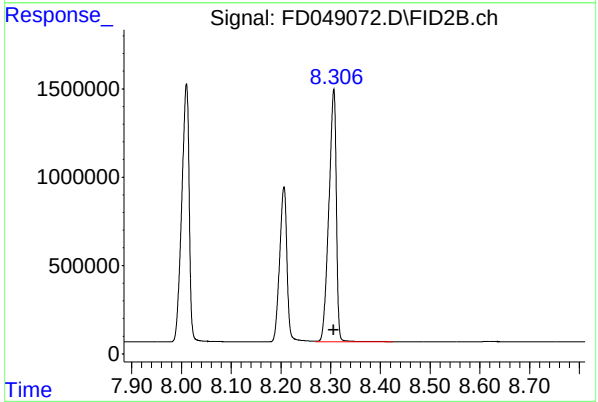
R.T.: 8.010 min
Delta R.T.: 0.000 min
Response: 15174302
Conc: 97.40 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



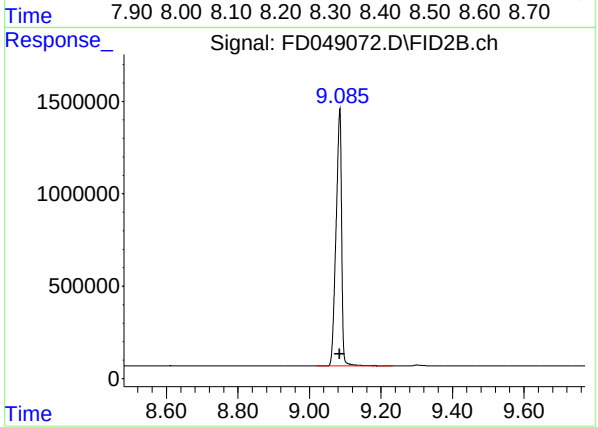
#6 2-Flurobiphenyl (SURR)

R.T.: 8.206 min
Delta R.T.: 0.000 min
Response: 9031094
Conc: 100.73 ug/ml



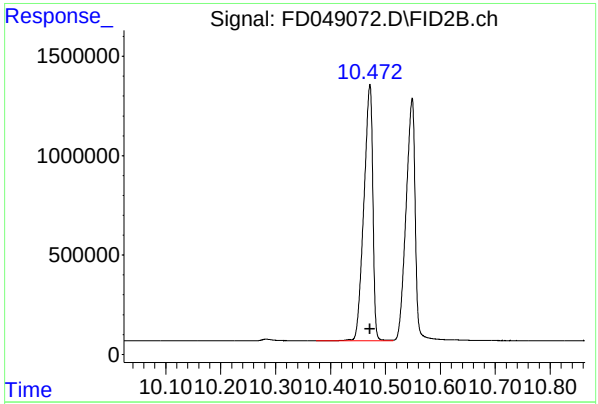
#7 Acenaphthene (C15.5)

R.T.: 8.306 min
Delta R.T.: 0.000 min
Response: 14902082
Conc: 96.33 ug/ml



#8 Flouorene (C16.55)

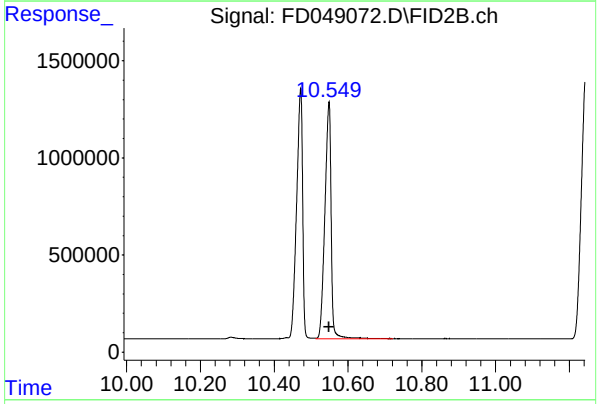
R.T.: 9.085 min
Delta R.T.: 0.000 min
Response: 14990417
Conc: 97.89 ug/ml



#9 Phenanthrene (C19.36)

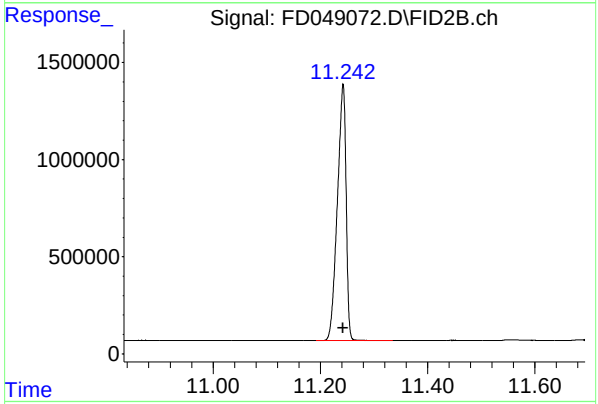
R.T.: 10.472 min
Delta R.T.: 0.000 min
Response: 14561159
Conc: 98.63 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



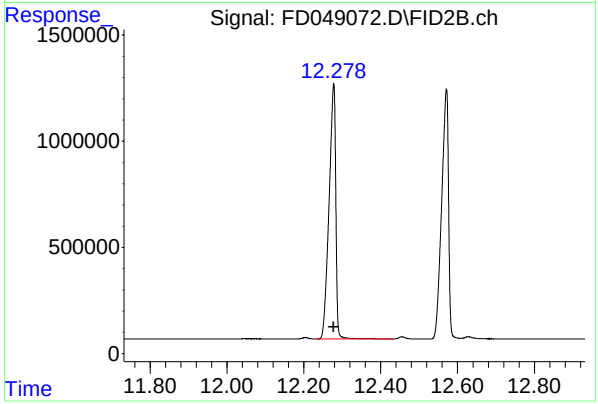
#10 Anthracene (C19.43)

R.T.: 10.548 min
Delta R.T.: 0.000 min
Response: 14369869
Conc: 97.70 ug/ml



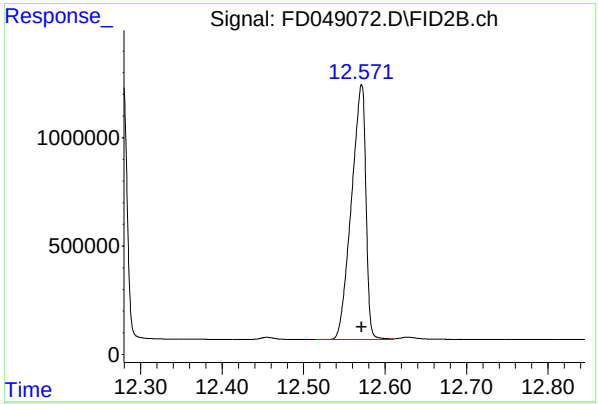
#11 ortho-Terphenyl (SURR)

R.T.: 11.242 min
Delta R.T.: 0.000 min
Response: 14903579
Conc: 96.77 ug/ml



#12 Fluoranthene (C21.85)

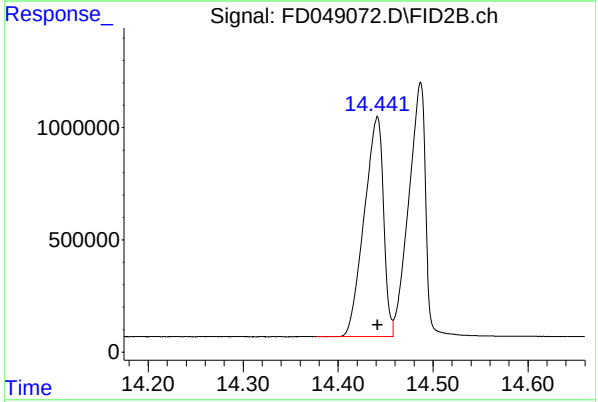
R.T.: 12.278 min
Delta R.T.: 0.000 min
Response: 14577451
Conc: 97.40 ug/ml



#13 Pyrene (C20.8)

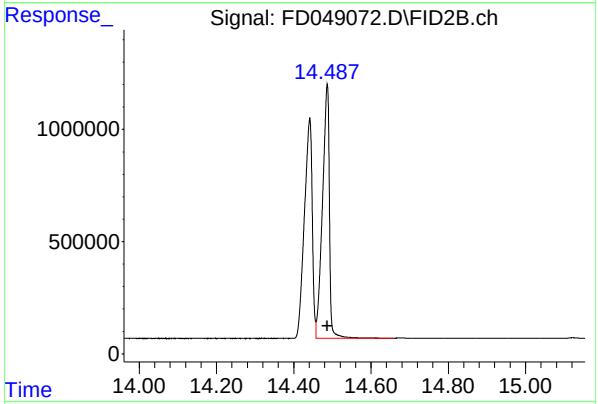
R.T.: 12.571 min
Delta R.T.: 0.000 min
Response: 14514202
Conc: 98.10 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



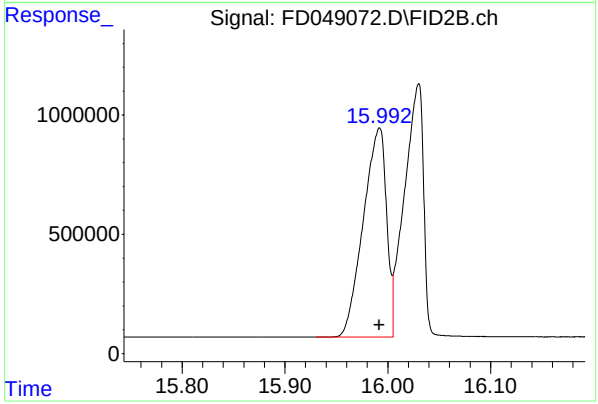
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.441 min
Delta R.T.: 0.000 min
Response: 13838427
Conc: 101.14 ug/ml



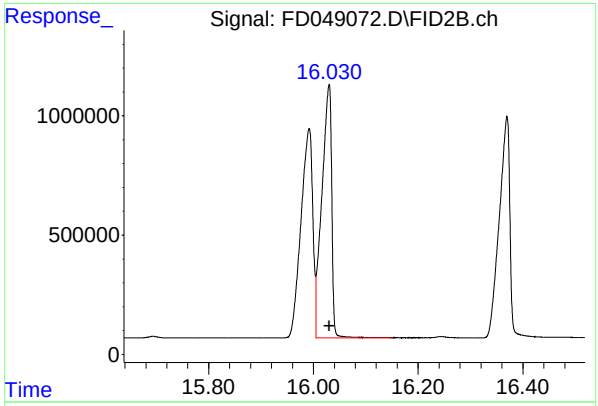
#15 Chrysene (C27.41)

R.T.: 14.487 min
Delta R.T.: 0.000 min
Response: 14067276
Conc: 95.04 ug/ml



#16 benzo[b]fluoranthene (C30.41)

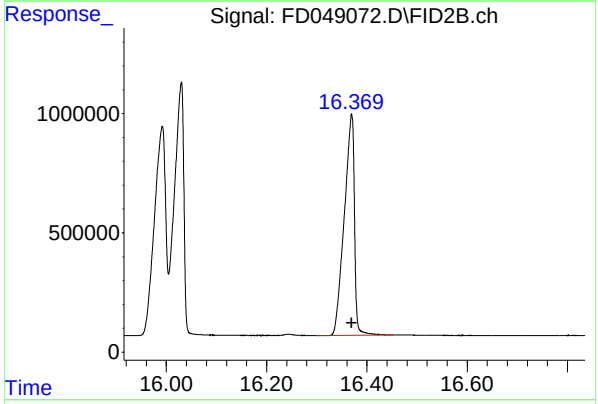
R.T.: 15.992 min
Delta R.T.: 0.000 min
Response: 13742882
Conc: 98.94 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

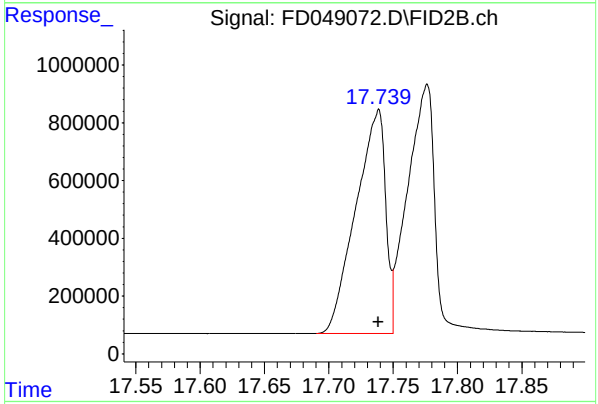
R.T.: 16.030 min
Delta R.T.: 0.000 min
Response: 13818927
Conc: 96.45 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



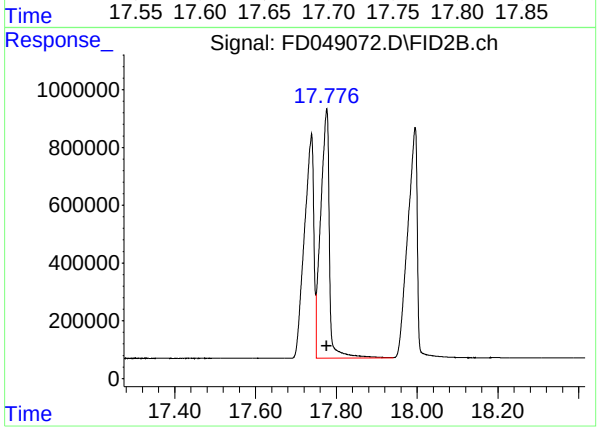
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.370 min
Delta R.T.: 0.000 min
Response: 13061093
Conc: 98.61 ug/ml



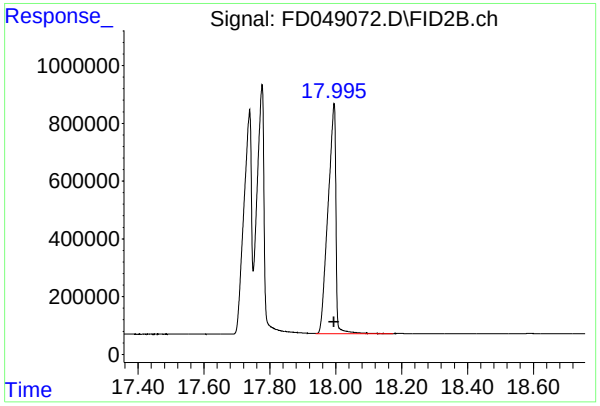
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.738 min
Delta R.T.: 0.000 min
Response: 12478937
Conc: 107.61 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.776 min
Delta R.T.: 0.000 min
Response: 13100134
Conc: 91.49 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.995 min
Delta R.T.: 0.000 mi
Response: 13295971
Conc: 96.86 ug/m

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049072.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:22
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.179	4.130	4.277	BV	1725911	14869075	97.41%	5.075%
2	5.697	5.640	5.845	BV	1634675	15264707	100.00%	5.210%
3	6.744	6.707	6.869	VV	1483646	14901306	97.62%	5.086%
4	7.356	7.289	7.477	BB	1400044	13521753	88.58%	4.615%
5	8.010	7.960	8.144	BB	1461744	15174302	99.41%	5.179%
6	8.206	8.144	8.271	BV	877931	9031094	59.16%	3.082%
7	8.306	8.271	8.425	VB	1434092	14902082	97.62%	5.086%
8	9.085	9.019	9.234	BB	1398721	14990417	98.20%	5.116%
9	10.472	10.374	10.514	BV	1291889	14561159	95.39%	4.970%
10	10.548	10.514	10.722	VB	1219536	14369869	94.14%	4.905%
11	11.242	11.192	11.335	BB	1319058	14903579	97.63%	5.087%
12	12.278	12.232	12.432	VV	1208983	14577451	95.50%	4.976%
13	12.571	12.515	12.610	BV	1180482	14514202	95.08%	4.954%
14	14.441	14.377	14.458	BV	983584	13838427	90.66%	4.723%
15	14.487	14.458	14.657	VV	1134752	14067276	92.16%	4.801%
16	15.992	15.930	16.005	BV	877521	13742882	90.03%	4.691%
17	16.030	16.005	16.152	VB	1064780	13818927	90.53%	4.717%
18	16.370	16.299	16.452	BV	929001	13061093	85.56%	4.458%
19	17.738	17.690	17.750	BV	775881	12478937	81.75%	4.259%
20	17.776	17.750	17.940	VV	865574	13100134	85.82%	4.471%
21	17.995	17.940	18.174	VV	799393	13295971	87.10%	4.538%

Sum of corrected areas: 292984644

Aromatic EPH 021125.M Tue Feb 11 00:32:56 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049073.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:58
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 10 15:32:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.352	6832671	49.548 ug/ml
	Spiked Amount 50.000		Recovery = 99.10%	
6)	S 2-Flurobiphenyl (SURR)	8.201	4519240	50.269 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 100.54%	
11)	S ortho-Terphenyl (SURR)	11.236	7609409	49.605 ug/ml
	Spiked Amount 50.000		Recovery = 99.21%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	7483064	49.395 ug/ml
2)	T Naphthalene (C11.7)	5.693	7711753	49.870 ug/ml
3)	T 2-Methylnaphthalene (...	6.740	7516774	49.613 ug/ml
5)	T Acenaphthylene (C15.06)	8.005	7704821	49.636 ug/ml
7)	T Acenaphthene (C15.5)	8.300	7602127	49.425 ug/ml
8)	T Flouorene (C16.55)	9.078	7593219	49.722 ug/ml
9)	T Phenanthrene (C19.36)	10.465	7379729	49.990 ug/ml
10)	T Anthracene (C19.43)	10.541	7344304	49.955 ug/ml
12)	T Fluoranthene (C21.85)	12.270	7455312	49.876 ug/ml
13)	T Pyrene (C20.8)	12.562	7417138	50.088 ug/ml
14)	T Benzo[a]anthracene (C...	14.434	6964194	50.597 ug/ml
15)	T Chrysene (C27.41)	14.475	7274381	49.429 ug/ml
16)	T benzo[b]fluoranthene ...	15.983	6978240	50.160 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.015	7115728	49.346 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.357	6633881	50.057 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.724	5940391	50.812 ug/ml
20)	T Dibenz[a,h]anthracene...	17.760	7026106	49.374 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.977	6832759	49.851 ug/ml

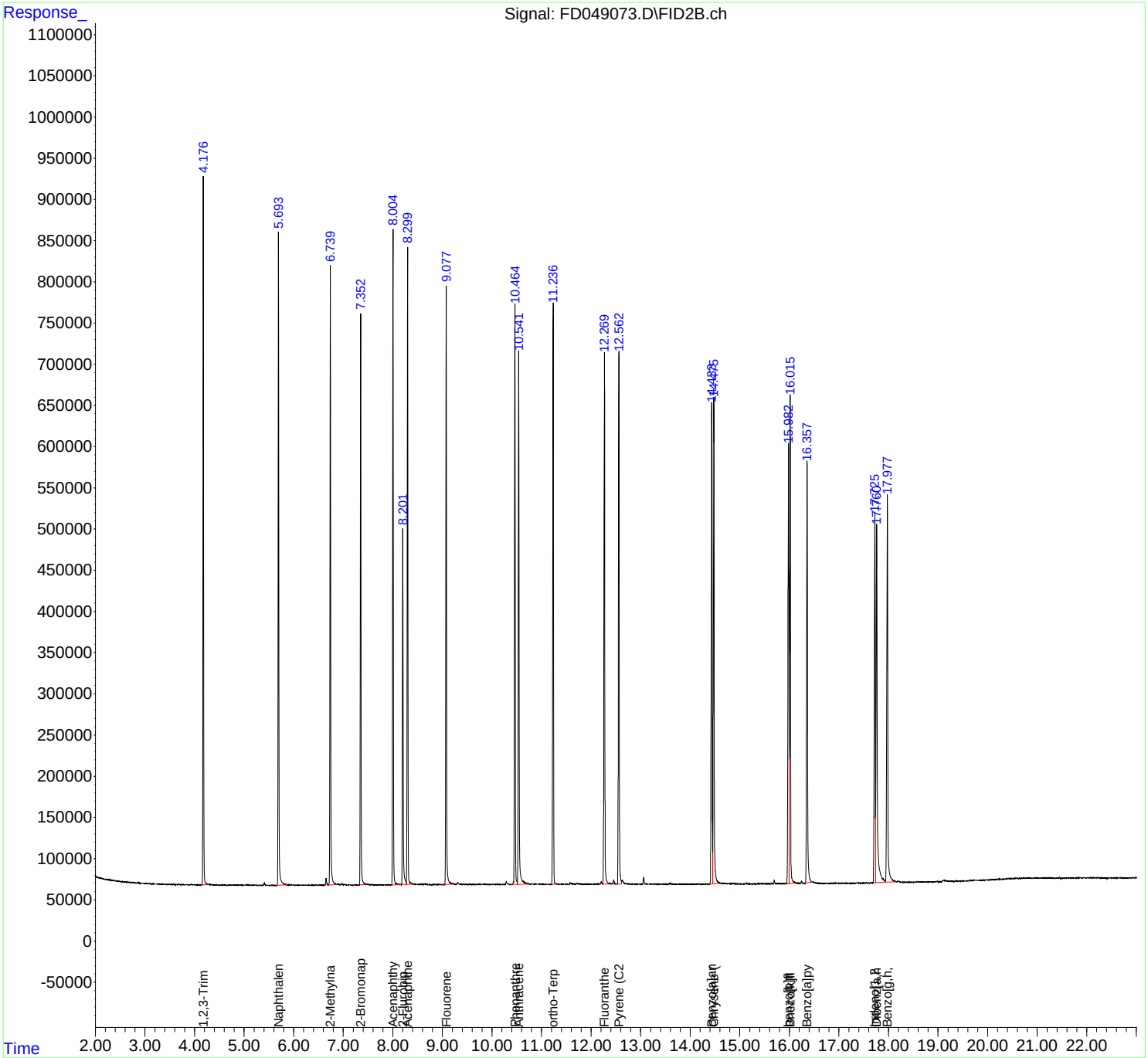
(f)=RT Delta > 1/2 Window (m)=manual int.

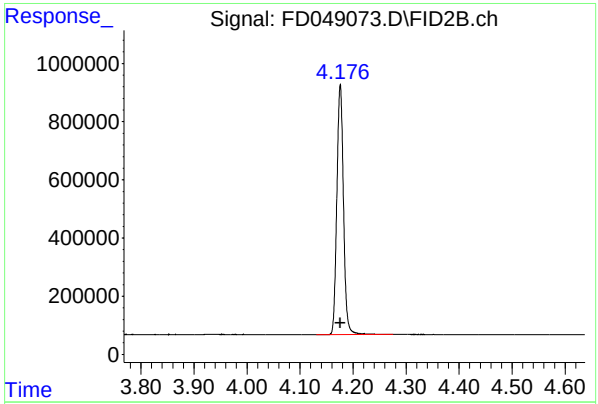
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049073.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:58
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 10 15:32:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

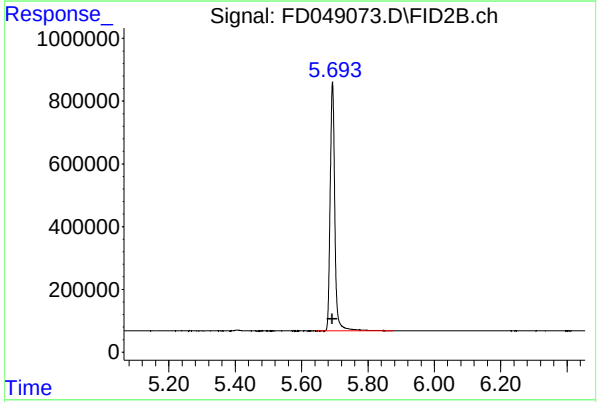




#1 1,2,3-Trimethylbenzene (C10.1)

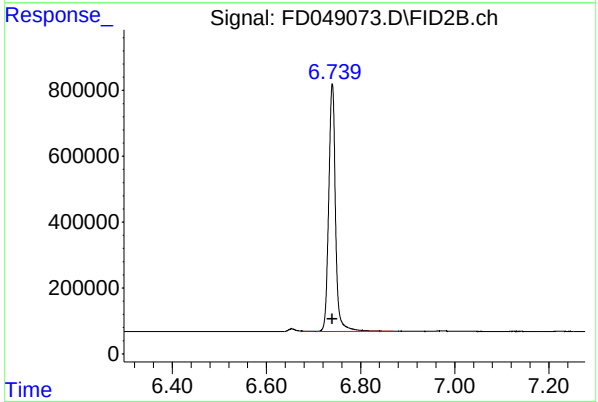
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 7483064
Conc: 49.40 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



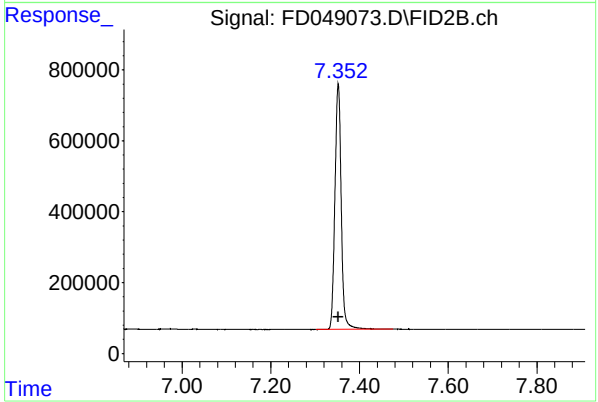
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 7711753
Conc: 49.87 ug/ml



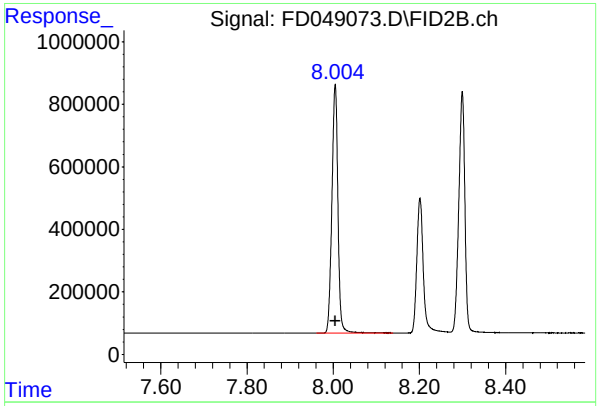
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.740 min
Delta R.T.: 0.000 min
Response: 7516774
Conc: 49.61 ug/ml



#4 2-Bromonaphthalene (SURR)

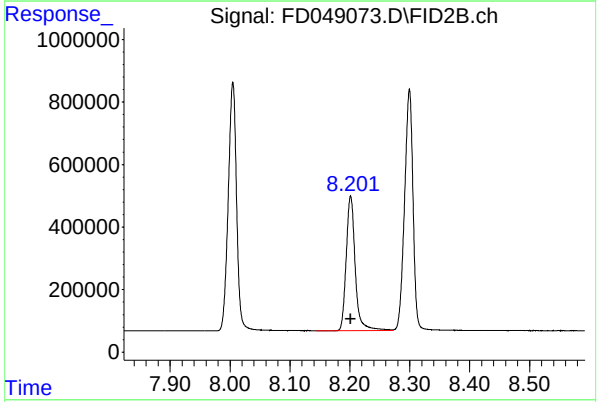
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 6832671
Conc: 49.55 ug/ml



#5 Acenaphthylene (C15.06)

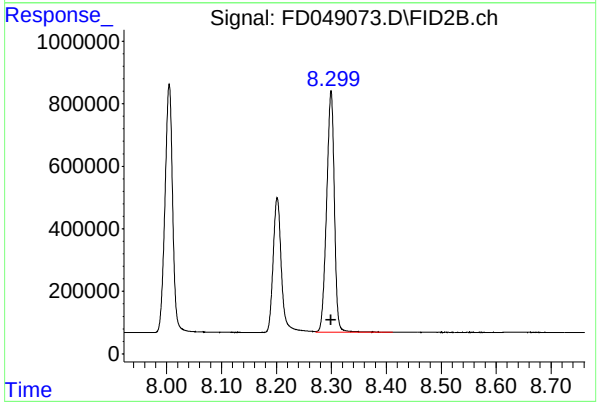
R.T.: 8.005 min
Delta R.T.: 0.000 min
Response: 7704821
Conc: 49.64 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



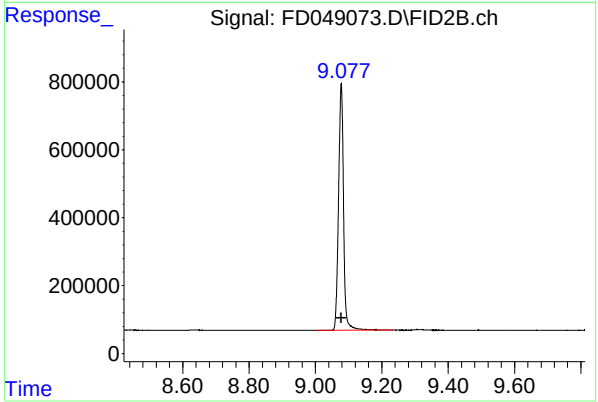
#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 4519240
Conc: 50.27 ug/ml



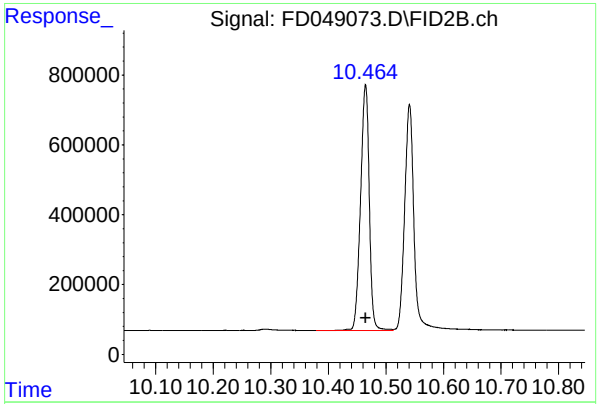
#7 Acenaphthene (C15.5)

R.T.: 8.300 min
Delta R.T.: 0.000 min
Response: 7602127
Conc: 49.42 ug/ml



#8 Flouorene (C16.55)

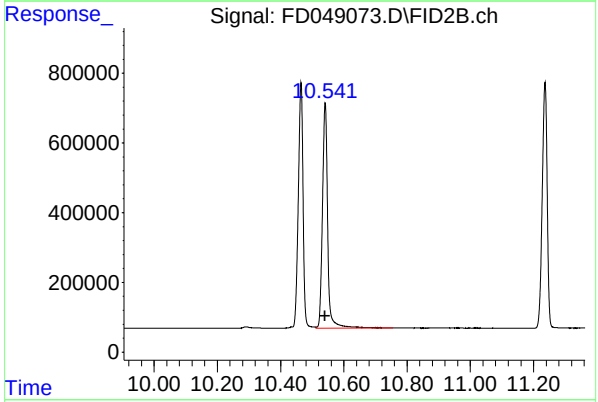
R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 7593219
Conc: 49.72 ug/ml



#9 Phenanthrene (C19.36)

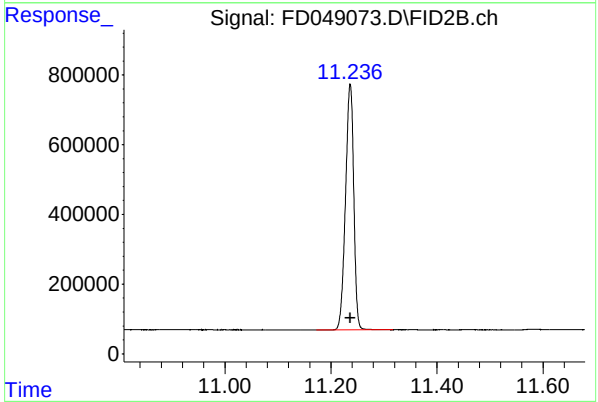
R.T.: 10.465 min
Delta R.T.: 0.000 min
Response: 7379729
Conc: 49.99 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



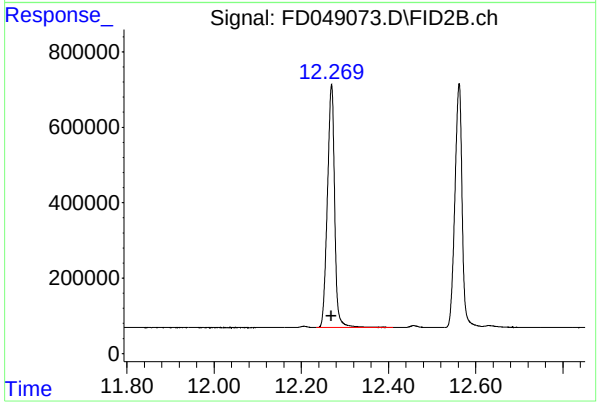
#10 Anthracene (C19.43)

R.T.: 10.541 min
Delta R.T.: 0.000 min
Response: 7344304
Conc: 49.96 ug/ml



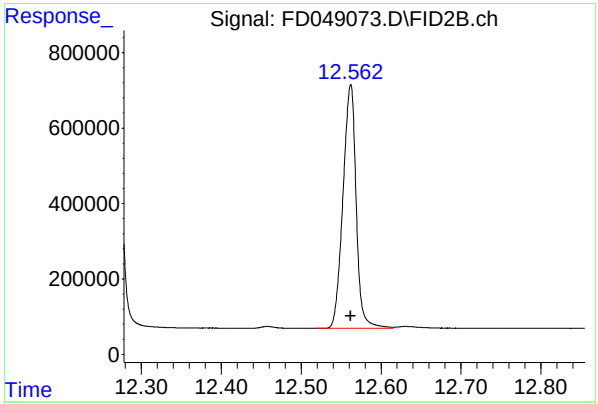
#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.000 min
Response: 7609409
Conc: 49.60 ug/ml



#12 Fluoranthene (C21.85)

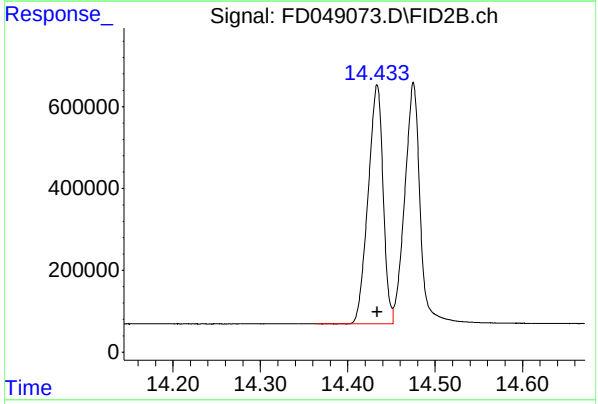
R.T.: 12.270 min
Delta R.T.: 0.000 min
Response: 7455312
Conc: 49.88 ug/ml



#13 Pyrene (C20.8)

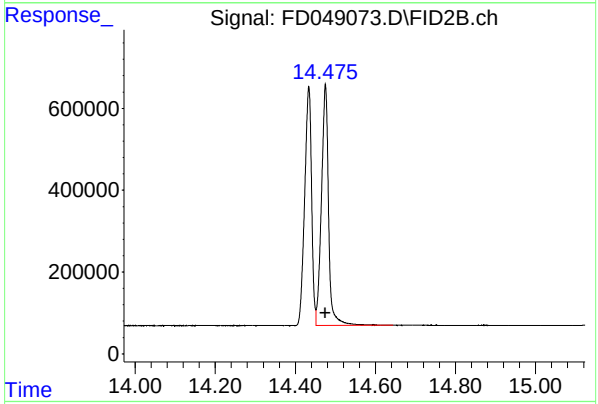
R.T.: 12.562 min
Delta R.T.: 0.000 min
Response: 7417138
Conc: 50.09 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



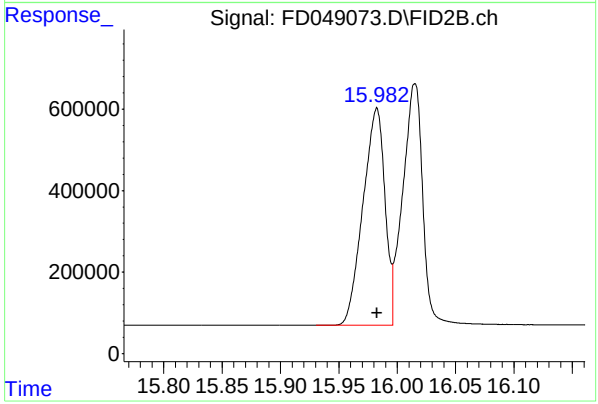
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.434 min
Delta R.T.: 0.000 min
Response: 6964194
Conc: 50.60 ug/ml



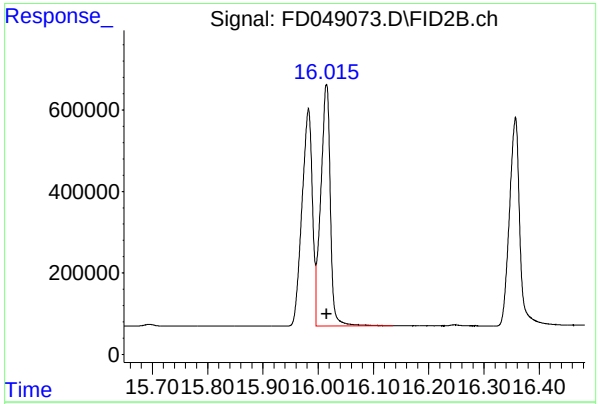
#15 Chrysene (C27.41)

R.T.: 14.475 min
Delta R.T.: 0.000 min
Response: 7274381
Conc: 49.43 ug/ml



#16 benzo[b]fluoranthene (C30.41)

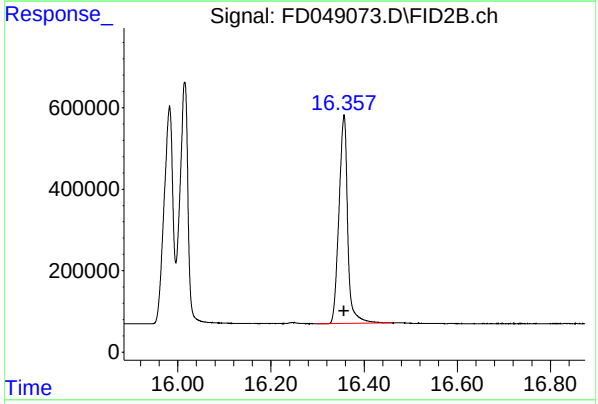
R.T.: 15.983 min
Delta R.T.: 0.000 min
Response: 6978240
Conc: 50.16 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

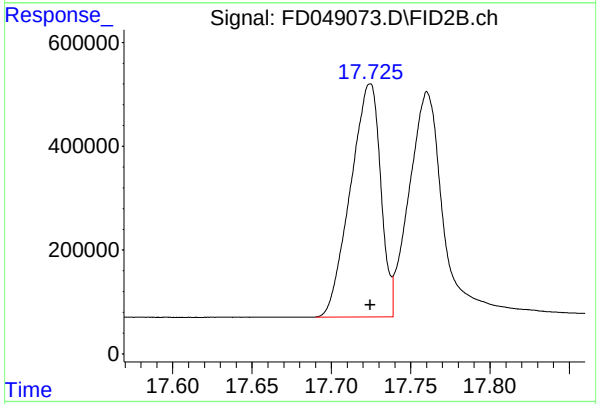
R.T.: 16.015 min
Delta R.T.: 0.000 min
Response: 7115728
Conc: 49.35 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



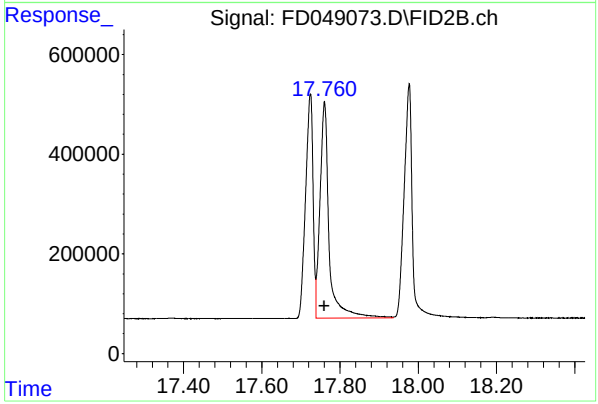
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.357 min
Delta R.T.: 0.000 min
Response: 6633881
Conc: 50.06 ug/ml



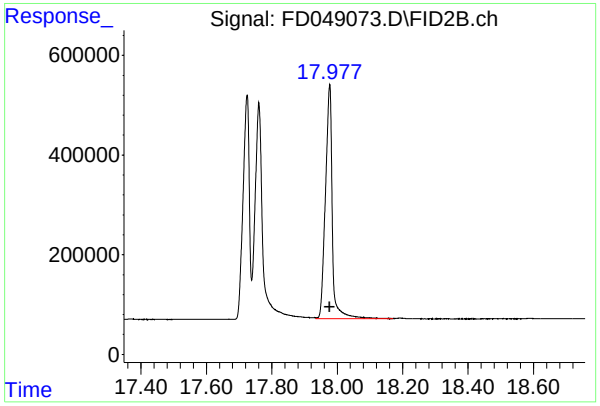
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.724 min
Delta R.T.: 0.000 min
Response: 5940391
Conc: 50.81 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.760 min
Delta R.T.: 0.000 min
Response: 7026106
Conc: 49.37 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.977 min
Delta R.T.: 0.000 mi
Response: 6832759
Conc: 49.85 ug/m

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049073.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:58
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.130	4.275	BB	856930	7483064	97.03%	5.024%
2	5.693	5.644	5.875	BB	793670	7711753	100.00%	5.178%
3	6.740	6.705	6.869	VV	752280	7516774	97.47%	5.047%
4	7.352	7.302	7.475	BB	692518	6832671	88.60%	4.588%
5	8.005	7.960	8.139	BB	796415	7704821	99.91%	5.173%
6	8.201	8.144	8.272	BV	430213	4519240	58.60%	3.034%
7	8.300	8.272	8.412	VB	773593	7602127	98.58%	5.104%
8	9.078	9.002	9.234	BB	724789	7593219	98.46%	5.098%
9	10.465	10.379	10.512	BV	704297	7379729	95.69%	4.955%
10	10.541	10.512	10.755	VB	647346	7344304	95.24%	4.931%
11	11.236	11.172	11.317	BB	704623	7609409	98.67%	5.109%
12	12.270	12.234	12.410	PV	646673	7455312	96.67%	5.006%
13	12.562	12.519	12.615	BV	647073	7417138	96.18%	4.980%
14	14.434	14.364	14.452	BV	584665	6964194	90.31%	4.676%
15	14.475	14.452	14.644	VB	589498	7274381	94.33%	4.884%
16	15.983	15.930	15.996	BV	532011	6978240	90.49%	4.685%
17	16.015	15.996	16.135	VB	592968	7115728	92.27%	4.778%
18	16.357	16.297	16.462	BV	511495	6633881	86.02%	4.454%
19	17.724	17.690	17.739	BV	449892	5940391	77.03%	3.989%
20	17.760	17.739	17.935	VV	434204	7026106	91.11%	4.718%
21	17.977	17.935	18.170	VV	469618	6832759	88.60%	4.588%

Sum of corrected areas: 148935240

Aromatic EPH 021125.M Tue Feb 11 00:33:22 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049074.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 14:35
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 10 15:28:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.351	2836644	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
6)	S 2-Flurobiphenyl (SURR)	8.202	1780140	20.000 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 40.00%	
11)	S ortho-Terphenyl (SURR)	11.233	3179603	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	3122576	20.000 ug/ml
2)	T Naphthalene (C11.7)	5.693	3140580	20.000 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	3103501	20.000 ug/ml
5)	T Acenaphthylene (C15.06)	8.003	3196723	20.000 ug/ml
7)	T Acenaphthene (C15.5)	8.296	3207497	20.000 ug/ml
8)	T Flouorene (C16.55)	9.076	3127465	20.000 ug/ml
9)	T Phenanthrene (C19.36)	10.463	2993262	20.000 ug/ml
10)	T Anthracene (C19.43)	10.540	3009407	20.000 ug/ml
12)	T Fluoranthene (C21.85)	12.267	3071055	20.000 ug/ml
13)	T Pyrene (C20.8)	12.558	3015302	20.000 ug/ml
14)	T Benzo[a]anthracene (C...	14.429	2705035	20.000 ug/ml
15)	T Chrysene (C27.41)	14.469	3106970	20.000 ug/ml
16)	T benzo[b]fluoranthene ...	15.976	2807258	20.000 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.006	3041925	20.000 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.354	2685830	20.000 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.718	2142662	20.000 ug/ml
20)	T Dibenz[a,h]anthracene...	17.759	3107681	20.000 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.966	2831461	20.000 ug/ml

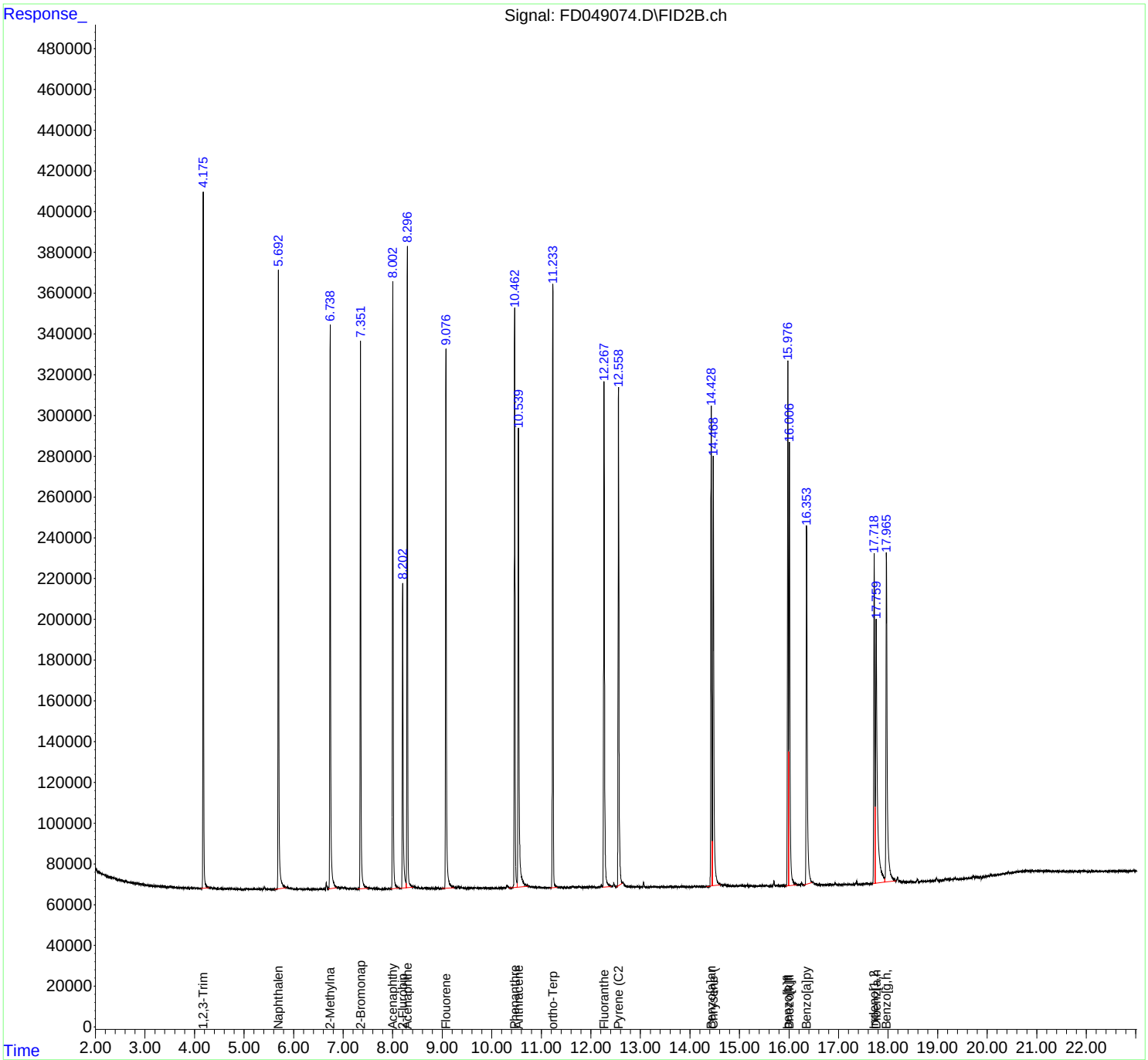
(f)=RT Delta > 1/2 Window (m)=manual int.

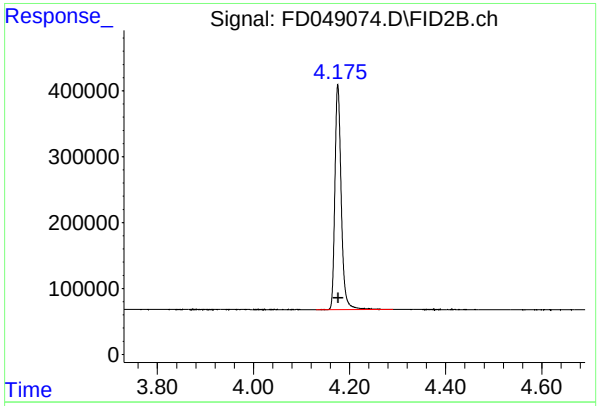
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049074.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 14:35
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 10 15:28:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

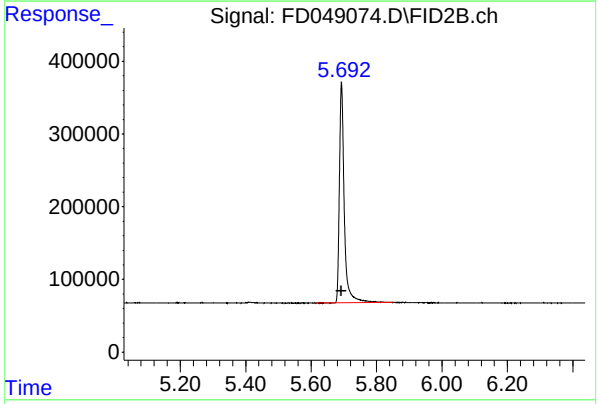




#1 1,2,3-Trimethylbenzene (C10.1)

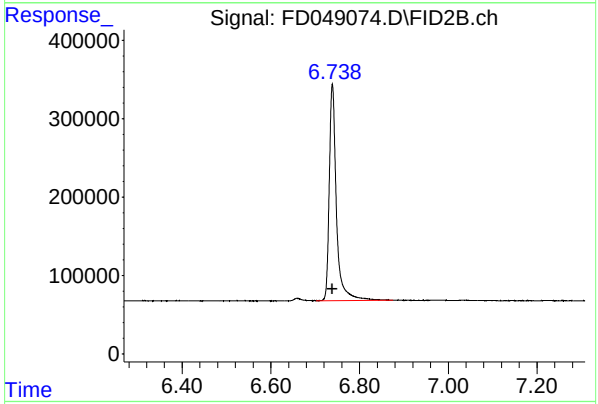
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 3122576
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



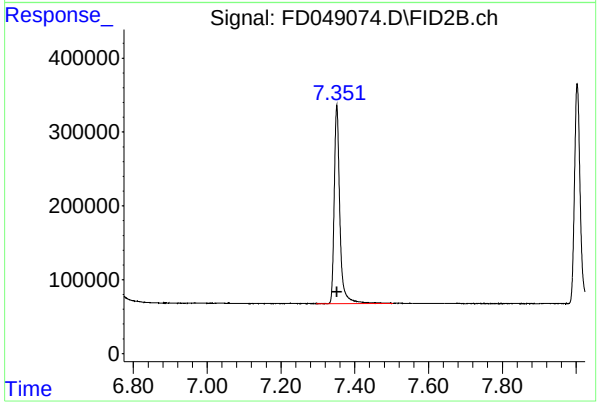
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 3140580
Conc: 20.00 ug/ml



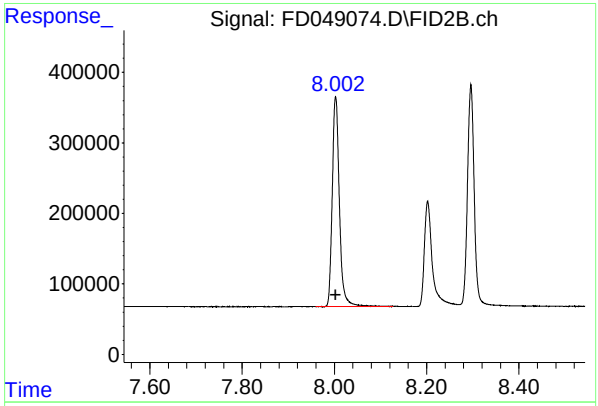
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 3103501
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

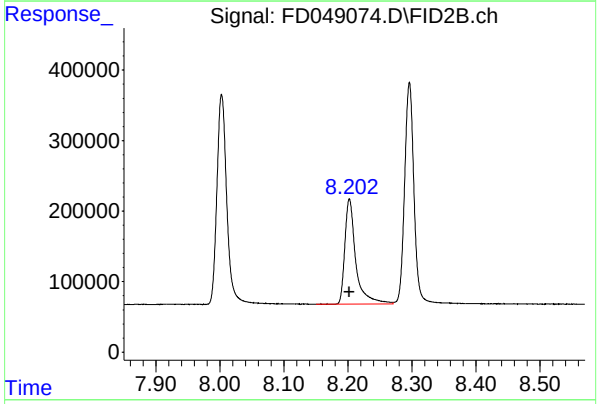
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 2836644
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

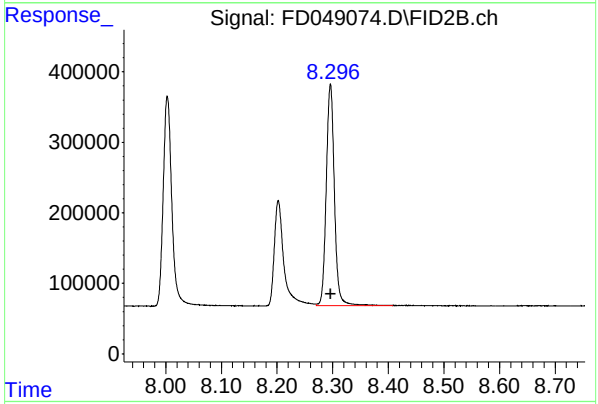
R.T.: 8.003 min
Delta R.T.: 0.000 min
Response: 3196723
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



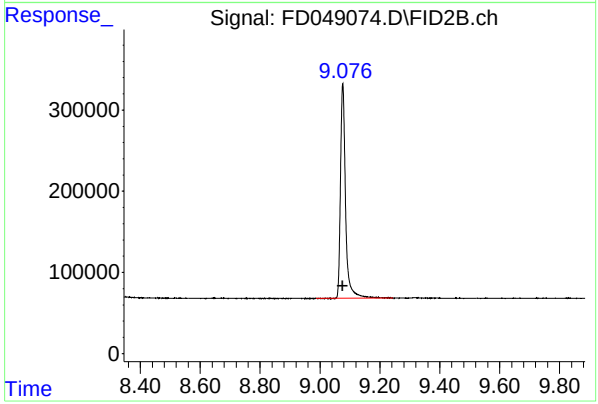
#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 1780140
Conc: 20.00 ug/ml



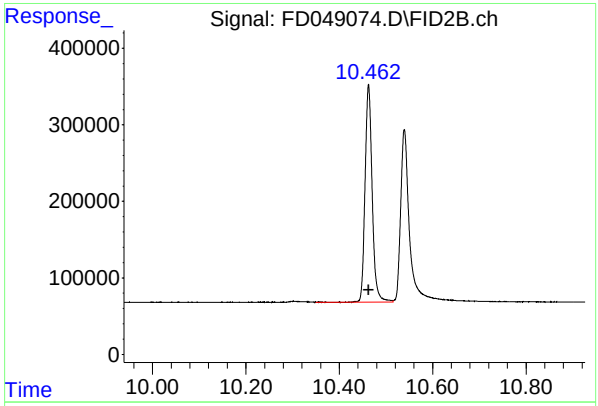
#7 Acenaphthene (C15.5)

R.T.: 8.296 min
Delta R.T.: 0.000 min
Response: 3207497
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

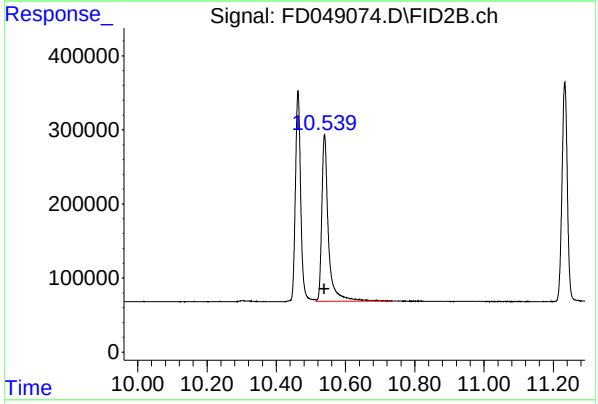
R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 3127465
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

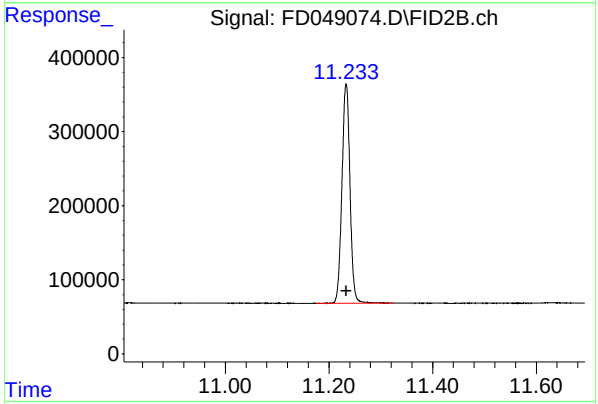
R.T.: 10.463 min
Delta R.T.: 0.000 min
Response: 2993262
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



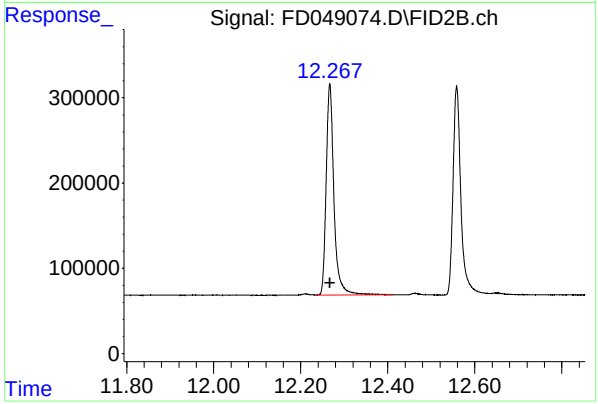
#10 Anthracene (C19.43)

R.T.: 10.540 min
Delta R.T.: 0.000 min
Response: 3009407
Conc: 20.00 ug/ml



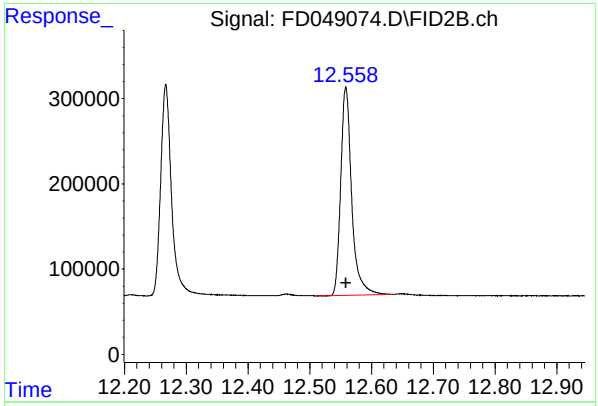
#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: 0.000 min
Response: 3179603
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

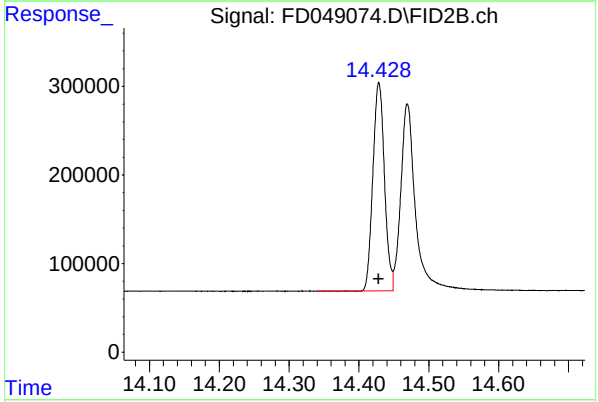
R.T.: 12.267 min
Delta R.T.: 0.000 min
Response: 3071055
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

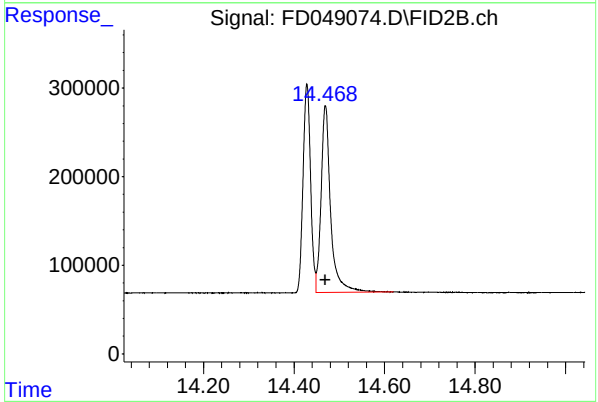
R.T.: 12.558 min
Delta R.T.: 0.000 min
Response: 3015302
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



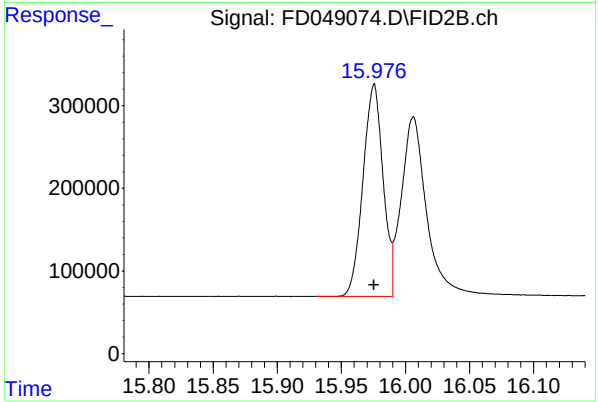
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.429 min
Delta R.T.: 0.000 min
Response: 2705035
Conc: 20.00 ug/ml



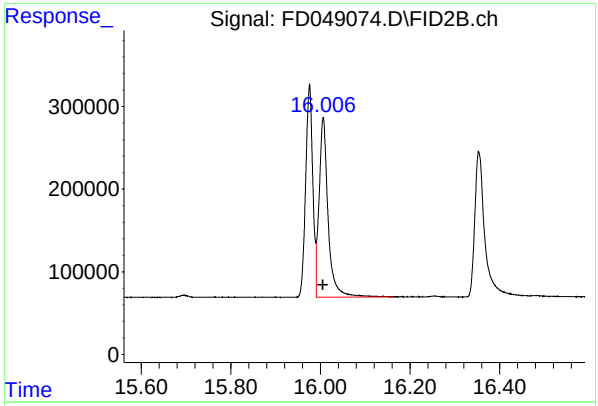
#15 Chrysene (C27.41)

R.T.: 14.469 min
Delta R.T.: 0.000 min
Response: 3106970
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

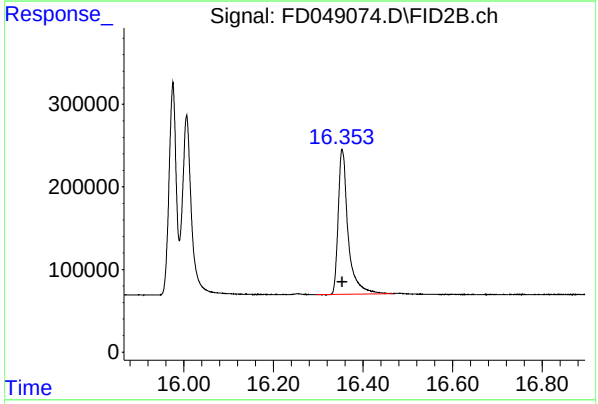
R.T.: 15.976 min
Delta R.T.: 0.000 min
Response: 2807258
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

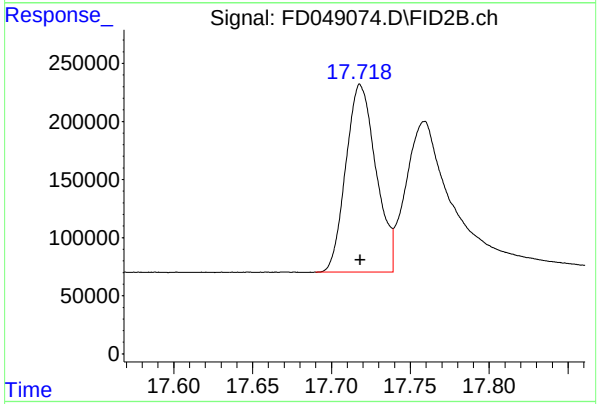
R.T.: 16.006 min
Delta R.T.: 0.000 min
Response: 3041925
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



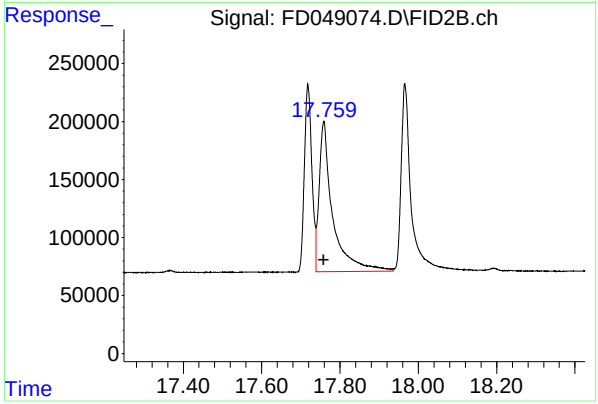
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.354 min
Delta R.T.: 0.000 min
Response: 2685830
Conc: 20.00 ug/ml



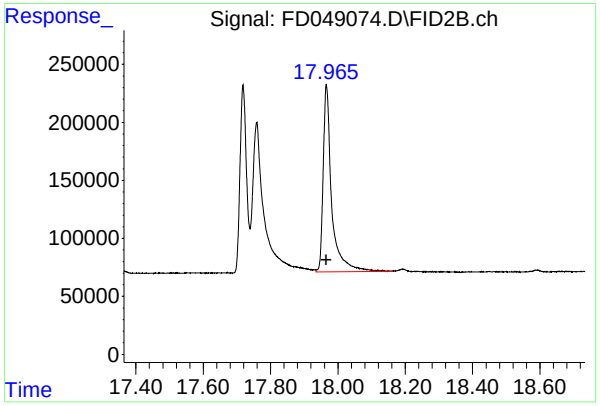
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.718 min
Delta R.T.: 0.000 min
Response: 2142662
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.759 min
Delta R.T.: 0.000 min
Response: 3107681
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.966 min
Delta R.T.: 0.000 mi
Response: 2831461
Conc: 20.00 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049074.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 14:35
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.130	4.290	BB	341507	3122576	97.35%	5.101%
2	5.693	5.615	5.850	BB	302052	3140580	97.91%	5.131%
3	6.739	6.702	6.875	PV	276834	3103501	96.76%	5.070%
4	7.351	7.295	7.504	BB	268948	2836644	88.44%	4.634%
5	8.003	7.960	8.127	BB	296889	3196723	99.66%	5.222%
6	8.202	8.150	8.270	BV	149509	1780140	55.50%	2.908%
7	8.296	8.270	8.409	VB	315086	3207497	100.00%	5.240%
8	9.076	8.987	9.244	BB	264582	3127465	97.50%	5.109%
9	10.463	10.350	10.515	BV	283529	2993262	93.32%	4.890%
10	10.540	10.515	10.737	VB	225555	3009407	93.82%	4.916%
11	11.233	11.175	11.324	BB	295969	3179603	99.13%	5.194%
12	12.267	12.235	12.412	PB	247743	3071055	95.75%	5.017%
13	12.558	12.510	12.635	PV	244074	3015302	94.01%	4.926%
14	14.429	14.339	14.449	BV	235372	2705035	84.33%	4.419%
15	14.469	14.449	14.619	VB	210710	3106970	96.87%	5.076%
16	15.976	15.930	15.990	BV	256347	2807258	87.52%	4.586%
17	16.006	15.990	16.162	VB	217937	3041925	94.84%	4.969%
18	16.354	16.295	16.467	BV	175364	2685830	83.74%	4.388%
19	17.718	17.690	17.739	BV	161338	2142662	66.80%	3.500%
20	17.759	17.739	17.935	VV	129645	3107681	96.89%	5.077%
21	17.966	17.935	18.164	VV	161614	2831461	88.28%	4.626%

Sum of corrected areas: 61212576

Aromatic EPH 021125.M Tue Feb 11 00:33:40 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049075.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:12
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 10 15:56:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:56:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.353	1471043	10.492 ug/ml
Spiked Amount	50.000		Recovery =	20.98%
6) S	2-Flurobiphenyl (SURR)	8.207	875829	9.805 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	19.61%
11) S	ortho-Terphenyl (SURR)	11.234	1694149	10.763 ug/ml
Spiked Amount	50.000		Recovery =	21.53%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.177	1656548	10.685 ug/ml
2) T	Naphthalene (C11.7)	5.695	1661529	10.548 ug/ml
3) T	2-Methylnaphthalene (...	6.741	1621317	10.517 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	1694814	10.673 ug/ml
7) T	Acenaphthene (C15.5)	8.297	1725833	10.888 ug/ml
8) T	Flouorene (C16.55)	9.079	1621856	10.458 ug/ml
9) T	Phenanthrene (C19.36)	10.465	1539045	10.316 ug/ml
10) T	Anthracene (C19.43)	10.542	1567931	10.490 ug/ml
12) T	Fluoranthene (C21.85)	12.271	1592182	10.481 ug/ml
13) T	Pyrene (C20.8)	12.562	1566919	10.430 ug/ml
14) T	Benzo[a]anthracene (C...	14.431	1271690	9.418 ug/ml
15) T	Chrysene (C27.41)	14.471	1725375	11.239 ug/ml
16) T	benzo[b]fluoranthene ...	15.977	1376748	9.922 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.009	1686985	11.222 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.362	1358701	10.188 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.728	1005197	8.910 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	1692264	11.355 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.973	1516030	10.775 ug/ml

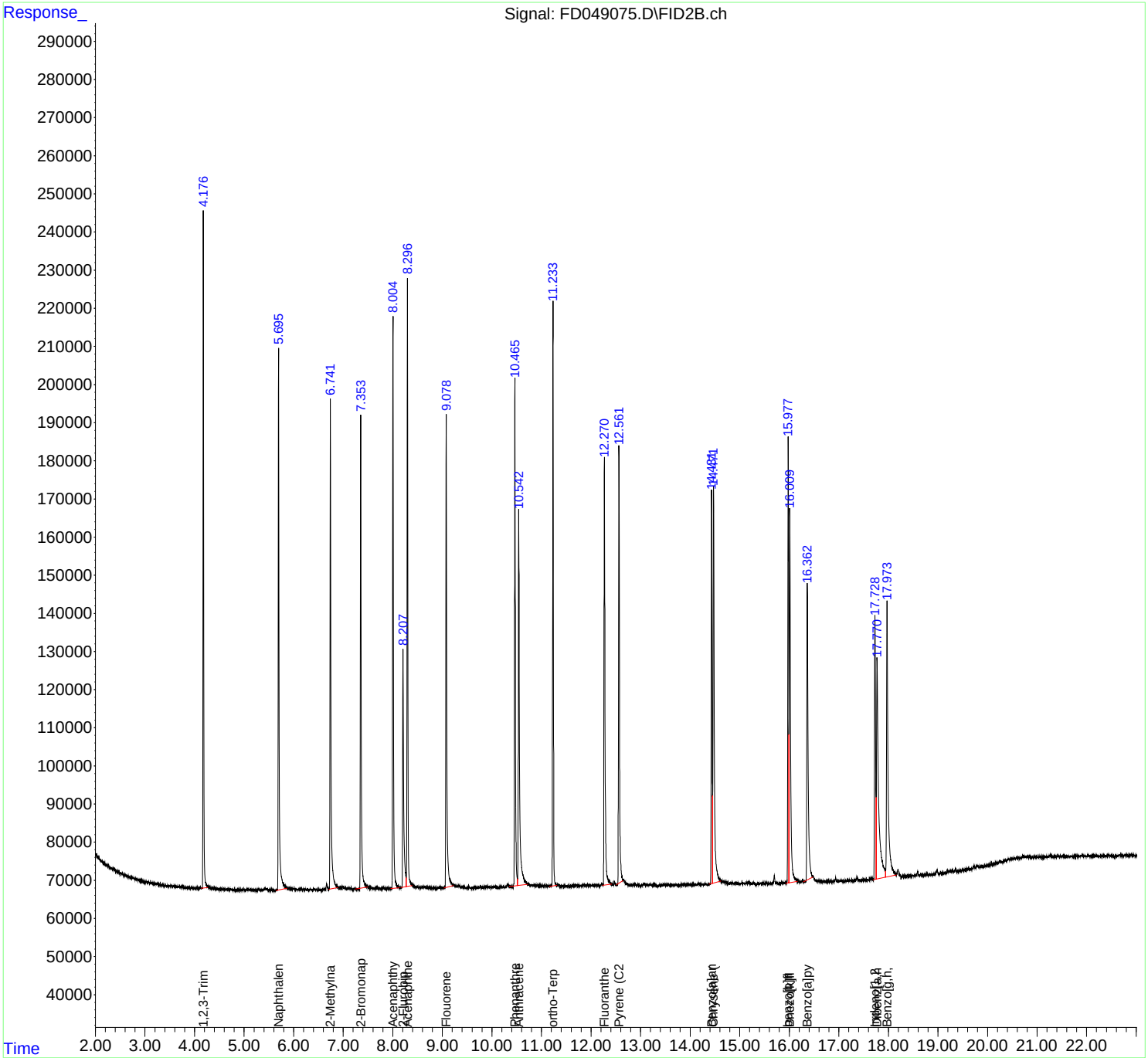
(f)=RT Delta > 1/2 Window (m)=manual int.

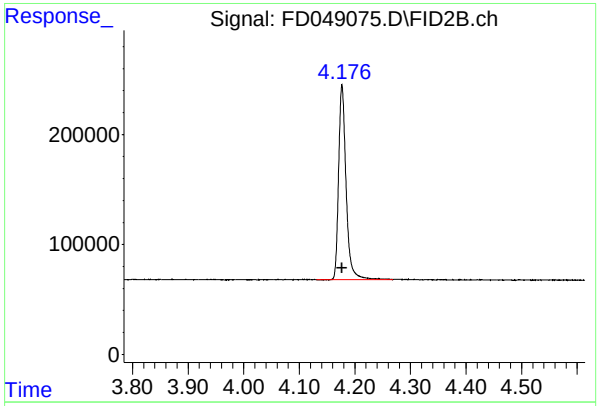
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049075.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:12
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 10 15:56:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:56:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

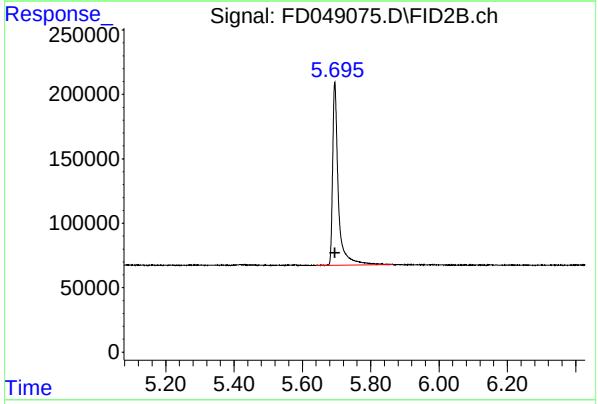




#1 1,2,3-Trimethylbenzene (C10.1)

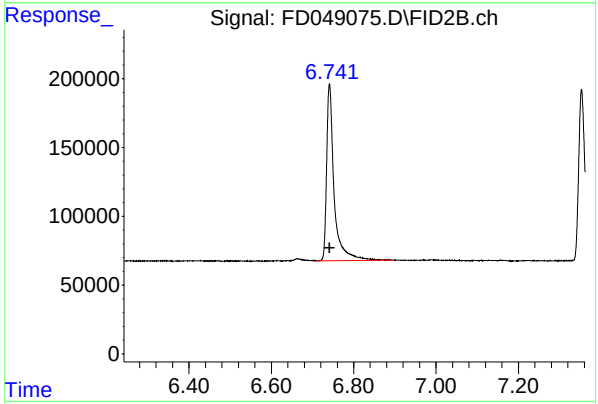
R.T.: 4.177 min
Delta R.T.: 0.000 min
Response: 1656548
Conc: 10.69 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



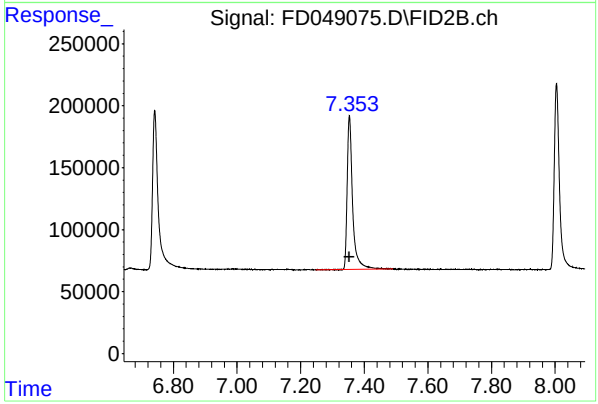
#2 Naphthalene (C11.7)

R.T.: 5.695 min
Delta R.T.: 0.000 min
Response: 1661529
Conc: 10.55 ug/ml



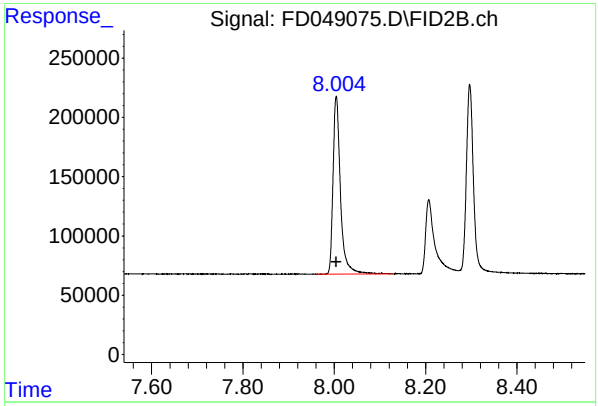
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.741 min
Delta R.T.: 0.000 min
Response: 1621317
Conc: 10.52 ug/ml



#4 2-Bromonaphthalene (SURR)

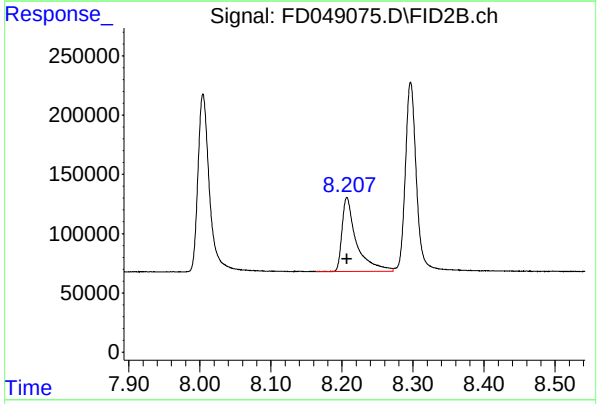
R.T.: 7.353 min
Delta R.T.: 0.000 min
Response: 1471043
Conc: 10.49 ug/ml



#5 Acenaphthylene (C15.06)

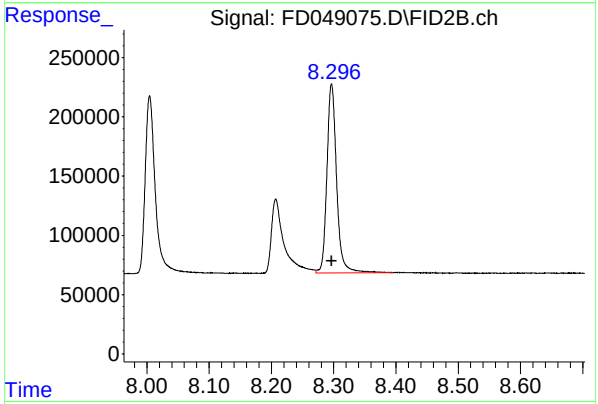
R.T.: 8.005 min
Delta R.T.: 0.000 min
Response: 1694814
Conc: 10.67 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



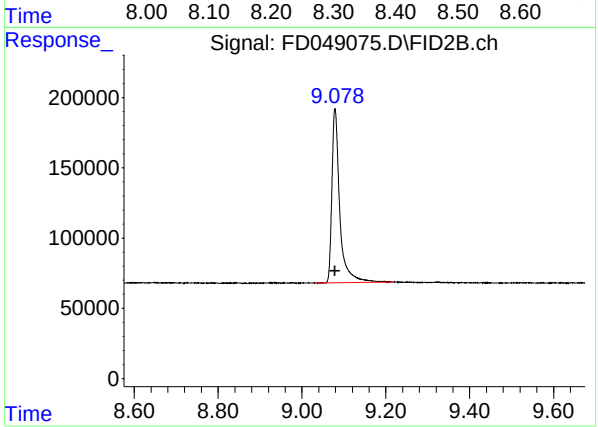
#6 2-Flurobiphenyl (SURR)

R.T.: 8.207 min
Delta R.T.: 0.000 min
Response: 875829
Conc: 9.81 ug/ml



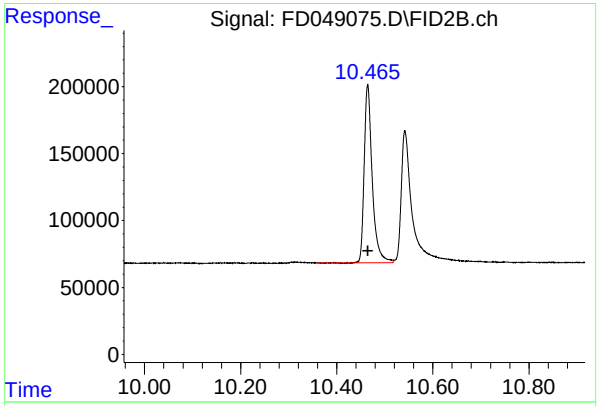
#7 Acenaphthene (C15.5)

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 1725833
Conc: 10.89 ug/ml



#8 Flouorene (C16.55)

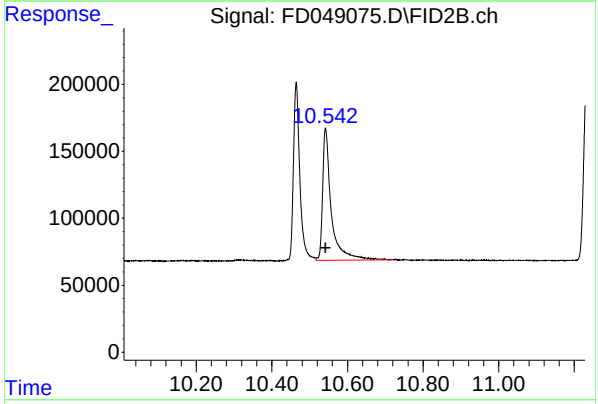
R.T.: 9.079 min
Delta R.T.: 0.000 min
Response: 1621856
Conc: 10.46 ug/ml



#9 Phenanthrene (C19.36)

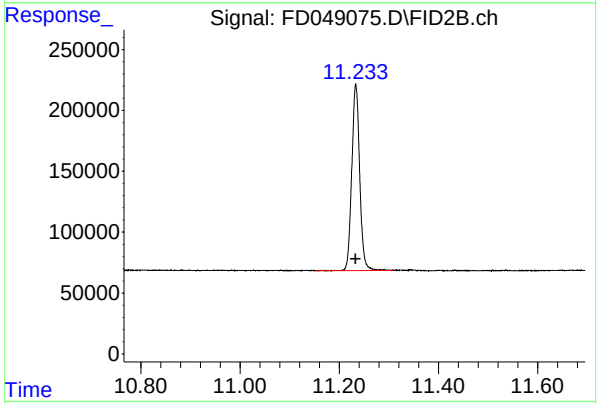
R.T.: 10.465 min
Delta R.T.: 0.000 min
Response: 1539045
Conc: 10.32 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



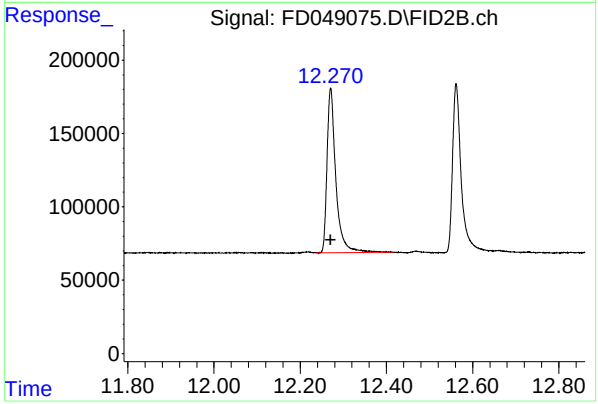
#10 Anthracene (C19.43)

R.T.: 10.542 min
Delta R.T.: 0.000 min
Response: 1567931
Conc: 10.49 ug/ml



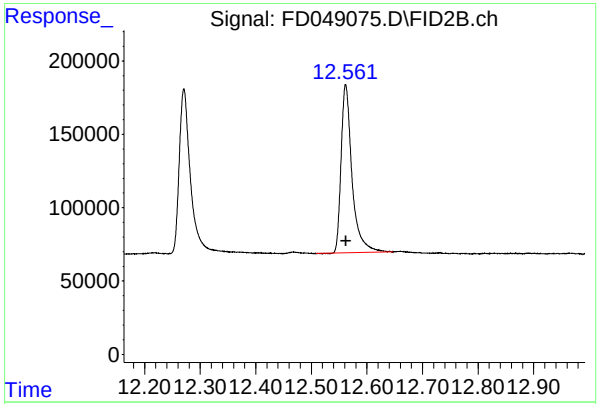
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 1694149
Conc: 10.76 ug/ml



#12 Fluoranthene (C21.85)

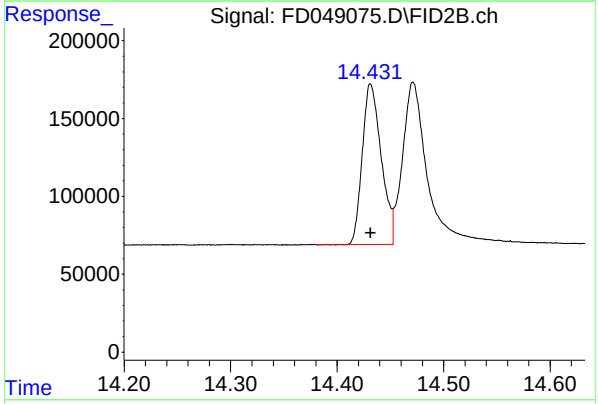
R.T.: 12.271 min
Delta R.T.: 0.000 min
Response: 1592182
Conc: 10.48 ug/ml



#13 Pyrene (C20.8)

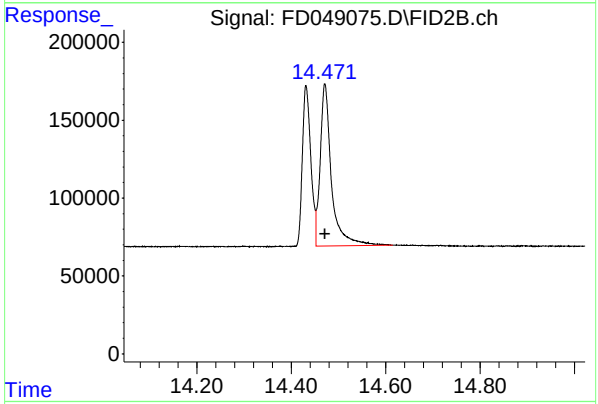
R.T.: 12.562 min
Delta R.T.: 0.000 min
Response: 1566919
Conc: 10.43 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



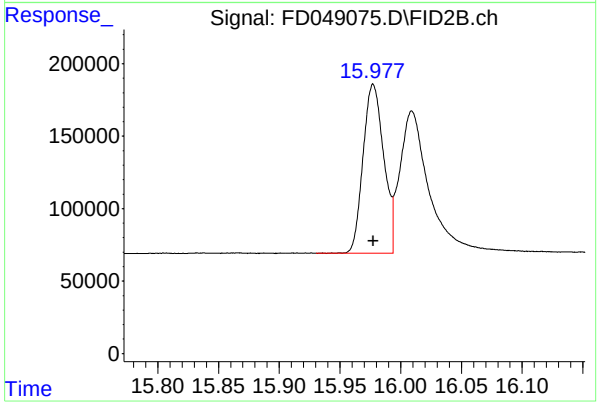
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.431 min
Delta R.T.: 0.000 min
Response: 1271690
Conc: 9.42 ug/ml



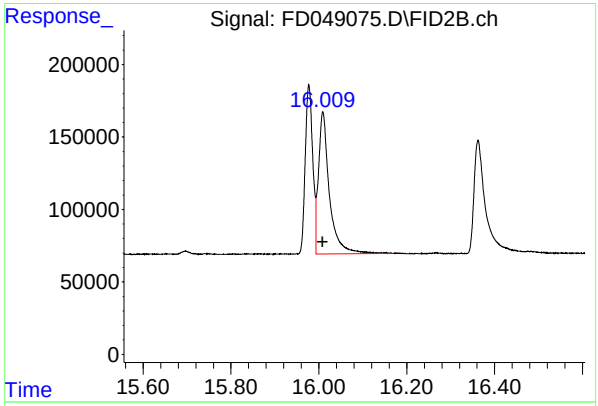
#15 Chrysene (C27.41)

R.T.: 14.471 min
Delta R.T.: 0.000 min
Response: 1725375
Conc: 11.24 ug/ml



#16 benzo[b]fluoranthene (C30.41)

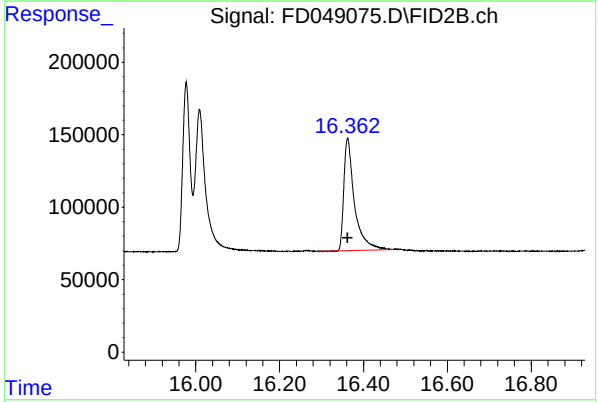
R.T.: 15.977 min
Delta R.T.: 0.000 min
Response: 1376748
Conc: 9.92 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

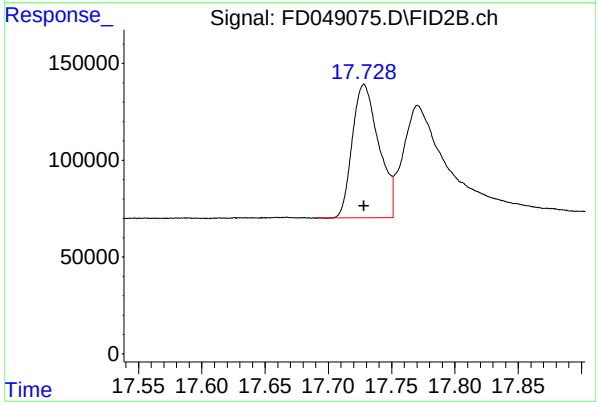
R.T.: 16.009 min
Delta R.T.: 0.000 min
Response: 1686985
Conc: 11.22 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



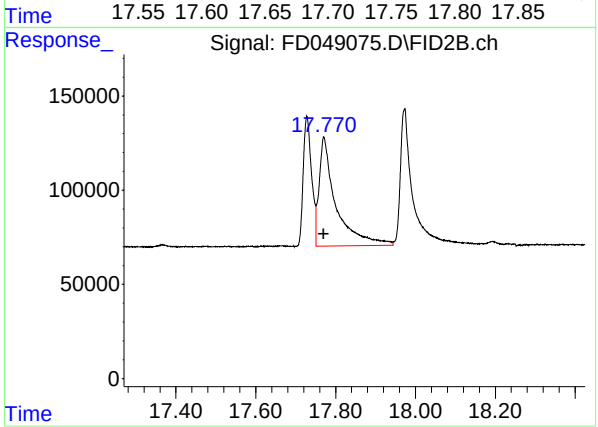
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.362 min
Delta R.T.: 0.000 min
Response: 1358701
Conc: 10.19 ug/ml



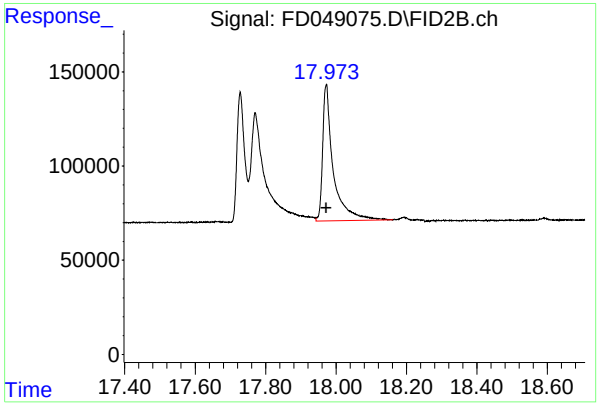
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.728 min
Delta R.T.: 0.000 min
Response: 1005197
Conc: 8.91 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.771 min
Delta R.T.: 0.000 min
Response: 1692264
Conc: 11.35 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.973 min
Delta R.T.: 0.000 mi
Response: 1516030
Conc: 10.78 ug/m

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049075.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:12
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.177	4.130	4.269	BV	177205	1656548	95.99%	5.189%
2	5.695	5.640	5.865	BB	141933	1661529	96.27%	5.205%
3	6.741	6.709	6.895	BB	128539	1621317	93.94%	5.079%
4	7.353	7.249	7.490	BB	124068	1471043	85.24%	4.608%
5	8.005	7.960	8.129	BB	150103	1694814	98.20%	5.309%
6	8.207	8.164	8.272	BV	62427	875829	50.75%	2.744%
7	8.297	8.272	8.395	VB	159429	1725833	100.00%	5.406%
8	9.079	9.034	9.217	BB	124112	1621856	93.98%	5.081%
9	10.465	10.357	10.517	BV	133260	1539045	89.18%	4.821%
10	10.542	10.517	10.720	VB	98455	1567931	90.85%	4.912%
11	11.234	11.154	11.309	BB	153221	1694149	98.16%	5.307%
12	12.271	12.237	12.415	BB	112182	1592182	92.26%	4.988%
13	12.562	12.509	12.647	BV	114740	1566919	90.79%	4.909%
14	14.431	14.380	14.452	BV	102861	1271690	73.69%	3.984%
15	14.471	14.452	14.615	VB	104040	1725375	99.97%	5.405%
16	15.977	15.930	15.994	BV	116644	1376748	79.77%	4.313%
17	16.009	15.994	16.169	VB	98055	1686985	97.75%	5.285%
18	16.362	16.287	16.470	BV	77646	1358701	78.73%	4.256%
19	17.728	17.690	17.751	BV	69162	1005197	58.24%	3.149%
20	17.771	17.751	17.944	VV	57989	1692264	98.05%	5.301%
21	17.973	17.944	18.162	VV	72731	1516030	87.84%	4.749%

Sum of corrected areas: 31921984

Aromatic EPH 021125.M Tue Feb 11 00:33:53 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049076.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:48
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 10 16:26:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:26:18 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.358	773691	5.406 ug/ml
Spiked Amount	50.000		Recovery =	10.81%
6) S	2-Flurobiphenyl (SURR)	8.218	411369	4.679 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	9.36%
11) S	ortho-Terphenyl (SURR)	11.234	896262	5.540 ug/ml
Spiked Amount	50.000		Recovery =	11.08%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.178	880662	5.530 ug/ml
2) T	Naphthalene (C11.7)	5.699	819370	5.160 ug/ml
3) T	2-Methylnaphthalene (...	6.746	809055	5.196 ug/ml
5) T	Acenaphthylene (C15.06)	8.007	889357	5.469 ug/ml
7) T	Acenaphthene (C15.5)	8.298	942609	5.730 ug/ml
8) T	Flouorene (C16.55)	9.085	839593	5.326 ug/ml
9) T	Phenanthrene (C19.36)	10.472	783663	5.200 ug/ml
10) T	Anthracene (C19.43)	10.552	786469	5.207 ug/ml
12) T	Fluoranthene (C21.85)	12.279	819618	5.311 ug/ml
13) T	Pyrene (C20.8)	12.567	846750	5.496 ug/ml
14) T	Benzo[a]anthracene (C...	14.443	584303	4.447 ug/ml
15) T	Chrysene (C27.41)	14.479	971932	6.011 ug/ml
16) T	benzo[b]fluoranthene ...	15.986	664702	4.831 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.019	942068	5.965 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.376	726171	5.350 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.745	475672	4.353 ug/ml
20) T	Dibenz[a,h]anthracene...	17.788	897828	5.787 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.982	809816	5.587 ug/ml

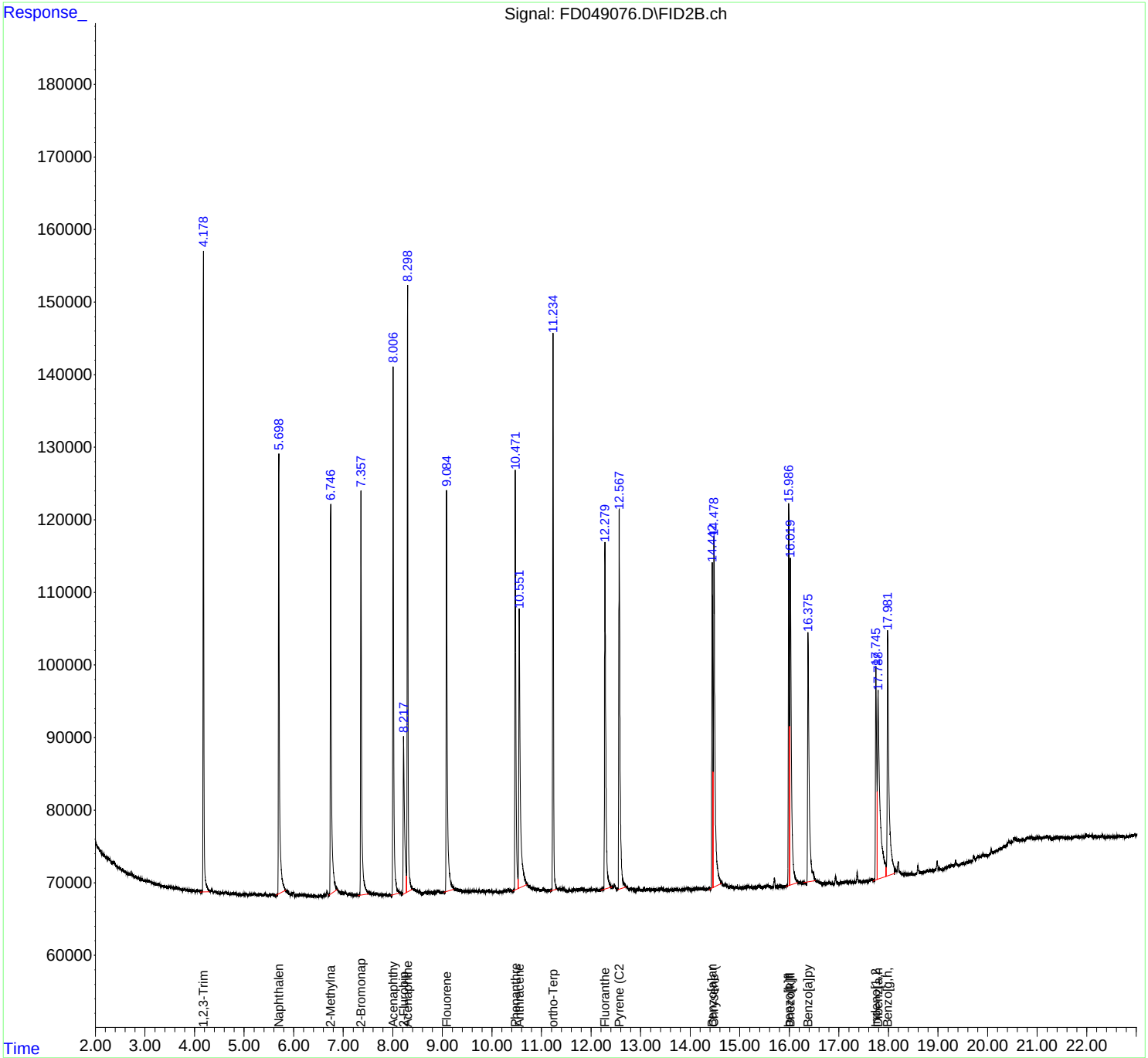
(f)=RT Delta > 1/2 Window (m)=manual int.

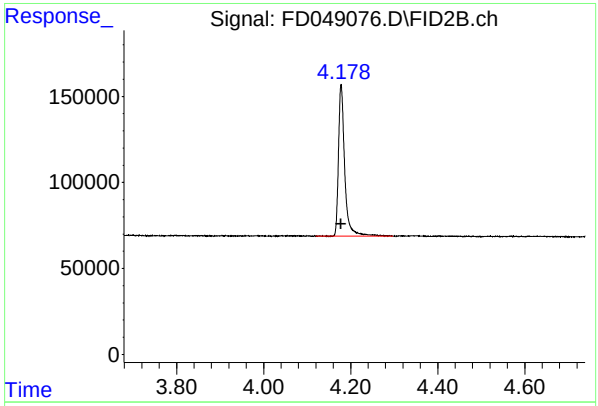
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049076.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:48
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 10 16:26:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:26:18 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

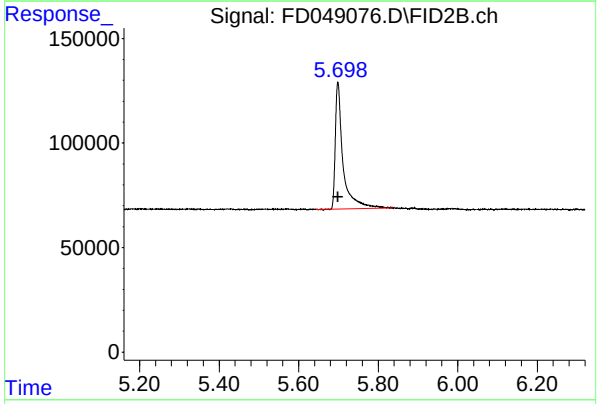




#1 1,2,3-Trimethylbenzene (C10.1)

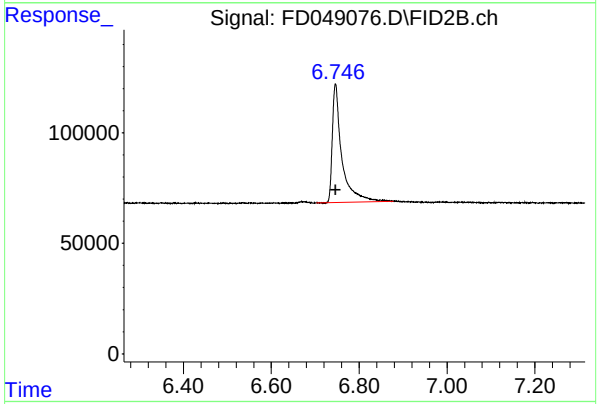
R.T.: 4.178 min
Delta R.T.: 0.000 min
Response: 880662
Conc: 5.53 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



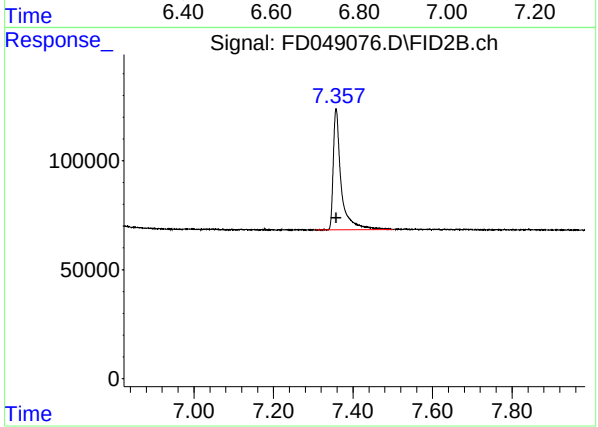
#2 Naphthalene (C11.7)

R.T.: 5.699 min
Delta R.T.: 0.000 min
Response: 819370
Conc: 5.16 ug/ml



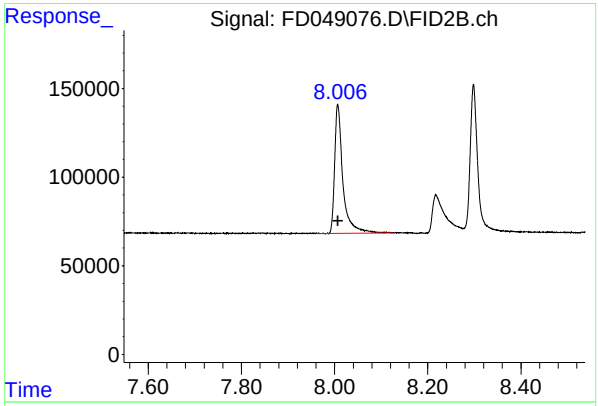
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.746 min
Delta R.T.: 0.000 min
Response: 809055
Conc: 5.20 ug/ml



#4 2-Bromonaphthalene (SURR)

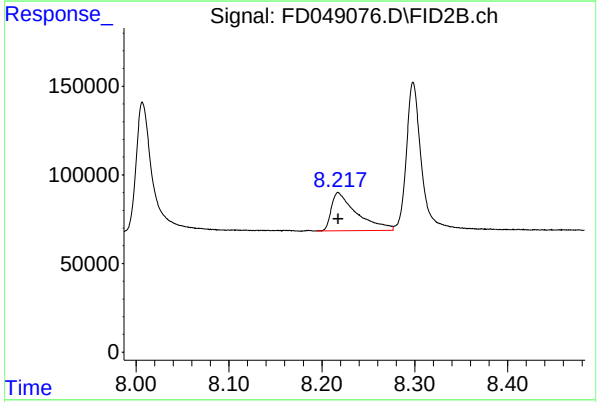
R.T.: 7.358 min
Delta R.T.: 0.000 min
Response: 773691
Conc: 5.41 ug/ml



#5 Acenaphthylene (C15.06)

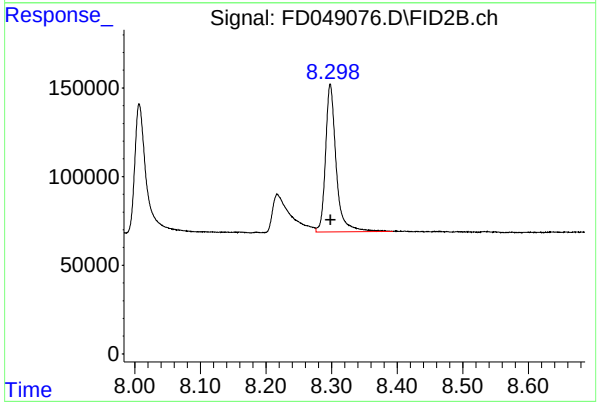
R.T.: 8.007 min
Delta R.T.: 0.000 min
Response: 889357
Conc: 5.47 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



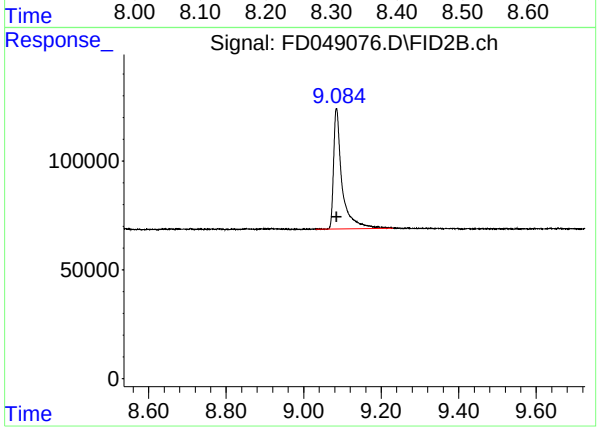
#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 411369
Conc: 4.68 ug/ml



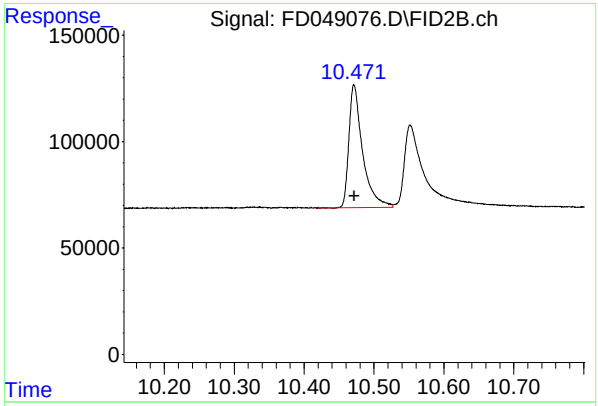
#7 Acenaphthene (C15.5)

R.T.: 8.298 min
Delta R.T.: 0.000 min
Response: 942609
Conc: 5.73 ug/ml



#8 Flouorene (C16.55)

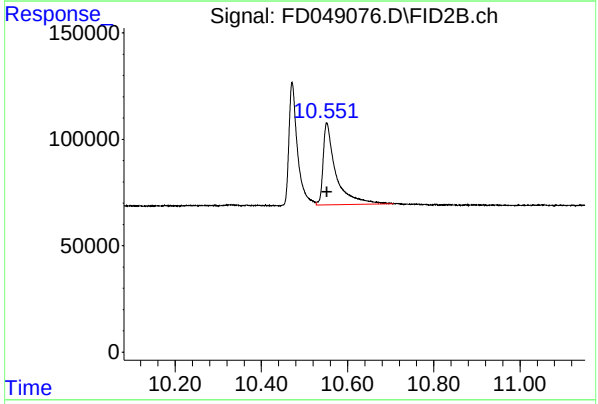
R.T.: 9.085 min
Delta R.T.: 0.000 min
Response: 839593
Conc: 5.33 ug/ml



#9 Phenanthrene (C19.36)

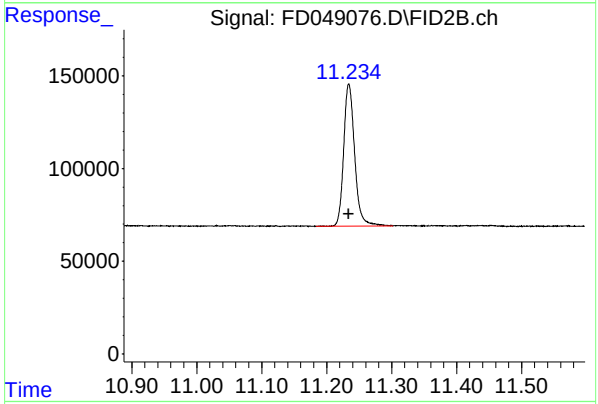
R.T.: 10.472 min
Delta R.T.: 0.000 min
Response: 783663
Conc: 5.20 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



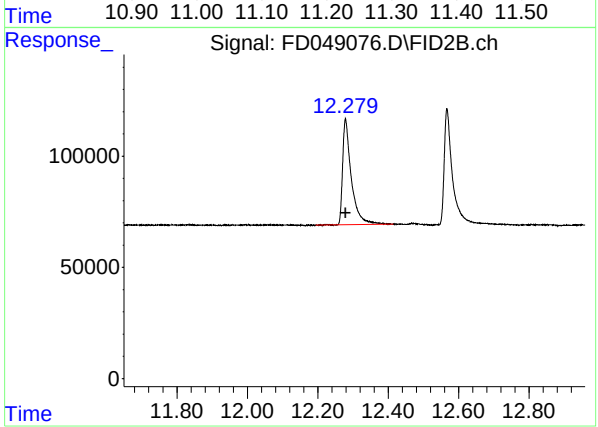
#10 Anthracene (C19.43)

R.T.: 10.552 min
Delta R.T.: 0.000 min
Response: 786469
Conc: 5.21 ug/ml



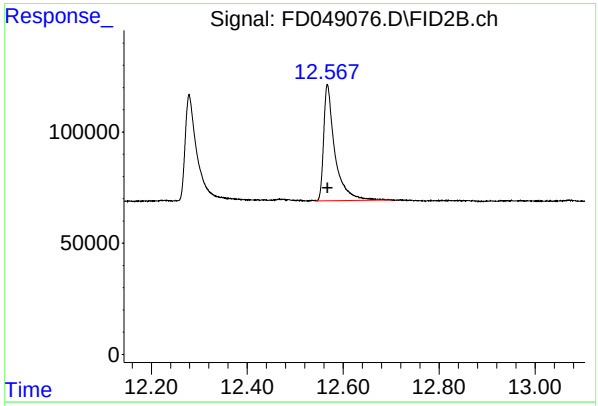
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 896262
Conc: 5.54 ug/ml



#12 Fluoranthene (C21.85)

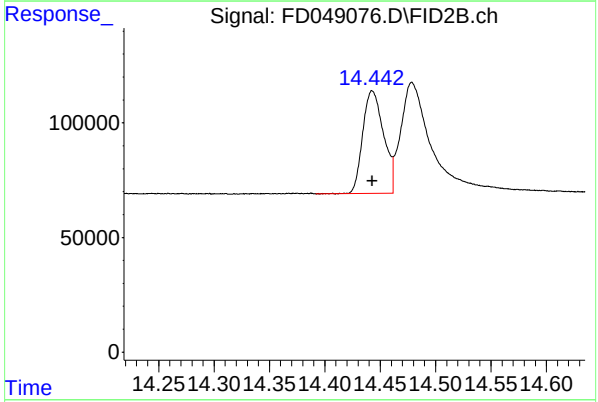
R.T.: 12.279 min
Delta R.T.: 0.000 min
Response: 819618
Conc: 5.31 ug/ml



#13 Pyrene (C20.8)

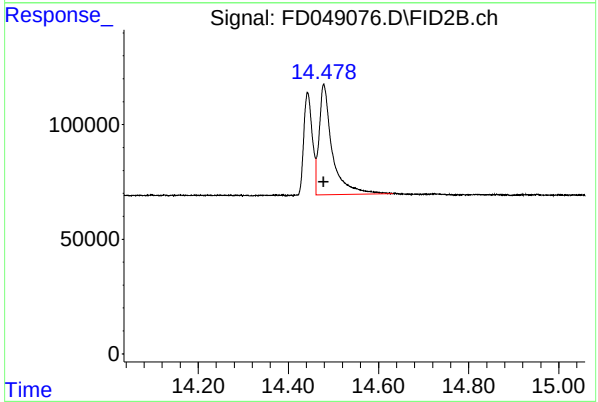
R.T.: 12.567 min
Delta R.T.: 0.000 min
Response: 846750
Conc: 5.50 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



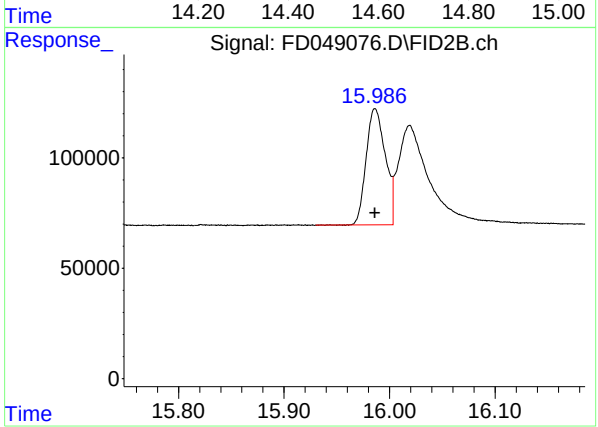
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.443 min
Delta R.T.: 0.000 min
Response: 584303
Conc: 4.45 ug/ml



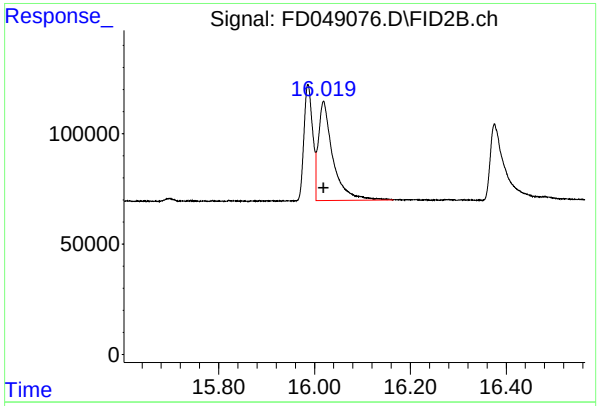
#15 Chrysene (C27.41)

R.T.: 14.479 min
Delta R.T.: 0.000 min
Response: 971932
Conc: 6.01 ug/ml



#16 benzo[b]fluoranthene (C30.41)

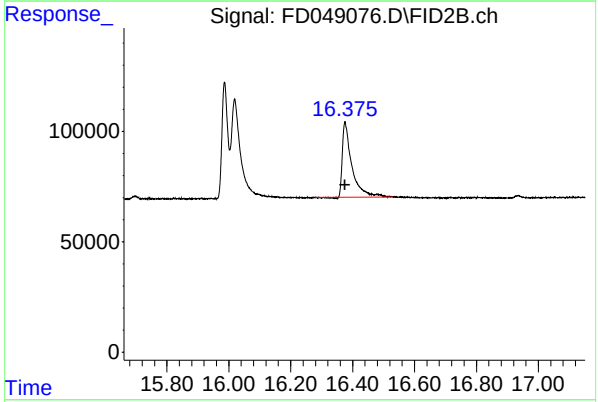
R.T.: 15.986 min
Delta R.T.: 0.000 min
Response: 664702
Conc: 4.83 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

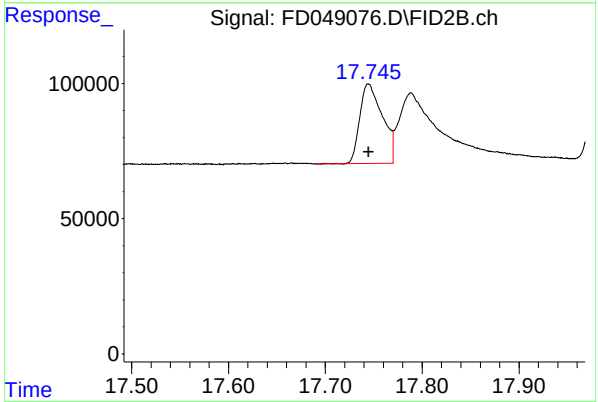
R.T.: 16.019 min
Delta R.T.: 0.000 min
Response: 942068
Conc: 5.96 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



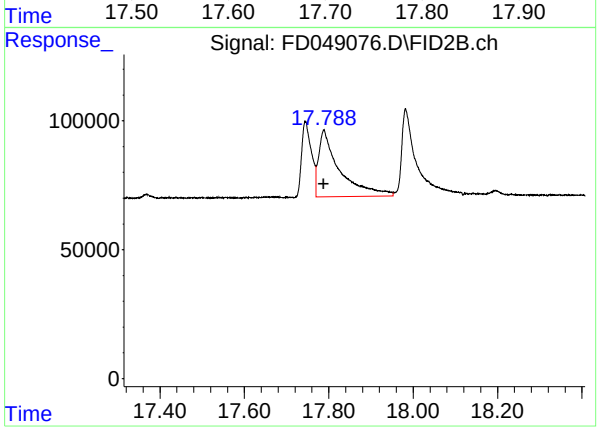
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.376 min
Delta R.T.: 0.000 min
Response: 726171
Conc: 5.35 ug/ml



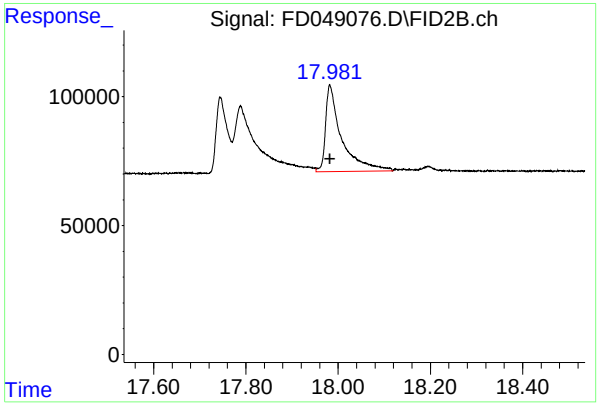
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.745 min
Delta R.T.: 0.000 min
Response: 475672
Conc: 4.35 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.788 min
Delta R.T.: 0.000 min
Response: 897828
Conc: 5.79 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.982 min
Delta R.T.: 0.000 mi
Response: 809816
Conc: 5.59 ug/m

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049076.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:48
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.178	4.120	4.297	BB	88104	880662	90.61%	5.314%
2	5.699	5.644	5.837	BB	60647	819370	84.30%	4.945%
3	6.746	6.702	6.877	BB	53740	809055	83.24%	4.882%
4	7.358	7.307	7.500	BV	55653	773691	79.60%	4.669%
5	8.007	7.960	8.125	BB	72554	889357	91.50%	5.367%
6	8.218	8.194	8.276	PV	21681	411369	42.32%	2.482%
7	8.298	8.276	8.394	VB	83456	942609	96.98%	5.688%
8	9.085	9.032	9.230	BB	55303	839593	86.38%	5.067%
9	10.472	10.417	10.527	BV	57501	783663	80.63%	4.729%
10	10.552	10.527	10.705	VB	38447	786469	80.92%	4.746%
11	11.234	11.184	11.302	BB	76762	896262	92.21%	5.409%
12	12.279	12.195	12.414	BB	47695	819618	84.33%	4.946%
13	12.567	12.543	12.704	PB	52249	846750	87.12%	5.110%
14	14.443	14.392	14.461	BV	44649	584303	60.12%	3.526%
15	14.479	14.461	14.632	VB	48318	971932	100.00%	5.865%
16	15.986	15.930	16.003	BV	52690	664702	68.39%	4.011%
17	16.019	16.003	16.164	VB	44953	942068	96.93%	5.685%
18	16.376	16.282	16.530	BB	34288	726171	74.71%	4.382%
19	17.745	17.690	17.770	BV	29384	475672	48.94%	2.871%
20	17.788	17.770	17.952	VV	26033	897828	92.38%	5.418%
21	17.982	17.952	18.119	VV	33694	809816	83.32%	4.887%
			Sum of corrected areas:			16570960		

Aromatic EPH 021125.M Tue Feb 11 00:34:06 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049077.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

Integration File: autoint1.e
Quant Time: Feb 10 18:23:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:27:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.352	2822907	19.726 ug/ml
Spiked Amount	50.000		Recovery =	39.45%
6) S	2-Flurobiphenyl (SURR)	8.203	1781261	20.262 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.52%
11) S	ortho-Terphenyl (SURR)	11.233	3178458	19.647 ug/ml
Spiked Amount	50.000		Recovery =	39.29%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	3134755	19.684 ug/ml
2) T	Naphthalene (C11.7)	5.693	3146803	19.818 ug/ml
3) T	2-Methylnaphthalene (...	6.739	3087751	19.832 ug/ml
5) T	Acenaphthylene (C15.06)	8.003	3188327	19.608 ug/ml
7) T	Acenaphthene (C15.5)	8.296	3203234	19.472 ug/ml
8) T	Flouorene (C16.55)	9.076	3106009	19.702 ug/ml
9) T	Phenanthrene (C19.36)	10.462	2995357	19.876 ug/ml
10) T	Anthracene (C19.43)	10.539	3001671	19.875 ug/ml
12) T	Fluoranthene (C21.85)	12.266	3059686	19.828 ug/ml
13) T	Pyrene (C20.8)	12.559	3015618	19.575 ug/ml
14) T	Benzo[a]anthracene (C...	14.428	2707067	20.603 ug/ml
15) T	Chrysene (C27.41)	14.470	3142097	19.433 ug/ml
16) T	benzo[b]fluoranthene ...	15.976	2807062	20.401 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.007	3031459	19.193 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.354	2694826	19.853 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.718	2162922	19.793 ug/mlm
20) T	Dibenz[a,h]anthracene...	17.759	3098291	19.971 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.967	2849147	19.656 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049077.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 67 Sample Multiplier: 1

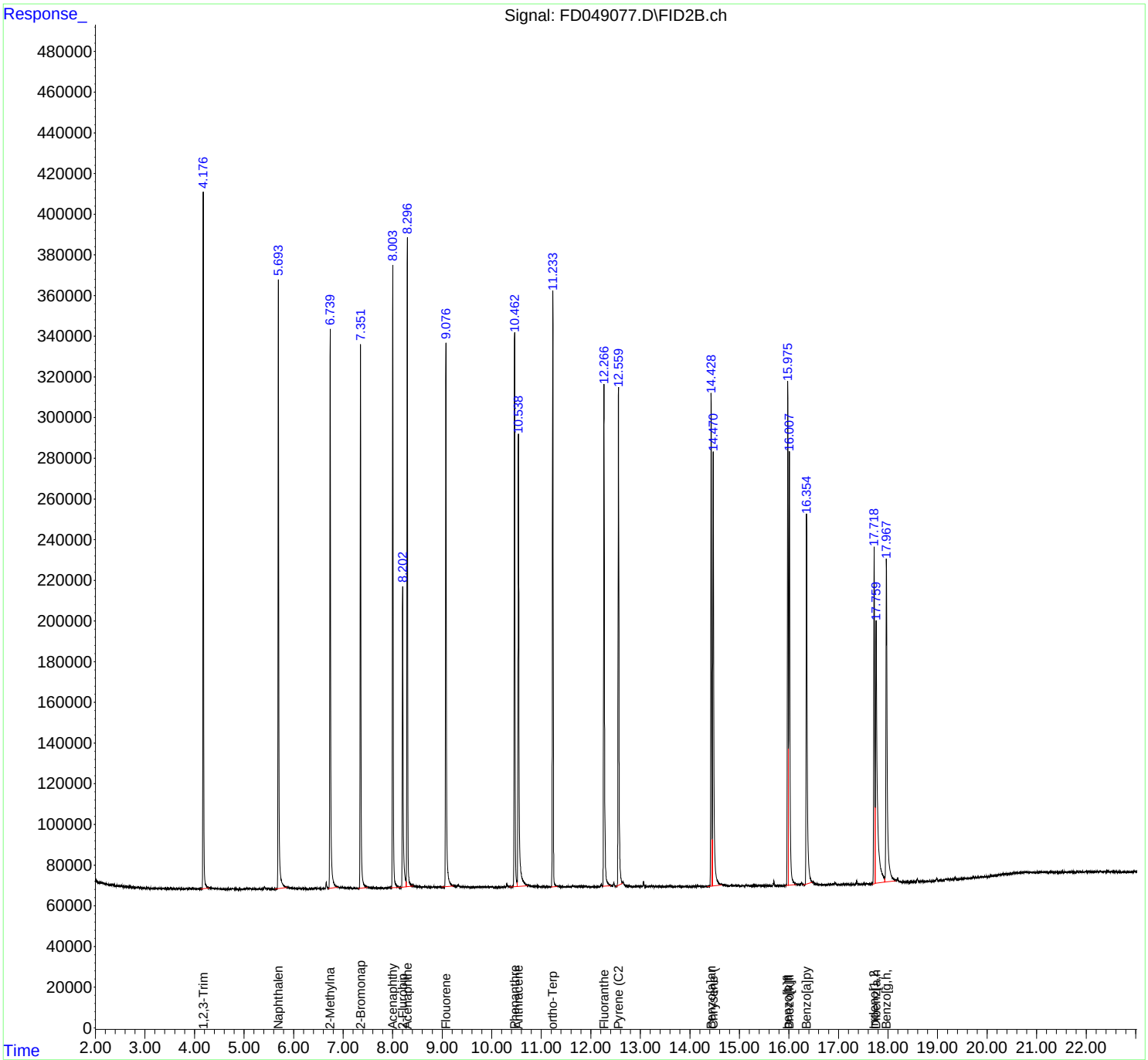
Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

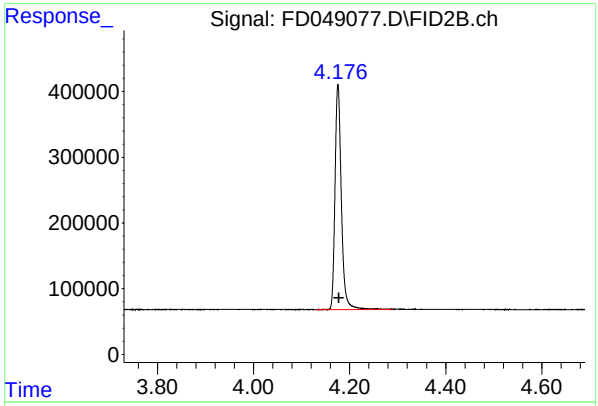
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

Integration File: autoint1.e
Quant Time: Feb 10 18:23:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:27:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm





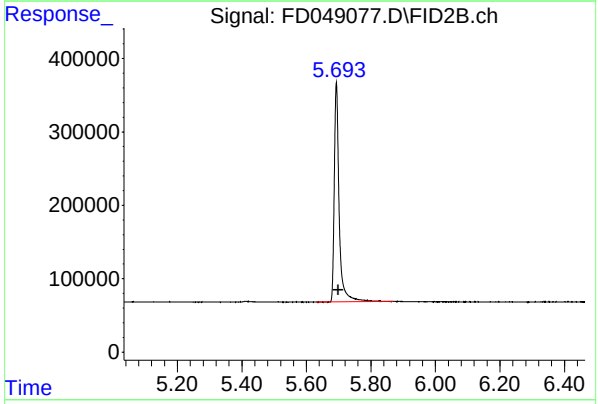
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.176 min
Delta R.T.: -0.002 min
Response: 3134755
Conc: 19.68 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

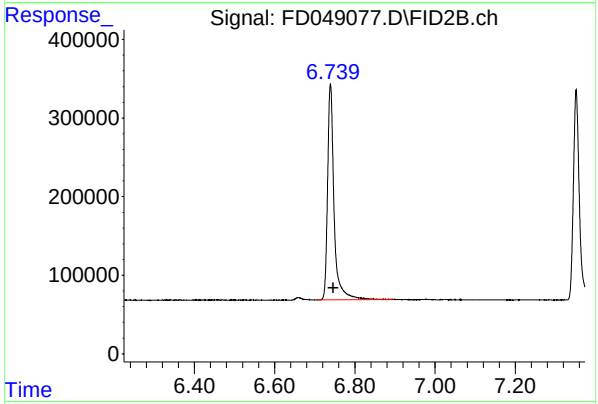
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



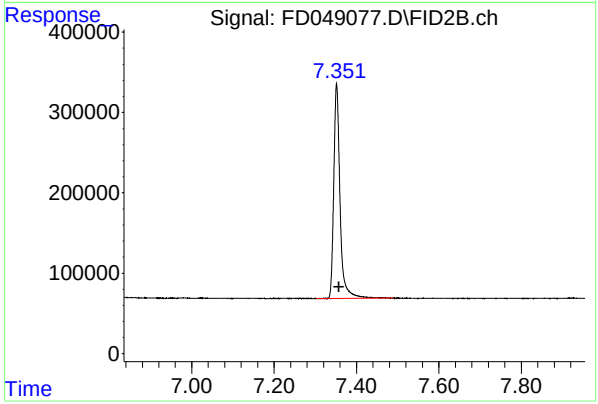
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: -0.006 min
Response: 3146803
Conc: 19.82 ug/ml



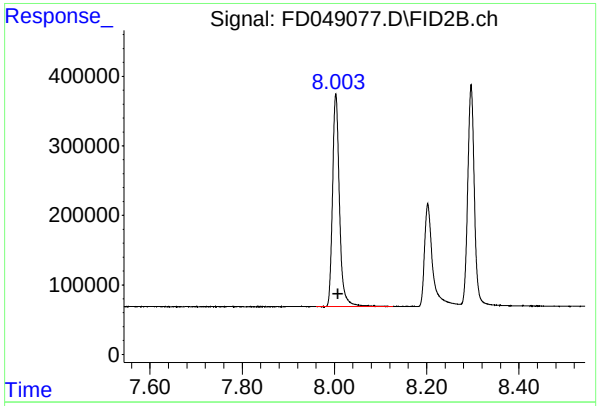
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: -0.007 min
Response: 3087751
Conc: 19.83 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.352 min
Delta R.T.: -0.006 min
Response: 2822907
Conc: 19.73 ug/ml



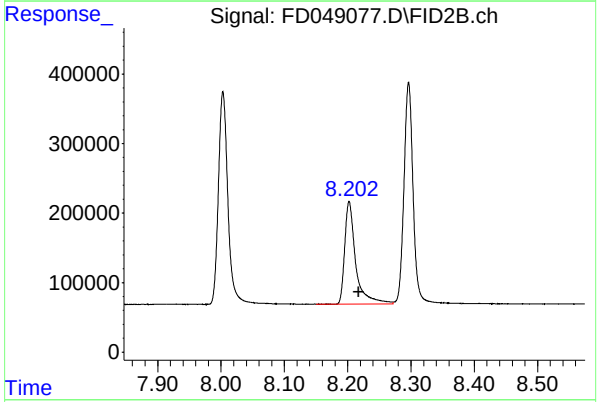
#5 Acenaphthylene (C15.06)

R.T.: 8.003 min
Delta R.T.: -0.004 min
Response: 3188327
Conc: 19.61 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

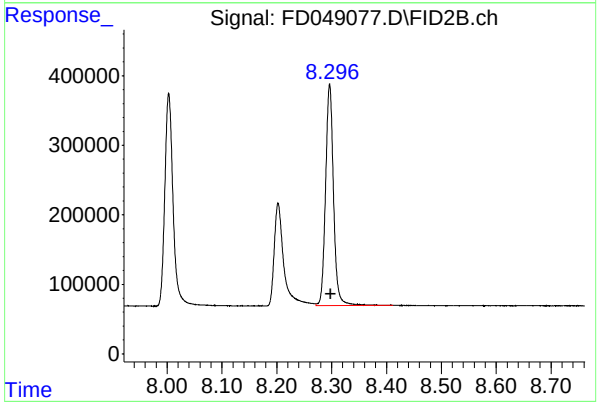
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



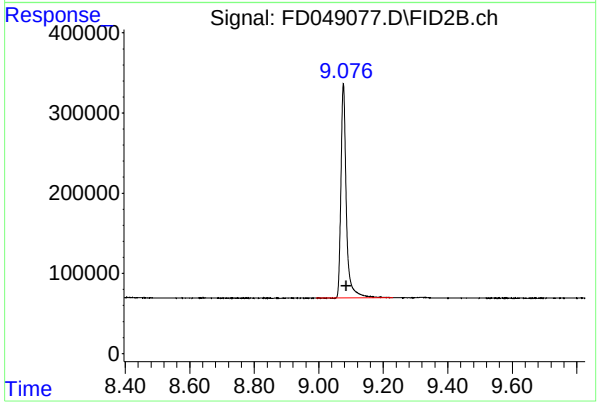
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: -0.015 min
Response: 1781261
Conc: 20.26 ug/ml



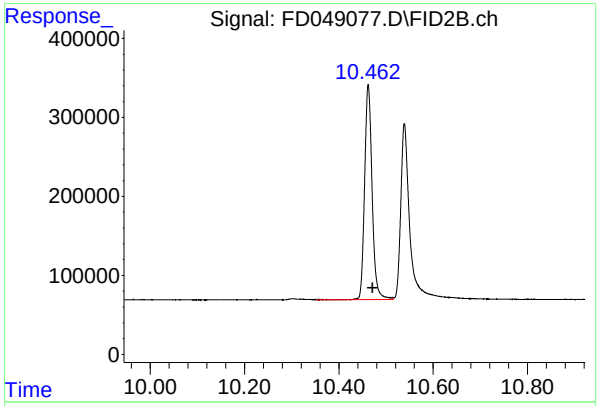
#7 Acenaphthene (C15.5)

R.T.: 8.296 min
Delta R.T.: -0.002 min
Response: 3203234
Conc: 19.47 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.076 min
Delta R.T.: -0.008 min
Response: 3106009
Conc: 19.70 ug/ml



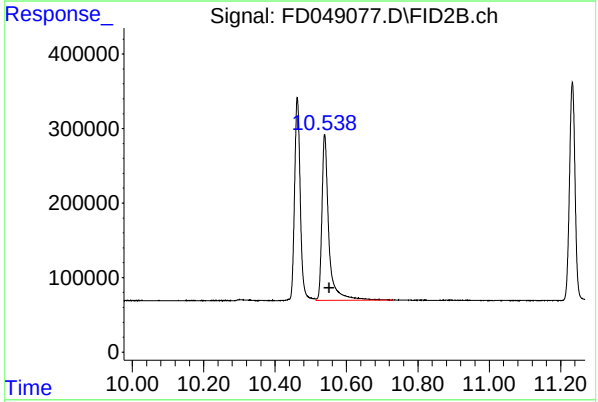
#9 Phenanthrene (C19.36)

R.T.: 10.462 min
Delta R.T.: -0.009 min
Response: 2995357
Conc: 19.88 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

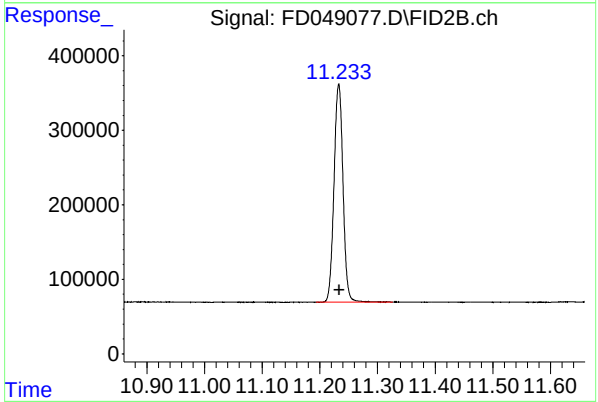
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



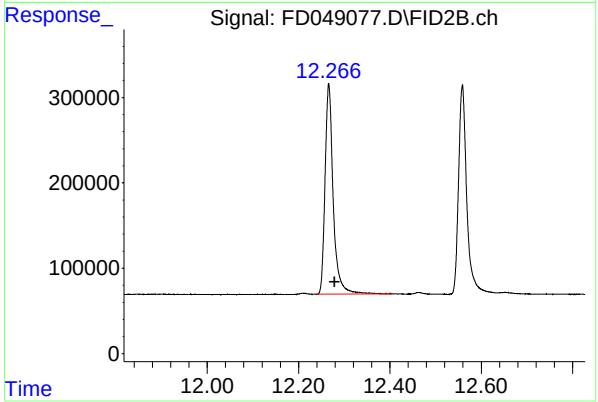
#10 Anthracene (C19.43)

R.T.: 10.539 min
Delta R.T.: -0.013 min
Response: 3001671
Conc: 19.87 ug/ml



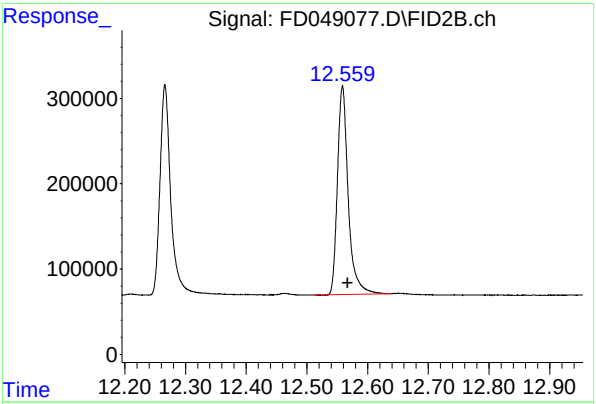
#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: -0.001 min
Response: 3178458
Conc: 19.65 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.266 min
Delta R.T.: -0.013 min
Response: 3059686
Conc: 19.83 ug/ml



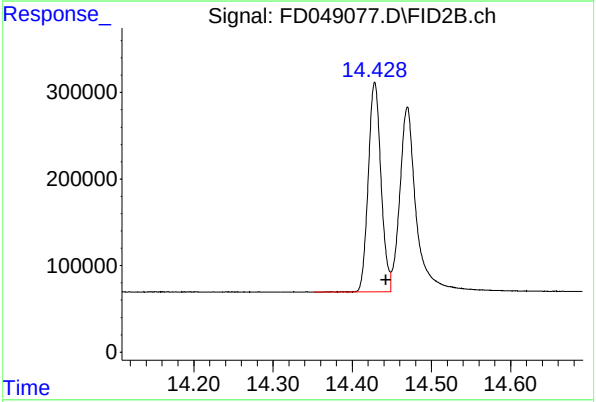
#13 Pyrene (C20.8)

R.T.: 12.559 min
Delta R.T.: -0.008 min
Response: 3015618
Conc: 19.57 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

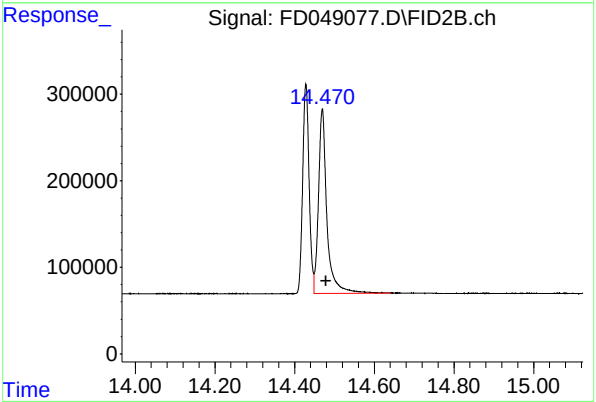
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



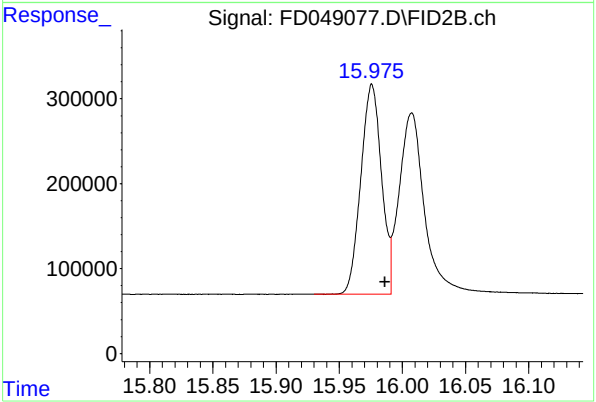
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.428 min
Delta R.T.: -0.014 min
Response: 2707067
Conc: 20.60 ug/ml



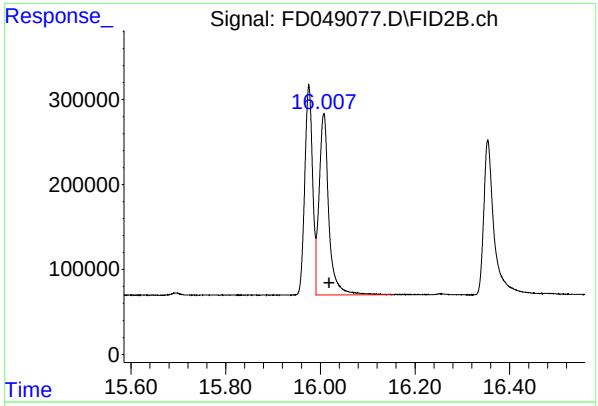
#15 Chrysene (C27.41)

R.T.: 14.470 min
Delta R.T.: -0.009 min
Response: 3142097
Conc: 19.43 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 15.976 min
Delta R.T.: -0.010 min
Response: 2807062
Conc: 20.40 ug/ml



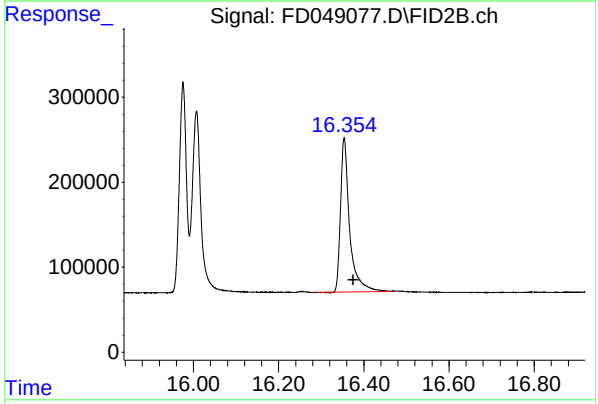
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.007 min
Delta R.T.: -0.012 min
Response: 3031459
Conc: 19.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

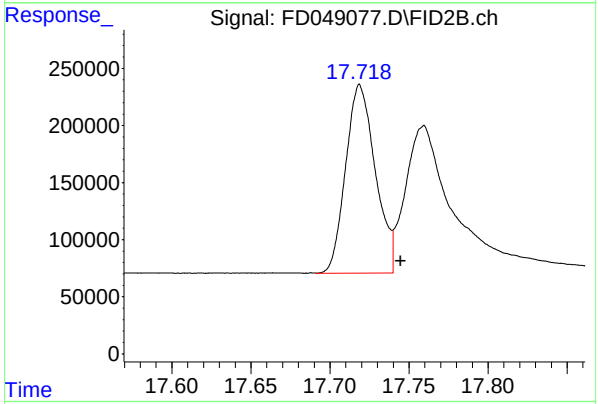
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



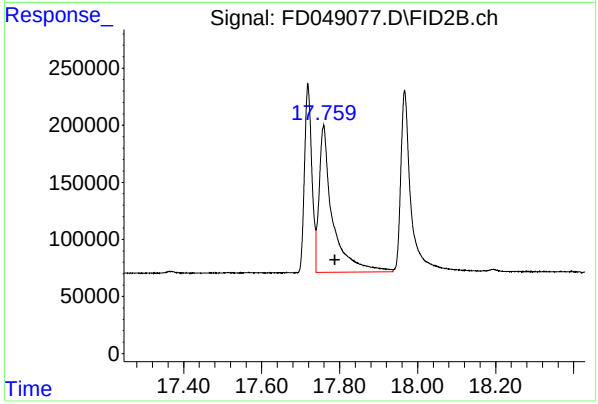
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.354 min
Delta R.T.: -0.022 min
Response: 2694826
Conc: 19.85 ug/ml



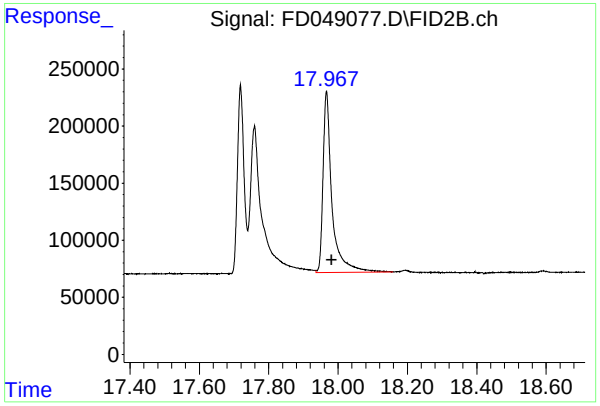
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.718 min
Delta R.T.: -0.026 min
Response: 2162922
Conc: 19.79 ug/ml m



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.759 min
Delta R.T.: -0.029 min
Response: 3098291
Conc: 19.97 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.967 min
Delta R.T.: -0.015 mi
Response: 2849147
Conc: 19.66 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD02112
Data File : FD049077.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 16:24
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.130	4.290	BV	342184	3134755	97.86%	5.122%
2	5.693	5.630	5.868	BB	299016	3146803	98.24%	5.142%
3	6.739	6.703	6.895	BB	275219	3087751	96.39%	5.046%
4	7.352	7.302	7.488	BB	267137	2822907	88.13%	4.613%
5	8.003	7.960	8.127	BB	305766	3188327	99.53%	5.210%
6	8.203	8.150	8.272	BV	147711	1781261	55.61%	2.911%
7	8.296	8.272	8.412	VB	318821	3203234	100.00%	5.234%
8	9.076	8.992	9.230	BB	267490	3106009	96.96%	5.075%
9	10.462	10.352	10.515	BV	272649	2995357	93.51%	4.895%
10	10.539	10.515	10.730	VV	223108	3001671	93.71%	4.905%
11	11.233	11.193	11.327	BB	293357	3178458	99.23%	5.194%
12	12.266	12.238	12.407	BB	246286	3059686	95.52%	5.000%
13	12.559	12.512	12.638	BV	244060	3015618	94.14%	4.928%
14	14.428	14.352	14.449	BV	242288	2707067	84.51%	4.424%
15	14.470	14.449	14.642	VB	214017	3142097	98.09%	5.134%
16	15.976	15.930	15.991	BV	246799	2807062	87.63%	4.587%
17	16.007	15.991	16.153	VB	213051	3031459	94.64%	4.954%
18	16.354	16.288	16.468	PV	181424	2694826	84.13%	4.404%
19	17.719	17.690	17.740	BV	165163	2144691	66.95%	3.505%
20	17.759	17.740	17.937	VV	128285	3098291	96.72%	5.063%
21	17.967	17.937	18.158	VB	158807	2849147	88.95%	4.656%
			Sum of corrected areas:			61196477		

Aromatic EPH 021125.M Tue Feb 11 00:34:31 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FC022525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068295.D**						
Aliphatic C9-C12	7540145.000	60.000	3.105	6.371	125669.083	141035.502	10.895
Aliphatic C12-C16	4890516.000	40.000	6.372	9.756	122262.900	136654.515	10.531
Aliphatic C16-C21	7157687.000	60.000	9.757	13.110	119294.783	131630.895	9.372
Aliphatic C21-C28	9437216.000	80.000	13.111	16.764	117965.200	122691.322	3.852
Aliphatic C28-C40	12705875.000	120.000	16.765	21.571	105882.292	102846.462	-2.952
Aliphatic EPH	41731439.000	360.000	3.105	21.571	115920.664	122175.127	5.119

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	25 Feb 2025 11:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068295.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.105	6.371	7540145.000	60.000	ug/ml
Aliphatic C12-C16	6.372	9.756	4890516.000	40.000	ug/ml
Aliphatic C16-C21	9.757	13.110	7157687.000	60.000	ug/ml
Aliphatic C21-C28	13.111	16.764	9437216.000	80.000	ug/ml
Aliphatic C28-C40	16.765	21.571	12705875.000	120.000	ug/ml
Aliphatic EPH	3.105	21.571	41731439.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068295.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 11:30
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

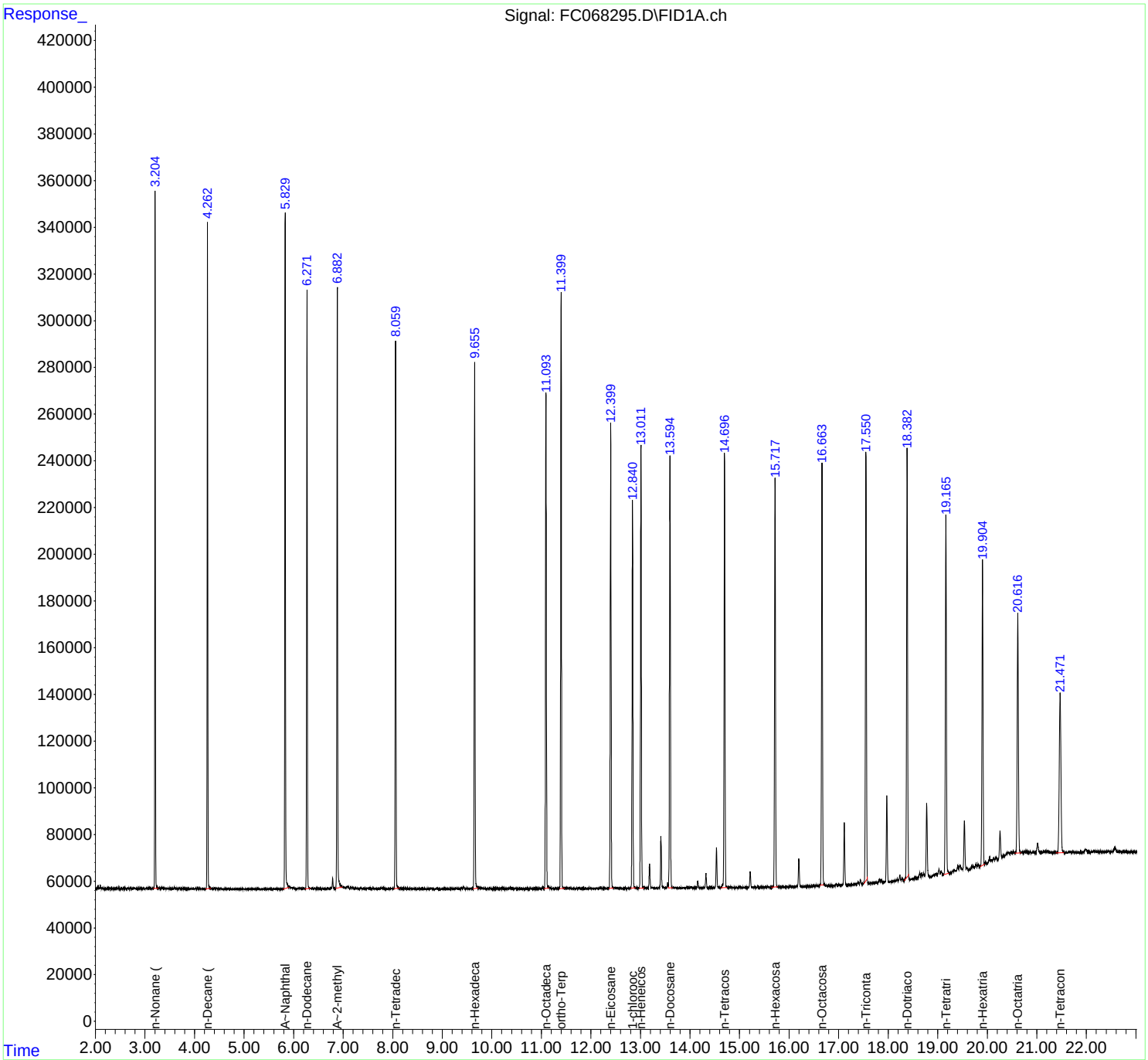
	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.399	2725078	17.759 ug/ml
	Spiked Amount 50.000		Recovery = 35.52%	
12)	S 1-chlorooctadecane (S...	12.840	2007172	17.846 ug/ml
	Spiked Amount 50.000		Recovery = 35.69%	
	Target Compounds			
1)	T n-Nonane (C9)	3.205	2465242	17.524 ug/ml
2)	T n-Decane (C10)	4.262	2552971	18.020 ug/ml
3)	T A~Naphthalene (C11.7)	5.829	2756259	18.011 ug/ml
4)	T n-Dodecane (C12)	6.271	2521932	17.917 ug/ml
5)	T A~2-methylnaphthalene...	6.882	2607906	18.007 ug/ml
6)	T n-Tetradecane (C14)	8.060	2433251	17.846 ug/ml
7)	T n-Hexadecane (C16)	9.656	2457265	17.941 ug/ml
8)	T n-Octadecane (C18)	11.093	2472412	18.079 ug/ml
10)	T n-Eicosane (C20)	12.400	2369822	18.189 ug/ml
11)	T n-Heneicosane (C21)	13.010	2315453	18.111 ug/ml
13)	T n-Docosane (C22)	13.595	2322001	18.424 ug/ml
14)	T n-Tetracosane (C24)	14.696	2358419	18.962 ug/ml
15)	T n-Hexacosane (C26)	15.715	2343431	19.273 ug/ml
16)	T n-Octacosane (C28)	16.664	2390440	20.127 ug/ml
17)	T n-Tricontane (C30)	17.551	2580814	21.441 ug/ml
18)	T n-Dotriacontane (C32)	18.382	2572380	22.163 ug/ml
19)	T n-Tetratriacontane (C34)	19.165	2282153	21.120 ug/ml
20)	T n-Hexatriacontane (C36)	19.904	1885963	19.611 ug/ml
21)	T n-Octatriacontane (C38)	20.616	1701733	18.930 ug/ml
22)	T n-Tetracontane (C40)	21.471	1576791	18.224 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068295.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 11:30
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068295.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 11:30
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.205	3.175	3.265	BB	295921	2465242	89.44%	4.757%
2	4.262	4.225	4.325	BB	286130	2552971	92.62%	4.926%
3	5.829	5.788	5.915	BB	286379	2756259	100.00%	5.318%
4	6.271	6.231	6.331	BB	255722	2521932	91.50%	4.866%
5	6.882	6.848	6.981	BB	256719	2607906	94.62%	5.032%
6	8.060	8.028	8.131	BB	231514	2433251	88.28%	4.695%
7	9.656	9.618	9.721	BB	223071	2457265	89.15%	4.741%
8	11.093	11.051	11.158	BB	211118	2472412	89.70%	4.770%
9	11.399	11.365	11.465	BB	251109	2725078	98.87%	5.258%
10	12.400	12.361	12.458	BB	196136	2369822	85.98%	4.572%
11	12.840	12.791	12.905	BB	166158	2007172	72.82%	3.873%
12	13.010	12.971	13.075	BB	190625	2315453	84.01%	4.468%
13	13.595	13.565	13.658	VB	184555	2322001	84.24%	4.480%
14	14.696	14.625	14.751	BB	182423	2358419	85.57%	4.550%
15	15.715	15.648	15.778	BB	171279	2343431	85.02%	4.522%
16	16.664	16.598	16.725	BB	181811	2413365	87.56%	4.657%
17	17.551	17.505	17.615	BB	184145	2627968	95.35%	5.071%
18	18.382	18.318	18.441	BB	183488	2631267	95.47%	5.077%
19	19.165	19.121	19.231	BB	152493	2282153	82.80%	4.403%
20	19.904	19.851	19.945	BV	129891	1885963	68.42%	3.639%
21	20.616	20.551	20.685	BB	101196	1701733	61.74%	3.283%
22	21.471	21.391	21.548	BB	68272	1576791	57.21%	3.042%
			Sum of corrected areas:			51827853		

Aliphatic EPH 021125.M Wed Feb 26 02:45:36 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FC022525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068302.D**						
Aliphatic C9-C12	8513932.000	60.000	3.105	6.371	141898.867	141035.502	-0.612
Aliphatic C12-C16	5493256.000	40.000	6.372	9.756	137331.400	136654.515	-0.495
Aliphatic C16-C21	7880344.000	60.000	9.757	13.110	131339.067	131630.895	0.222
Aliphatic C21-C28	9861403.000	80.000	13.111	16.764	123267.538	122691.322	-0.470
Aliphatic C28-C40	12588661.000	120.000	16.765	21.571	104905.508	102846.462	-2.002
Aliphatic EPH	44337596.000	360.000	3.105	21.571	123159.989	122175.127	-0.806

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	25 Feb 2025 19:26
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068302.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.105	6.371	8513932.000	60.000	ug/ml
Aliphatic C12-C16	6.372	9.756	5493256.000	40.000	ug/ml
Aliphatic C16-C21	9.757	13.110	7880344.000	60.000	ug/ml
Aliphatic C21-C28	13.111	16.764	9861403.000	80.000	ug/ml
Aliphatic C28-C40	16.765	21.571	12588661.000	120.000	ug/ml
Aliphatic EPH	3.105	21.571	44337596.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068302.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:26:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.398	3018319	19.670 ug/ml
	Spiked Amount 50.000		Recovery = 39.34%	
12)	S 1-chlorooctadecane (S...	12.840	2203488	19.591 ug/ml
	Spiked Amount 50.000		Recovery = 39.18%	
	Target Compounds			
1)	T n-Nonane (C9)	3.205	2821214	20.055 ug/ml
2)	T n-Decane (C10)	4.262	2861843	20.201 ug/ml
3)	T A~Naphthalene (C11.7)	5.829	3090929	20.198 ug/ml
4)	T n-Dodecane (C12)	6.271	2830875	20.112 ug/ml
5)	T A~2-methylnaphthalene...	6.881	2921837	20.175 ug/ml
6)	T n-Tetradecane (C14)	8.060	2737289	20.076 ug/ml
7)	T n-Hexadecane (C16)	9.655	2755967	20.122 ug/ml
8)	T n-Octadecane (C18)	11.094	2739998	20.035 ug/ml
10)	T n-Eicosane (C20)	12.399	2595773	19.924 ug/ml
11)	T n-Heneicosane (C21)	13.010	2544573	19.903 ug/ml
13)	T n-Docosane (C22)	13.594	2508336	19.903 ug/ml
14)	T n-Tetracosane (C24)	14.694	2485129	19.981 ug/ml
15)	T n-Hexacosane (C26)	15.715	2444010	20.100 ug/ml
16)	T n-Octacosane (C28)	16.663	2407040	20.267 ug/ml
17)	T n-Tricontane (C30)	17.550	2507657	20.834 ug/mlm
18)	T n-Dotriacontane (C32)	18.382	2450408	21.112 ug/mlm
19)	T n-Tetratriacontane (C34)	19.163	2175223	20.130 ug/ml
20)	T n-Hexatriacontane (C36)	19.904	1905099	19.810 ug/ml
21)	T n-Octatriacontane (C38)	20.616	1808938	20.122 ug/ml
22)	T n-Tetracontane (C40)	21.469	1744750	20.166 ug/ml

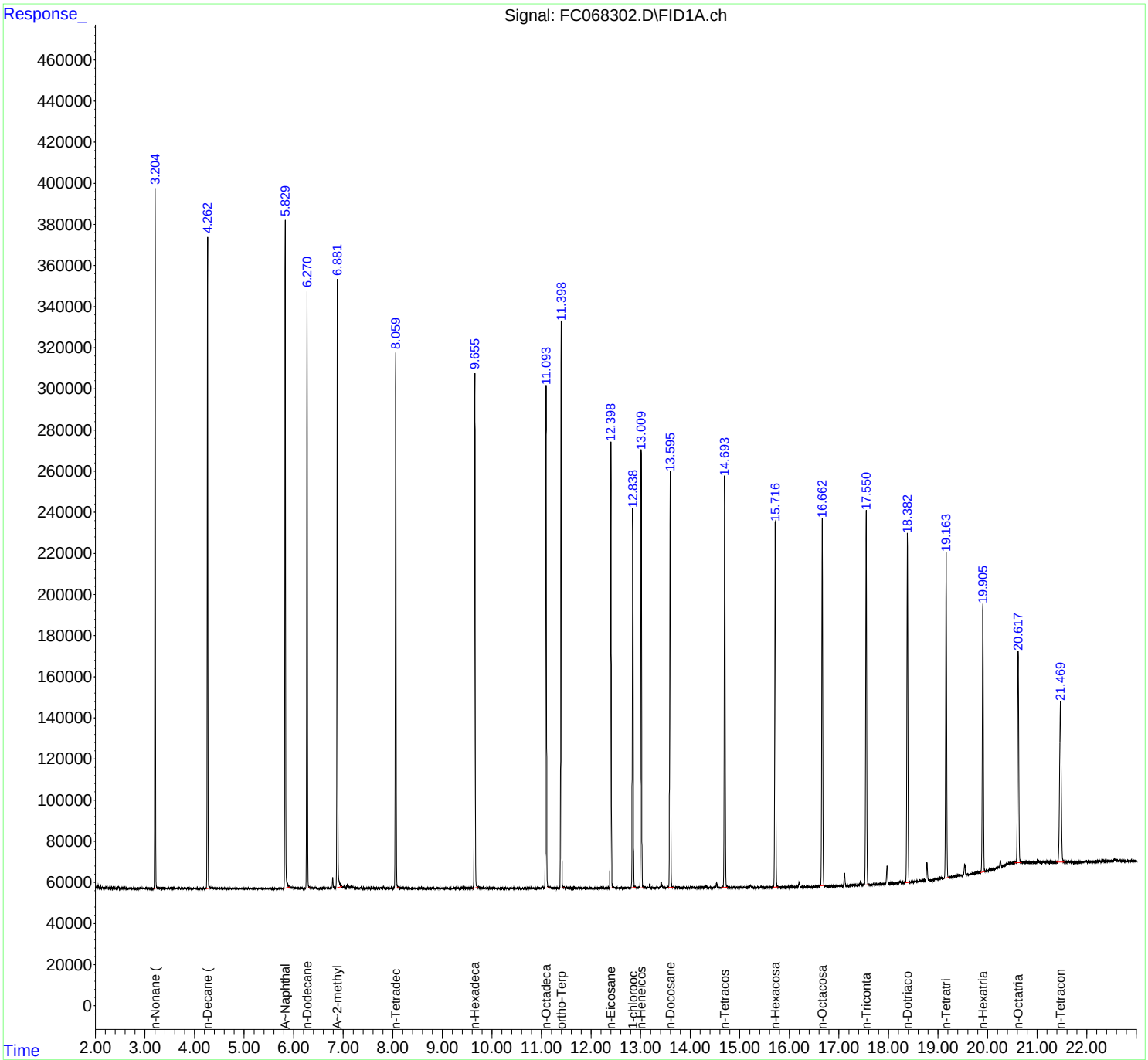
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068302.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:26:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068302.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 19:26
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.205	3.174	3.261	BB	340648	2821214	91.27%	5.077%
2	4.262	4.234	4.324	BB	312727	2861843	92.59%	5.150%
3	5.829	5.791	5.914	BB	322428	3090929	100.00%	5.562%
4	6.271	6.234	6.328	BB	288251	2830875	91.59%	5.094%
5	6.881	6.848	6.971	BB	294279	2921837	94.53%	5.258%
6	8.060	8.028	8.124	BB	261310	2737289	88.56%	4.926%
7	9.655	9.618	9.718	BB	247524	2755967	89.16%	4.959%
8	11.094	11.054	11.158	BB	243371	2739998	88.65%	4.931%
9	11.398	11.358	11.458	BB	275295	3018319	97.65%	5.431%
10	12.399	12.358	12.448	BB	216758	2595773	83.98%	4.671%
11	12.840	12.801	12.898	BB	180757	2203488	71.29%	3.965%
12	13.010	12.968	13.074	BB	214073	2544573	82.32%	4.579%
13	13.594	13.558	13.658	BB	200456	2508336	81.15%	4.514%
14	14.694	14.621	14.754	BB	198612	2485129	80.40%	4.472%
15	15.715	15.674	15.774	BB	177953	2444010	79.07%	4.398%
16	16.663	16.598	16.724	BB	176569	2423928	78.42%	4.362%
17	17.550	17.481	17.608	BB	181387	2506325	81.09%	4.510%
18	18.382	18.324	18.444	BB	168769	2448326	79.21%	4.406%
19	19.163	19.121	19.224	BB	156925	2175223	70.37%	3.914%
20	19.904	19.851	19.948	BB	129533	1905099	61.64%	3.428%
21	20.616	20.551	20.681	BB	102924	1808938	58.52%	3.255%
22	21.469	21.391	21.548	BB	78023	1744750	56.45%	3.140%
			Sum of corrected areas:			55572168		

Aliphatic EPH 021125.M Wed Feb 26 02:48:07 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068321.D**						
Aliphatic C9-C12	8795568.000	60.000	3.104	6.369	146592.800	141035.502	-3.940
Aliphatic C12-C16	5630378.000	40.000	6.370	9.754	140759.450	136654.515	-3.004
Aliphatic C16-C21	8123361.000	60.000	9.755	13.107	135389.350	131630.895	-2.855
Aliphatic C21-C28	10243894.000	80.000	13.108	16.761	128048.675	122691.322	-4.367
Aliphatic C28-C40	13204528.000	120.000	16.762	21.565	110037.733	102846.462	-6.992
Aliphatic EPH	45997729.000	360.000	3.104	21.565	127771.469	122175.127	-4.581

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 10:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068321.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8795568.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5630378.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	8123361.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	10243894.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13204528.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45997729.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068321.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 10:23
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:22:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.396	3120216	20.335 ug/ml
	Spiked Amount 50.000		Recovery = 40.67%	
12)	S 1-chlorooctadecane (S...	12.838	2266768	20.154 ug/ml
	Spiked Amount 50.000		Recovery = 40.31%	
	Target Compounds			
1)	T n-Nonane (C9)	3.204	2921206	20.765 ug/ml
2)	T n-Decane (C10)	4.261	2957953	20.879 ug/ml
3)	T A~Naphthalene (C11.7)	5.828	3188598	20.836 ug/ml
4)	T n-Dodecane (C12)	6.269	2916409	20.719 ug/ml
5)	T A~2-methylnaphthalene...	6.880	2996735	20.692 ug/ml
6)	T n-Tetradecane (C14)	8.058	2804182	20.567 ug/ml
7)	T n-Hexadecane (C16)	9.654	2826196	20.634 ug/ml
8)	T n-Octadecane (C18)	11.092	2816962	20.598 ug/ml
10)	T n-Eicosane (C20)	12.398	2680291	20.572 ug/ml
11)	T n-Heneicosane (C21)	13.007	2626108	20.541 ug/ml
13)	T n-Docosane (C22)	13.593	2593669	20.580 ug/ml
14)	T n-Tetracosane (C24)	14.694	2570552	20.667 ug/ml
15)	T n-Hexacosane (C26)	15.712	2540397	20.893 ug/ml
16)	T n-Octacosane (C28)	16.661	2517151	21.194 ug/ml
17)	T n-Tricontane (C30)	17.547	2631751	21.865 ug/ml
18)	T n-Dotriacontane (C32)	18.379	2592060	22.332 ug/ml
19)	T n-Tetratriacontane (C34)	19.161	2321702	21.486 ug/ml
20)	T n-Hexatriacontane (C36)	19.900	2007468	20.874 ug/ml
21)	T n-Octatriacontane (C38)	20.612	1863761	20.732 ug/ml
22)	T n-Tetracontane (C40)	21.465	1728277	19.975 ug/ml

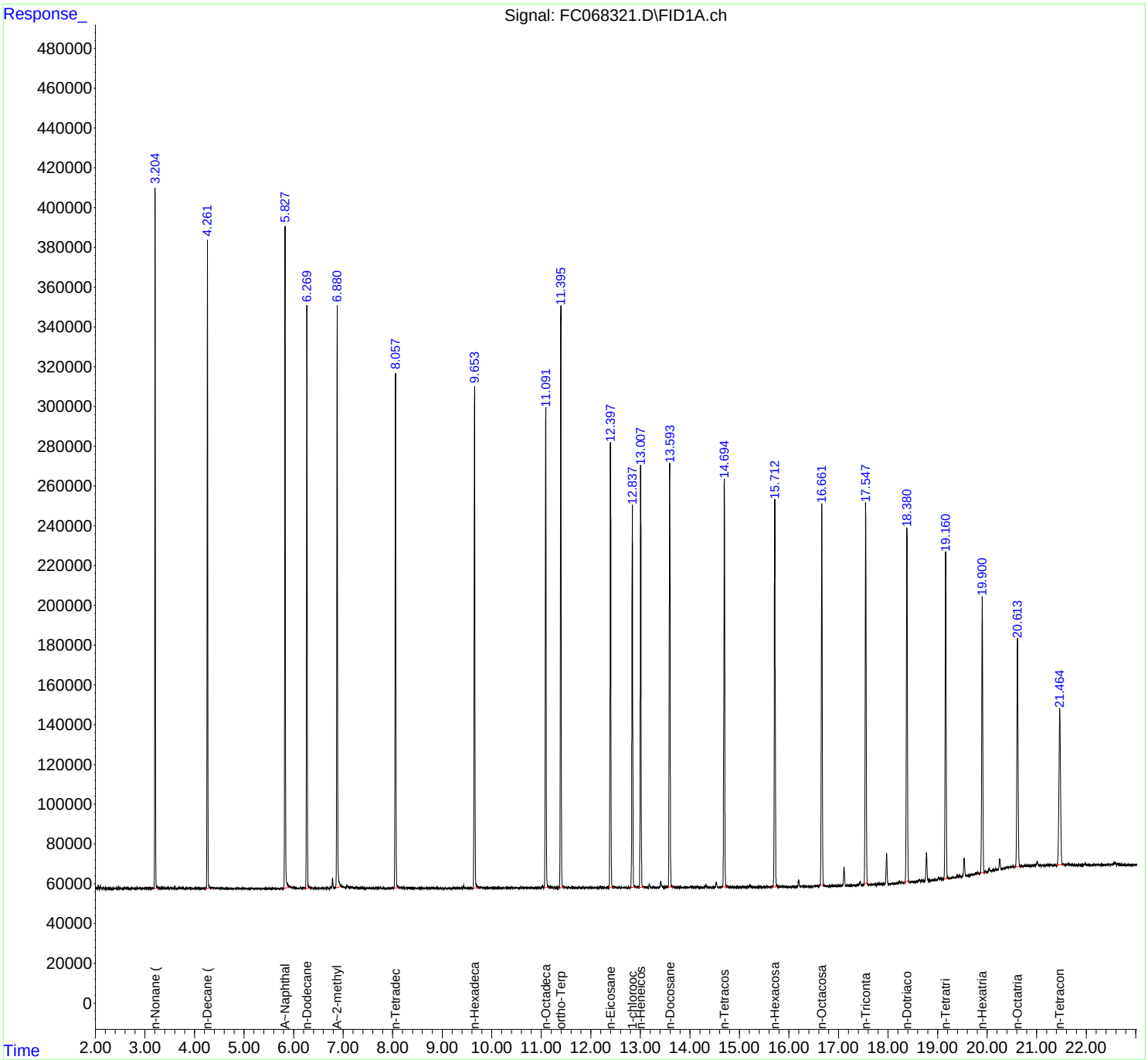
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068321.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 10:23
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:22:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068321.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 10:23
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.204	3.171	3.264	BB	351210	2921206	91.61%	5.074%
2	4.261	4.228	4.321	BB	325775	2957953	92.77%	5.138%
3	5.828	5.798	5.914	BB	332892	3188598	100.00%	5.539%
4	6.269	6.218	6.331	BB	291281	2916409	91.46%	5.066%
5	6.880	6.848	6.971	BB	293726	2996735	93.98%	5.205%
6	8.058	8.028	8.124	BB	257597	2804182	87.94%	4.871%
7	9.654	9.618	9.738	BB	252849	2826196	88.63%	4.909%
8	11.092	11.051	11.164	BB	242049	2816962	88.34%	4.893%
9	11.396	11.351	11.468	BB	291476	3120216	97.86%	5.420%
10	12.398	12.361	12.471	BB	221408	2680291	84.06%	4.656%
11	12.838	12.801	12.911	BB	192148	2266768	71.09%	3.937%
12	13.007	12.964	13.074	BB	211956	2626108	82.36%	4.562%
13	13.593	13.558	13.664	BB	210666	2593669	81.34%	4.505%
14	14.694	14.651	14.768	BB	204322	2570552	80.62%	4.465%
15	15.712	15.644	15.784	BB	193358	2540397	79.67%	4.413%
16	16.661	16.598	16.728	BB	189931	2539276	79.64%	4.411%
17	17.547	17.494	17.614	BB	189694	2663953	83.55%	4.627%
18	18.379	18.328	18.438	BB	177380	2619367	82.15%	4.550%
19	19.161	19.121	19.234	BB	164155	2321702	72.81%	4.033%
20	19.900	19.851	19.969	BBA	139223	2007468	62.96%	3.487%
21	20.612	20.551	20.668	BB	113739	1863761	58.45%	3.237%
22	21.465	21.391	21.551	BB	78566	1728277	54.20%	3.002%
			Sum of corrected areas:			57570045		

Aliphatic EPH 021125.M Sat Mar 01 01:22:27 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068321.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 10:23
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:22:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	T	n-Nonane (C9)	140.677	146.060 E3	-3.8	103	0.00
2	T	n-Decane (C10)	141.671	147.898 E3	-4.4	104	0.00
3	T	A~Naphthalene (C11.7)	153.034	159.430 E3	-4.2	103	0.00
4	T	n-Dodecane (C12)	140.758	145.820 E3	-3.6	103	0.00
5	T	A~2-methylnaphthalene (C12.	144.828	149.837 E3	-3.5	102	0.00
6	T	n-Tetradecane (C14)	136.344	140.209 E3	-2.8	103	0.00
7	T	n-Hexadecane (C16)	136.965	141.310 E3	-3.2	103	0.00
8	T	n-Octadecane (C18)	136.758	140.848 E3	-3.0	103	0.00
9	S	ortho-Terphenyl (SURR)	153.444	156.011 E3	-1.7	102	0.00
10	T	n-Eicosane (C20)	130.287	134.015 E3	-2.9	103	0.00
11	T	n-Heneicosane (C21)	127.847	131.305 E3	-2.7	103	0.00
12	S	1-chlorooctadecane (SURR)	112.474	113.338 E3	-0.8	100	0.00
13	T	n-Docosane (C22)	126.028	129.683 E3	-2.9	103	0.00
14	T	n-Tetracosane (C24)	124.377	128.528 E3	-3.3	103	0.00
15	T	n-Hexacosane (C26)	121.593	127.020 E3	-4.5	104	0.00
16	T	n-Octacosane (C28)	118.767	125.858 E3	-6.0	106	0.00
17	T	n-Tricontane (C30)	120.366	131.588 E3	-9.3	110	0.00
18	T	n-Dotriacontane (C32)	116.067	129.603 E3	-11.7	112	0.00
19	T	n-Tetratriacontane (C34)	108.059	116.085 E3	-7.4	108	0.00
20	T	n-Hexatriacontane (C36)	96.169	100.373 E3	-4.4	104	0.00
21	T	n-Octatriacontane (C38)	89.898	93.188 E3	-3.7	103	0.00
22	T	n-Tetracontane (C40)	86.520	86.414 E3	0.1	100	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068331.D**						
Aliphatic C9-C12	8595776.000	60.000	3.104	6.369	143262.933	141035.502	-1.579
Aliphatic C12-C16	5515542.000	40.000	6.370	9.754	137888.550	136654.515	-0.903
Aliphatic C16-C21	7931958.000	60.000	9.755	13.107	132199.300	131630.895	-0.432
Aliphatic C21-C28	9960510.000	80.000	13.108	16.761	124506.375	122691.322	-1.479
Aliphatic C28-C40	13030922.000	120.000	16.762	21.565	108591.017	102846.462	-5.586
Aliphatic EPH	45034708.000	360.000	3.104	21.565	125096.411	122175.127	-2.391

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 16:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068331.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8595776.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5515542.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	7931958.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	9960510.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13030922.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45034708.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068331.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 16:30
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:24:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.396	3041324	19.820 ug/ml
Spiked Amount	50.000		Recovery =	39.64%
12)	S 1-chlorooctadecane (S...	12.838	2216283	19.705 ug/ml
Spiked Amount	50.000		Recovery =	39.41%
	Target Compounds			
1)	T n-Nonane (C9)	3.204	2855933	20.301 ug/ml
2)	T n-Decane (C10)	4.261	2888976	20.392 ug/ml
3)	T A~Naphthalene (C11.7)	5.827	3101671	20.268 ug/ml
4)	T n-Dodecane (C12)	6.269	2850867	20.254 ug/ml
5)	T A~2-methylnaphthalene...	6.879	2932380	20.247 ug/ml
6)	T n-Tetradecane (C14)	8.057	2744536	20.130 ug/ml
7)	T n-Hexadecane (C16)	9.653	2771006	20.231 ug/ml
8)	T n-Octadecane (C18)	11.091	2755090	20.146 ug/ml
10)	T n-Eicosane (C20)	12.397	2614343	20.066 ug/ml
11)	T n-Heneicosane (C21)	13.008	2562525	20.044 ug/ml
13)	T n-Docosane (C22)	13.592	2525576	20.040 ug/ml
14)	T n-Tetracosane (C24)	14.693	2501354	20.111 ug/ml
15)	T n-Hexacosane (C26)	15.713	2460872	20.239 ug/ml
16)	T n-Octacosane (C28)	16.661	2447431	20.607 ug/ml
17)	T n-Tricontane (C30)	17.548	2580185	21.436 ug/ml
18)	T n-Dotriacontane (C32)	18.378	2550561	21.975 ug/ml
19)	T n-Tetratriacontane (C34)	19.161	2278466	21.085 ug/ml
20)	T n-Hexatriacontane (C36)	19.900	1969700	20.482 ug/ml
21)	T n-Octatriacontane (C38)	20.612	1843490	20.507 ug/ml
22)	T n-Tetracontane (C40)	21.464	1749009	20.215 ug/ml

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

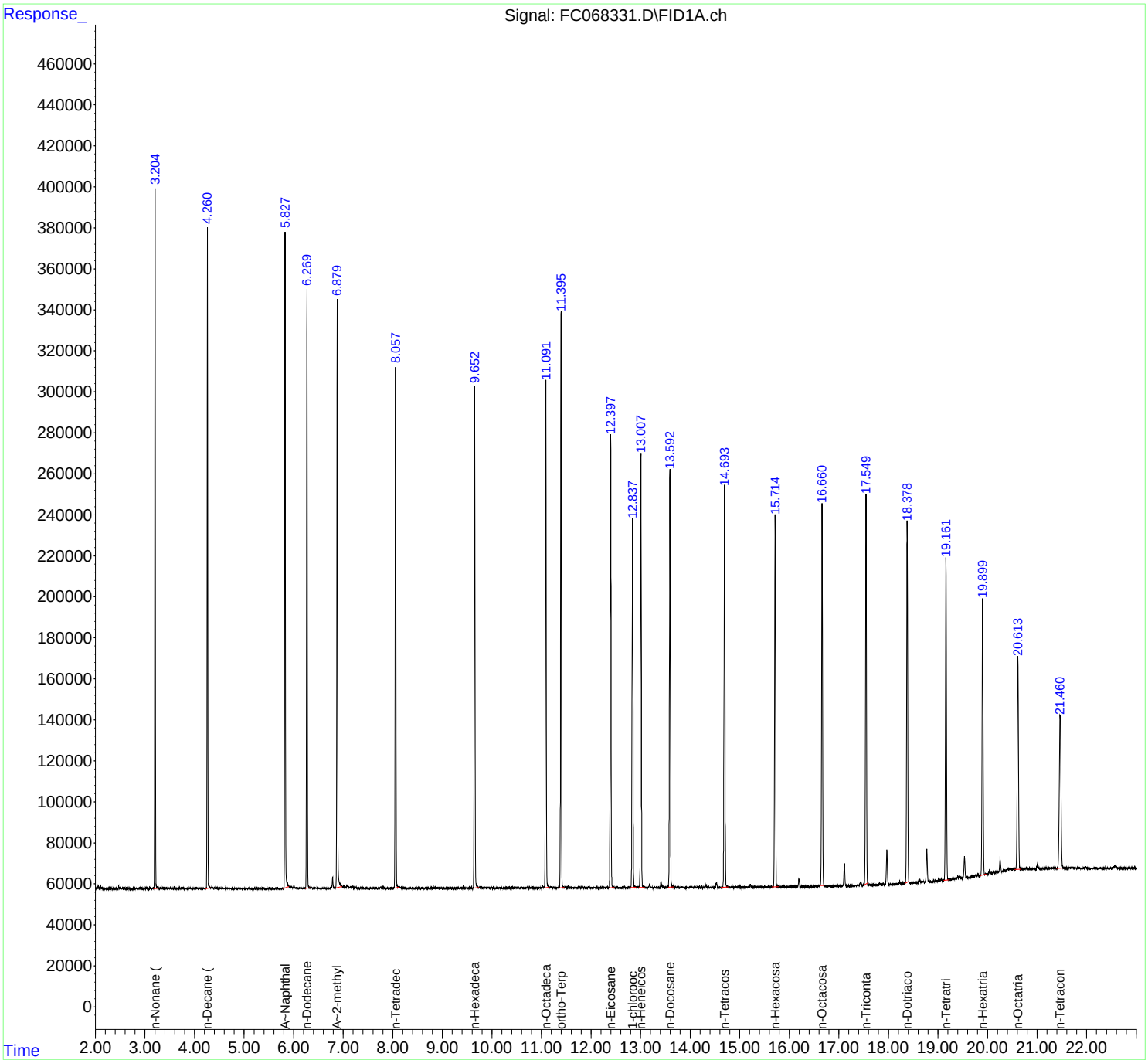
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068331.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 16:30
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:24:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068331.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 16:30
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.204	3.171	3.271	BB	340781	2855933	92.08%	5.069%
2	4.261	4.231	4.325	BB	321681	2888976	93.14%	5.127%
3	5.827	5.781	5.908	BB	319702	3101671	100.00%	5.505%
4	6.269	6.238	6.331	BB	288188	2850867	91.91%	5.060%
5	6.879	6.848	6.978	BB	284524	2932380	94.54%	5.204%
6	8.057	8.028	8.121	BB	254939	2744536	88.49%	4.871%
7	9.653	9.618	9.738	BB	242755	2771006	89.34%	4.918%
8	11.091	11.055	11.158	BB	246136	2755090	88.83%	4.890%
9	11.396	11.351	11.455	BB	281274	3041324	98.05%	5.398%
10	12.397	12.355	12.468	BB	221154	2614343	84.29%	4.640%
11	12.838	12.785	12.908	BB	180054	2216283	71.45%	3.934%
12	13.008	12.971	13.078	BB	210871	2562525	82.62%	4.548%
13	13.592	13.558	13.661	BB	202870	2525576	81.43%	4.482%
14	14.693	14.625	14.765	BB	195873	2501354	80.65%	4.439%
15	15.713	15.651	15.778	BB	183325	2460872	79.34%	4.368%
16	16.661	16.598	16.731	BB	184728	2472708	79.72%	4.389%
17	17.548	17.478	17.615	BB	190067	2607807	84.08%	4.628%
18	18.378	18.198	18.445	BB	175351	2599704	83.82%	4.614%
19	19.161	19.121	19.231	BB	156515	2278466	73.46%	4.044%
20	19.900	19.851	19.970	BBA	134773	1969700	63.50%	3.496%
21	20.612	20.551	20.678	BB	103519	1843490	59.44%	3.272%
22	21.464	21.391	21.548	BB	74225	1749009	56.39%	3.104%
			Sum of corrected areas:			56343617		

Aliphatic EPH 021125.M Sat Mar 01 01:24:21 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068331.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 16:30
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:24:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	T	n-Nonane (C9)	140.677	142.797 E3	-1.5	101	0.00
2	T	n-Decane (C10)	141.671	144.449 E3	-2.0	101	0.00
3	T	A~Naphthalene (C11.7)	153.034	155.084 E3	-1.3	100	0.00
4	T	n-Dodecane (C12)	140.758	142.543 E3	-1.3	101	0.00
5	T	A~2-methylnaphthalene (C12.	144.828	146.619 E3	-1.2	100	0.00
6	T	n-Tetradecane (C14)	136.344	137.227 E3	-0.6	101	0.00
7	T	n-Hexadecane (C16)	136.965	138.550 E3	-1.2	101	0.00
8	T	n-Octadecane (C18)	136.758	137.754 E3	-0.7	101	0.00
9	S	ortho-Terphenyl (SURR)	153.444	152.066 E3	0.9	99	0.00
10	T	n-Eicosane (C20)	130.287	130.717 E3	-0.3	100	0.00
11	T	n-Heneicosane (C21)	127.847	128.126 E3	-0.2	100	0.00
12	S	1-chlorooctadecane (SURR)	112.474	110.814 E3	1.5	98	0.00
13	T	n-Docosane (C22)	126.028	126.279 E3	-0.2	100	0.00
14	T	n-Tetracosane (C24)	124.377	125.068 E3	-0.6	100	0.00
15	T	n-Hexacosane (C26)	121.593	123.044 E3	-1.2	101	0.00
16	T	n-Octacosane (C28)	118.767	122.372 E3	-3.0	103	0.00
17	T	n-Tricontane (C30)	120.366	129.009 E3	-7.2	108	0.00
18	T	n-Dotriacontane (C32)	116.067	127.528 E3	-9.9	110	0.00
19	T	n-Tetratriacontane (C34)	108.059	113.923 E3	-5.4	106	0.00
20	T	n-Hexatriacontane (C36)	96.169	98.485 E3	-2.4	103	0.00
21	T	n-Octatriacontane (C38)	89.898	92.174 E3	-2.5	102	0.00
22	T	n-Tetracontane (C40)	86.520	87.450 E3	-1.1	101	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068341.D**						
Aliphatic C9-C12	8509686.000	60.000	3.104	6.369	141828.100	141035.502	-0.562
Aliphatic C12-C16	5481187.000	40.000	6.370	9.754	137029.675	136654.515	-0.275
Aliphatic C16-C21	7916038.000	60.000	9.755	13.107	131933.967	131630.895	-0.230
Aliphatic C21-C28	9928727.000	80.000	13.108	16.761	124109.088	122691.322	-1.156
Aliphatic C28-C40	13203681.000	120.000	16.762	21.565	110030.675	102846.462	-6.985
Aliphatic EPH	45039319.000	360.000	3.104	21.565	125109.219	122175.127	-2.402

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 23:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068341.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8509686.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5481187.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	7916038.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	9928727.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13203681.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45039319.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068341.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:26:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.395	3019061	19.675 ug/ml
Spiked Amount	50.000		Recovery =	39.35%
12) S	1-chlorooctadecane (S...	12.838	2213113	19.677 ug/ml
Spiked Amount	50.000		Recovery =	39.35%
	Target Compounds			
1) T	n-Nonane (C9)	3.204	2821805	20.059 ug/ml
2) T	n-Decane (C10)	4.261	2860924	20.194 ug/ml
3) T	A~Naphthalene (C11.7)	5.827	3080505	20.130 ug/ml
4) T	n-Dodecane (C12)	6.268	2826957	20.084 ug/ml
5) T	A~2-methylnaphthalene...	6.879	2905424	20.061 ug/ml
6) T	n-Tetradecane (C14)	8.057	2729025	20.016 ug/ml
7) T	n-Hexadecane (C16)	9.652	2752162	20.094 ug/ml
8) T	n-Octadecane (C18)	11.091	2750082	20.109 ug/ml
10) T	n-Eicosane (C20)	12.397	2613618	20.061 ug/ml
11) T	n-Heneicosane (C21)	13.008	2552338	19.964 ug/ml
13) T	n-Docosane (C22)	13.592	2514482	19.952 ug/ml
14) T	n-Tetracosane (C24)	14.694	2489195	20.013 ug/ml
15) T	n-Hexacosane (C26)	15.712	2451970	20.165 ug/ml
16) T	n-Octacosane (C28)	16.661	2449009	20.620 ug/ml
17) T	n-Tricontane (C30)	17.548	2590876	21.525 ug/ml
18) T	n-Dotriacontane (C32)	18.379	2561161	22.066 ug/ml
19) T	n-Tetratriacontane (C34)	19.162	2275964	21.062 ug/ml
20) T	n-Hexatriacontane (C36)	19.901	1942697	20.201 ug/ml
21) T	n-Octatriacontane (C38)	20.612	1869920	20.801 ug/ml
22) T	n-Tetracontane (C40)	21.464	1933632	22.349 ug/ml

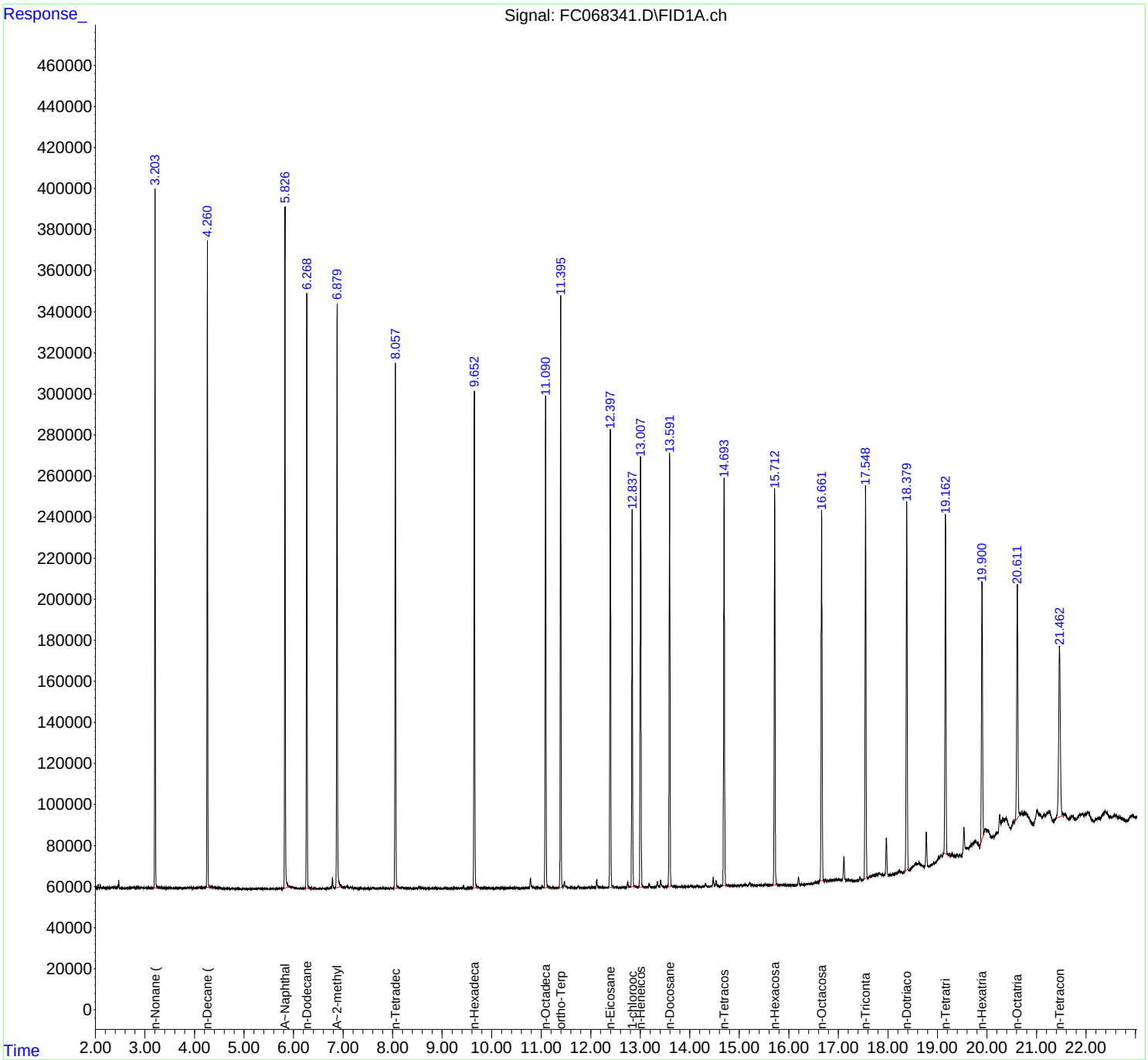
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068341.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:26:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068341.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:50
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.204	3.161	3.261	BB	338058	2821805	91.60%	5.016%
2	4.261	4.225	4.318	BB	314575	2860924	92.87%	5.085%
3	5.827	5.798	5.908	BB	328122	3080505	100.00%	5.476%
4	6.268	6.235	6.331	BB	288254	2826957	91.77%	5.025%
5	6.879	6.848	6.968	BB	283364	2905424	94.32%	5.165%
6	8.057	8.028	8.125	BB	256157	2729025	88.59%	4.851%
7	9.652	9.618	9.718	BB	241605	2752162	89.34%	4.892%
8	11.091	11.051	11.155	BB	240300	2750082	89.27%	4.888%
9	11.395	11.338	11.448	BV	285697	3019061	98.01%	5.367%
10	12.397	12.358	12.461	BB	223409	2613618	84.84%	4.646%
11	12.838	12.801	12.885	BB	183559	2213113	71.84%	3.934%
12	13.008	12.971	13.071	BB	210182	2552338	82.85%	4.537%
13	13.592	13.558	13.645	BB	211199	2514482	81.63%	4.470%
14	14.694	14.655	14.755	BB	196198	2489195	80.80%	4.425%
15	15.712	15.665	15.778	BB	190792	2451970	79.60%	4.358%
16	16.661	16.598	16.725	BB	181305	2473080	80.28%	4.396%
17	17.548	17.468	17.591	BB	189878	2604736	84.56%	4.630%
18	18.379	18.298	18.428	BV	178580	2576732	83.65%	4.580%
19	19.162	19.121	19.228	BB	164314	2275964	73.88%	4.046%
20	19.901	19.851	19.933	BV	124554	1942697	63.06%	3.453%
21	20.612	20.551	20.662	BV	113774	1869920	60.70%	3.324%
22	21.464	21.391	21.548	BV	82303	1933632	62.77%	3.437%
			Sum of corrected areas:			56257421		

Aliphatic EPH 021125.M Sat Mar 01 01:25:09 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068341.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:26:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	T	n-Nonane (C9)	140.677	141.090 E3	-0.3	100	0.00
2	T	n-Decane (C10)	141.671	143.046 E3	-1.0	100	0.00
3	T	A~Naphthalene (C11.7)	153.034	154.025 E3	-0.6	100	0.00
4	T	n-Dodecane (C12)	140.758	141.348 E3	-0.4	100	0.00
5	T	A~2-methylnaphthalene (C12.	144.828	145.271 E3	-0.3	99	0.00
6	T	n-Tetradecane (C14)	136.344	136.451 E3	-0.1	100	0.00
7	T	n-Hexadecane (C16)	136.965	137.608 E3	-0.5	100	0.00
8	T	n-Octadecane (C18)	136.758	137.504 E3	-0.5	100	0.00
9	S	ortho-Terphenyl (SURR)	153.444	150.953 E3	1.6	98	0.00
10	T	n-Eicosane (C20)	130.287	130.681 E3	-0.3	100	0.00
11	T	n-Heneicosane (C21)	127.847	127.617 E3	0.2	100	0.00
12	S	1-chlorooctadecane (SURR)	112.474	110.656 E3	1.6	98	0.00
13	T	n-Docosane (C22)	126.028	125.724 E3	0.2	100	0.00
14	T	n-Tetracosane (C24)	124.377	124.460 E3	-0.1	100	0.00
15	T	n-Hexacosane (C26)	121.593	122.598 E3	-0.8	101	0.00
16	T	n-Octacosane (C28)	118.767	122.450 E3	-3.1	103	0.00
17	T	n-Tricontane (C30)	120.366	129.544 E3	-7.6	108	0.00
18	T	n-Dotriacontane (C32)	116.067	128.058 E3	-10.3	111	0.00
19	T	n-Tetratriacontane (C34)	108.059	113.798 E3	-5.3	106	0.00
20	T	n-Hexatriacontane (C36)	96.169	97.135 E3	-1.0	101	0.00
21	T	n-Octatriacontane (C38)	89.898	93.496 E3	-4.0	104	0.00
22	T	n-Tetracontane (C40)	86.520	96.682 E3	-11.7	112	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD022525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049100.D**						
Aromatic C16-C21	12146265.000	80.000	8.397	12.660	151828.313	153359.309	0.998
Aromatic C21-C36	26130774.000	180.000	12.661	18.070	145170.967	143114.753	-1.437
Aromatic EPH	54757193.000	360.000	4.075	18.070	152103.314	150128.823	-1.315
Aromatic C10-C12	6565172.000	40.000	4.075	5.793	164129.300	159020.606	-3.213
Aromatic C12-C16	9914982.000	60.000	5.794	8.396	165249.700	160935.866	-2.680

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	25 Feb 2025 11:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049100.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	6565172.000	40.000	ug/ml
Aromatic C12-C16	5.794	8.396	9914982.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.660	12146265.000	80.000	ug/ml
Aromatic C21-C36	12.661	18.070	26130774.000	180.000	ug/ml
Aromatic EPH	4.075	18.070	54757193.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049100.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 11:30
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Feb 26 01:32:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.352	2962018	20.698 ug/ml
Spiked Amount	50.000		Recovery =	41.40%
6) S	2-Flurobiphenyl (SURR)	8.203	1806255	20.546 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.09%
11) S	ortho-Terphenyl (SURR)	11.234	3383182	20.913 ug/ml
Spiked Amount	50.000		Recovery =	41.83%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.175	3247943	20.395 ug/ml
2) T	Naphthalene (C11.7)	5.693	3317229	20.891 ug/ml
3) T	2-Methylnaphthalene (...	6.740	3249992	20.874 ug/ml
5) T	Acenaphthylene (C15.06)	8.003	3268331	20.100 ug/ml
7) T	Acenaphthene (C15.5)	8.296	3396659	20.647 ug/ml
8) T	Flouorene (C16.55)	9.077	3246446	20.593 ug/ml
9) T	Phenanthrene (C19.36)	10.464	3129144	20.764 ug/ml
10) T	Anthracene (C19.43)	10.542	2624648	17.379 ug/ml
12) T	Fluoranthene (C21.85)	12.267	3250057	21.061 ug/ml
13) T	Pyrene (C20.8)	12.560	3146027	20.421 ug/ml
14) T	Benzo[a]anthracene (C...	14.431	2681452	20.408 ug/ml
15) T	Chrysene (C27.41)	14.472	3061387	18.934 ug/ml
16) T	benzo[b]fluoranthene ...	15.977	2863329	20.810 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.009	3348935	21.204 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.357	2640248	19.451 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.723	2023526	18.517 ug/ml
20) T	Dibenz[a,h]anthracene...	17.763	3432247	22.124 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.970	2829593	19.521 ug/ml

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

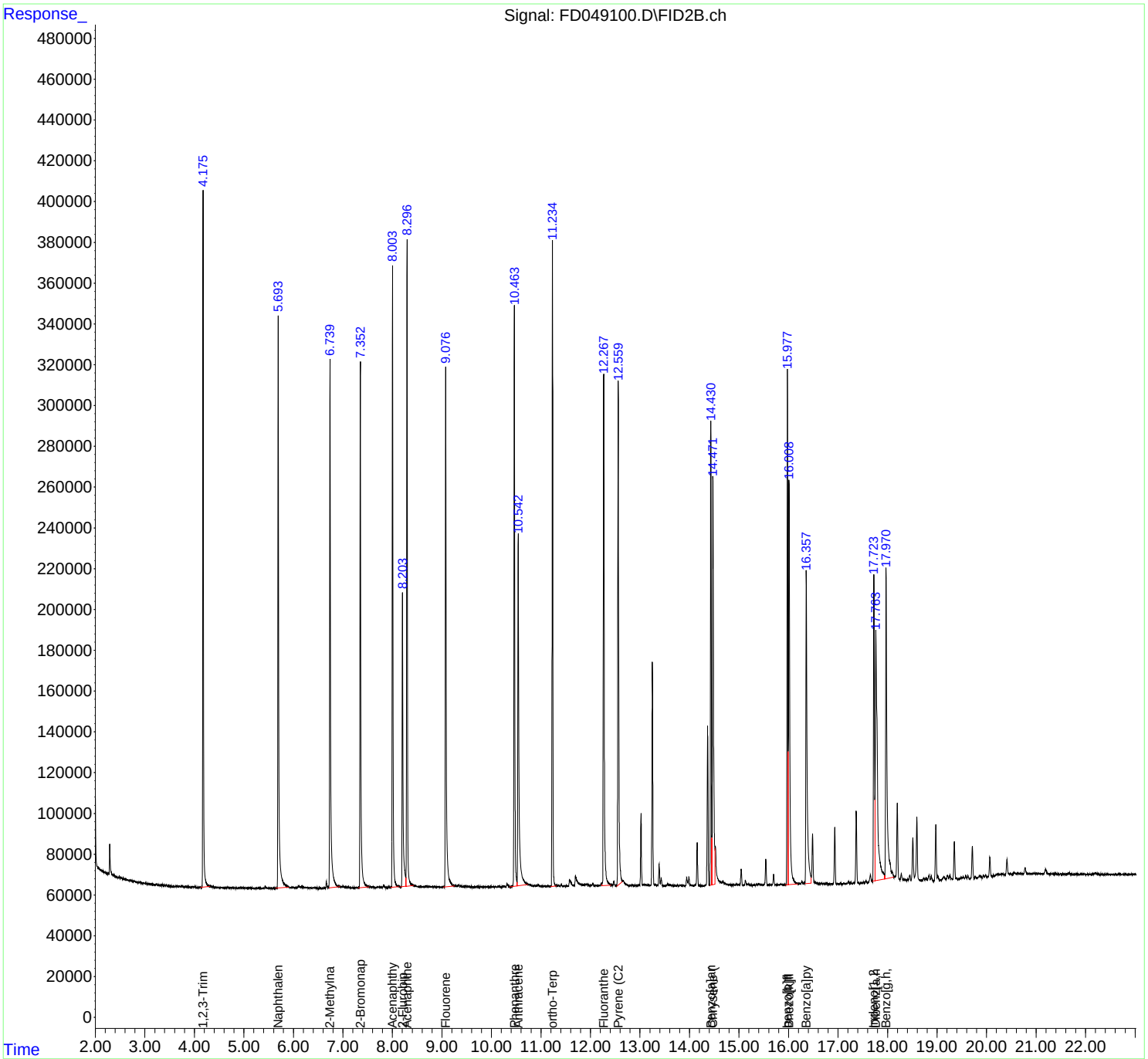
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049100.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 11:30
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Feb 26 01:32:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049100.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 11:30
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.175	4.120	4.312	BB	341193	3247943	94.63%	5.163%
2	5.693	5.644	5.907	BB	280521	3317229	96.65%	5.273%
3	6.740	6.715	6.935	BB	259315	3249992	94.69%	5.166%
4	7.352	7.304	7.522	BB	257730	2962018	86.30%	4.708%
5	8.003	7.960	8.132	BB	305113	3268331	95.22%	5.195%
6	8.203	8.157	8.272	BV	144186	1806255	52.63%	2.871%
7	8.296	8.272	8.427	VB	318033	3396659	98.96%	5.399%
8	9.077	9.024	9.262	BB	254271	3246446	94.59%	5.161%
9	10.464	10.369	10.520	BV	284683	3129144	91.17%	4.974%
10	10.542	10.520	10.739	VV	172739	2624648	76.47%	4.172%
11	11.234	11.192	11.317	BB	316865	3383182	98.57%	5.378%
12	12.267	12.228	12.420	VB	250821	3250057	94.69%	5.166%
13	12.560	12.532	12.644	BV	247132	3146027	91.66%	5.001%
14	14.431	14.405	14.452	PV	227615	2681452	78.13%	4.262%
15	14.472	14.452	14.516	VV	199949	3061387	89.19%	4.866%
16	15.977	15.930	15.993	BV	252310	2863329	83.42%	4.552%
17	16.009	15.993	16.187	VB	198305	3348935	97.57%	5.323%
18	16.357	16.329	16.458	PV	153340	2640248	76.92%	4.197%
19	17.723	17.690	17.745	BV	150284	2023526	58.96%	3.217%
20	17.763	17.745	17.942	VV	122725	3432247	100.00%	5.456%
21	17.970	17.942	18.132	VV	152103	2829593	82.44%	4.498%
			Sum of corrected areas:			62908649		

Aromatic EPH 021125.M Wed Feb 26 01:53:01 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD022525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049107.D**						
Aromatic C16-C21	12153015.000	80.000	8.397	12.660	151912.688	153359.309	0.943
Aromatic C21-C36	25896026.000	180.000	12.661	18.070	143866.811	143114.753	-0.525
Aromatic EPH	54443876.000	360.000	4.075	18.070	151232.989	150128.823	-0.735
Aromatic C10-C12	6541813.000	40.000	4.075	5.793	163545.325	159020.606	-2.845
Aromatic C12-C16	9853022.000	60.000	5.794	8.396	164217.033	160935.866	-2.039

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	25 Feb 2025 19:26
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049107.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	6541813.000	40.000	ug/ml
Aromatic C12-C16	5.794	8.396	9853022.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.660	12153015.000	80.000	ug/ml
Aromatic C21-C36	12.661	18.070	25896026.000	180.000	ug/ml
Aromatic EPH	4.075	18.070	54443876.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049107.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Feb 26 01:35:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.352	2935371	20.511 ug/ml
Spiked Amount	50.000		Recovery =	41.02%
6) S	2-Flurobiphenyl (SURR)	8.204	1811284	20.603 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.21%
11) S	ortho-Terphenyl (SURR)	11.234	3352509	20.723 ug/ml
Spiked Amount	50.000		Recovery =	41.45%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	3249287	20.403 ug/ml
2) T	Naphthalene (C11.7)	5.694	3292526	20.735 ug/ml
3) T	2-Methylnaphthalene (...	6.741	3215948	20.656 ug/ml
5) T	Acenaphthylene (C15.06)	8.003	3259752	20.047 ug/ml
7) T	Acenaphthene (C15.5)	8.296	3377322	20.530 ug/ml
8) T	Flouorene (C16.55)	9.077	3257010	20.660 ug/ml
9) T	Phenanthrene (C19.36)	10.464	3134160	20.797 ug/ml
10) T	Anthracene (C19.43)	10.542	2653727	17.571 ug/ml
12) T	Fluoranthene (C21.85)	12.268	3232338	20.946 ug/ml
13) T	Pyrene (C20.8)	12.560	3108118	20.175 ug/ml
14) T	Benzo[a]anthracene (C...	14.430	2715101	20.664 ug/ml
15) T	Chrysene (C27.41)	14.471	3074258	19.014 ug/ml
16) T	benzo[b]fluoranthene ...	15.977	2873581	20.884 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.009	3358238	21.262 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.357	2637215	19.429 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.723	2032328	18.598 ug/ml
20) T	Dibenz[a,h]anthracene...	17.762	3362283	21.673 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.970	2610684	18.011 ug/ml

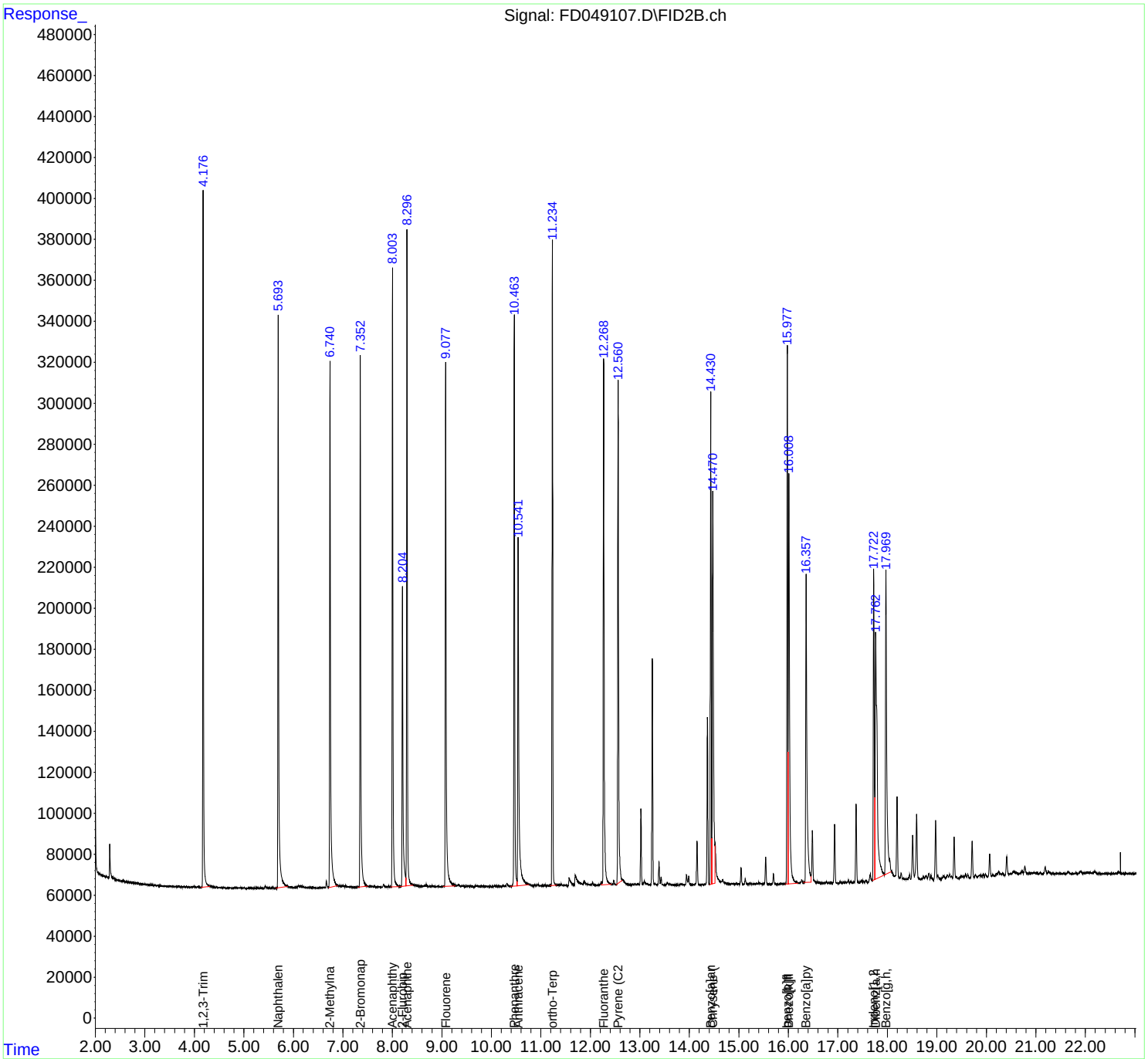
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049107.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Feb 26 01:35:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049107.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 19:26
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.130	4.315	BB	339713	3249287	96.21%	5.195%
2	5.694	5.645	5.888	BB	279482	3292526	97.49%	5.264%
3	6.741	6.715	6.888	BV	256874	3215948	95.22%	5.142%
4	7.352	7.303	7.498	BB	259057	2935371	86.91%	4.693%
5	8.003	7.960	8.142	BB	301624	3259752	96.52%	5.212%
6	8.204	8.153	8.273	BV	146052	1811284	53.63%	2.896%
7	8.296	8.273	8.423	VB	320182	3377322	100.00%	5.400%
8	9.077	9.028	9.277	BB	255693	3257010	96.44%	5.208%
9	10.464	10.378	10.520	BV	278624	3134160	92.80%	5.011%
10	10.542	10.520	10.763	VB	169793	2653727	78.57%	4.243%
11	11.234	11.185	11.317	BB	314605	3352509	99.27%	5.360%
12	12.268	12.228	12.432	VB	256922	3232338	95.71%	5.168%
13	12.560	12.517	12.645	BV	245025	3108118	92.03%	4.970%
14	14.430	14.402	14.451	PV	240133	2715101	80.39%	4.341%
15	14.471	14.451	14.517	VV	190672	3074258	91.03%	4.915%
16	15.977	15.930	15.992	BV	262540	2873581	85.08%	4.595%
17	16.009	15.992	16.197	VB	199772	3358238	99.43%	5.369%
18	16.357	16.298	16.458	BV	150256	2637215	78.09%	4.217%
19	17.723	17.690	17.744	BV	151068	2032328	60.18%	3.249%
20	17.762	17.744	17.943	VV	120447	3362283	99.55%	5.376%
21	17.970	17.943	18.082	VV	147433	2610684	77.30%	4.174%
			Sum of corrected areas:			62543039		

Aromatic EPH 021125.M Wed Feb 26 01:59:54 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049129.D**						
Aromatic C10-C12	6160252.000	40.000	4.076	5.794	154006.300	159020.606	3.153
Aromatic C12-C16	9402232.000	60.000	5.795	8.396	156703.867	160935.866	2.630
Aromatic C16-C21	11641914.000	80.000	8.397	12.661	145523.925	153359.309	5.109
Aromatic C21-C36	23657575.000	180.000	12.662	18.073	131430.972	143114.753	8.164
Aromatic EPH	50861973.000	360.000	4.076	18.073	141283.258	150128.823	5.892

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 10:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049129.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6160252.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	9402232.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	11641914.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	23657575.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	50861973.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049129.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 10:23
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025

Integration File: autoint1.e
Quant Time: Mar 01 02:16:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.353	2766220	19.329 ug/ml
Spiked Amount	50.000		Recovery =	38.66%
6) S	2-Flurobiphenyl (SURR)	8.205	1579167	17.963 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	35.93%
11) S	ortho-Terphenyl (SURR)	11.233	3098268	19.152 ug/ml
Spiked Amount	50.000		Recovery =	38.30%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	3087214	19.386 ug/ml
2) T	Naphthalene (C11.7)	5.694	3073038	19.353 ug/ml
3) T	2-Methylnaphthalene (...	6.740	3030795	19.466 ug/ml
5) T	Acenaphthylene (C15.06)	8.004	3126284	19.226 ug/ml
7) T	Acenaphthene (C15.5)	8.296	3245153	19.726 ug/ml
8) T	Flouorene (C16.55)	9.078	3004154	19.056 ug/ml
9) T	Phenanthrene (C19.36)	10.464	2861190	18.986 ug/ml
10) T	Anthracene (C19.43)	10.542	2864021	18.963 ug/ml
12) T	Fluoranthene (C21.85)	12.269	2912936	18.877 ug/ml
13) T	Pyrene (C20.8)	12.561	2912549	18.905 ug/ml
14) T	Benzo[a]anthracene (C...	14.431	2400791	18.272 ug/ml
15) T	Chrysene (C27.41)	14.472	3110275	19.236 ug/ml
16) T	benzo[b]fluoranthene ...	15.978	2577213	18.731 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.010	3069763	19.436 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.362	2597623	19.137 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.729	1756887	16.077 ug/mlm
20) T	Dibenz[a,h]anthracene...	17.776	2586904	16.675 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.973	2645183	18.249 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049129.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 10:23
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

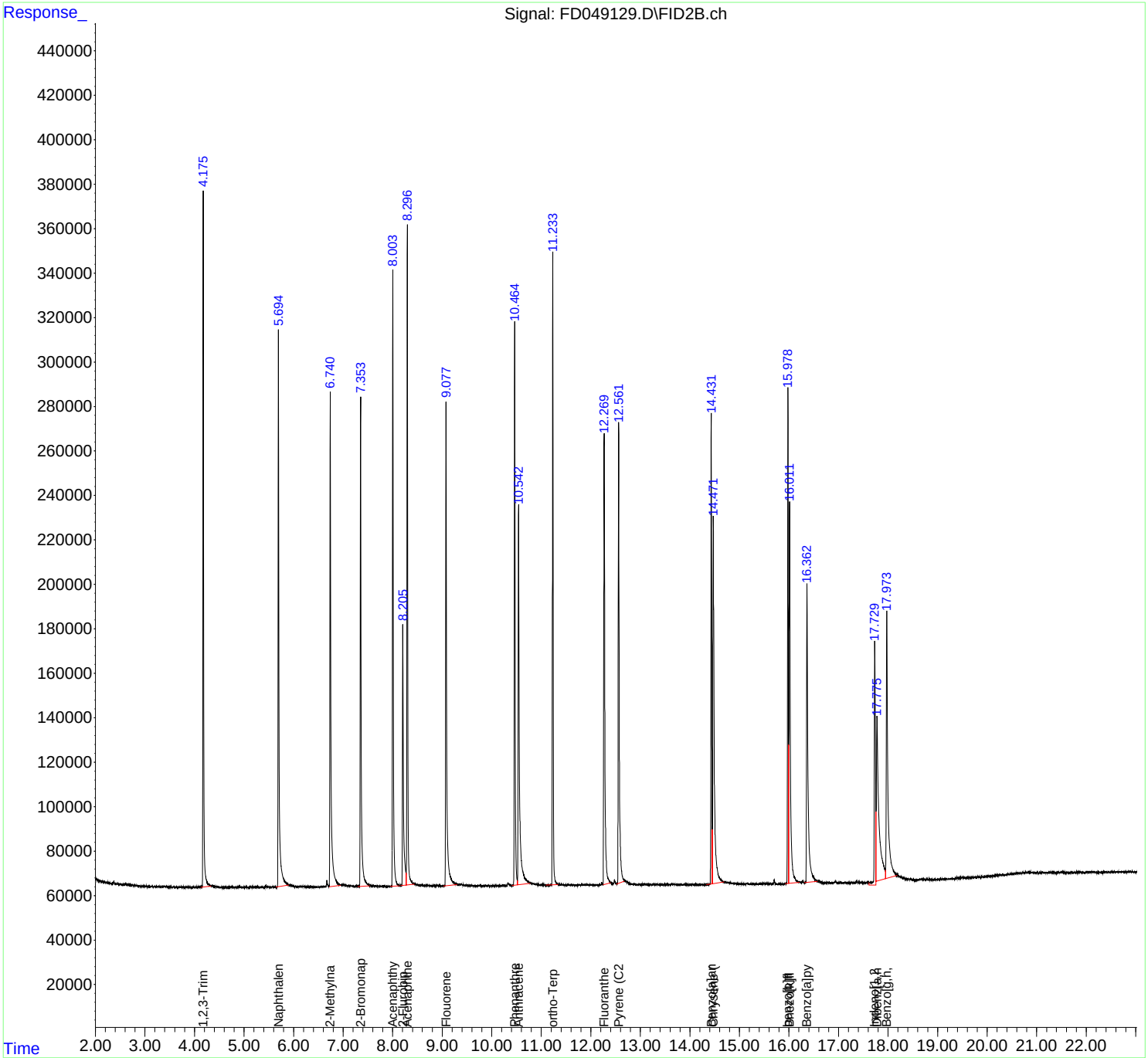
Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025

Integration File: autoint1.e
Quant Time: Mar 01 02:16:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD02282
Data File : FD049129.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 10:23
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.130	4.334	BB	312663	3087214	95.13%	5.304%
2	5.694	5.642	5.899	BB	250529	3073038	94.70%	5.280%
3	6.740	6.714	6.949	PB	222312	3030795	93.39%	5.208%
4	7.353	7.300	7.542	BB	219818	2766220	85.24%	4.753%
5	8.004	7.960	8.144	BB	277198	3126284	96.34%	5.372%
6	8.205	8.160	8.273	BV	117209	1579167	48.66%	2.713%
7	8.296	8.273	8.442	VB	296676	3245153	100.00%	5.576%
8	9.078	9.020	9.302	BB	216484	3004154	92.57%	5.162%
9	10.464	10.402	10.520	BV	254175	2861190	88.17%	4.916%
10	10.542	10.520	10.780	VB	170899	2864021	88.26%	4.921%
11	11.233	11.097	11.340	BB	284580	3098268	95.47%	5.323%
12	12.269	12.245	12.395	PV	202620	2912936	89.76%	5.005%
13	12.561	12.520	12.679	BV	206714	2912549	89.75%	5.004%
14	14.431	14.337	14.452	BV	210851	2400791	73.98%	4.125%
15	14.472	14.452	14.689	VB	164479	3110275	95.84%	5.344%
16	15.978	15.930	15.994	BV	222862	2577213	79.42%	4.428%
17	16.010	15.994	16.212	VB	171182	3069763	94.60%	5.275%
18	16.362	16.305	16.574	BB	134262	2597623	80.05%	4.463%
19	17.730	17.690	17.757	BV	107493	1651182	50.88%	2.837%
20	17.776	17.757	17.947	VV	74288	2586904	79.72%	4.445%
21	17.973	17.947	18.180	VV	120236	2645183	81.51%	4.545%
			Sum of corrected areas:			58199919		

Aromatic EPH 021125.M Sat Mar 01 03:51:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049129.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 10:23
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 01 02:16:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(Min)
1	T	1,2,3-Trimethylbenzene (C10	159.254	154.361	E3	3.1	99	0.00
2	T	Naphthalene (C11.7)	158.788	153.652	E3	3.2	98	0.00
3	T	2-Methylnaphthalene (C12.89	155.693	151.540	E3	2.7	98	0.00
4	S	2-Bromonaphthalene (SURR)	143.109	138.311	E3	3.4	98	0.00
5	T	Acenaphthylene (C15.06)	162.606	156.314	E3	3.9	98	0.00
6	S	2-Flurobiphenyl (SURR)	87.912	78.958	E3	10.2	89	0.00
7	T	Acenaphthene (C15.5)	164.509	162.258	E3	1.4	101	0.00
8	T	Flouorene (C16.55)	157.649	150.208	E3	4.7	96	0.00
9	T	Phenanthrene (C19.36)	150.701	143.059	E3	5.1	96	0.00
10	T	Anthracene (C19.43)	151.028	143.201	E3	5.2	95	0.00
11	S	ortho-Terphenyl (SURR)	161.774	154.913	E3	4.2	97	0.00
12	T	Fluoranthene (C21.85)	154.315	145.647	E3	5.6	95	0.00
13	T	Pyrene (C20.8)	154.058	145.627	E3	5.5	97	0.00
14	T	Benzo[a]anthracene (C26.37)	131.390	120.040	E3	8.6	89	0.00
15	T	Chrysene (C27.41)	161.687	155.514	E3	3.8	100	0.00
16	T	benzo[b]fluoranthene (C30.4	137.594	128.861	E3	6.3	92	0.00
17	T	Bnezo[k]fluoranthene (C30.1	157.942	153.488	E3	2.8	101	0.00
18	T	Benzo[a]pyrene (C31.34)	135.737	129.881	E3	4.3	97	0.00
19	T	Indeno[1,2,3-cd]pyrene (C35	109.277	87.844	E3	19.6	82	0.01
20	T	Dibenz[a,h]anthracene (C30.	155.140	129.345	E3	16.6	83	0.02
21	T	Benzo[g,h,i]perylene (C34.0	144.951	132.259	E3	8.8	93	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049139.D**						
Aromatic C10-C12	6813477.000	40.000	4.076	5.794	170336.925	159020.606	-7.116
Aromatic C12-C16	10472510.000	60.000	5.795	8.396	174541.833	160935.866	-8.454
Aromatic C16-C21	13024891.000	80.000	8.397	12.661	162811.138	153359.309	-6.163
Aromatic C21-C36	26617558.000	180.000	12.662	18.073	147875.322	143114.753	-3.326
Aromatic EPH	56928436.000	360.000	4.076	18.073	158134.544	150128.823	-5.333

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 16:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049139.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6813477.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	10472510.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	13024891.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	26617558.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	56928436.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049139.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 16:30
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 01 02:19:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.352	3062089	21.397 ug/ml
Spiked Amount	50.000		Recovery =	42.79%
6) S	2-Flurobiphenyl (SURR)	8.204	1810963	20.600 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.20%
11) S	ortho-Terphenyl (SURR)	11.233	3471724	21.460 ug/ml
Spiked Amount	50.000		Recovery =	42.92%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.175	3399763	21.348 ug/ml
2) T	Naphthalene (C11.7)	5.693	3413714	21.499 ug/ml
3) T	2-Methylnaphthalene (...	6.740	3391580	21.784 ug/ml
5) T	Acenaphthylene (C15.06)	8.003	3462957	21.297 ug/ml
7) T	Acenaphthene (C15.5)	8.296	3617973	21.993 ug/ml
8) T	Flouorene (C16.55)	9.077	3337715	21.172 ug/ml
9) T	Phenanthrene (C19.36)	10.464	3215091	21.334 ug/ml
10) T	Anthracene (C19.43)	10.542	3207397	21.237 ug/ml
12) T	Fluoranthene (C21.85)	12.269	3302650	21.402 ug/ml
13) T	Pyrene (C20.8)	12.561	3264688	21.191 ug/ml
14) T	Benzo[a]anthracene (C...	14.432	2802942	21.333 ug/ml
15) T	Chrysene (C27.41)	14.473	3496552	21.625 ug/ml
16) T	benzo[b]fluoranthene ...	15.978	2945002	21.404 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.010	3328113	21.072 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.360	2719805	20.037 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.728	1974445	18.068 ug/ml
20) T	Dibenz[a,h]anthracene...	17.769	3112363	20.062 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.973	2935686	20.253 ug/ml

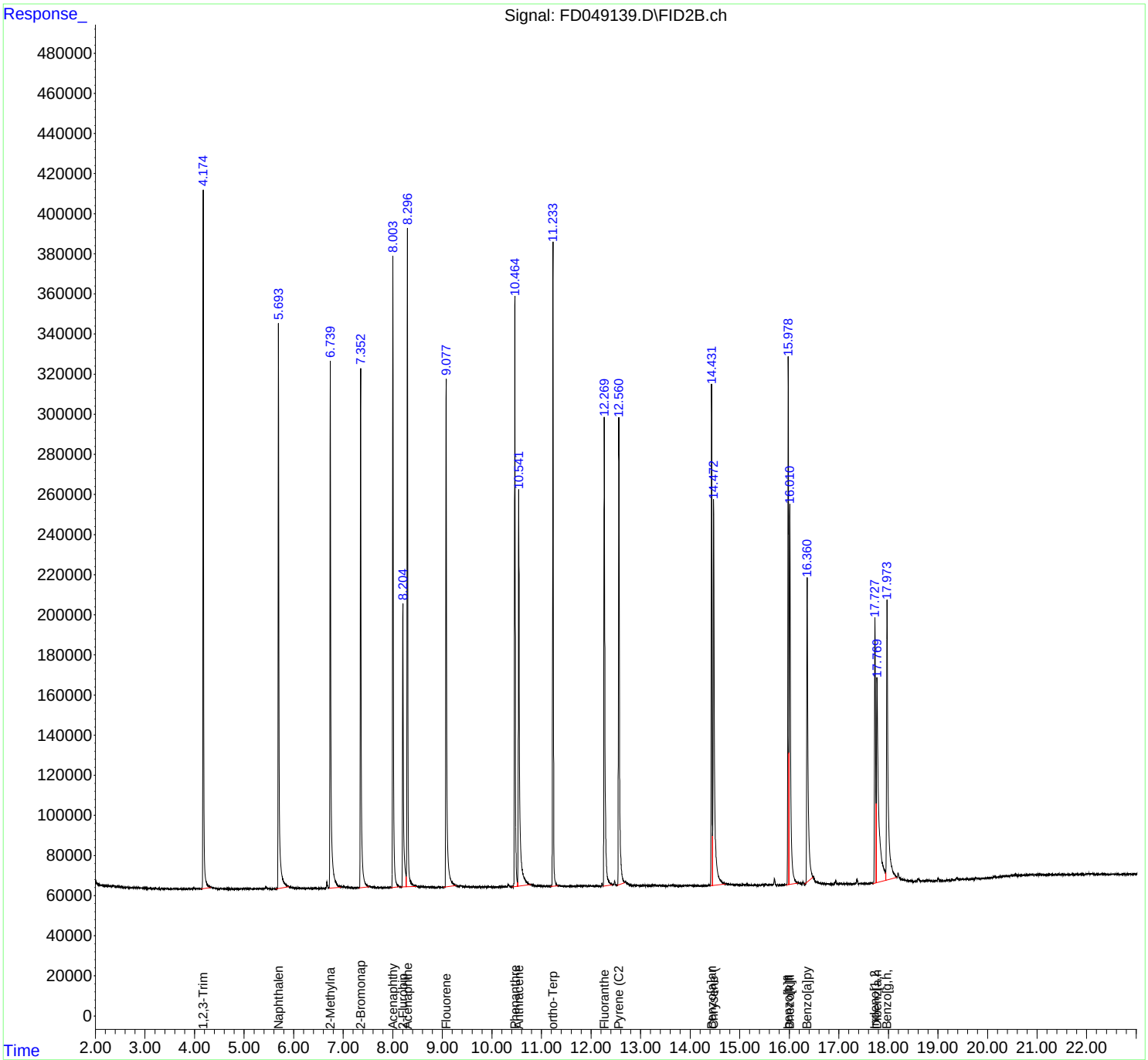
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049139.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 16:30
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 01 02:19:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049139.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 16:30
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.175	4.130	4.329	BB	347315	3399763	93.97%	5.209%
2	5.693	5.644	5.904	BB	281480	3413714	94.35%	5.230%
3	6.740	6.714	6.959	PV	262624	3391580	93.74%	5.196%
4	7.352	7.310	7.525	BB	258504	3062089	84.64%	4.691%
5	8.003	7.960	8.132	BB	313684	3462957	95.72%	5.305%
6	8.204	8.157	8.272	BV	140970	1810963	50.05%	2.774%
7	8.296	8.272	8.470	VB	328959	3617973	100.00%	5.543%
8	9.077	9.025	9.270	BB	252925	3337715	92.25%	5.113%
9	10.464	10.407	10.518	BV	294137	3215091	88.86%	4.926%
10	10.542	10.518	10.789	VB	197481	3207397	88.65%	4.914%
11	11.233	11.180	11.340	BB	319815	3471724	95.96%	5.319%
12	12.269	12.240	12.432	PB	233879	3302650	91.28%	5.060%
13	12.561	12.520	12.677	BV	232578	3264688	90.24%	5.002%
14	14.432	14.407	14.452	BV	250173	2802942	77.47%	4.294%
15	14.473	14.452	14.710	VB	191741	3496552	96.64%	5.357%
16	15.978	15.930	15.994	BV	263046	2945002	81.40%	4.512%
17	16.010	15.994	16.177	VV	189631	3328113	91.99%	5.099%
18	16.360	16.309	16.480	BV	151978	2719805	75.17%	4.167%
19	17.728	17.690	17.752	BV	132307	1974445	54.57%	3.025%
20	17.769	17.752	17.947	VV	102302	3112363	86.03%	4.768%
21	17.973	17.947	18.174	VV	138958	2935686	81.14%	4.498%
			Sum of corrected areas:			65273211		

Aromatic EPH 021125.M Sat Mar 01 03:55:59 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049139.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 16:30
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 01 02:19:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(Min)
1	T	1,2,3-Trimethylbenzene (C10	159.254	169.988	E3	-6.7	109	0.00
2	T	Naphthalene (C11.7)	158.788	170.686	E3	-7.5	109	0.00
3	T	2-Methylnaphthalene (C12.89	155.693	169.579	E3	-8.9	109	0.00
4	S	2-Bromonaphthalene (SURR)	143.109	153.104	E3	-7.0	108	0.00
5	T	Acenaphthylene (C15.06)	162.606	173.148	E3	-6.5	108	0.00
6	S	2-Flurobiphenyl (SURR)	87.912	90.548	E3	-3.0	102	0.00
7	T	Acenaphthene (C15.5)	164.509	180.899	E3	-10.0	113	0.00
8	T	Flouorene (C16.55)	157.649	166.886	E3	-5.9	107	0.00
9	T	Phenanthrene (C19.36)	150.701	160.755	E3	-6.7	107	0.00
10	T	Anthracene (C19.43)	151.028	160.370	E3	-6.2	107	0.00
11	S	ortho-Terphenyl (SURR)	161.774	173.586	E3	-7.3	109	0.00
12	T	Fluoranthene (C21.85)	154.315	165.132	E3	-7.0	108	0.00
13	T	Pyrene (C20.8)	154.058	163.234	E3	-6.0	108	0.00
14	T	Benzo[a]anthracene (C26.37)	131.390	140.147	E3	-6.7	104	0.00
15	T	Chrysene (C27.41)	161.687	174.828	E3	-8.1	113	0.00
16	T	benzo[b]fluoranthene (C30.4	137.594	147.250	E3	-7.0	105	0.00
17	T	Bnezo[k]fluoranthene (C30.1	157.942	166.406	E3	-5.4	109	0.00
18	T	Benzo[a]pyrene (C31.34)	135.737	135.990	E3	-0.2	101	0.00
19	T	Indeno[1,2,3-cd]pyrene (C35	109.277	98.722	E3	9.7	92	0.01
20	T	Dibenz[a,h]anthracene (C30.	155.140	155.618	E3	-0.3	100	0.01
21	T	Benzo[g,h,i]perylene (C34.0	144.951	146.784	E3	-1.3	104	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049149.D**						
Aromatic C10-C12	6973708.000	40.000	4.076	5.794	174342.700	159020.606	-9.635
Aromatic C12-C16	10519197.000	60.000	5.795	8.396	175319.950	160935.866	-8.938
Aromatic C16-C21	13182289.000	80.000	8.397	12.661	164778.613	153359.309	-7.446
Aromatic C21-C36	27715585.000	180.000	12.662	18.073	153975.472	143114.753	-7.589
Aromatic EPH	58390779.000	360.000	4.076	18.073	162196.608	150128.823	-8.038

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 23:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049149.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6973708.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	10519197.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	13182289.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	27715585.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	58390779.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049149.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:50
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 01 02:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.351	3112938	21.752 ug/ml
	Spiked Amount 50.000		Recovery =	43.50%
6)	S 2-Flurobiphenyl (SURR)	8.202	1935781	22.020 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	44.04%
11)	S ortho-Terphenyl (SURR)	11.233	3516404	21.736 ug/ml
	Spiked Amount 50.000		Recovery =	43.47%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.174	3482094	21.865 ug/ml
2)	T Naphthalene (C11.7)	5.692	3491614	21.989 ug/ml
3)	T 2-Methylnaphthalene (...	6.738	3436502	22.072 ug/ml
5)	T Acenaphthylene (C15.06)	8.002	3538476	21.761 ug/ml
7)	T Acenaphthene (C15.5)	8.295	3544219	21.544 ug/ml
8)	T Flouorene (C16.55)	9.076	3414145	21.657 ug/ml
9)	T Phenanthrene (C19.36)	10.463	3285846	21.804 ug/ml
10)	T Anthracene (C19.43)	10.540	3144239	20.819 ug/ml
12)	T Fluoranthene (C21.85)	12.268	3406381	22.074 ug/ml
13)	T Pyrene (C20.8)	12.560	3338059	21.667 ug/ml
14)	T Benzo[a]anthracene (C...	14.431	2962829	22.550 ug/ml
15)	T Chrysene (C27.41)	14.472	3493330	21.606 ug/ml
16)	T benzo[b]fluoranthene ...	15.979	3063160	22.262 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.010	3396369	21.504 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.358	2853122	21.020 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.724	2187483	20.018 ug/ml
20)	T Dibenz[a,h]anthracene...	17.764	3318186	21.388 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.972	3034725	20.936 ug/ml

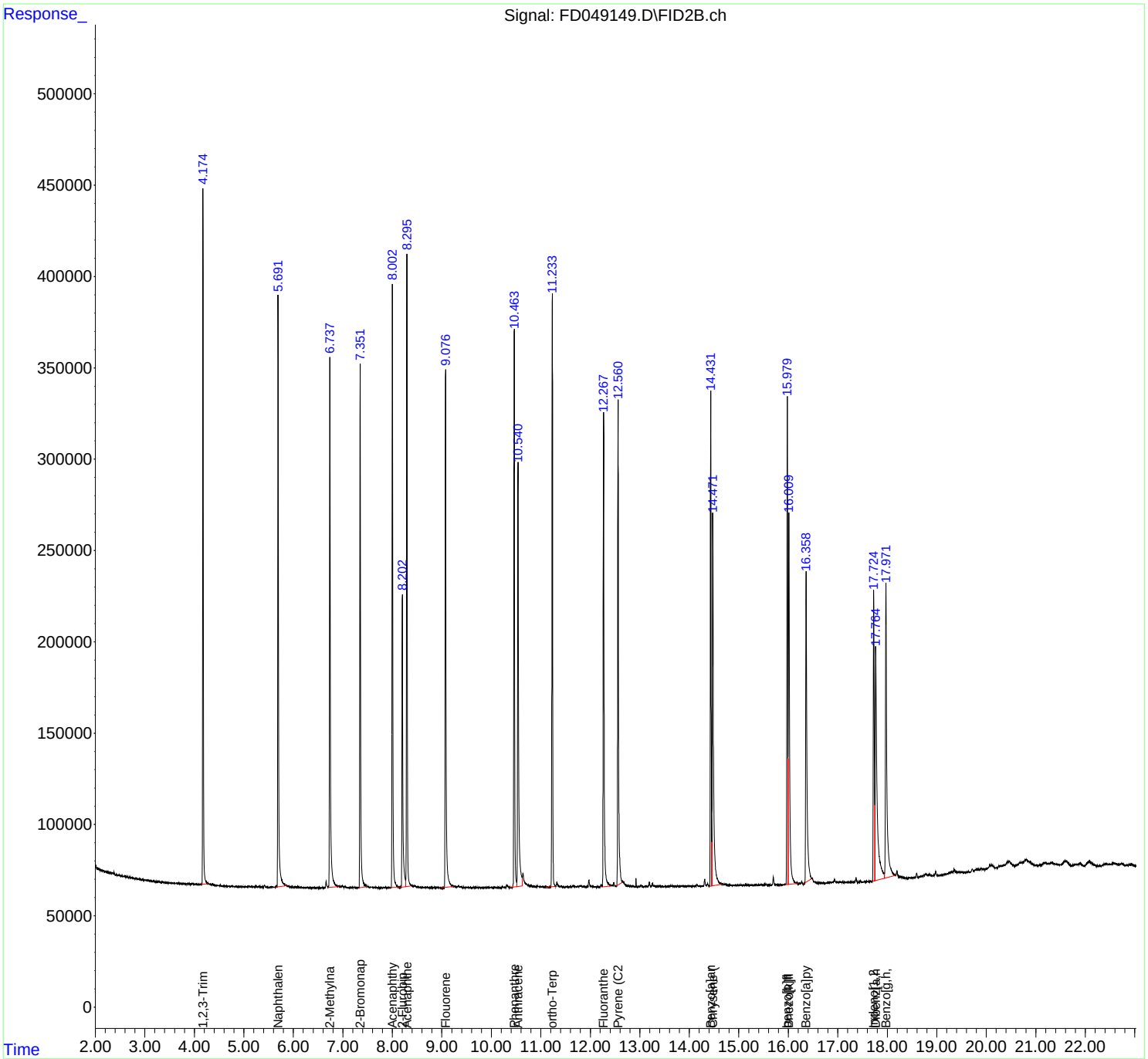
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049149.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:50
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 01 02:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049149.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:50
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.174	4.130	4.287	BB	380598	3482094	98.25%	5.201%
2	5.692	5.639	5.869	BB	322834	3491614	98.52%	5.215%
3	6.738	6.709	6.925	VB	289466	3436502	96.96%	5.132%
4	7.351	7.304	7.492	BB	286209	3112938	87.83%	4.649%
5	8.002	7.960	8.142	BB	329991	3538476	99.84%	5.285%
6	8.202	8.157	8.271	BV	160039	1935781	54.62%	2.891%
7	8.295	8.271	8.387	VV	346026	3544219	100.00%	5.293%
8	9.076	8.975	9.237	BB	283289	3414145	96.33%	5.099%
9	10.463	10.369	10.517	BV	305602	3285846	92.71%	4.907%
10	10.540	10.517	10.625	VV	232207	3144239	88.71%	4.696%
11	11.233	11.107	11.304	BV	324629	3516404	99.22%	5.252%
12	12.268	12.241	12.434	VV	259716	3406381	96.11%	5.087%
13	12.560	12.510	12.652	BV	265565	3338059	94.18%	4.985%
14	14.431	14.407	14.452	BV	272185	2962829	83.60%	4.425%
15	14.472	14.452	14.662	VB	204003	3493330	98.56%	5.217%
16	15.979	15.930	15.994	BV	266949	3063160	86.43%	4.575%
17	16.010	15.994	16.185	VB	202882	3396369	95.83%	5.073%
18	16.358	16.302	16.471	BV	169879	2853122	80.50%	4.261%
19	17.724	17.690	17.746	BV	158941	2187483	61.72%	3.267%
20	17.764	17.746	17.944	VV	127973	3318186	93.62%	4.956%
21	17.972	17.944	18.172	VV	161265	3034725	85.62%	4.532%
			Sum of corrected areas:			66955900		

Aromatic EPH 021125.M Sat Mar 01 03:56:54 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049149.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:50
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 01 02:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	T	1,2,3-Trimethylbenzene (C10	159.254	174.105 E3	-9.3	112	0.00
2	T	Naphthalene (C11.7)	158.788	174.581 E3	-9.9	111	0.00
3	T	2-Methylnaphthalene (C12.89	155.693	171.825 E3	-10.4	111	0.00
4	S	2-Bromonaphthalene (SURR)	143.109	155.647 E3	-8.8	110	0.00
5	T	Acenaphthylene (C15.06)	162.606	176.924 E3	-8.8	111	0.00
6	S	2-Flurobiphenyl (SURR)	87.912	96.789 E3	-10.1	109	0.00
7	T	Acenaphthene (C15.5)	164.509	177.211 E3	-7.7	110	0.00
8	T	Flouorene (C16.55)	157.649	170.707 E3	-8.3	109	0.00
9	T	Phenanthrene (C19.36)	150.701	164.292 E3	-9.0	110	0.00
10	T	Anthracene (C19.43)	151.028	157.212 E3	-4.1	104	0.00
11	S	ortho-Terphenyl (SURR)	161.774	175.820 E3	-8.7	111	0.00
12	T	Fluoranthene (C21.85)	154.315	170.319 E3	-10.4	111	0.00
13	T	Pyrene (C20.8)	154.058	166.903 E3	-8.3	111	0.00
14	T	Benzo[a]anthracene (C26.37)	131.390	148.141 E3	-12.7	110	0.00
15	T	Chrysene (C27.41)	161.687	174.666 E3	-8.0	112	0.00
16	T	benzo[b]fluoranthene (C30.4	137.594	153.158 E3	-11.3	109	0.00
17	T	Bnezo[k]fluoranthene (C30.1	157.942	169.818 E3	-7.5	112	0.00
18	T	Benzo[a]pyrene (C31.34)	135.737	142.656 E3	-5.1	106	0.00
19	T	Indeno[1,2,3-cd]pyrene (C35	109.277	109.374 E3	-0.1	102	0.00
20	T	Dibenz[a,h]anthracene (C30.	155.140	165.909 E3	-6.9	107	0.00
21	T	Benzo[g,h,i]perylene (C34.0	144.951	151.736 E3	-4.7	107	0.00

Evaluate Continuing Calibration Report - Not Founds

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BL	SDG No.:	Q1415
Lab Sample ID:	PB166863BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:43	02/25/25 15:47	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068296.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC068296.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068296.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068296.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068296.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD049101.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD049101.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD049101.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD049101.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BL	SDG No.:	Q1415
Lab Sample ID:	PB166863BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:43	02/25/25 15:47	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068296.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC068296.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068296.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068296.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068296.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD049101.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD049101.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD049101.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD049101.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BL	SDG No.:	Q1415
Lab Sample ID:	PB166863BL	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068296.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16		3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21		5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28		8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40		17.0	U	17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		32.0		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166863BL	Acq On:	25 Feb 2025 15:47
Client Sample ID:	PB166863BL	Operator:	YP/AJ
Data file:	FC068296.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	0	0	300	ug/ml
Aliphatic C12-C16	6.372	9.756	0	0	200	ug/ml
Aliphatic C16-C21	9.757	13.110	0	0	300	ug/ml
Aliphatic C21-C28	13.111	16.764	0	0	400	ug/ml
Aliphatic C28-C40	16.765	21.571	0	0	600	ug/ml
Aliphatic EPH	3.105	21.571	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.844	12.844	3600606	32.01		ug/ml
Aliphatic C9-C28	3.105	16.764	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068296.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 15:47
Operator : YP/AJ
Sample : PB166863BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

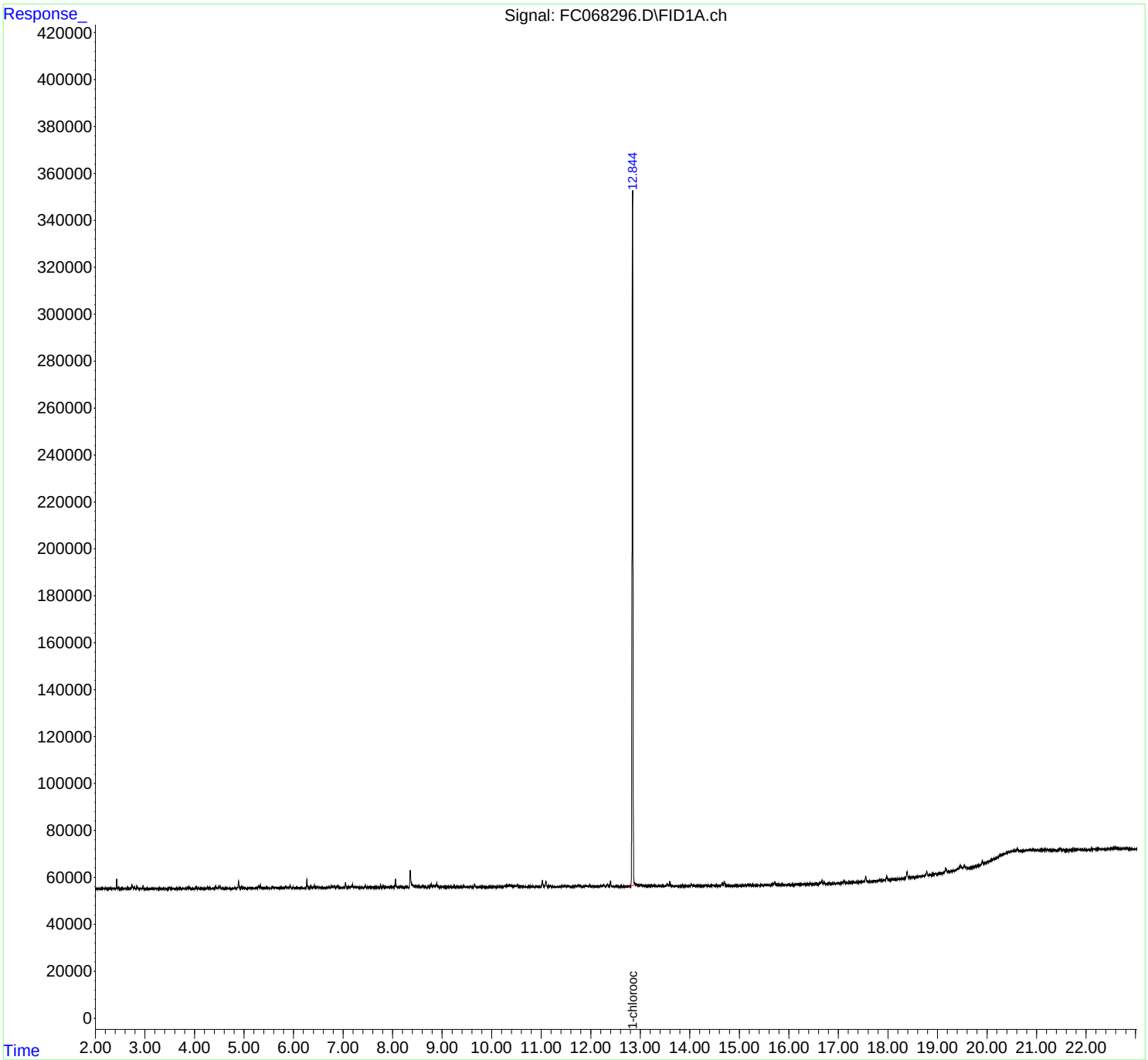
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.844	3600606	32.013 ug/ml
Spiked Amount 50.000		Recovery = 64.03%	
Target Compounds			

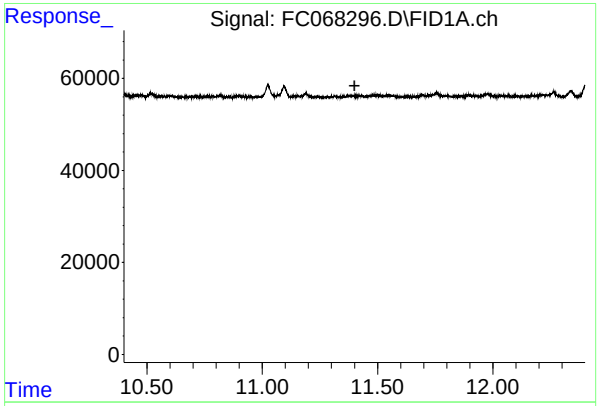
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068296.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 15:47
Operator : YP/AJ
Sample : PB166863BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

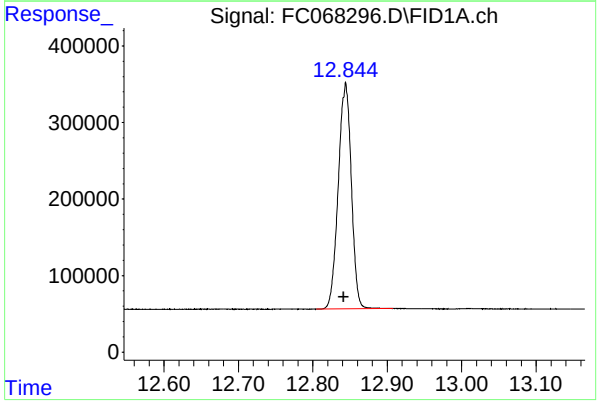
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#12 1-chlorooctadecane (SURR)

R.T.: 12.844 min
Delta R.T.: 0.002 min
Response: 3600606
Conc: 32.01 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068296.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 15:47
Sample : PB166863BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.844	12.804	12.908	BB	293152	3600606	100.00%	100.000%

Sum of corrected areas: 3600606

Aliphatic EPH 021125.M Wed Feb 26 02:46:00 2025

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166863BL		SDG No.:	Q1415	
Lab Sample ID:	PB166863BL		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049101.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.2		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.5		40 - 140	113%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.7		40 - 140	95%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166863BL	Acq On:	25 Feb 2025 15:47
Client Sample ID:	PB166863BL	Operator:	YP/AJ
Data file:	FD049101.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	0	0	200	ug/ml
Aromatic C12-C16	5.794	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.660	0	0	500	ug/ml
Aromatic C21-C36	12.661	18.070	0	0	800	ug/ml
Aromatic EPH	4.075	18.070	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.348	7.348	8047938	56.24		ug/ml
2-Flurobiphenyl (SURR)	8.198	8.198	4963166	56.46		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	7709546	47.66		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049101.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 15:47
Operator : YP/AJ
Sample : PB166863BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BL

Integration File: autoint1.e
Quant Time: Feb 26 01:32:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.348	8047938	56.236 ug/ml
Spiked Amount 50.000		Recovery = 112.47%	
6) S 2-Flurobiphenyl (SURR)	8.198	4963166	56.456 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 112.91%	
11) S ortho-Terphenyl (SURR)	11.235	7709546	47.656 ug/ml
Spiked Amount 50.000		Recovery = 95.31%	
Target Compounds			

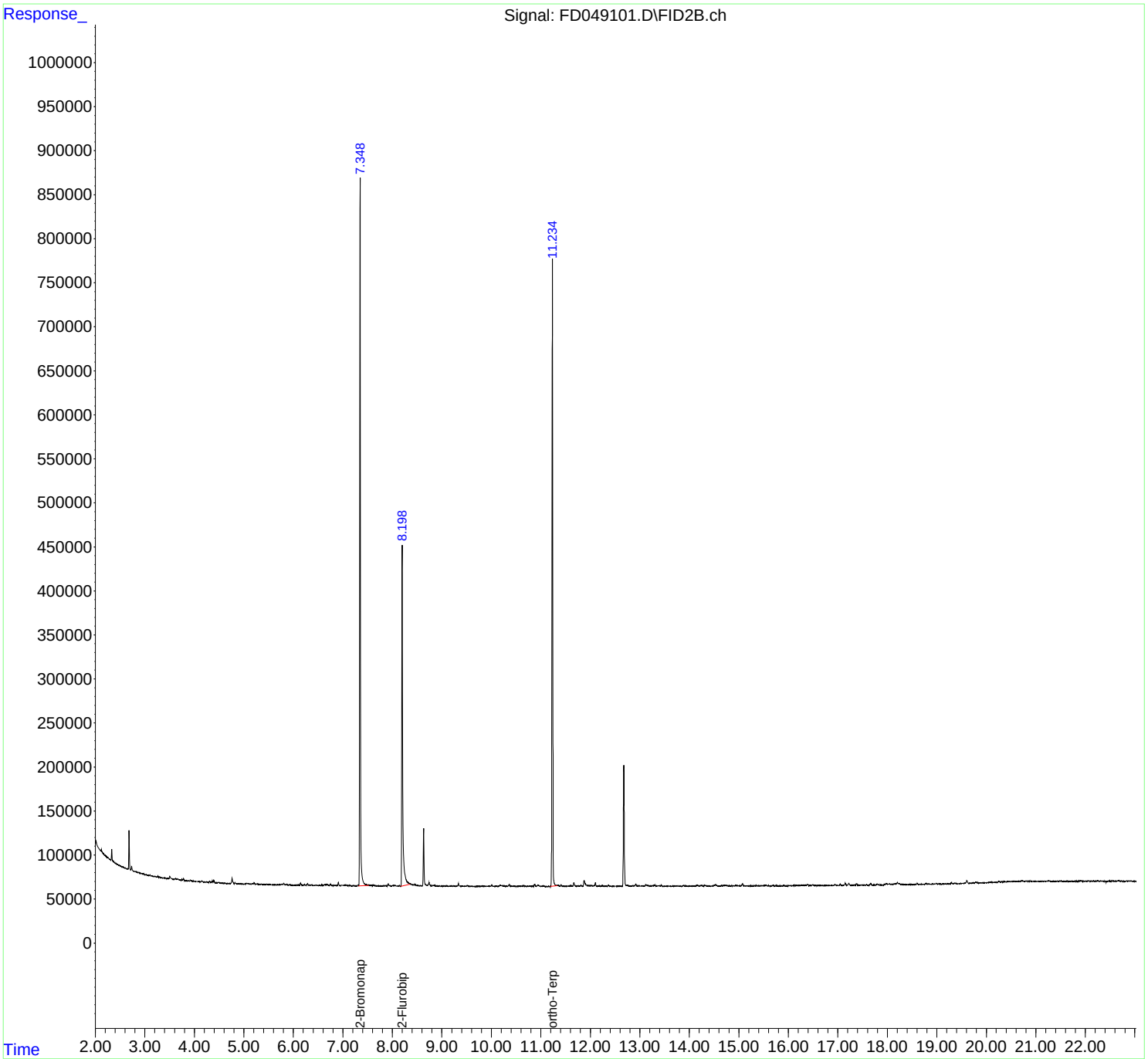
(f)=RT Delta > 1/2 Window (m)=manual int.

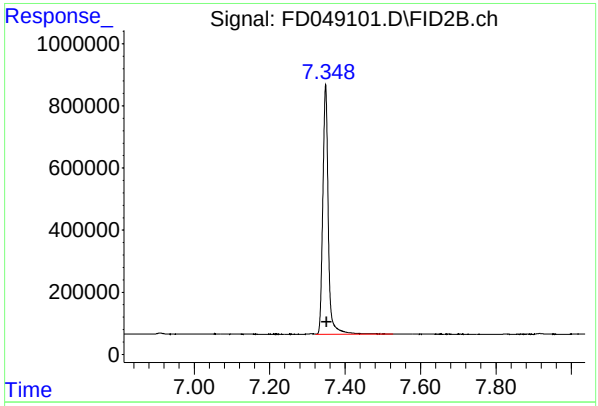
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049101.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 15:47
Operator : YP/AJ
Sample : PB166863BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BL

Integration File: autoint1.e
Quant Time: Feb 26 01:32:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

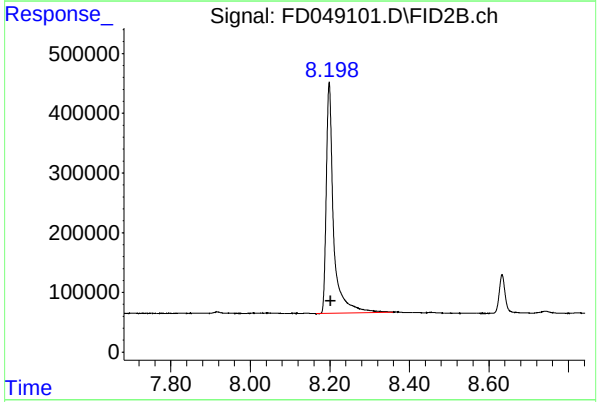




#4 2-Bromonaphthalene (SURR)

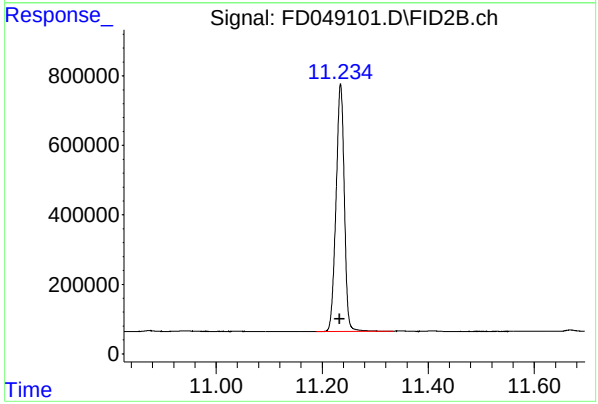
R.T.: 7.348 min
Delta R.T.: -0.003 min
Response: 8047938
Conc: 56.24 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166863BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.198 min
Delta R.T.: -0.004 min
Response: 4963166
Conc: 56.46 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 7709546
Conc: 47.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049101.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 15:47
Sample : PB166863BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.348	7.323	7.527	VB	804027	8047938	100.00%	38.840%
2	8.198	8.165	8.359	BV	386956	4963166	61.67%	23.953%
3	11.235	11.189	11.334	BV	711675	7709546	95.80%	37.207%

Sum of corrected areas: 20720649

Aromatic EPH 021125.M Wed Feb 26 01:54:00 2025

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BL	SDG No.:	Q1415
Lab Sample ID:	PB166923BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049130.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.00	U	2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.0		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.8		40 - 140	116%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.7		40 - 140	99%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BL	Acq On:	28 Feb 2025 11:00
Client Sample ID:	PB166923BL	Operator:	YP/AJ
Data file:	FD049130.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.073	0	0	800	ug/ml
Aromatic EPH	4.076	18.073	0	0		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	8041222	49.71		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8010402	55.97		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	5081253	57.8		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 01 02:16:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.352	8010402	55.974 ug/ml
Spiked Amount 50.000		Recovery = 111.95%	
6) S 2-Flurobiphenyl (SURR)	8.201	5081253	57.799 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 115.60%	
11) S ortho-Terphenyl (SURR)	11.236	8041222	49.706 ug/ml
Spiked Amount 50.000		Recovery = 99.41%	
Target Compounds			

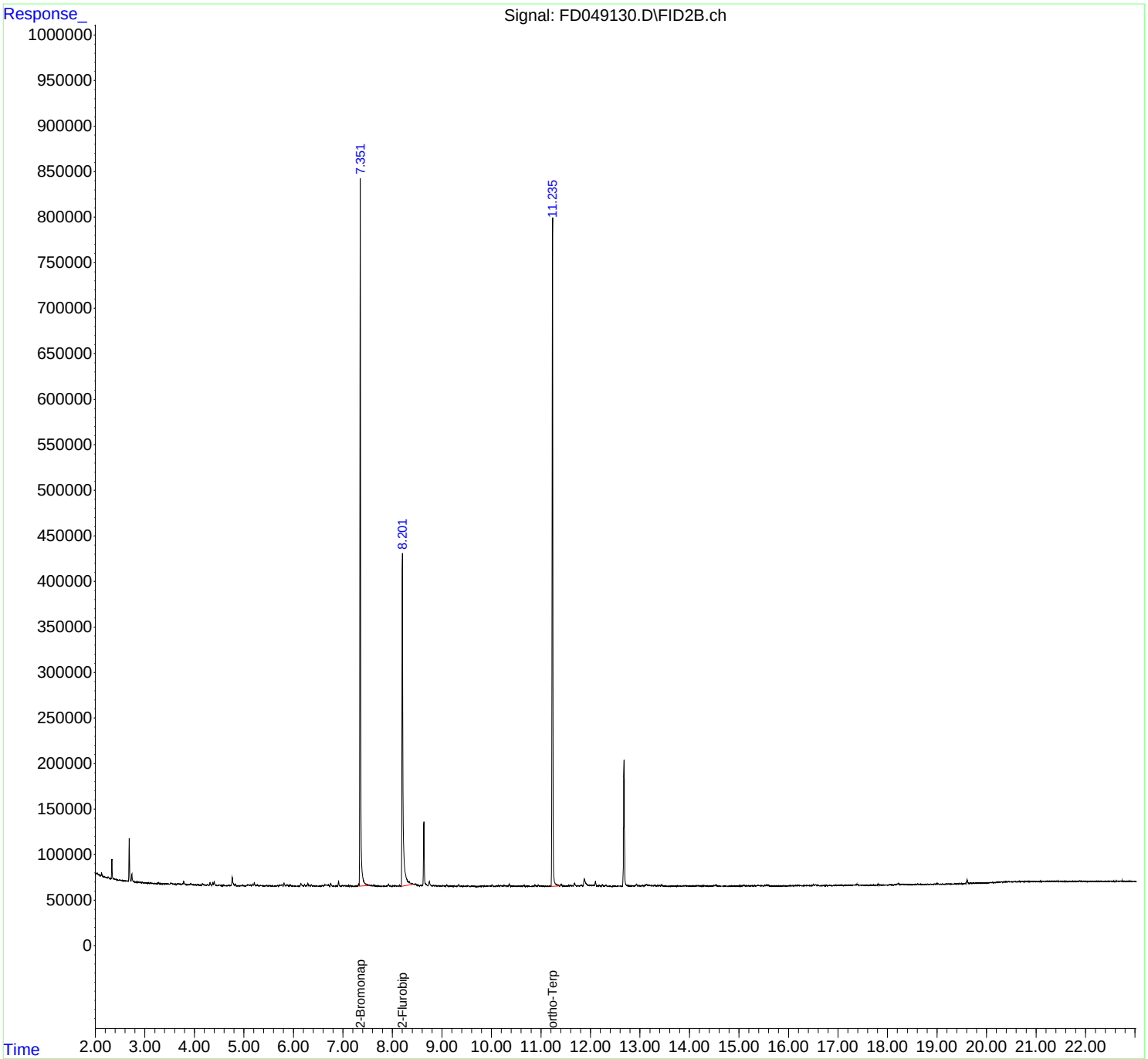
(f)=RT Delta > 1/2 Window (m)=manual int.

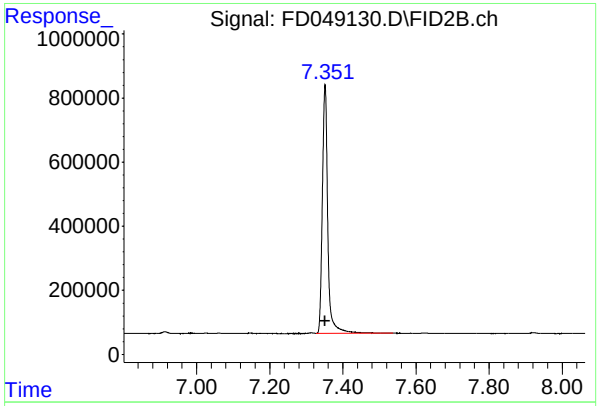
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 01 02:16:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

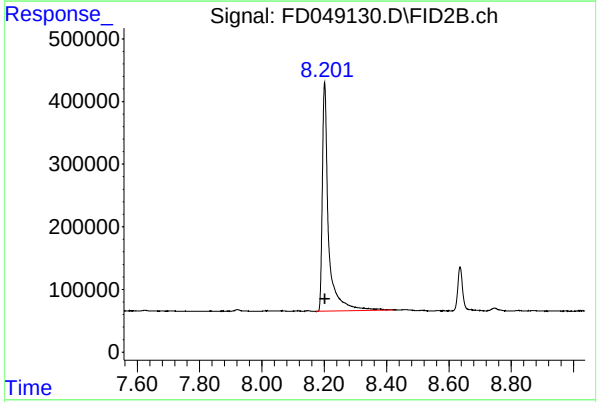




#4 2-Bromonaphthalene (SURR)

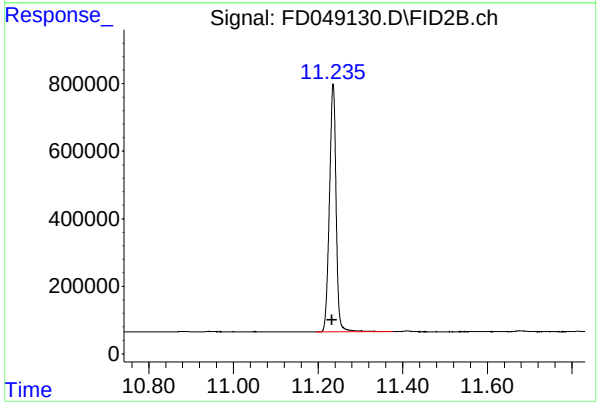
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 8010402
Conc: 55.97 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 5081253
Conc: 57.80 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.002 min
Response: 8041222
Conc: 49.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.352	7.327	7.537	VB	776735	8010402	99.62%	37.905%
2	8.201	8.174	8.420	PB	364991	5081253	63.19%	24.044%
3	11.236	11.195	11.377	BB	734702	8041222	100.00%	38.051%

Sum of corrected areas: 21132876

Aromatic EPH 021125.M Sat Mar 01 03:51:24 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BL	SDG No.:	Q1415
Lab Sample ID:	PB166923BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 11:00	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FC068322.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC068322.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC068322.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC068322.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC068322.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD049130.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD049130.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD049130.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD049130.D

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BL	SDG No.:	Q1415
Lab Sample ID:	PB166923BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 11:00	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FC068322.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC068322.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC068322.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC068322.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC068322.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD049130.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD049130.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD049130.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD049130.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.00	mg/kg	
Total EPH	Total EPH	7.12	U		7.12	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BL	SDG No.:	Q1415
Lab Sample ID:	PB166923BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068322.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.6		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166923BL	Acq On:	28 Feb 2025 11:00
Client Sample ID:	PB166923BL	Operator:	YP/AJ
Data file:	FC068322.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	0	0	300	ug/ml
Aliphatic C12-C16	6.370	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.107	0	0	300	ug/ml
Aliphatic C21-C28	13.108	16.761	0	0	400	ug/ml
Aliphatic C28-C40	16.762	21.565	0	0	600	ug/ml
Aliphatic EPH	3.104	21.565	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4680251	41.61		ug/ml
Aliphatic C9-C28	3.104	16.761	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 05 05:22:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.840	4680251	41.612 ug/ml
Spiked Amount 50.000		Recovery = 83.22%	
Target Compounds			

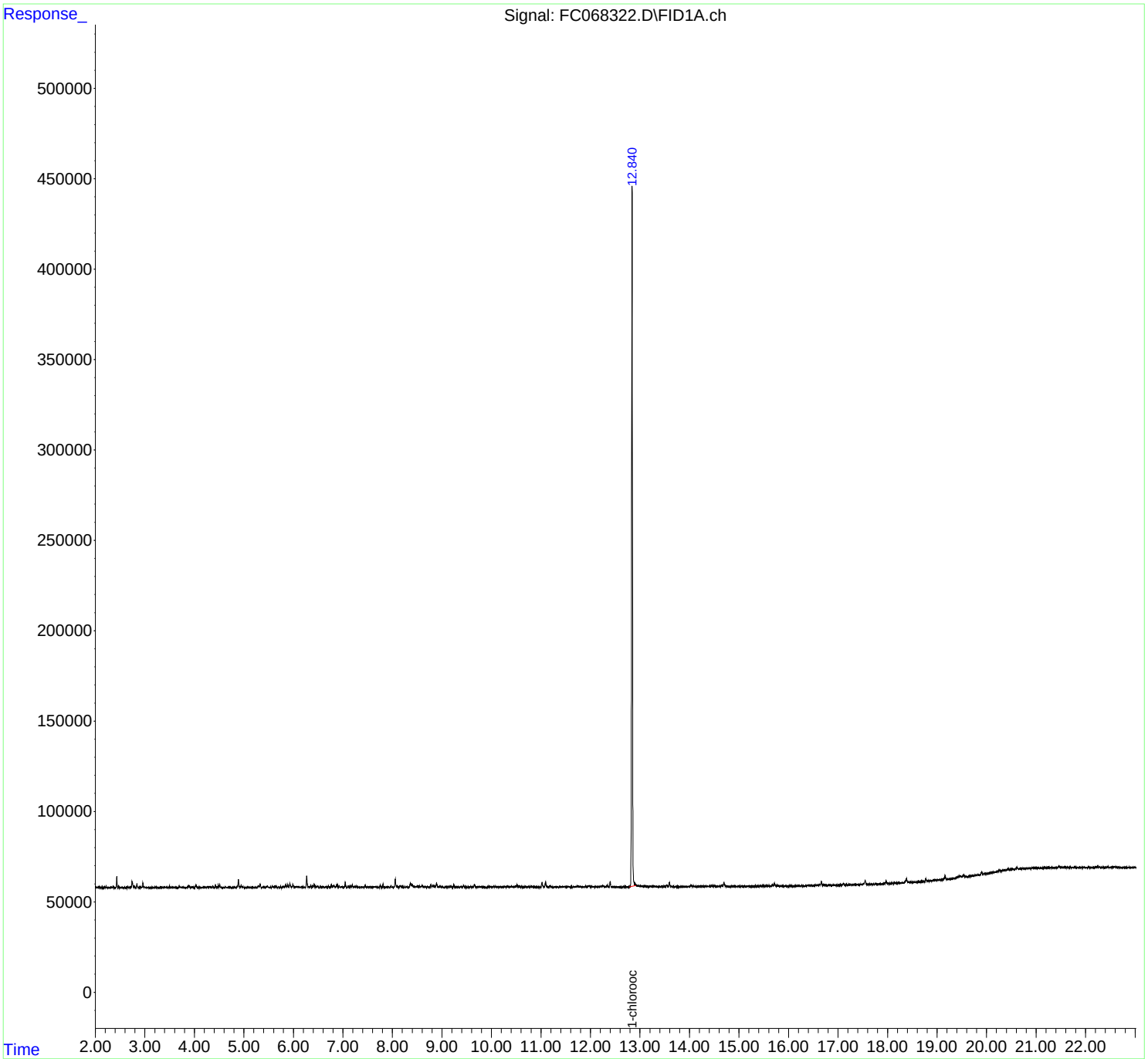
(f)=RT Delta > 1/2 Window (m)=manual int.

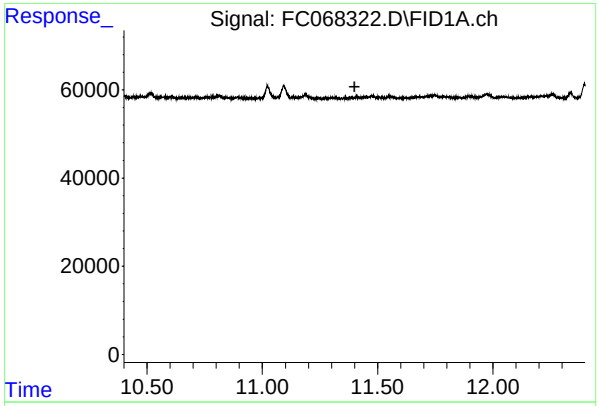
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 05 05:22:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

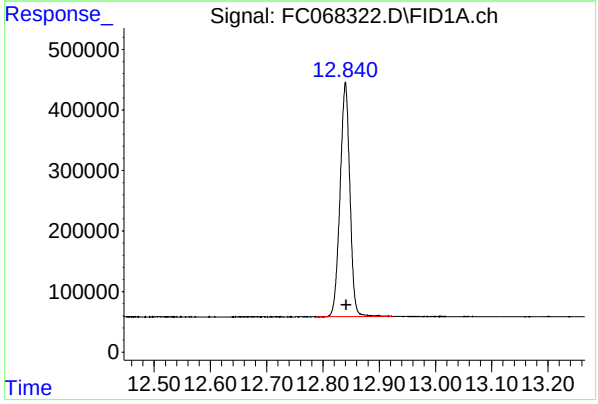




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB166923BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 4680251
Conc: 41.61 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.840	12.788	12.925	BB	386372	4680251	100.00%	100.000%

Sum of corrected areas: 4680251

Aliphatic EPH 021125.M Sat Mar 01 01:22:54 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166863BS		SDG No.:	Q1415	
Lab Sample ID:	PB166863BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049102.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	165		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	410		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	583		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	905		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.9		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.8		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	51.6		40 - 140	103%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166863BS	Acq On:	25 Feb 2025 16:23
Client Sample ID:	PB166863BS	Operator:	YP/AJ
Data file:	FD049102.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	13152647	82.71	200	ug/ml
Aromatic C12-C16	5.794	8.396	33023857	205.199	300	ug/ml
Aromatic C16-C21	8.397	12.660	44739297	291.729	500	ug/ml
Aromatic C21-C36	12.661	18.070	64821667	452.935	800	ug/ml
Aromatic EPH	4.075	18.070	155737468	1030		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	8578252	59.94		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4994005	56.81		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8345069	51.58		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049102.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:23
Operator : YP/AJ
Sample : PB166863BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BS

Integration File: autoint1.e
Quant Time: Feb 26 01:33:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.351	8578252	59.942 ug/ml
Spiked Amount	50.000		Recovery =	119.88%
6) S	2-Flurobiphenyl (SURR)	8.202	4994005	56.807 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	113.61%
11) S	ortho-Terphenyl (SURR)	11.237	8345069	51.585 ug/ml
Spiked Amount	50.000		Recovery =	103.17%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	6065078	38.084 ug/ml
2) T	Naphthalene (C11.7)	5.692	7087569	44.636 ug/ml
3) T	2-Methylnaphthalene (...	6.738	7259810	46.629 ug/ml
5) T	Acenaphthylene (C15.06)	8.004	8384708	51.565 ug/ml
7) T	Acenaphthene (C15.5)	8.299	8801087	53.499 ug/ml
8) T	Flouorene (C16.55)	9.078	8817188	55.929 ug/ml
9) T	Phenanthrene (C19.36)	10.467	8872012	58.872 ug/ml
10) T	Anthracene (C19.43)	10.542	9030746	59.795 ug/ml
12) T	Fluoranthene (C21.85)	12.272	9098752	58.962 ug/ml
13) T	Pyrene (C20.8)	12.565	8920599	57.904 ug/ml
14) T	Benzo[a]anthracene (C...	14.436	8323275	63.348 ug/ml
15) T	Chrysene (C27.41)	14.478	8230352	50.903 ug/ml
16) T	benzo[b]fluoranthene ...	15.985	8299332	60.317 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.020	8407118	53.229 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.361	8002901	58.959 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.732	7642522	69.937 ug/ml
20) T	Dibenz[a,h]anthracene...	17.766	7956870	51.288 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.983	7959297	54.910 ug/ml

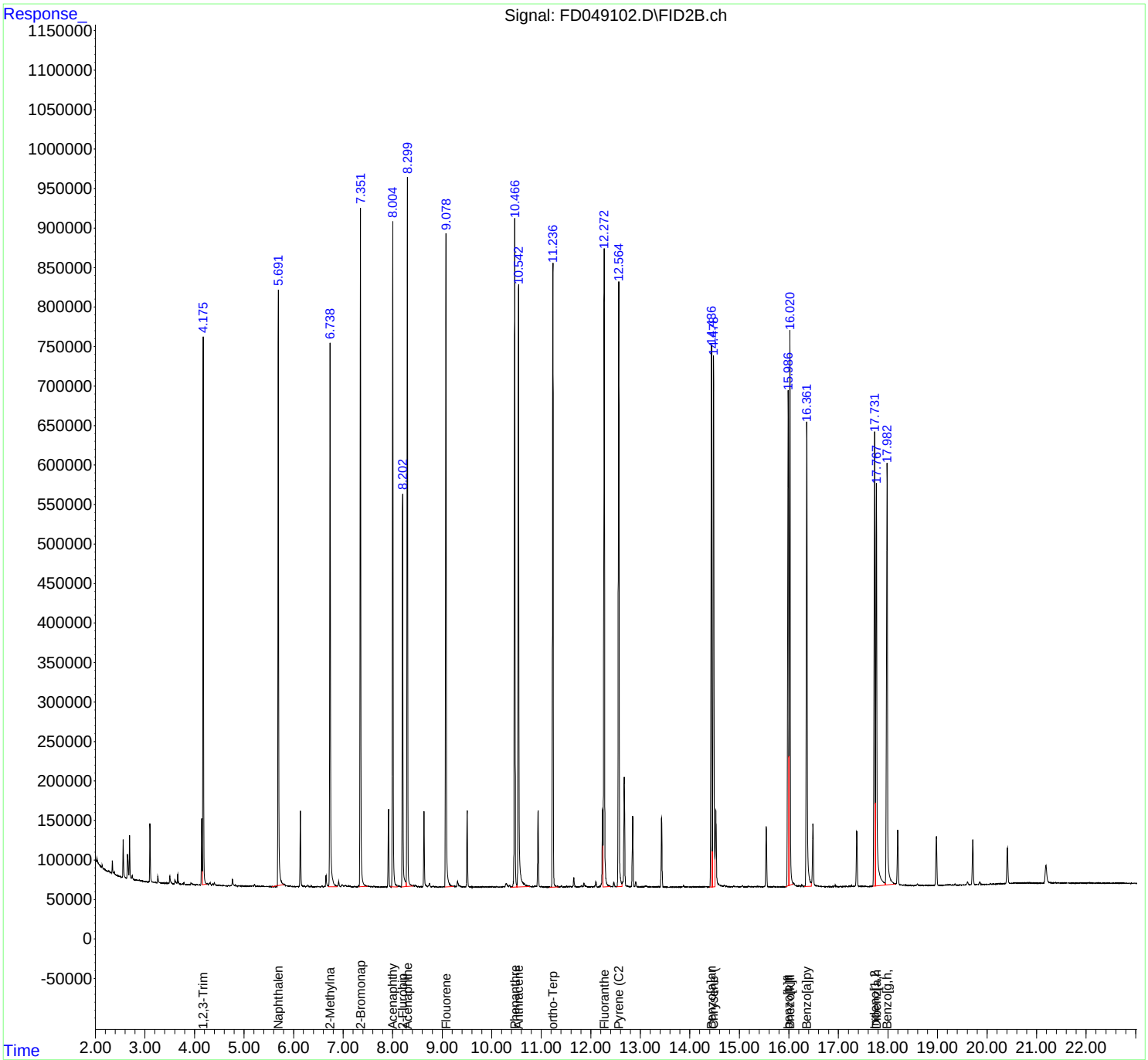
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049102.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:23
Operator : YP/AJ
Sample : PB166863BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BS

Integration File: autoint1.e
Quant Time: Feb 26 01:33:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049102.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:23
Sample : PB166863BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.159	4.247	VV	693349	6065078	66.66%	3.587%
2	5.692	5.559	5.801	BV	749586	7087569	77.90%	4.192%
3	6.738	6.709	6.879	VV	689555	7259810	79.79%	4.294%
4	7.352	7.326	7.497	VB	859196	8578252	94.28%	5.074%
5	8.004	7.960	8.096	BV	839696	8384708	92.15%	4.959%
6	8.202	8.175	8.272	PV	497189	4994005	54.89%	2.954%
7	8.299	8.272	8.417	VB	894253	8801087	96.73%	5.205%
8	9.078	9.050	9.225	PV	828025	8817188	96.91%	5.215%
9	10.467	10.397	10.510	BV	847912	8872012	97.51%	5.247%
10	10.542	10.510	10.775	VB	761494	9030746	99.25%	5.341%
11	11.237	11.175	11.354	BB	790276	8345069	91.72%	4.936%
12	12.272	12.248	12.394	VV	807758	9098752	100.00%	5.381%
13	12.565	12.514	12.629	BV	766440	8920599	98.04%	5.276%
14	14.436	14.394	14.454	BV	686004	8323275	91.48%	4.923%
15	14.478	14.454	14.506	VV	673881	8230352	90.46%	4.868%
16	15.985	15.930	16.000	BV	625218	8299332	91.21%	4.909%
17	16.020	16.000	16.084	VV	705093	8407118	92.40%	4.972%
18	16.361	16.310	16.453	BV	585701	8002901	87.96%	4.733%
19	17.732	17.690	17.745	BV	575619	7642522	84.00%	4.520%
20	17.766	17.745	17.944	VV	511547	7956870	87.45%	4.706%
21	17.983	17.944	18.157	VV	532307	7959297	87.48%	4.708%

Sum of corrected areas: 169076542

Aromatic EPH 021125.M Wed Feb 26 01:55:34 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BS	SDG No.:	Q1415
Lab Sample ID:	PB166863BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:43	02/25/25 16:23	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	172		1	5.76	30.0	ug/l	FC068297.D
Aliphatic C12-C16	Aliphatic C12-C16	158		1	3.61	20.0	ug/l	FC068297.D
Aliphatic C16-C21	Aliphatic C16-C21	268		1	5.14	30.0	ug/l	FC068297.D
Aliphatic C21-C28	Aliphatic C21-C28	366		1	8.97	40.0	ug/l	FC068297.D
Aliphatic C28-C40	Aliphatic C28-C40	602		1	17.0	60.0	ug/l	FC068297.D
Aromatic C10-C12	Aromatic C10-C12	165		1	3.32	20.0	ug/l	FD049102.D
Aromatic C12-C16	Aromatic C12-C16	410		1	3.69	30.0	ug/l	FD049102.D
Aromatic C16-C21	Aromatic C16-C21	583		1	12.7	50.0	ug/l	FD049102.D
Aromatic C21-C36	Aromatic C21-C36	905		1	25.2	80.0	ug/l	FD049102.D
Total AliphaticEPH	Total AliphaticEPH	1570			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2060			44.9	180	ug/l	
Total EPH	Total EPH	3630			85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BS	SDG No.:	Q1415
Lab Sample ID:	PB166863BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:43	02/25/25 16:23	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	172		1	5.76	30.0	ug/l	FC068297.D
Aliphatic C12-C16	Aliphatic C12-C16	158		1	3.61	20.0	ug/l	FC068297.D
Aliphatic C16-C21	Aliphatic C16-C21	268		1	5.14	30.0	ug/l	FC068297.D
Aliphatic C21-C28	Aliphatic C21-C28	366		1	8.97	40.0	ug/l	FC068297.D
Aliphatic C28-C40	Aliphatic C28-C40	602		1	17.0	60.0	ug/l	FC068297.D
Aromatic C10-C12	Aromatic C10-C12	165		1	3.32	20.0	ug/l	FD049102.D
Aromatic C12-C16	Aromatic C12-C16	410		1	3.69	30.0	ug/l	FD049102.D
Aromatic C16-C21	Aromatic C16-C21	583		1	12.7	50.0	ug/l	FD049102.D
Aromatic C21-C36	Aromatic C21-C36	905		1	25.2	80.0	ug/l	FD049102.D
Total AliphaticEPH	Total AliphaticEPH	1570			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2060			44.9	180	ug/l	
Total EPH	Total EPH	3630			85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BS	SDG No.:	Q1415
Lab Sample ID:	PB166863BS	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068297.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	172		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	158		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	268		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	366		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	602		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.7		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166863BS	Acq On:	25 Feb 2025 16:23
Client Sample ID:	PB166863BS	Operator:	YP/AJ
Data file:	FC068297.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	12187522	86.415	300	ug/ml
Aliphatic C12-C16	6.372	9.756	10850504	79.401	200	ug/ml
Aliphatic C16-C21	9.757	13.110	17698581	134.456	300	ug/ml
Aliphatic C21-C28	13.111	16.764	22476976	183.199	400	ug/ml
Aliphatic C28-C40	16.765	21.571	30982185	301.247	600	ug/ml
Aliphatic EPH	3.105	21.571	94195768	784.718		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.843	12.843	4574944	40.68		ug/ml
Aliphatic C9-C28	3.105	16.764	63213583	483.471	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068297.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:23
Operator : YP/AJ
Sample : PB166863BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.843	4574944	40.675 ug/ml
Spiked Amount	50.000		Recovery =	81.35%
	Target Compounds			
1) T	n-Nonane (C9)	3.206	3221618	22.901 ug/ml
2) T	n-Decane (C10)	4.263	4108269	28.999 ug/ml
4) T	n-Dodecane (C12)	6.272	4857635	34.510 ug/ml
6) T	n-Tetradecane (C14)	8.061	5311836	38.959 ug/ml
7) T	n-Hexadecane (C16)	9.657	5538668	40.438 ug/ml
8) T	n-Octadecane (C18)	11.095	5793674	42.364 ug/ml
10) T	n-Eicosane (C20)	12.402	6081631	46.679 ug/ml
11) T	n-Heneicosane (C21)	13.013	5823276	45.549 ug/ml
13) T	n-Docosane (C22)	13.598	5769887	45.783 ug/ml
14) T	n-Tetracosane (C24)	14.700	5666270	45.557 ug/ml
15) T	n-Hexacosane (C26)	15.719	5550320	45.647 ug/ml
16) T	n-Octacosane (C28)	16.667	5378801	45.289 ug/ml
17) T	n-Tricontane (C30)	17.554	5501897	45.710 ug/mlm
18) T	n-Dotriacontane (C32)	18.385	5451575	46.969 ug/mlm
19) T	n-Tetratriacontane (C34)	19.169	5360093	49.604 ug/ml
20) T	n-Hexatriacontane (C36)	19.908	5106343	53.098 ug/ml
21) T	n-Octatriacontane (C38)	20.621	4893810	54.438 ug/ml
22) T	n-Tetracontane (C40)	21.477	4666615	53.937 ug/ml

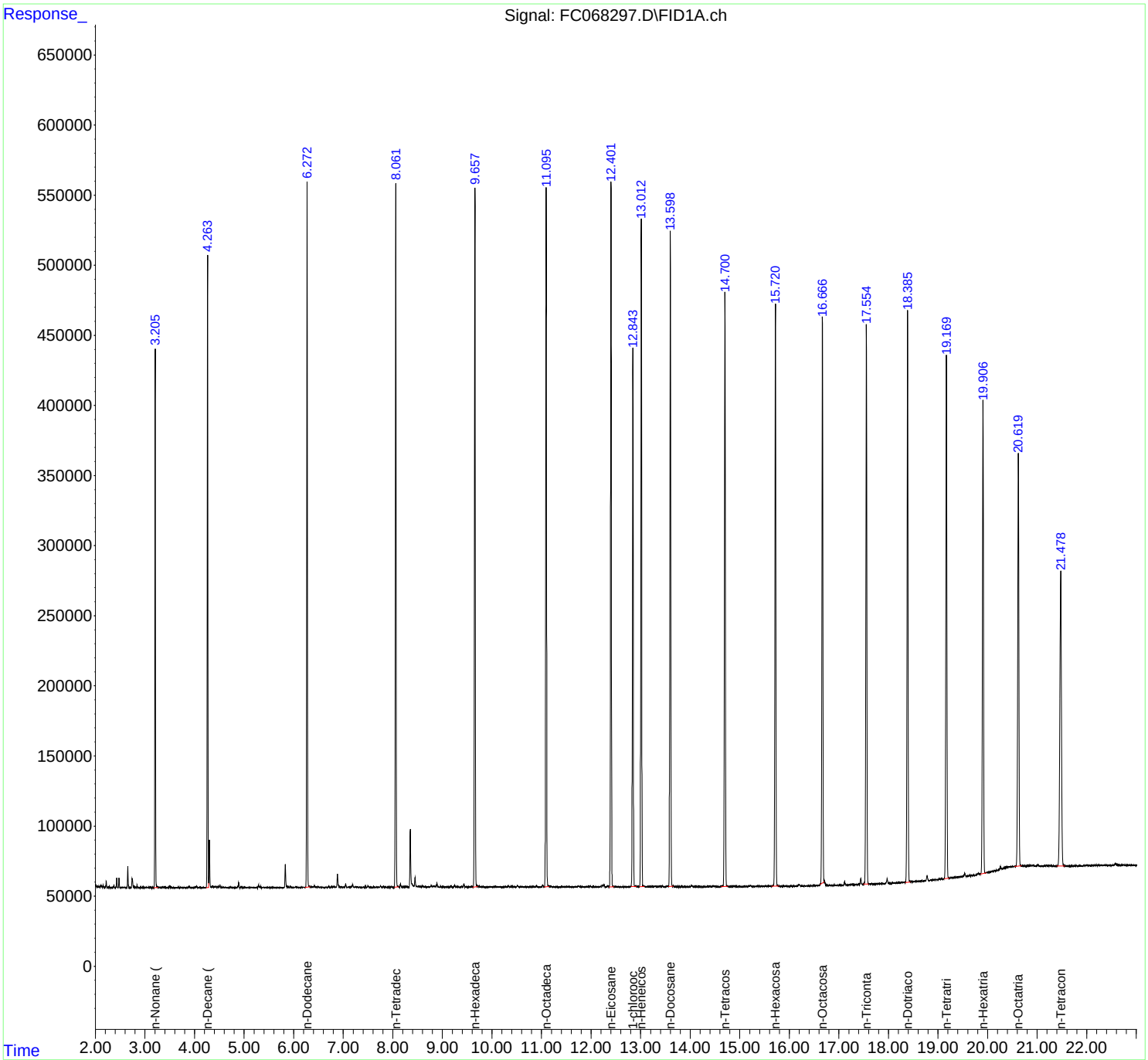
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068297.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:23
Operator : YP/AJ
Sample : PB166863BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068297.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:23
Sample : PB166863BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.206	3.171	3.268	BB	381826	3221618	52.97%	3.262%
2	4.263	4.231	4.285	BV	454536	4108269	67.55%	4.159%
3	6.272	6.225	6.335	BB	502514	4857635	79.87%	4.918%
4	8.061	8.028	8.121	BB	502495	5311836	87.34%	5.378%
5	9.657	9.615	9.715	BB	498144	5538668	91.07%	5.608%
6	11.095	11.055	11.158	BB	497198	5793674	95.27%	5.866%
7	12.402	12.361	12.465	BB	503049	6081631	100.00%	6.157%
8	12.843	12.805	12.915	BB	385236	4574944	75.23%	4.632%
9	13.013	12.971	13.078	BB	470344	5823276	95.75%	5.896%
10	13.598	13.558	13.658	BB	461828	5769887	94.87%	5.842%
11	14.700	14.621	14.765	BB	423477	5666270	93.17%	5.737%
12	15.719	15.638	15.785	BB	414513	5550320	91.26%	5.619%
13	16.667	16.598	16.741	BB	403789	5490499	90.28%	5.559%
14	17.555	17.478	17.608	BB	397052	5508592	90.58%	5.577%
15	18.386	18.321	18.451	BB	400274	5446732	89.56%	5.515%
16	19.169	19.121	19.225	BB	365901	5360093	88.14%	5.427%
17	19.908	19.851	19.970	BBA	335344	5106343	83.96%	5.170%
18	20.621	20.551	20.681	BB	290594	4893810	80.47%	4.955%
19	21.477	21.391	21.565	BB	210680	4666615	76.73%	4.725%

Sum of corrected areas: 98770711

Aliphatic EPH 021125.M Wed Feb 26 02:46:27 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BS	SDG No.:	Q1415
Lab Sample ID:	PB166923BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049131.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.49		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.1		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.5		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.3		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.3		40 - 140	117%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	61.9		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	53.0		40 - 140	106%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BS	Acq On:	28 Feb 2025 11:37
Client Sample ID:	PB166923BS	Operator:	YP/AJ
Data file:	FD049131.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15506186	97.511	200	ug/ml
Aromatic C12-C16	5.795	8.396	26811280	166.596	300	ug/ml
Aromatic C16-C21	8.397	12.661	49558614	323.154	500	ug/ml
Aromatic C21-C36	12.662	18.073	73636189	514.525	800	ug/ml
Aromatic EPH	4.076	18.073	165512269	1100		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8337130	58.26		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5441864	61.9		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8579131	53.03		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 01 02:17:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.352	8337130	58.257 ug/ml
	Spiked Amount 50.000		Recovery = 116.51%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5441864	61.901 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 123.80%	
11)	S ortho-Terphenyl (SURR)	11.237	8579131	53.031 ug/ml
	Spiked Amount 50.000		Recovery = 106.06%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	7284149	45.739 ug/ml
2)	T Naphthalene (C11.7)	5.693	8222037	51.780 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	8074488	51.862 ug/ml
5)	T Acenaphthylene (C15.06)	8.005	9136899	56.191 ug/ml
7)	T Acenaphthene (C15.5)	8.300	9599893	58.355 ug/ml
8)	T Flouorene (C16.55)	9.079	9673508	61.361 ug/ml
9)	T Phenanthrene (C19.36)	10.467	9815403	65.132 ug/ml
10)	T Anthracene (C19.43)	10.543	9838705	65.145 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10212040	66.177 ug/ml
13)	T Pyrene (C20.8)	12.566	10018958	65.034 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9485151	72.191 ug/ml
15)	T Chrysene (C27.41)	14.479	9302019	57.531 ug/ml
16)	T benzo[b]fluoranthene ...	15.987	9472667	68.845 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9519915	60.275 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.362	9102339	67.059 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.733	8774948	80.300 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	8997450	57.996 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.983	8981700	61.964 ug/ml

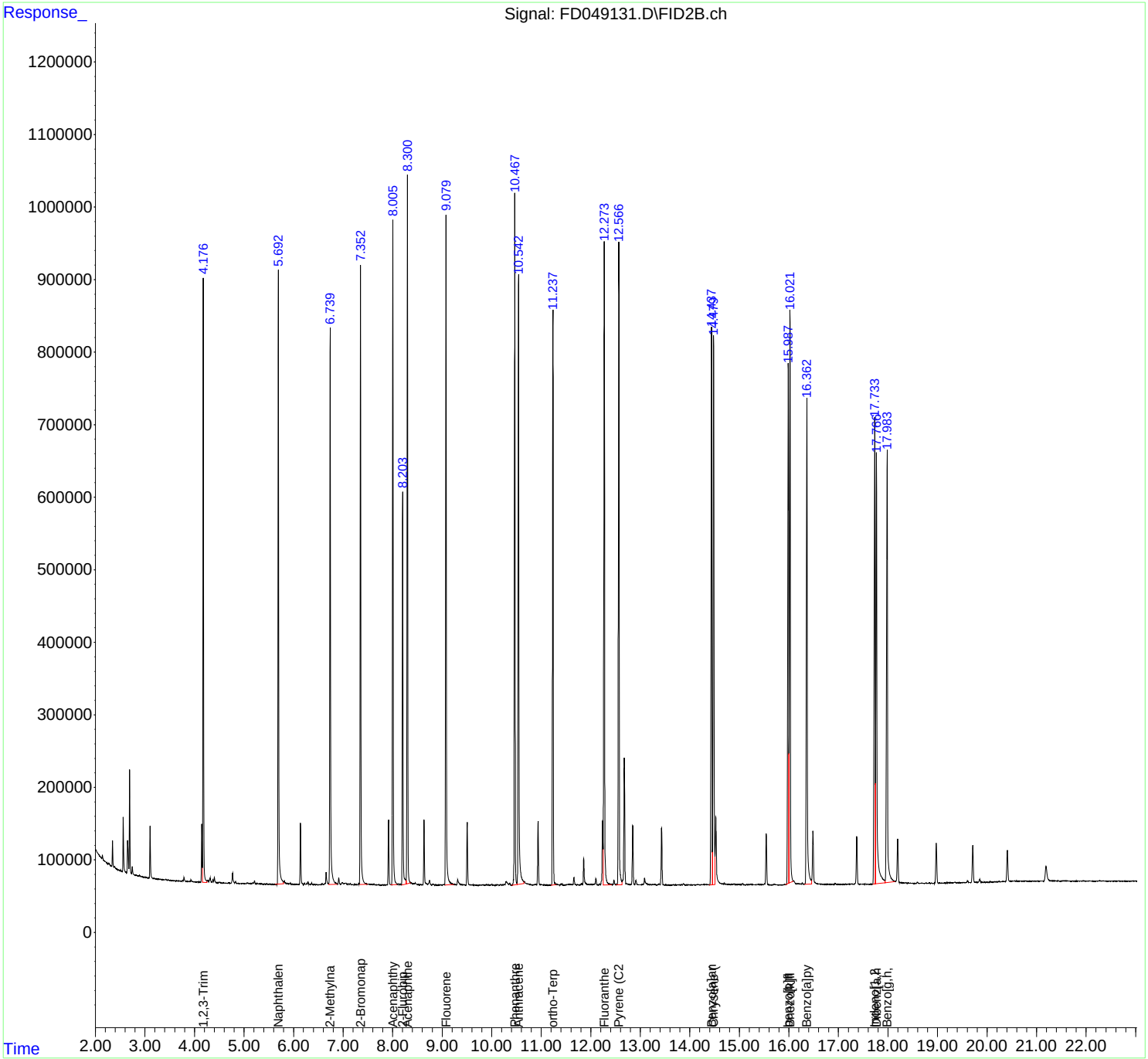
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 01 02:17:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.176	4.160	4.251	VV	832466	7284149	71.33%	3.877%
2	5.693	5.625	5.797	BV	847783	8222037	80.51%	4.376%
3	6.739	6.710	6.875	VV	766284	8074488	79.07%	4.298%
4	7.352	7.328	7.497	VB	853398	8337130	81.64%	4.438%
5	8.005	7.960	8.095	BV	916751	9136899	89.47%	4.863%
6	8.203	8.177	8.272	BV	542452	5441864	53.29%	2.897%
7	8.300	8.272	8.367	VV	975321	9599893	94.01%	5.110%
8	9.079	9.051	9.230	PV	926912	9673508	94.73%	5.149%
9	10.467	10.403	10.513	BV	952424	9815403	96.12%	5.225%
10	10.543	10.513	10.647	VV	840898	9838705	96.34%	5.237%
11	11.237	11.193	11.310	BV	791167	8579131	84.01%	4.567%
12	12.273	12.248	12.427	VB	888617	10212040	100.00%	5.436%
13	12.566	12.507	12.632	VV	889348	10018958	98.11%	5.333%
14	14.437	14.393	14.454	BV	768080	9485151	92.88%	5.049%
15	14.479	14.454	14.507	VV	756410	9302019	91.09%	4.951%
16	15.987	15.930	16.001	BV	716637	9472667	92.76%	5.042%
17	16.022	16.001	16.085	VV	788969	9519915	93.22%	5.067%
18	16.362	16.313	16.457	BV	670089	9102339	89.13%	4.845%
19	17.733	17.690	17.746	BV	643928	8774948	85.93%	4.671%
20	17.767	17.746	17.942	VV	594625	8997450	88.11%	4.789%
21	17.983	17.942	18.143	VV	596917	8981700	87.95%	4.781%

Sum of corrected areas: 187870394

Aromatic EPH 021125.M Sat Mar 01 03:53:48 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BS	SDG No.:	Q1415
Lab Sample ID:	PB166923BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 11:37	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.53		1	0.38	1.00	mg/kg	FC068323.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068323.D
Aliphatic C16-C21	Aliphatic C16-C21	9.57		1	0.30	1.00	mg/kg	FC068323.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068323.D
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1	1.80	2.00	mg/kg	FC068323.D
Aromatic C10-C12	Aromatic C10-C12	6.49		1	0.30	0.67	mg/kg	FD049131.D
Aromatic C12-C16	Aromatic C12-C16	11.1		1	0.34	1.00	mg/kg	FD049131.D
Aromatic C16-C21	Aromatic C16-C21	21.5		1	0.96	1.67	mg/kg	FD049131.D
Aromatic C21-C36	Aromatic C21-C36	34.3		1	2.00	2.66	mg/kg	FD049131.D

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BS	SDG No.:	Q1415
Lab Sample ID:	PB166923BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 11:37	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.53		1	0.38	1.00	mg/kg	FC068323.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068323.D
Aliphatic C16-C21	Aliphatic C16-C21	9.57		1	0.30	1.00	mg/kg	FC068323.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068323.D
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1	1.80	2.00	mg/kg	FC068323.D
Aromatic C10-C12	Aromatic C10-C12	6.49		1	0.30	0.67	mg/kg	FD049131.D
Aromatic C12-C16	Aromatic C12-C16	11.1		1	0.34	1.00	mg/kg	FD049131.D
Aromatic C16-C21	Aromatic C16-C21	21.5		1	0.96	1.67	mg/kg	FD049131.D
Aromatic C21-C36	Aromatic C21-C36	34.3		1	2.00	2.66	mg/kg	FD049131.D
Total AliphaticEPH	Total AliphaticEPH	56.0			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	73.4			3.60	6.00	mg/kg	
Total EPH	Total EPH	129			7.12	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BS	SDG No.:	Q1415
Lab Sample ID:	PB166923BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068323.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.53		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.75		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.57		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166923BS	Acq On:	28 Feb 2025 11:37
Client Sample ID:	PB166923BS	Operator:	YP/AJ
Data file:	FC068323.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	13831446	98.071	300	ug/ml
Aliphatic C12-C16	6.370	9.754	11804868	86.385	200	ug/ml
Aliphatic C16-C21	9.755	13.107	18912877	143.681	300	ug/ml
Aliphatic C21-C28	13.108	16.761	23798182	193.968	400	ug/ml
Aliphatic C28-C40	16.762	21.565	32890476	319.802	600	ug/ml
Aliphatic EPH	3.104	21.565	101237849	841.906		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4376930	38.91		ug/ml
Aliphatic C9-C28	3.104	16.761	68347373	522.105	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 05 05:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.840	4376930	38.915 ug/ml
Spiked Amount	50.000		Recovery =	77.83%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3770437	26.802 ug/ml
2) T	n-Decane (C10)	4.262	4690075	33.105 ug/ml
4) T	n-Dodecane (C12)	6.270	5370934	38.157 ug/ml
6) T	n-Tetradecane (C14)	8.059	5778269	42.380 ug/ml
7) T	n-Hexadecane (C16)	9.655	6026599	44.001 ug/ml
8) T	n-Octadecane (C18)	11.094	6267228	45.827 ug/ml
10) T	n-Eicosane (C20)	12.400	6468032	49.645 ug/ml
11) T	n-Heneicosane (C21)	13.011	6177617	48.320 ug/ml
13) T	n-Docosane (C22)	13.595	6141972	48.735 ug/ml
14) T	n-Tetracosane (C24)	14.696	6008487	48.309 ug/ml
15) T	n-Hexacosane (C26)	15.715	5879209	48.352 ug/ml
16) T	n-Octacosane (C28)	16.664	5728664	48.234 ug/ml
17) T	n-Tricontane (C30)	17.550	5730289	47.607 ug/ml
18) T	n-Dotriacontane (C32)	18.381	5695730	49.073 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5652338	52.308 ug/ml
20) T	n-Hexatriacontane (C36)	19.903	5406820	56.222 ug/ml
21) T	n-Octatriacontane (C38)	20.615	5240074	58.289 ug/ml
22) T	n-Tetracontane (C40)	21.470	5034272	58.186 ug/ml

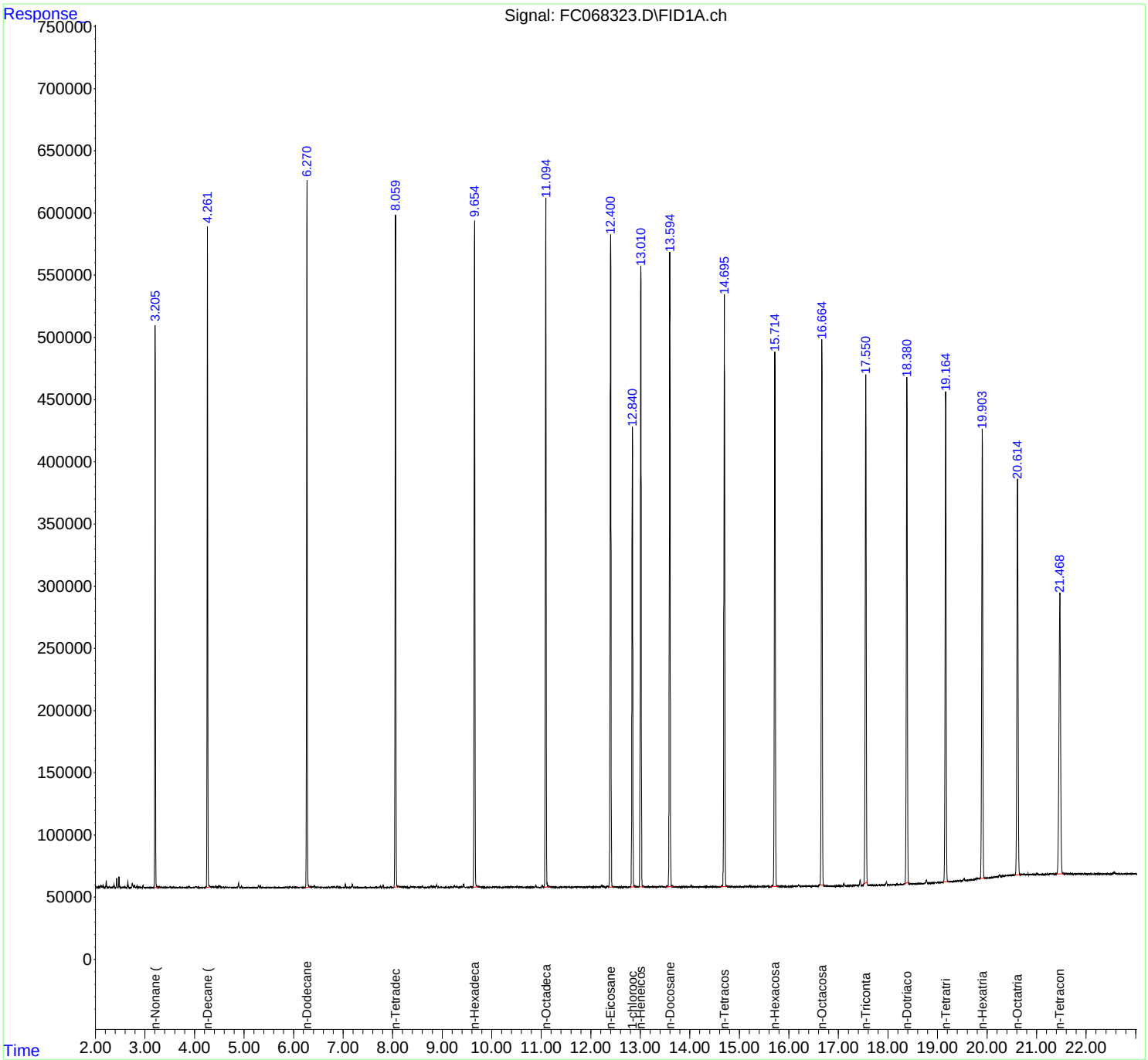
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 05 05:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.205	3.178	3.268	BB	449086	3770437	58.29%	3.570%
2	4.262	4.228	4.321	BB	526418	4690075	72.51%	4.441%
3	6.270	6.228	6.331	BB	569210	5370934	83.04%	5.085%
4	8.059	8.028	8.124	BB	538627	5778269	89.34%	5.471%
5	9.655	9.614	9.721	BB	535914	6026599	93.18%	5.706%
6	11.094	11.054	11.164	BB	550618	6267228	96.90%	5.934%
7	12.400	12.364	12.461	BB	527788	6468032	100.00%	6.124%
8	12.840	12.794	12.901	BB	374039	4376930	67.67%	4.144%
9	13.011	12.968	13.071	BB	499069	6177617	95.51%	5.849%
10	13.595	13.514	13.658	BB	506611	6141972	94.96%	5.815%
11	14.696	14.614	14.754	BB	474250	6008487	92.90%	5.689%
12	15.715	15.634	15.778	BB	426830	5879209	90.90%	5.567%
13	16.664	16.598	16.728	BB	438374	5768514	89.18%	5.462%
14	17.550	17.488	17.608	BB	407922	5811305	89.85%	5.502%
15	18.381	18.304	18.448	BB	407994	5745667	88.83%	5.440%
16	19.164	19.121	19.224	BB	392230	5652338	87.39%	5.352%
17	19.903	19.851	19.948	BB	359474	5406820	83.59%	5.119%
18	20.615	20.551	20.678	BB	318753	5240074	81.01%	4.961%
19	21.470	21.391	21.554	BB	221575	5034272	77.83%	4.767%

Sum of corrected areas: 105614773

Aliphatic EPH 021125.M Sat Mar 01 01:23:14 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166863BSD		SDG No.:	Q1415	
Lab Sample ID:	PB166863BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049103.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	165		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	302		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	581		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	909		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.8		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.6		40 - 140	113%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	51.1		40 - 140	102%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166863BSD	Acq On:	25 Feb 2025 16:59
Client Sample ID:	PB166863BSD	Operator:	YP/AJ
Data file:	FD049103.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	13160296	82.758	200	ug/ml
Aromatic C12-C16	5.794	8.396	24332513	151.194	300	ug/ml
Aromatic C16-C21	8.397	12.660	44578557	290.68	500	ug/ml
Aromatic C21-C36	12.661	18.070	65092191	454.825	800	ug/ml
Aromatic EPH	4.075	18.070	147163557	979.458		ug/ml
2-Bromonaphthalene (SURR)	7.354	7.354	8562419	59.83		ug/ml
2-Flurobiphenyl (SURR)	8.204	8.204	4975359	56.59		ug/ml
ortho-Terphenyl (SURR)	11.239	11.239	8267824	51.11		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049103.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:59
Operator : YP/AJ
Sample : PB166863BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166863BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File: autoint1.e
Quant Time: Feb 26 01:33:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.354	8562419	59.831 ug/ml
Spiked Amount	50.000		Recovery =	119.66%
6) S	2-Flurobiphenyl (SURR)	8.204	4975359	56.595 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	113.19%
11) S	ortho-Terphenyl (SURR)	11.239	8267824	51.107 ug/ml
Spiked Amount	50.000		Recovery =	102.21%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.178	6036938	37.908 ug/ml
2) T	Naphthalene (C11.7)	5.694	7123358	44.861 ug/ml
3) T	2-Methylnaphthalene (...	6.741	7238167	46.490 ug/ml
5) T	Acenaphthylene (C15.06)	8.007	8331286	51.236 ug/ml
7) T	Acenaphthene (C15.5)	8.302	8763060	53.268 ug/ml
8) T	Flouorene (C16.55)	9.081	8780584	55.697 ug/ml
9) T	Phenanthrene (C19.36)	10.469	8838259	58.648 ug/ml
10) T	Anthracene (C19.43)	10.545	8995903	59.564 ug/ml
12) T	Fluoranthene (C21.85)	12.273	9090301	58.907 ug/ml
13) T	Pyrene (C20.8)	12.566	8873510	57.598 ug/ml
14) T	Benzo[a]anthracene (C...	14.438	8339919	63.475 ug/ml
15) T	Chrysene (C27.41)	14.480	8235263	50.934 ug/ml
16) T	benzo[b]fluoranthene ...	15.987	8292228	60.266 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.021	8408302	53.237 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.362	8013250	59.035 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.734	7573771	69.308 ug/mlm
20) T	Dibenz[a,h]anthracene...	17.767	8097331	52.194 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.984	8000939	55.198 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022525AR\
Data File : FD049103.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:59
Operator : YP/AJ
Sample : PB166863BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

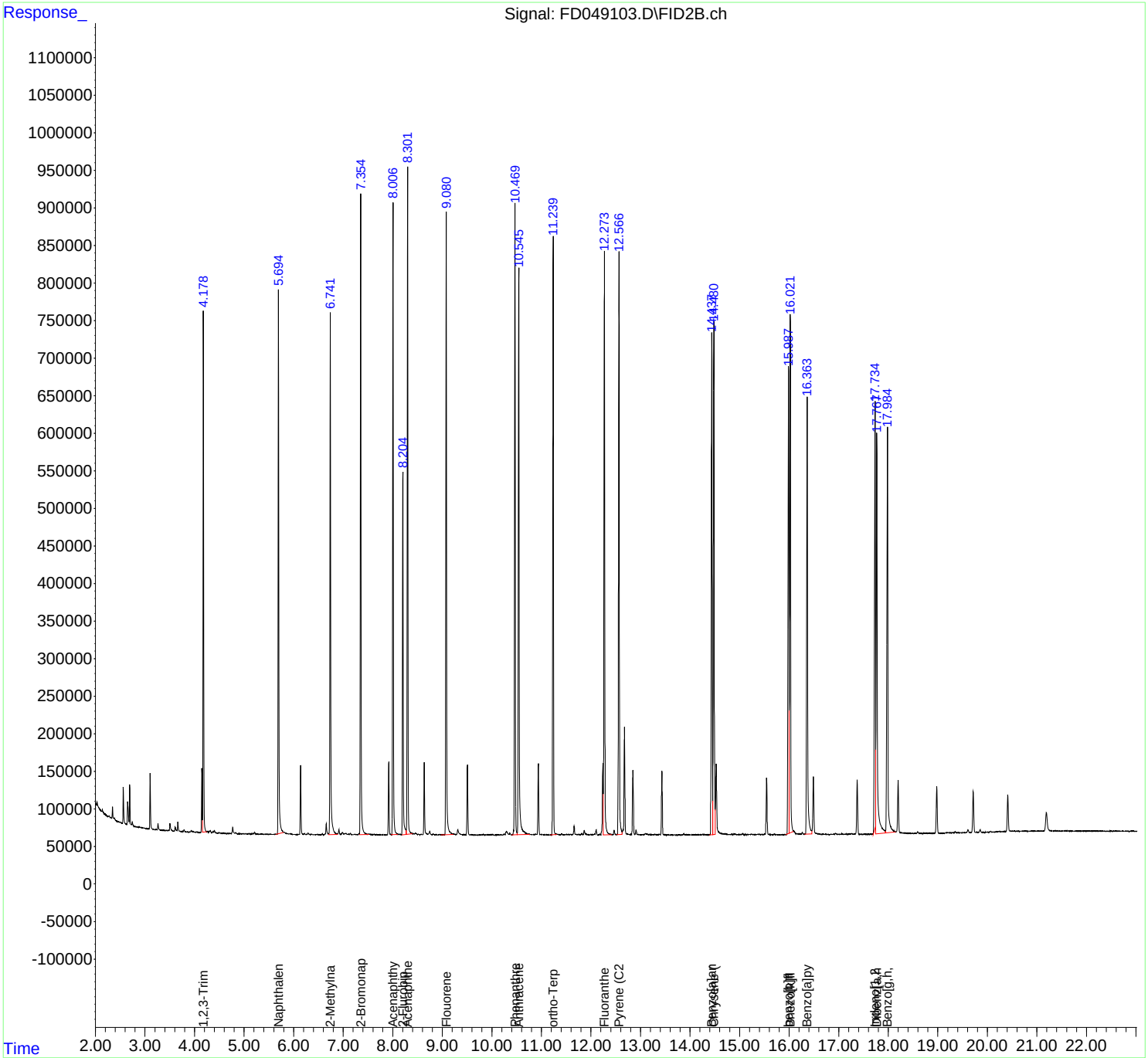
Instrument :
FID_D
ClientSampleId :
PB166863BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Integration File: autoint1.e
Quant Time: Feb 26 01:33:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Instrument :
FID_D
ClientSampleId :
PB166863BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/26/2025
Supervised By :Ankita Jodhani 02/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD02252
Data File : FD049103.D
Signal(s) : FID2B.ch
Acq On : 25 Feb 2025 16:59
Sample : PB166863BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.178	4.161	4.252	VV	692403	6036938	66.41%	3.573%
2	5.694	5.639	5.799	BV	723665	7123358	78.36%	4.216%
3	6.741	6.712	6.885	VV	691652	7238167	79.63%	4.284%
4	7.354	7.329	7.524	VB	849678	8562419	94.19%	5.067%
5	8.007	7.960	8.102	BV	842423	8331286	91.65%	4.931%
6	8.204	8.180	8.273	BV	482492	4975359	54.73%	2.945%
7	8.302	8.273	8.402	VB	888349	8763060	96.40%	5.186%
8	9.081	8.969	9.223	BV	828620	8780584	96.59%	5.197%
9	10.469	10.399	10.514	BV	840553	8838259	97.23%	5.231%
10	10.545	10.514	10.772	VB	757459	8995903	98.96%	5.324%
11	11.239	11.180	11.312	BV	795698	8267824	90.95%	4.893%
12	12.273	12.250	12.420	VB	776498	9090301	100.00%	5.380%
13	12.566	12.514	12.629	BV	777629	8873510	97.62%	5.252%
14	14.438	14.394	14.456	BV	668954	8339919	91.75%	4.936%
15	14.480	14.456	14.507	VV	683605	8235263	90.59%	4.874%
16	15.987	15.930	16.002	BV	621691	8292228	91.22%	4.908%
17	16.021	16.002	16.089	VV	691504	8408302	92.50%	4.976%
18	16.362	16.310	16.457	BV	580003	8013250	88.15%	4.742%
19	17.733	17.690	17.747	BV	575539	7704959	84.76%	4.560%
20	17.767	17.747	17.944	VV	531539	8097331	89.08%	4.792%
21	17.984	17.944	18.152	VV	538637	8000939	88.02%	4.735%
			Sum of corrected areas:			168969159		

Aromatic EPH 021125.M Wed Feb 26 01:56:56 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BSD	SDG No.:	Q1415
Lab Sample ID:	PB166863BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:43	02/25/25 16:59	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	175		1	5.76	30.0	ug/l	FC068298.D
Aliphatic C12-C16	Aliphatic C12-C16	160		1	3.61	20.0	ug/l	FC068298.D
Aliphatic C16-C21	Aliphatic C16-C21	268		1	5.14	30.0	ug/l	FC068298.D
Aliphatic C21-C28	Aliphatic C21-C28	364		1	8.97	40.0	ug/l	FC068298.D
Aliphatic C28-C40	Aliphatic C28-C40	602		1	17.0	60.0	ug/l	FC068298.D
Aromatic C10-C12	Aromatic C10-C12	165		1	3.32	20.0	ug/l	FD049103.D
Aromatic C12-C16	Aromatic C12-C16	302		1	3.69	30.0	ug/l	FD049103.D
Aromatic C16-C21	Aromatic C16-C21	581		1	12.7	50.0	ug/l	FD049103.D
Aromatic C21-C36	Aromatic C21-C36	909		1	25.2	80.0	ug/l	FD049103.D
Total AliphaticEPH	Total AliphaticEPH	1570			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1960			44.9	180	ug/l	
Total EPH	Total EPH	3530			85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166863BSD	SDG No.:	Q1415
Lab Sample ID:	PB166863BSD	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
02/25/25 08:43	02/25/25 16:59	PB166863

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	175		1	5.76	30.0	ug/l	FC068298.D
Aliphatic C12-C16	Aliphatic C12-C16	160		1	3.61	20.0	ug/l	FC068298.D
Aliphatic C16-C21	Aliphatic C16-C21	268		1	5.14	30.0	ug/l	FC068298.D
Aliphatic C21-C28	Aliphatic C21-C28	364		1	8.97	40.0	ug/l	FC068298.D
Aliphatic C28-C40	Aliphatic C28-C40	602		1	17.0	60.0	ug/l	FC068298.D
Aromatic C10-C12	Aromatic C10-C12	165		1	3.32	20.0	ug/l	FD049103.D
Aromatic C12-C16	Aromatic C12-C16	302		1	3.69	30.0	ug/l	FD049103.D
Aromatic C16-C21	Aromatic C16-C21	581		1	12.7	50.0	ug/l	FD049103.D
Aromatic C21-C36	Aromatic C21-C36	909		1	25.2	80.0	ug/l	FD049103.D
Total AliphaticEPH	Total AliphaticEPH	1570			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1960			44.9	180	ug/l	
Total EPH	Total EPH	3530			85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166863BSD		SDG No.:	Q1415	
Lab Sample ID:	PB166863BSD		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068298.D	1	02/25/25	02/25/25	PB166863

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	175		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	160		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	268		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	364		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	602		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.0		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166863BSD	Acq On:	25 Feb 2025 16:59
Client Sample ID:	PB166863BSD	Operator:	YP/AJ
Data file:	FC068298.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.105	6.371	12403499	87.946	300	ug/ml
Aliphatic C12-C16	6.372	9.756	10954326	80.161	200	ug/ml
Aliphatic C16-C21	9.757	13.110	17672217	134.256	300	ug/ml
Aliphatic C21-C28	13.111	16.764	22341891	182.098	400	ug/ml
Aliphatic C28-C40	16.765	21.571	31001598	301.436	600	ug/ml
Aliphatic EPH	3.105	21.571	94373531	785.897		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.843	12.843	4496924	39.98		ug/ml
Aliphatic C9-C28	3.105	16.764	63371933	484.461	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068298.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:59
Operator : YP/AJ
Sample : PB166863BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

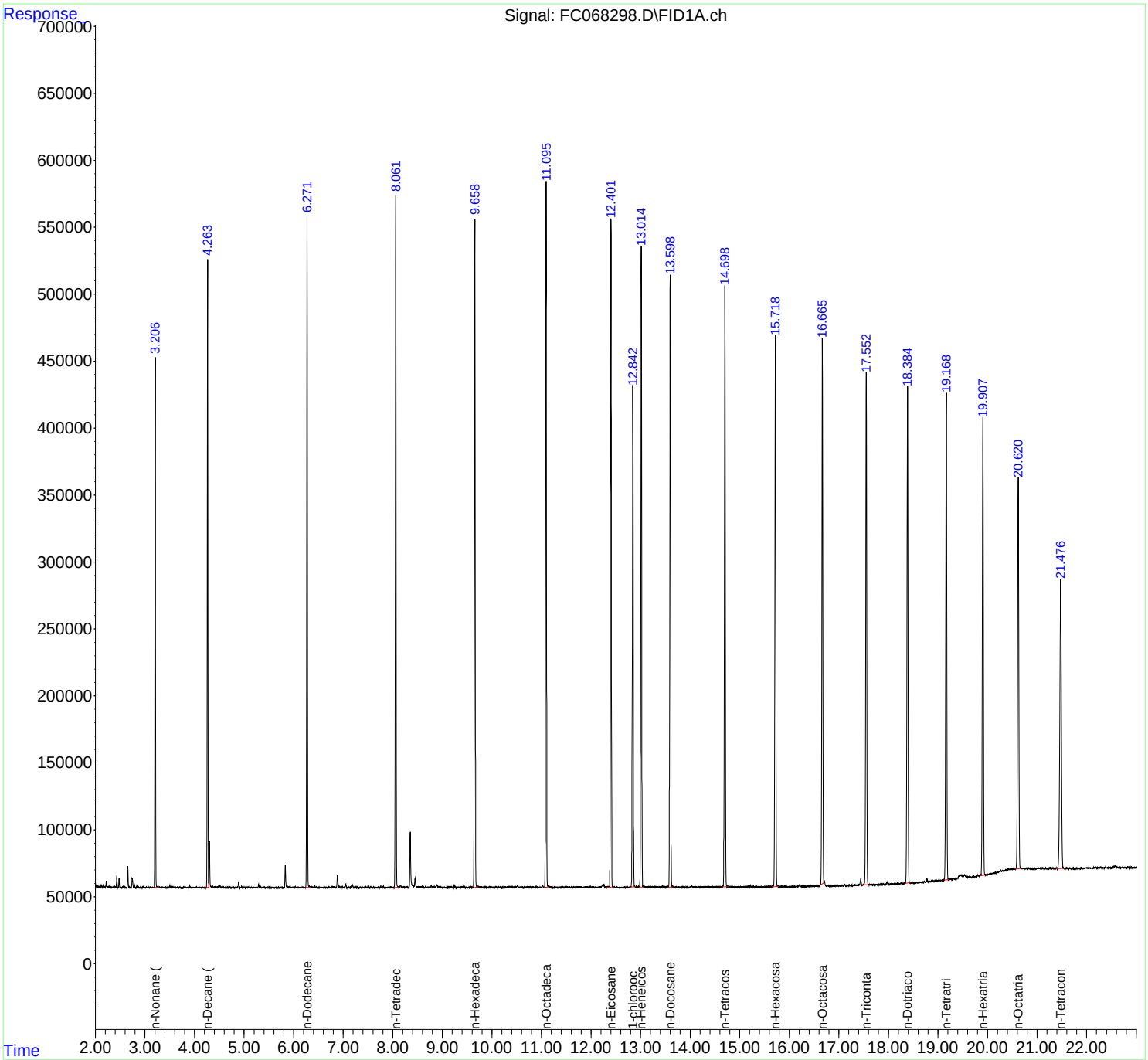
	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.843	4496924	39.982 ug/ml
Spiked Amount	50.000		Recovery =	79.96%
	Target Compounds			
1) T	n-Nonane (C9)	3.207	3285660	23.356 ug/ml
2) T	n-Decane (C10)	4.263	4185108	29.541 ug/ml
4) T	n-Dodecane (C12)	6.272	4932731	35.044 ug/ml
6) T	n-Tetradecane (C14)	8.061	5376672	39.435 ug/ml
7) T	n-Hexadecane (C16)	9.657	5577654	40.723 ug/ml
8) T	n-Octadecane (C18)	11.096	5804058	42.440 ug/ml
10) T	n-Eicosane (C20)	12.402	6071641	46.602 ug/ml
11) T	n-Heneicosane (C21)	13.013	5796518	45.339 ug/ml
13) T	n-Docosane (C22)	13.598	5740028	45.546 ug/ml
14) T	n-Tetracosane (C24)	14.700	5626795	45.240 ug/ml
15) T	n-Hexacosane (C26)	15.719	5512084	45.332 ug/ml
16) T	n-Octacosane (C28)	16.667	5352082	45.064 ug/ml
17) T	n-Tricontane (C30)	17.552	5468791	45.435 ug/mlm
18) T	n-Dotriacontane (C32)	18.384	5422072	46.715 ug/mlm
19) T	n-Tetratriacontane (C34)	19.168	5357393	49.579 ug/ml
20) T	n-Hexatriacontane (C36)	19.907	5113233	53.169 ug/ml
21) T	n-Octatriacontane (C38)	20.620	4922998	54.762 ug/ml
22) T	n-Tetracontane (C40)	21.476	4711323	54.453 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068298.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:59
Operator : YP/AJ
Sample : PB166863BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 05 04:25:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022525AL\
Data File : FC068298.D
Signal(s) : FID1A.ch
Acq On : 25 Feb 2025 16:59
Sample : PB166863BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.207	3.178	3.271	BB	394144	3285660	54.11%	3.323%
2	4.264	4.231	4.286	BV	465931	4185108	68.93%	4.233%
3	6.272	6.234	6.334	BB	496576	4932731	81.24%	4.989%
4	8.061	8.028	8.124	BB	517361	5376672	88.55%	5.438%
5	9.657	9.621	9.721	BB	499262	5577654	91.86%	5.641%
6	11.096	11.054	11.158	BB	525903	5804058	95.59%	5.870%
7	12.402	12.311	12.464	BB	496808	6071641	100.00%	6.141%
8	12.843	12.778	12.904	BB	373394	4496924	74.06%	4.548%
9	13.013	12.971	13.078	BB	475226	5796518	95.47%	5.863%
10	13.598	13.558	13.661	BB	454418	5740028	94.54%	5.806%
11	14.700	14.624	14.764	BB	444140	5626795	92.67%	5.691%
12	15.719	15.641	15.781	BB	410608	5512084	90.78%	5.575%
13	16.667	16.598	16.744	BB	405362	5462984	89.98%	5.525%
14	17.553	17.484	17.614	BB	383316	5475455	90.18%	5.538%
15	18.386	18.328	18.444	BB	371607	5421196	89.29%	5.483%
16	19.168	19.121	19.231	BB	360673	5357393	88.24%	5.419%
17	19.907	19.851	19.969	BBA	342289	5113233	84.22%	5.172%
18	20.620	20.551	20.684	BB	291420	4922998	81.08%	4.979%
19	21.476	21.391	21.554	BB	215030	4711323	77.60%	4.765%
			Sum of corrected areas:			98870452		

Aliphatic EPH 021125.M Wed Feb 26 02:47:32 2025

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BSD	SDG No.:	Q1415
Lab Sample ID:	PB166923BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049132.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.56		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.3		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.8		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.9		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.0		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	63.0		40 - 140	126%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	53.6		40 - 140	107%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BSD	Acq On:	28 Feb 2025 12:13
Client Sample ID:	PB166923BSD	Operator:	YP/AJ
Data file:	FD049132.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15663141	98.498	200	ug/ml
Aromatic C12-C16	5.795	8.396	27228831	169.191	300	ug/ml
Aromatic C16-C21	8.397	12.661	50286158	327.898	500	ug/ml
Aromatic C21-C36	12.662	18.073	74965222	523.812	800	ug/ml
Aromatic EPH	4.076	18.073	168143352	1120		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8675284	53.63		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8444315	59.01		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5539761	63.01		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 01 02:17:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.352	8444315	59.006 ug/ml
	Spiked Amount 50.000		Recovery = 118.01%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5539761	63.015 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 126.03%	
11)	S ortho-Terphenyl (SURR)	11.237	8675284	53.626 ug/ml
	Spiked Amount 50.000		Recovery = 107.25%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.177	7363423	46.237 ug/ml
2)	T Naphthalene (C11.7)	5.693	8299718	52.269 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	8179915	52.539 ug/ml
5)	T Acenaphthylene (C15.06)	8.006	9241947	56.837 ug/ml
7)	T Acenaphthene (C15.5)	8.301	9806969	59.614 ug/ml
8)	T Flouorene (C16.55)	9.079	9794107	62.126 ug/ml
9)	T Phenanthrene (C19.36)	10.467	9953645	66.049 ug/ml
10)	T Anthracene (C19.43)	10.543	10019118	66.339 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10371581	67.210 ug/ml
13)	T Pyrene (C20.8)	12.567	10147707	65.869 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9644699	73.405 ug/ml
15)	T Chrysene (C27.41)	14.480	9454131	58.472 ug/ml
16)	T benzo[b]fluoranthene ...	15.988	9628743	69.979 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9681524	61.298 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.364	9238467	68.062 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.734	8949996	81.902 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	9240484	59.562 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.985	9127178	62.967 ug/ml

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

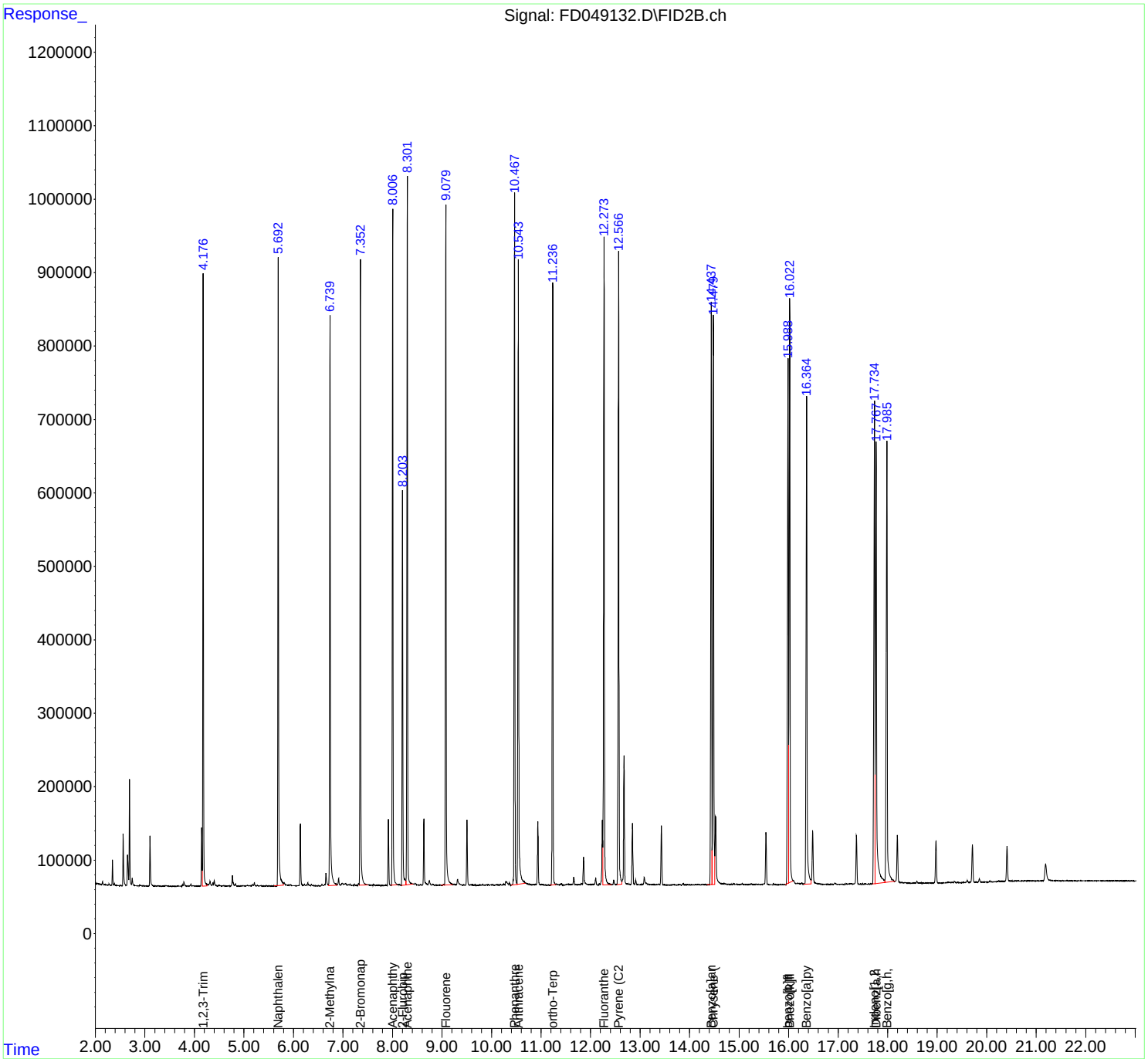
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 01 02:17:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.177	4.160	4.254	VV	833763	7363423	71.00%	3.859%
2	5.693	5.614	5.796	BV	854382	8299718	80.02%	4.350%
3	6.739	6.710	6.882	VV	774369	8179915	78.87%	4.287%
4	7.352	7.328	7.502	VV	850747	8444315	81.42%	4.426%
5	8.006	7.960	8.097	BV	918197	9241947	89.11%	4.844%
6	8.203	8.174	8.272	BV	537561	5539761	53.41%	2.903%
7	8.301	8.272	8.420	VB	960907	9806969	94.56%	5.140%
8	9.079	8.979	9.222	BV	923928	9794107	94.43%	5.133%
9	10.467	10.394	10.515	PV	942889	9953645	95.97%	5.217%
10	10.543	10.515	10.685	VV	852864	10019118	96.60%	5.251%
11	11.237	11.182	11.305	BV	818909	8675284	83.64%	4.547%
12	12.273	12.248	12.427	VB	878971	10371581	100.00%	5.436%
13	12.567	12.525	12.631	BV	861958	10147707	97.84%	5.318%
14	14.437	14.350	14.455	BV	792508	9644699	92.99%	5.055%
15	14.480	14.455	14.507	VV	775232	9454131	91.15%	4.955%
16	15.988	15.930	16.001	BV	716576	9628743	92.84%	5.046%
17	16.022	16.001	16.089	VV	793985	9681524	93.35%	5.074%
18	16.364	16.310	16.457	BV	664714	9238467	89.07%	4.842%
19	17.734	17.692	17.746	BV	656393	8949996	86.29%	4.691%
20	17.767	17.746	17.944	VV	600565	9240484	89.09%	4.843%
21	17.985	17.944	18.144	VV	600259	9127178	88.00%	4.784%
			Sum of corrected areas:			190802711		

Aromatic EPH 021125.M Sat Mar 01 03:55:20 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BSD	SDG No.:	Q1415
Lab Sample ID:	PB166923BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 12:13	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.56		1	0.38	1.00	mg/kg	FC068324.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068324.D
Aliphatic C16-C21	Aliphatic C16-C21	9.54		1	0.30	1.00	mg/kg	FC068324.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068324.D
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1	1.80	2.00	mg/kg	FC068324.D
Aromatic C10-C12	Aromatic C10-C12	6.56		1	0.30	0.67	mg/kg	FD049132.D
Aromatic C12-C16	Aromatic C12-C16	11.3		1	0.34	1.00	mg/kg	FD049132.D
Aromatic C16-C21	Aromatic C16-C21	21.8		1	0.96	1.67	mg/kg	FD049132.D
Aromatic C21-C36	Aromatic C21-C36	34.9		1	2.00	2.66	mg/kg	FD049132.D

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BSD	SDG No.:	Q1415
Lab Sample ID:	PB166923BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 12:13	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.56		1	0.38	1.00	mg/kg	FC068324.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068324.D
Aliphatic C16-C21	Aliphatic C16-C21	9.54		1	0.30	1.00	mg/kg	FC068324.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068324.D
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1	1.80	2.00	mg/kg	FC068324.D
Aromatic C10-C12	Aromatic C10-C12	6.56		1	0.30	0.67	mg/kg	FD049132.D
Aromatic C12-C16	Aromatic C12-C16	11.3		1	0.34	1.00	mg/kg	FD049132.D
Aromatic C16-C21	Aromatic C16-C21	21.8		1	0.96	1.67	mg/kg	FD049132.D
Aromatic C21-C36	Aromatic C21-C36	34.9		1	2.00	2.66	mg/kg	FD049132.D
Total AliphaticEPH	Total AliphaticEPH	56.1			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	74.6			3.60	6.00	mg/kg	
Total EPH	Total EPH	131			7.12	12.0	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166923BSD	SDG No.:	Q1415
Lab Sample ID:	PB166923BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068324.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.56		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.75		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.54		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.7		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166923BSD	Acq On:	28 Feb 2025 12:13
Client Sample ID:	PB166923BSD	Operator:	YP/AJ
Data file:	FC068324.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	13889956	98.486	300	ug/ml
Aliphatic C12-C16	6.370	9.754	11796061	86.32	200	ug/ml
Aliphatic C16-C21	9.755	13.107	18839655	143.125	300	ug/ml
Aliphatic C21-C28	13.108	16.761	23724700	193.369	400	ug/ml
Aliphatic C28-C40	16.762	21.565	33036052	321.217	600	ug/ml
Aliphatic EPH	3.104	21.565	101286424	842.517		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4356774	38.74		ug/ml
Aliphatic C9-C28	3.104	16.761	68250372	521.3	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 05 05:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.840	4356774	38.736 ug/ml
Spiked Amount	50.000		Recovery =	77.47%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3794951	26.976 ug/ml
2) T	n-Decane (C10)	4.262	4712176	33.261 ug/ml
4) T	n-Dodecane (C12)	6.270	5382829	38.242 ug/ml
6) T	n-Tetradecane (C14)	8.059	5779518	42.389 ug/ml
7) T	n-Hexadecane (C16)	9.655	6016543	43.927 ug/ml
8) T	n-Octadecane (C18)	11.093	6243297	45.652 ug/ml
10) T	n-Eicosane (C20)	12.399	6441586	49.442 ug/ml
11) T	n-Heneicosane (C21)	13.010	6154772	48.142 ug/ml
13) T	n-Docosane (C22)	13.595	6104328	48.436 ug/ml
14) T	n-Tetracosane (C24)	14.697	5990514	48.164 ug/ml
15) T	n-Hexacosane (C26)	15.715	5861152	48.203 ug/ml
16) T	n-Octacosane (C28)	16.664	5725382	48.207 ug/ml
17) T	n-Tricontane (C30)	17.551	5737111	47.664 ug/ml
18) T	n-Dotriacontane (C32)	18.381	5715622	49.244 ug/ml
19) T	n-Tetratriacontane (C34)	19.163	5668029	52.453 ug/ml
20) T	n-Hexatriacontane (C36)	19.902	5431820	56.482 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5265474	58.572 ug/ml
22) T	n-Tetracontane (C40)	21.470	5078129	58.693 ug/ml

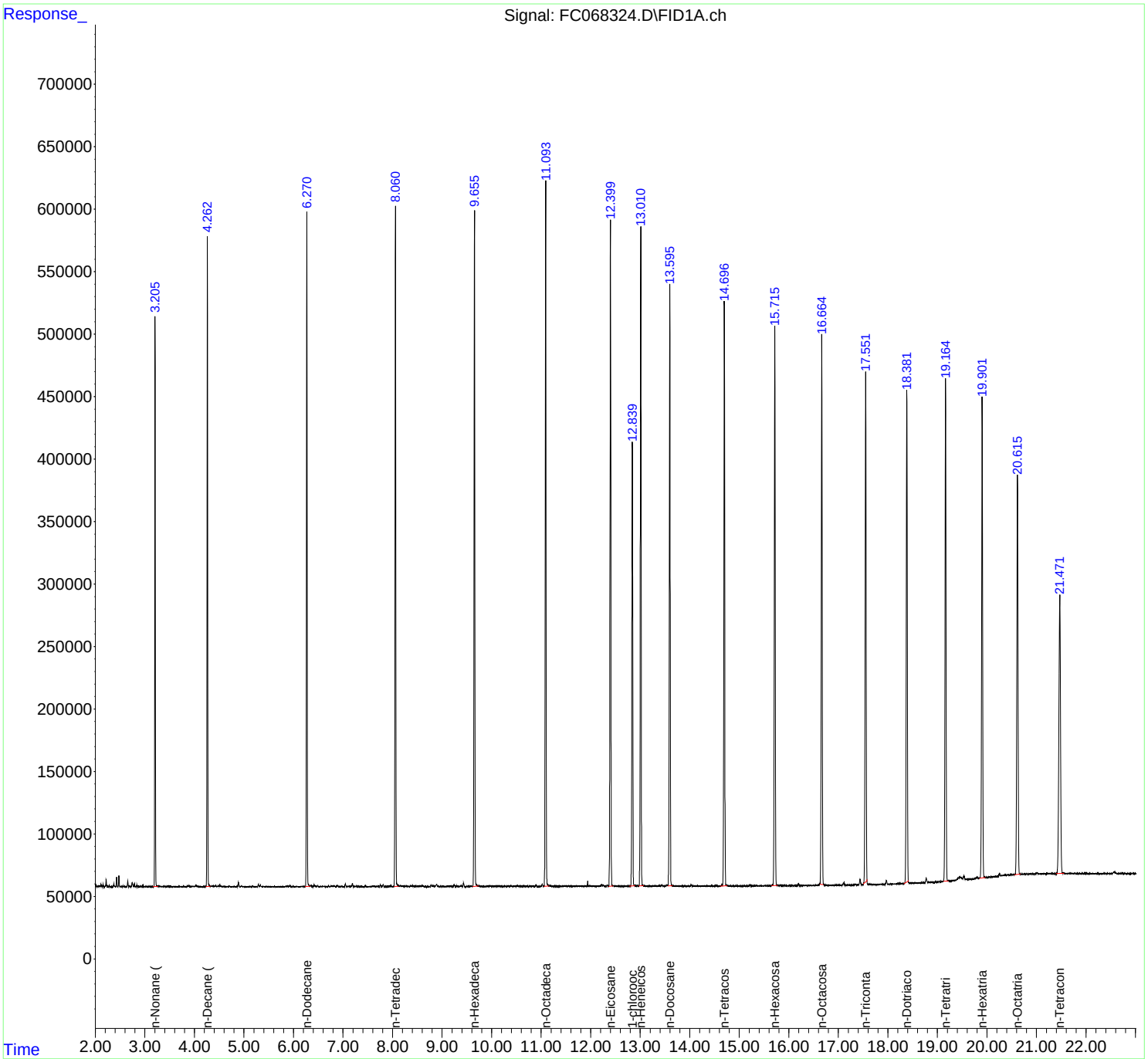
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 05 05:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.205	3.168	3.268	BB	454324	3794951	58.91%	3.592%
2	4.262	4.231	4.325	BB	517887	4712176	73.15%	4.460%
3	6.270	6.231	6.338	BB	544816	5382829	83.56%	5.095%
4	8.059	8.028	8.128	BB	537206	5779518	89.72%	5.471%
5	9.655	9.615	9.731	BB	535033	6016543	93.40%	5.695%
6	11.093	11.051	11.165	BB	558187	6243297	96.92%	5.910%
7	12.399	12.358	12.451	BB	523836	6441586	100.00%	6.097%
8	12.840	12.778	12.898	BB	356315	4356774	67.64%	4.124%
9	13.010	12.968	13.071	BB	522913	6154772	95.55%	5.826%
10	13.595	13.558	13.658	BB	481011	6104328	94.76%	5.778%
11	14.697	14.618	14.758	BB	467416	5990514	93.00%	5.671%
12	15.715	15.648	15.775	BB	442423	5861152	90.99%	5.548%
13	16.664	16.598	16.728	BB	439005	5768706	89.55%	5.461%
14	17.551	17.491	17.608	BB	410276	5827258	90.46%	5.516%
15	18.381	18.315	18.445	BB	395852	5765342	89.50%	5.457%
16	19.163	19.121	19.221	BB	404106	5668029	87.99%	5.365%
17	19.902	19.851	19.968	BB	380790	5431820	84.32%	5.142%
18	20.616	20.551	20.675	BB	316762	5265474	81.74%	4.984%
19	21.470	21.391	21.555	BB	222869	5078129	78.83%	4.807%

Sum of corrected areas: 105643198

Aliphatic EPH 021125.M Sat Mar 01 01:23:32 2025

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049142.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.80		0.43	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16	17.2		0.48	1.42	mg/kg
Aromatic C16-C21	Aromatic C16-C21	35.7		1.36	2.37	mg/kg
Aromatic C21-C36	Aromatic C21-C36	57.2		2.84	3.78	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.0		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	62.2		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.3		40 - 140	67%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1421-02	Acq On:	28 Feb 2025 18:56
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FD049142.D	Misc:	
Instrument:	FID_D	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	16467986	103.559	200	ug/ml
Aromatic C12-C16	5.795	8.396	29311275	182.13	300	ug/ml
Aromatic C16-C21	8.397	12.661	57903456	377.567	500	ug/ml
Aromatic C21-C36	12.662	18.073	86473438	604.224	800	ug/ml
Aromatic EPH	4.076	18.073	190156155	1270		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8441841	58.99		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5467908	62.2		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	5392113	33.33		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 01 02:21:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.352	8441841	58.989 ug/ml
Spiked Amount	50.000		Recovery =	117.98%
6) S	2-Flurobiphenyl (SURR)	8.203	5467908	62.198 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	124.40%
11) S	ortho-Terphenyl (SURR)	11.234	5392113	33.331 ug/ml
Spiked Amount	50.000		Recovery =	66.66%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	7161833	44.971 ug/ml
2) T	Naphthalene (C11.7)	5.693	7880512	49.629 ug/ml
3) T	2-Methylnaphthalene (...	6.739	7723846	49.609 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	9044713	55.624 ug/ml
7) T	Acenaphthene (C15.5)	8.300	9678387	58.832 ug/ml
8) T	Flouorene (C16.55)	9.079	9845850	62.454 ug/ml
9) T	Phenanthrene (C19.36)	10.468	10158364	67.407 ug/ml
10) T	Anthracene (C19.43)	10.543	10371977	68.676 ug/ml
12) T	Fluoranthene (C21.85)	12.273	10603708	68.715 ug/ml
13) T	Pyrene (C20.8)	12.566	10302701	66.875 ug/ml
14) T	Benzo[a]anthracene (C...	14.438	9819357	74.734 ug/ml
15) T	Chrysene (C27.41)	14.480	9593320	59.333 ug/ml
16) T	benzo[b]fluoranthene ...	15.988	9767406	70.987 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	9783217	61.942 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.364	9405556	69.293 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.734	9336608	85.440 ug/ml
20) T	Dibenz[a,h]anthracene...	17.769	9340051	60.204 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.986	9206882	63.517 ug/ml

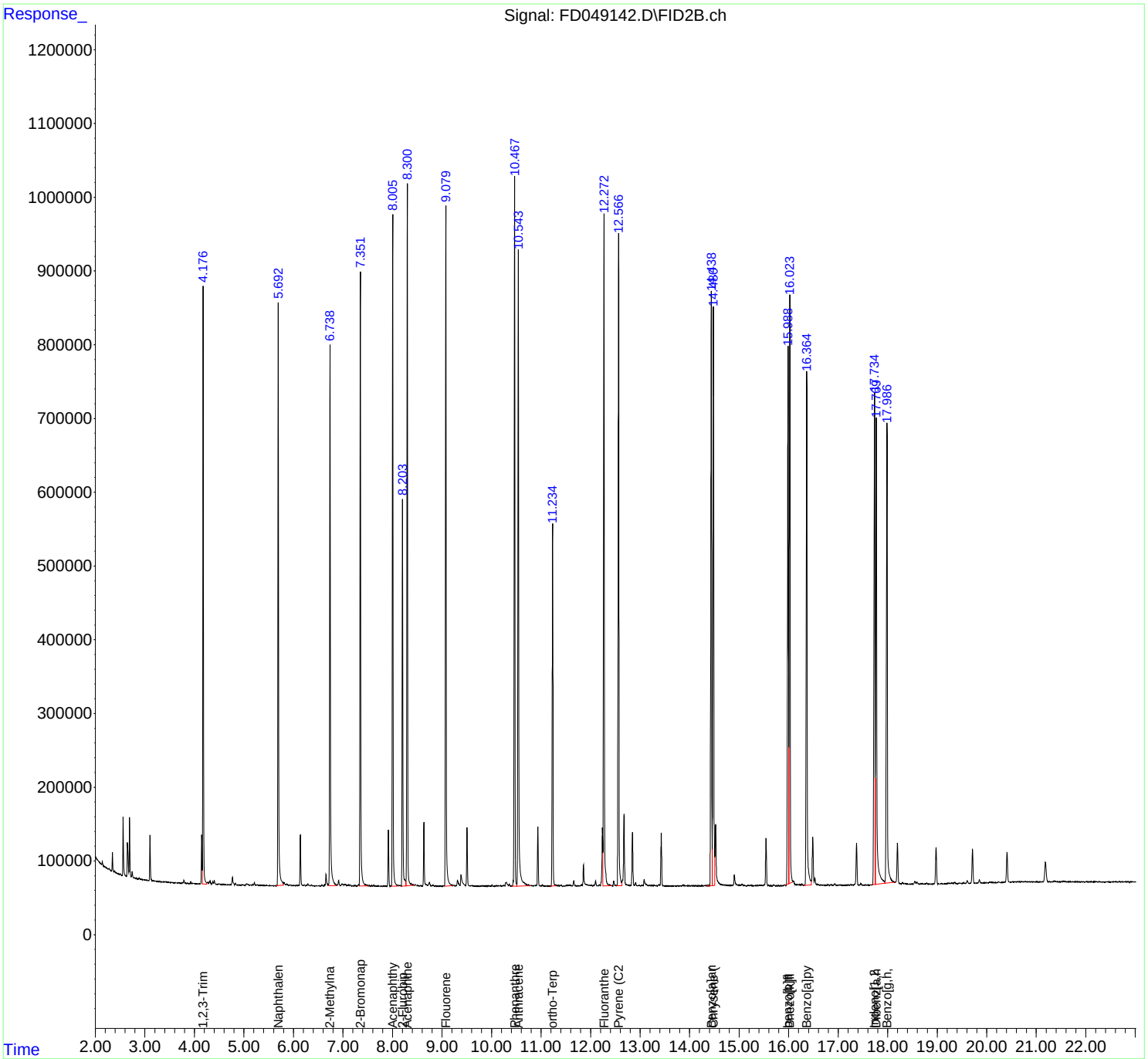
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 01 02:21:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.051	4.042	4.074	BV	200	1949	0.02%	0.001%
2	4.097	4.086	4.101	VV	287	1757	0.02%	0.001%
3	4.106	4.101	4.125	VV	245	2635	0.02%	0.001%
4	4.147	4.125	4.159	VV	66954	606704	5.69%	0.288%
5	4.176	4.159	4.249	VV	809194	7172085	67.25%	3.409%
6	4.264	4.249	4.283	VV	2629	44609	0.42%	0.021%
7	4.316	4.283	4.355	VV	4818	102157	0.96%	0.049%
8	4.372	4.355	4.386	VV	3899	44061	0.41%	0.021%
9	4.402	4.386	4.451	VV	5595	77864	0.73%	0.037%
10	4.461	4.451	4.466	VV	476	3666	0.03%	0.002%
11	4.473	4.466	4.479	VV	549	3174	0.03%	0.002%
12	4.489	4.479	4.505	VV	815	9833	0.09%	0.005%
13	4.515	4.505	4.537	VV	940	10614	0.10%	0.005%
14	4.544	4.537	4.550	VV	343	2200	0.02%	0.001%
15	4.554	4.550	4.570	VV	319	3383	0.03%	0.002%
16	4.582	4.570	4.596	VV	709	7747	0.07%	0.004%
17	4.601	4.596	4.629	VV	492	6562	0.06%	0.003%
18	4.632	4.629	4.644	VV	227	1270	0.01%	0.001%
19	4.689	4.644	4.704	PV	686	10067	0.09%	0.005%
20	4.708	4.704	4.724	VV	421	4004	0.04%	0.002%
21	4.769	4.724	4.814	VV	10740	161309	1.51%	0.077%
22	4.828	4.814	4.879	VV	2485	35628	0.33%	0.017%
23	4.884	4.879	4.893	VV	296	1516	0.01%	0.001%
24	4.902	4.893	4.918	VV	372	3335	0.03%	0.002%
25	4.933	4.918	4.947	VV	401	4801	0.05%	0.002%
26	4.966	4.947	5.015	VV	658	12165	0.11%	0.006%
27	5.048	5.015	5.110	VV	1751	54701	0.51%	0.026%
28	5.118	5.110	5.124	VV	639	5121	0.05%	0.002%
29	5.137	5.124	5.159	VV	830	11050	0.10%	0.005%
30	5.178	5.159	5.195	VV	1661	23212	0.22%	0.011%
31	5.211	5.195	5.254	VV	3925	52356	0.49%	0.025%
32	5.270	5.254	5.324	VV	1122	20499	0.19%	0.010%
33	5.337	5.324	5.349	VV	519	6461	0.06%	0.003%
34	5.353	5.349	5.376	VV	487	4742	0.04%	0.002%
35	5.383	5.376	5.392	VV	292	1658	0.02%	0.001%
36	5.416	5.407	5.422	VV	300	1542	0.01%	0.001%

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37	5.459	5.442	5.504	VV	623	9027	0.08%	0.004%
38	5.518	5.504	5.538	PV	410	5182	0.05%	0.002%
39	5.549	5.538	5.559	VV	189	1550	0.01%	0.001%
40	5.565	5.559	5.603	PV	240	3982	0.04%	0.002%
41	5.612	5.603	5.619	VV	211	1351	0.01%	0.001%
42	5.631	5.624	5.642	VV	181	1272	0.01%	0.001%
43	5.693	5.668	5.797	VV	793145	7931134	74.36%	3.770%
44	5.811	5.797	5.854	VV	4295	93483	0.88%	0.044%
45	5.869	5.854	5.909	VV	2478	48819	0.46%	0.023%
46	5.935	5.909	5.989	VV	1373	40532	0.38%	0.019%
47	6.002	5.989	6.017	VV	597	7544	0.07%	0.004%
48	6.023	6.017	6.045	VV	453	5914	0.06%	0.003%
49	6.063	6.045	6.105	VV	735	19006	0.18%	0.009%
50	6.112	6.105	6.117	VV	542	3388	0.03%	0.002%
51	6.140	6.117	6.200	VV	69527	744439	6.98%	0.354%
52	6.221	6.200	6.242	VV	1744	23671	0.22%	0.011%
53	6.261	6.242	6.275	VV	1241	13623	0.13%	0.006%
54	6.291	6.275	6.310	VV	3148	36237	0.34%	0.017%
55	6.322	6.310	6.345	VV	898	11995	0.11%	0.006%
56	6.362	6.345	6.392	VV	1662	18852	0.18%	0.009%
57	6.399	6.392	6.407	VV	246	1640	0.02%	0.001%
58	6.412	6.407	6.436	VV	249	2069	0.02%	0.001%
59	6.471	6.436	6.494	PV	335	6665	0.06%	0.003%
60	6.506	6.494	6.510	VV	295	1869	0.02%	0.001%
61	6.515	6.510	6.539	VV	325	3837	0.04%	0.002%
62	6.577	6.547	6.601	VV	1688	20132	0.19%	0.010%
63	6.631	6.601	6.642	VV	1678	22082	0.21%	0.010%
64	6.658	6.642	6.694	VV	16123	203178	1.91%	0.097%
65	6.702	6.694	6.710	VV	2044	17501	0.16%	0.008%
66	6.739	6.710	6.873	VV	733466	7782063	72.97%	3.699%
67	6.879	6.873	6.886	VV	1511	11215	0.11%	0.005%
68	6.913	6.886	6.957	VV	8088	122141	1.15%	0.058%
69	6.989	6.957	7.010	VV	3353	71321	0.67%	0.034%
70	7.024	7.010	7.030	VV	2196	23196	0.22%	0.011%
71	7.041	7.030	7.052	VV	2222	26499	0.25%	0.013%
72	7.059	7.052	7.081	VV	2270	28270	0.27%	0.013%
73	7.088	7.081	7.094	VV	1071	6659	0.06%	0.003%
74	7.115	7.094	7.132	VV	1781	27765	0.26%	0.013%
75	7.145	7.132	7.170	VV	1979	26742	0.25%	0.013%
76	7.174	7.170	7.180	VV	411	2111	0.02%	0.001%
77	7.185	7.180	7.209	VV	561	6818	0.06%	0.003%
78	7.230	7.209	7.247	VV	1002	14943	0.14%	0.007%
79	7.253	7.247	7.292	VV	587	10829	0.10%	0.005%
80	7.315	7.292	7.327	VV	2494	27722	0.26%	0.013%
81	7.352	7.327	7.477	VV	832219	8468199	79.40%	4.025%
82	7.480	7.477	7.497	VV	1490	15443	0.14%	0.007%
83	7.510	7.497	7.530	VV	1172	19450	0.18%	0.009%
84	7.538	7.530	7.562	VV	805	12286	0.12%	0.006%
85	7.579	7.562	7.604	VV	862	14891	0.14%	0.007%
86	7.623	7.604	7.649	VV	1713	22247	0.21%	0.011%
87	7.656	7.649	7.665	VV	377	2873	0.03%	0.001%
88	7.677	7.665	7.692	VV	562	5658	0.05%	0.003%
89	7.710	7.692	7.737	VV	743	11487	0.11%	0.005%

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90	7.747	7.737	7.770	VV	346	4571	0.04%	0.002%
91	7.775	7.770	7.794	VV	370	2870	0.03%	0.001%
92	7.830	7.794	7.841	PV	493	7795	0.07%	0.004%
93	7.845	7.841	7.849	VV	322	1291	0.01%	0.001%
94	7.853	7.849	7.866	VV	272	2010	0.02%	0.001%
95	7.874	7.866	7.890	VV	319	2466	0.02%	0.001%
96	7.918	7.890	7.966	VV	76664	801713	7.52%	0.381%
97	7.972	7.966	7.978	VV	522	2714	0.03%	0.001%
98	8.005	7.978	8.095	VV	911037	9055813	84.91%	4.304%
99	8.114	8.095	8.133	VV	1822	31019	0.29%	0.015%
100	8.147	8.133	8.173	VV	1454	22842	0.21%	0.011%
101	8.203	8.173	8.272	VV	526994	5494210	51.51%	2.612%
102	8.300	8.272	8.367	VV	953439	9682877	90.79%	4.603%
103	8.375	8.367	8.398	VV	3452	54189	0.51%	0.026%
104	8.409	8.398	8.421	VV	2278	28942	0.27%	0.014%
105	8.426	8.421	8.439	VV	2045	19416	0.18%	0.009%
106	8.458	8.439	8.498	VV	2637	62203	0.58%	0.030%
107	8.514	8.498	8.545	VV	1431	24037	0.23%	0.011%
108	8.569	8.545	8.600	VV	1240	25005	0.23%	0.012%
109	8.635	8.600	8.713	VV	86818	934105	8.76%	0.444%
110	8.746	8.713	8.787	VV	5720	112882	1.06%	0.054%
111	8.820	8.787	8.850	VV	1900	37177	0.35%	0.018%
112	8.870	8.850	8.901	VV	879	12718	0.12%	0.006%
113	8.945	8.901	8.952	VV	570	10933	0.10%	0.005%
114	8.957	8.952	8.962	VV	501	2561	0.02%	0.001%
115	8.977	8.962	8.993	VV	555	6632	0.06%	0.003%
116	9.018	8.993	9.030	PV	873	10350	0.10%	0.005%
117	9.033	9.030	9.052	VV	664	6407	0.06%	0.003%
118	9.079	9.052	9.218	VV	919552	9905080	92.87%	4.708%
119	9.238	9.218	9.257	VV	1598	29835	0.28%	0.014%
120	9.262	9.257	9.274	VV	878	7981	0.07%	0.004%
121	9.314	9.274	9.369	VV	8290	185349	1.74%	0.088%
122	9.385	9.369	9.480	VV	15834	371651	3.48%	0.177%
123	9.506	9.480	9.558	VV	79885	884992	8.30%	0.421%
124	9.592	9.558	9.635	VV	994	34197	0.32%	0.016%
125	9.655	9.635	9.670	VV	484	7859	0.07%	0.004%
126	9.686	9.670	9.714	VV	420	6043	0.06%	0.003%
127	9.762	9.714	9.769	PV	438	4785	0.04%	0.002%
128	9.777	9.769	9.790	VV	456	4352	0.04%	0.002%
129	9.822	9.790	9.843	VV	1018	17425	0.16%	0.008%
130	9.858	9.843	9.867	VV	473	5264	0.05%	0.003%
131	9.882	9.867	9.888	VV	601	6706	0.06%	0.003%
132	9.894	9.888	9.919	VV	854	11228	0.11%	0.005%
133	9.934	9.919	9.957	VV	927	14006	0.13%	0.007%
134	9.967	9.957	9.974	VV	591	4945	0.05%	0.002%
135	9.978	9.974	9.990	VV	561	4749	0.04%	0.002%
136	10.010	9.990	10.042	VV	1696	22351	0.21%	0.011%
137	10.051	10.042	10.057	VV	344	1640	0.02%	0.001%
138	10.101	10.057	10.114	VV	1033	17019	0.16%	0.008%
139	10.131	10.114	10.157	VV	859	14601	0.14%	0.007%
140	10.182	10.157	10.204	VV	920	16808	0.16%	0.008%
141	10.237	10.204	10.248	VV	1208	19381	0.18%	0.009%

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142	10.253	10.248	10.271	VV	1291	12598	0.12%	0.006%
143	10.288	10.271	10.297	VV	5325	57446	0.54%	0.027%
144	10.301	10.297	10.344	VV	5071	85103	0.80%	0.040%
145	10.363	10.344	10.394	VV	2702	42527	0.40%	0.020%
146	10.402	10.394	10.415	VV	453	4799	0.04%	0.002%
147	10.468	10.415	10.513	VV	959109	10175341	95.41%	4.837%
148	10.543	10.513	10.650	VV	865227	10276064	96.35%	4.884%
149	10.655	10.650	10.783	VV	5325	192747	1.81%	0.092%
150	10.801	10.783	10.808	VV	960	13324	0.12%	0.006%
151	10.815	10.808	10.840	VV	921	14729	0.14%	0.007%
152	10.846	10.840	10.853	VV	680	4871	0.05%	0.002%
153	10.874	10.853	10.888	VV	1240	21058	0.20%	0.010%
154	10.892	10.888	10.906	VV	1241	12913	0.12%	0.006%
155	10.937	10.906	10.978	VV	80624	916417	8.59%	0.436%
156	10.987	10.978	10.995	VV	935	8441	0.08%	0.004%
157	11.027	10.995	11.055	VV	1374	32725	0.31%	0.016%
158	11.061	11.055	11.082	VV	517	6492	0.06%	0.003%
159	11.084	11.082	11.089	VV	468	1545	0.01%	0.001%
160	11.091	11.089	11.097	VV	452	1825	0.02%	0.001%
161	11.101	11.097	11.105	VV	283	1124	0.01%	0.001%
162	11.122	11.105	11.127	VV	450	3943	0.04%	0.002%
163	11.146	11.127	11.152	VV	468	5580	0.05%	0.003%
164	11.157	11.152	11.202	VV	450	5023	0.05%	0.002%
165	11.234	11.202	11.308	PV	491209	5436431	50.97%	2.584%
166	11.320	11.308	11.335	VV	1361	18120	0.17%	0.009%
167	11.338	11.335	11.363	VV	856	12192	0.11%	0.006%
168	11.375	11.363	11.385	VV	1117	11249	0.11%	0.005%
169	11.407	11.385	11.444	VV	1757	28183	0.26%	0.013%
170	11.461	11.444	11.481	VV	369	5860	0.05%	0.003%
171	11.510	11.481	11.522	VV	1254	22960	0.22%	0.011%
172	11.532	11.522	11.549	VV	1360	17580	0.16%	0.008%
173	11.561	11.549	11.577	VV	1365	19769	0.19%	0.009%
174	11.593	11.577	11.615	VV	1474	25919	0.24%	0.012%
175	11.618	11.615	11.625	VV	818	4558	0.04%	0.002%
176	11.629	11.625	11.635	VV	904	4702	0.04%	0.002%
177	11.662	11.635	11.696	VV	7388	104342	0.98%	0.050%
178	11.702	11.696	11.718	VV	752	7375	0.07%	0.004%
179	11.737	11.718	11.750	VV	887	14523	0.14%	0.007%
180	11.760	11.750	11.775	VV	894	9693	0.09%	0.005%
181	11.815	11.775	11.836	VV	2082	42497	0.40%	0.020%
182	11.857	11.836	11.923	VV	28885	405403	3.80%	0.193%
183	11.932	11.923	11.959	VV	1958	32662	0.31%	0.016%
184	11.976	11.959	11.993	VV	1482	25899	0.24%	0.012%
185	12.015	11.993	12.040	VV	1390	29080	0.27%	0.014%
186	12.103	12.040	12.135	VV	7321	134707	1.26%	0.064%
187	12.144	12.135	12.158	VV	828	9196	0.09%	0.004%
188	12.178	12.158	12.197	VV	2181	30313	0.28%	0.014%
189	12.239	12.197	12.248	VV	79220	875296	8.21%	0.416%
190	12.273	12.248	12.427	VV	912682	10665336	100.00%	5.070%
191	12.436	12.427	12.450	VV	817	9715	0.09%	0.005%
192	12.467	12.450	12.507	VV	7234	99938	0.94%	0.048%
193	12.513	12.507	12.527	VV	893	8905	0.08%	0.004%
194	12.566	12.527	12.630	VV	887669	10352709	97.07%	4.921%

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195	12.647	12.630	12.651	VV	8220	86525	0.81%	0.041%
196	12.676	12.651	12.724	VV	97675	1268327	11.89%	0.603%
197	12.726	12.724	12.778	VV	2129	48686	0.46%	0.023%
198	12.783	12.778	12.791	VV	1161	8032	0.08%	0.004%
199	12.801	12.791	12.807	VV	988	8990	0.08%	0.004%
200	12.812	12.807	12.817	VV	948	5699	0.05%	0.003%
201	12.846	12.817	12.887	VV	72685	878950	8.24%	0.418%
202	12.910	12.887	12.944	VV	4655	74190	0.70%	0.035%
203	12.965	12.944	12.972	VV	860	12682	0.12%	0.006%
204	12.989	12.972	13.017	VV	921	20436	0.19%	0.010%
205	13.038	13.017	13.065	VV	1218	27663	0.26%	0.013%
206	13.084	13.065	13.170	VV	9050	195629	1.83%	0.093%
207	13.175	13.170	13.193	VV	1156	13485	0.13%	0.006%
208	13.200	13.193	13.210	VV	910	8136	0.08%	0.004%
209	13.224	13.210	13.229	VV	909	8915	0.08%	0.004%
210	13.235	13.229	13.243	VV	806	6098	0.06%	0.003%
211	13.262	13.243	13.284	VV	975	20576	0.19%	0.010%
212	13.296	13.284	13.324	VV	1002	17856	0.17%	0.008%
213	13.327	13.324	13.349	VV	652	8655	0.08%	0.004%
214	13.384	13.349	13.402	VV	2352	44085	0.41%	0.021%
215	13.428	13.402	13.475	VV	71602	872259	8.18%	0.415%
216	13.479	13.475	13.482	VV	640	2234	0.02%	0.001%
217	13.487	13.482	13.512	VV	631	7759	0.07%	0.004%
218	13.535	13.512	13.544	VV	483	5924	0.06%	0.003%
219	13.548	13.544	13.577	VV	297	4546	0.04%	0.002%
220	13.580	13.577	13.594	VV	195	1378	0.01%	0.001%
221	13.597	13.594	13.617	VV	126	1127	0.01%	0.001%
222	13.621	13.617	13.636	PV	156	1184	0.01%	0.001%
223	13.642	13.636	13.655	VV	295	2314	0.02%	0.001%
224	13.657	13.655	13.667	VV	320	1227	0.01%	0.001%
225	13.688	13.667	13.707	VV	385	6584	0.06%	0.003%
226	13.713	13.707	13.720	VV	375	2065	0.02%	0.001%
227	13.760	13.720	13.776	VV	463	9273	0.09%	0.004%
228	13.788	13.776	13.796	VV	381	2968	0.03%	0.001%
229	13.801	13.796	13.807	VV	365	1749	0.02%	0.001%
230	13.811	13.807	13.815	VV	367	1539	0.01%	0.001%
231	13.826	13.815	13.837	VV	587	6565	0.06%	0.003%
232	13.869	13.837	13.902	VV	1878	36177	0.34%	0.017%
233	13.908	13.902	13.915	VV	485	3250	0.03%	0.002%
234	13.919	13.915	13.934	VV	438	3758	0.04%	0.002%
235	13.940	13.934	14.012	VV	382	17155	0.16%	0.008%
236	14.033	14.012	14.052	VV	432	7333	0.07%	0.003%
237	14.067	14.052	14.078	VV	447	5509	0.05%	0.003%
238	14.085	14.078	14.105	VV	619	7334	0.07%	0.003%
239	14.111	14.105	14.117	VV	559	3365	0.03%	0.002%
240	14.132	14.117	14.137	VV	690	6708	0.06%	0.003%
241	14.156	14.137	14.164	VV	674	8016	0.08%	0.004%
242	14.167	14.164	14.173	VV	406	1856	0.02%	0.001%
243	14.194	14.173	14.214	VV	474	9586	0.09%	0.005%
244	14.222	14.214	14.229	VV	520	3538	0.03%	0.002%
245	14.235	14.229	14.239	VV	416	2379	0.02%	0.001%
246	14.243	14.239	14.262	VV	488	4644	0.04%	0.002%

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247	14.287	14.262	14.294	VV	690	8547	0.08%	0.004%
248	14.300	14.294	14.309	VV	727	5752	0.05%	0.003%
249	14.315	14.309	14.321	VV	704	4011	0.04%	0.002%
250	14.326	14.321	14.332	VV	663	3639	0.03%	0.002%
251	14.338	14.332	14.359	VV	805	7951	0.07%	0.004%
252	14.374	14.359	14.379	VV	710	6675	0.06%	0.003%
253	14.382	14.379	14.402	VV	625	6411	0.06%	0.003%
254	14.438	14.402	14.456	VV	807419	9837573	92.24%	4.676%
255	14.480	14.456	14.507	VV	786236	9615926	90.16%	4.571%
256	14.525	14.507	14.674	VV	83192	1533940	14.38%	0.729%
257	14.698	14.674	14.727	VV	1824	47432	0.44%	0.023%
258	14.738	14.727	14.770	VV	1205	24157	0.23%	0.011%
259	14.773	14.770	14.790	VV	780	8300	0.08%	0.004%
260	14.807	14.790	14.817	VV	777	10555	0.10%	0.005%
261	14.834	14.817	14.843	VV	972	10798	0.10%	0.005%
262	14.849	14.843	14.863	VV	677	7364	0.07%	0.004%
263	14.903	14.863	14.970	VV	15235	283632	2.66%	0.135%
264	14.976	14.970	14.982	VV	1372	9086	0.09%	0.004%
265	14.990	14.982	15.016	VV	1529	22470	0.21%	0.011%
266	15.029	15.016	15.035	VV	942	9881	0.09%	0.005%
267	15.060	15.035	15.090	VV	2621	46533	0.44%	0.022%
268	15.105	15.090	15.122	VV	761	10668	0.10%	0.005%
269	15.125	15.122	15.156	VV	516	8200	0.08%	0.004%
270	15.169	15.156	15.175	VV	577	5206	0.05%	0.002%
271	15.178	15.175	15.202	VV	550	7725	0.07%	0.004%
272	15.208	15.202	15.214	VV	633	3812	0.04%	0.002%
273	15.242	15.214	15.257	VV	1191	20756	0.19%	0.010%
274	15.261	15.257	15.288	VV	705	8332	0.08%	0.004%
275	15.293	15.288	15.297	VV	285	1513	0.01%	0.001%
276	15.302	15.297	15.309	VV	502	2774	0.03%	0.001%
277	15.312	15.309	15.320	VV	416	2600	0.02%	0.001%
278	15.345	15.320	15.350	VV	781	10605	0.10%	0.005%
279	15.361	15.350	15.374	VV	760	9347	0.09%	0.004%
280	15.390	15.374	15.408	VV	821	13919	0.13%	0.007%
281	15.422	15.408	15.431	VV	867	10107	0.09%	0.005%
282	15.446	15.431	15.469	VV	885	16564	0.16%	0.008%
283	15.474	15.469	15.482	VV	578	4088	0.04%	0.002%
284	15.503	15.482	15.512	VV	1721	21554	0.20%	0.010%
285	15.542	15.512	15.578	VV	64394	815203	7.64%	0.387%
286	15.583	15.578	15.630	VV	917	17000	0.16%	0.008%
287	15.636	15.630	15.659	VV	238	2610	0.02%	0.001%
288	15.699	15.659	15.732	VV	1871	29386	0.28%	0.014%
289	15.737	15.732	15.742	VV	408	1762	0.02%	0.001%
290	15.749	15.742	15.784	VV	323	5502	0.05%	0.003%
291	15.794	15.784	15.799	VV	327	1956	0.02%	0.001%
292	15.806	15.799	15.834	VV	274	4040	0.04%	0.002%
293	15.854	15.834	15.867	VV	309	4156	0.04%	0.002%
294	15.915	15.878	15.950	PV	1664	34194	0.32%	0.016%
295	15.988	15.950	16.002	VV	733411	9839949	92.26%	4.677%
296	16.023	16.002	16.085	VV	801622	9987928	93.65%	4.748%
297	16.100	16.085	16.175	VV	6478	164447	1.54%	0.078%
298	16.209	16.175	16.220	VV	1580	39604	0.37%	0.019%
299	16.225	16.220	16.248	VV	1650	21318	0.20%	0.010%

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300	16.266	16.248	16.305	VV	2789	48714	0.46%	0.023%
301	16.312	16.305	16.325	VV	797	8447	0.08%	0.004%
302	16.364	16.325	16.457	VV	699804	9463870	88.73%	4.498%
303	16.485	16.457	16.512	VV	65754	958399	8.99%	0.456%
304	16.528	16.512	16.587	VV	10279	190737	1.79%	0.091%
305	16.590	16.587	16.630	VV	1305	23976	0.22%	0.011%
306	16.651	16.630	16.680	VV	986	21212	0.20%	0.010%
307	16.687	16.680	16.699	VV	651	6350	0.06%	0.003%
308	16.704	16.699	16.719	VV	793	7174	0.07%	0.003%
309	16.723	16.719	16.734	VV	417	3260	0.03%	0.002%
310	16.739	16.734	16.750	VV	392	3204	0.03%	0.002%
311	16.795	16.750	16.817	VV	1419	26779	0.25%	0.013%
312	16.822	16.817	16.829	VV	368	2250	0.02%	0.001%
313	16.856	16.829	16.890	VV	1073	24292	0.23%	0.012%
314	16.935	16.890	16.968	VV	2429	46569	0.44%	0.022%
315	16.975	16.968	16.989	VV	494	4292	0.04%	0.002%
316	16.991	16.989	16.998	VV	435	2048	0.02%	0.001%
317	17.025	16.998	17.052	VV	709	14835	0.14%	0.007%
318	17.064	17.052	17.077	VV	564	5942	0.06%	0.003%
319	17.082	17.077	17.135	VV	371	8045	0.08%	0.004%
320	17.175	17.135	17.200	VV	570	14076	0.13%	0.007%
321	17.218	17.200	17.227	VV	497	6399	0.06%	0.003%
322	17.232	17.227	17.237	VV	561	2755	0.03%	0.001%
323	17.257	17.237	17.285	VV	1124	19989	0.19%	0.010%
324	17.298	17.285	17.305	VV	671	6128	0.06%	0.003%
325	17.370	17.305	17.421	VV	57411	810224	7.60%	0.385%
326	17.426	17.421	17.432	VV	378	2214	0.02%	0.001%
327	17.456	17.432	17.486	VV	2731	41462	0.39%	0.020%
328	17.493	17.486	17.508	VV	465	5265	0.05%	0.003%
329	17.517	17.508	17.522	VV	461	3206	0.03%	0.002%
330	17.528	17.522	17.542	VV	408	4093	0.04%	0.002%
331	17.569	17.542	17.594	VV	464	9621	0.09%	0.005%
332	17.620	17.594	17.627	PV	226	3085	0.03%	0.001%
333	17.634	17.627	17.642	VV	131	1265	0.01%	0.001%
334	17.660	17.642	17.677	VV	626	7186	0.07%	0.003%
335	17.734	17.677	17.747	VV	669070	9359859	87.76%	4.449%
336	17.769	17.747	17.944	VV	632255	9475979	88.85%	4.504%
337	17.986	17.944	18.152	VV	628212	9464386	88.74%	4.499%
338	18.195	18.152	18.238	VV	55558	816334	7.65%	0.388%
339	18.241	18.238	18.280	VV	751	9095	0.09%	0.004%

Sum of corrected areas: 210382375

Aromatic EPH 021125.M Sat Mar 01 04:01:07 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068334.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		9.70		0.54	1.42	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		9.05		0.34	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		14.6		0.43	1.42	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		19.4		1.14	1.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		34.1		2.55	2.84	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.6		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1421-02	Acq On:	28 Feb 2025 18:56
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FC068334.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	14464917	102.562	300	ug/ml
Aliphatic C12-C16	6.370	9.754	13068443	95.631	200	ug/ml
Aliphatic C16-C21	9.755	13.107	20310392	154.298	300	ug/ml
Aliphatic C21-C28	13.108	16.761	25151936	205.002	400	ug/ml
Aliphatic C28-C40	16.762	21.565	37089980	360.634	600	ug/ml
Aliphatic EPH	3.104	21.565	110085668	918.128		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.839	12.839	3447568	30.65		ug/ml
Aliphatic C9-C28	3.104	16.761	72995688	557.493	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 05 05:24:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.839	3447568	30.652 ug/ml
Spiked Amount	50.000		Recovery =	61.30%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3952679	28.098 ug/ml
2) T	n-Decane (C10)	4.262	4756204	33.572 ug/ml
4) T	n-Dodecane (C12)	6.270	5217892	37.070 ug/ml
6) T	n-Tetradecane (C14)	8.059	5826405	42.733 ug/ml
7) T	n-Hexadecane (C16)	9.655	6354609	46.396 ug/ml
8) T	n-Octadecane (C18)	11.093	6605667	48.302 ug/ml
10) T	n-Eicosane (C20)	12.400	6724652	51.614 ug/ml
11) T	n-Heneicosane (C21)	13.010	6406807	50.113 ug/ml
13) T	n-Docosane (C22)	13.596	6355786	50.432 ug/ml
14) T	n-Tetracosane (C24)	14.697	6236779	50.144 ug/ml
15) T	n-Hexacosane (C26)	15.715	6107881	50.232 ug/ml
16) T	n-Octacosane (C28)	16.664	5953830	50.130 ug/ml
17) T	n-Tricontane (C30)	17.551	5974819	49.639 ug/ml
18) T	n-Dotriacontane (C32)	18.382	5932634	51.114 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5900054	54.600 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	5653625	58.789 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5491943	61.091 ug/ml
22) T	n-Tetracontane (C40)	21.472	5316432	61.447 ug/ml

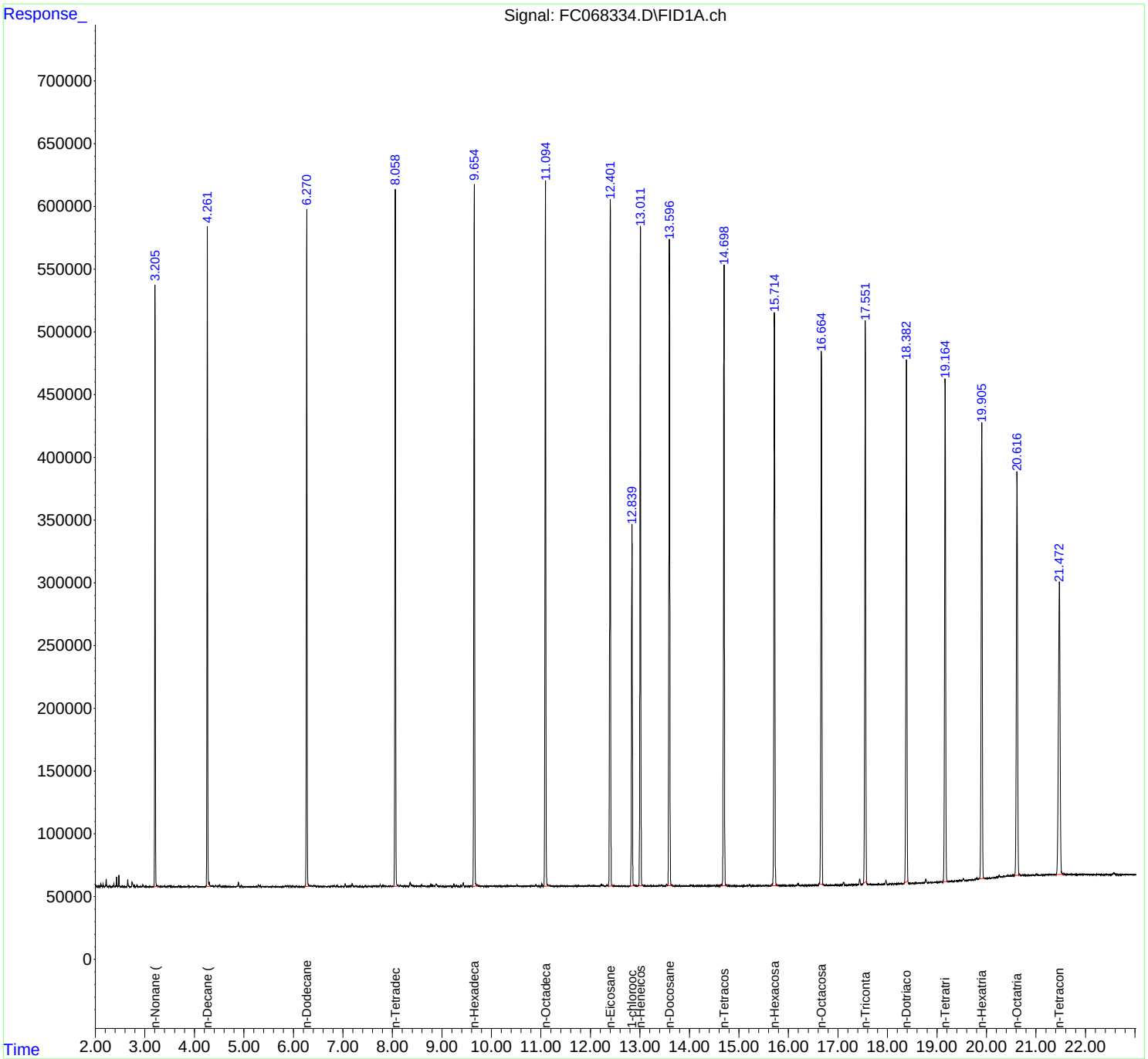
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 05 05:24:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.373	2.304	2.402	BV	2444	20177	0.30%	0.018%
2	2.430	2.402	2.454	PV	7767	67001	0.99%	0.059%
3	2.475	2.454	2.535	VV	9285	76863	1.14%	0.067%
4	2.556	2.535	2.578	VV	360	5078	0.08%	0.004%
5	2.588	2.578	2.626	VV	234	3484	0.05%	0.003%
6	2.654	2.626	2.721	PV	5970	55320	0.82%	0.048%
7	2.743	2.721	2.771	VV	3718	52504	0.78%	0.046%
8	2.786	2.771	2.820	VV	1524	17198	0.25%	0.015%
9	2.839	2.820	2.900	VV	1638	20171	0.30%	0.018%
10	2.917	2.900	2.943	VV	340	4970	0.07%	0.004%
11	2.961	2.943	2.993	VV	1652	15512	0.23%	0.014%
12	3.031	2.993	3.044	VV	298	5350	0.08%	0.005%
13	3.054	3.044	3.071	VV	147	1723	0.03%	0.002%
14	3.095	3.071	3.122	VV	221	3824	0.06%	0.003%
15	3.205	3.122	3.314	VV	476570	3974917	58.90%	3.482%
16	3.324	3.314	3.364	VV	381	7654	0.11%	0.007%
17	3.378	3.364	3.424	VV	331	9181	0.14%	0.008%
18	3.437	3.424	3.454	VV	241	3497	0.05%	0.003%
19	3.501	3.454	3.553	VV	659	21613	0.32%	0.019%
20	3.568	3.553	3.604	VV	260	4949	0.07%	0.004%
21	3.611	3.604	3.655	VV	176	3352	0.05%	0.003%
22	3.692	3.655	3.752	VV	421	11227	0.17%	0.010%
23	3.775	3.752	3.827	VV	350	7232	0.11%	0.006%
24	3.865	3.827	3.878	VV	588	8521	0.13%	0.007%
25	3.893	3.878	3.948	VV	975	13495	0.20%	0.012%
26	3.961	3.948	3.993	VV	284	4929	0.07%	0.004%
27	4.037	3.993	4.145	VV	944	27567	0.41%	0.024%
28	4.178	4.145	4.204	VV	296	6175	0.09%	0.005%
29	4.211	4.204	4.231	VV	230	2907	0.04%	0.003%
30	4.262	4.231	4.289	VV	524353	4734902	70.17%	4.148%
31	4.300	4.289	4.347	VV	3746	50768	0.75%	0.044%
32	4.364	4.347	4.390	VV	730	14752	0.22%	0.013%
33	4.428	4.390	4.448	VV	1240	21435	0.32%	0.019%
34	4.459	4.448	4.467	VV	425	4469	0.07%	0.004%
35	4.483	4.467	4.497	VV	955	11206	0.17%	0.010%
36	4.513	4.497	4.578	VV	1798	24455	0.36%	0.021%

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37	4.630	4.578	4.689	VV	247	12114	0.18%	0.011%
38	4.724	4.689	4.780	VV	273	7087	0.11%	0.006%
39	4.810	4.780	4.844	VV	250	4638	0.07%	0.004%
40	4.890	4.844	4.921	VV	3471	45773	0.68%	0.040%
41	4.946	4.921	4.962	VV	719	8954	0.13%	0.008%
42	4.973	4.962	5.018	VV	275	4329	0.06%	0.004%
43	5.081	5.018	5.101	PV	175	4452	0.07%	0.004%
44	5.115	5.101	5.153	VV	129	3282	0.05%	0.003%
45	5.163	5.153	5.223	VV	189	3688	0.05%	0.003%
46	5.258	5.223	5.269	VV	162	2711	0.04%	0.002%
47	5.292	5.269	5.312	VV	1773	19244	0.29%	0.017%
48	5.332	5.312	5.357	VV	1339	15550	0.23%	0.014%
49	5.387	5.357	5.434	VV	309	5489	0.08%	0.005%
50	5.469	5.434	5.495	VV	356	6323	0.09%	0.006%
51	5.508	5.495	5.529	VV	125	1637	0.02%	0.001%
52	5.539	5.529	5.553	VV	148	1273	0.02%	0.001%
53	5.582	5.553	5.613	VV	280	5783	0.09%	0.005%
54	5.640	5.613	5.684	VV	173	4197	0.06%	0.004%
55	5.692	5.684	5.724	VV	99	1301	0.02%	0.001%
56	5.742	5.724	5.763	PV	204	2404	0.04%	0.002%
57	5.788	5.763	5.813	VV	186	3529	0.05%	0.003%
58	5.838	5.813	5.869	VV	890	16772	0.25%	0.015%
59	5.886	5.869	5.908	VV	542	8475	0.13%	0.007%
60	5.928	5.908	5.971	VV	1047	14951	0.22%	0.013%
61	5.991	5.971	6.029	VV	703	11596	0.17%	0.010%
62	6.064	6.029	6.086	VV	368	7588	0.11%	0.007%
63	6.115	6.086	6.132	VV	274	4178	0.06%	0.004%
64	6.164	6.132	6.228	VV	275	9391	0.14%	0.008%
65	6.270	6.228	6.334	VV	539912	5241953	77.68%	4.592%
66	6.351	6.334	6.374	VV	1068	17052	0.25%	0.015%
67	6.386	6.374	6.398	VV	676	7625	0.11%	0.007%
68	6.417	6.398	6.437	VV	1487	20059	0.30%	0.018%
69	6.450	6.437	6.471	VV	584	8181	0.12%	0.007%
70	6.489	6.471	6.538	VV	752	13429	0.20%	0.012%
71	6.552	6.538	6.568	VV	277	4003	0.06%	0.004%
72	6.587	6.568	6.611	VV	313	5879	0.09%	0.005%
73	6.622	6.611	6.641	VV	243	3682	0.05%	0.003%
74	6.655	6.641	6.684	VV	227	4481	0.07%	0.004%
75	6.708	6.684	6.736	VV	664	9075	0.13%	0.008%
76	6.762	6.736	6.796	VV	830	16423	0.24%	0.014%
77	6.824	6.796	6.854	VV	741	16164	0.24%	0.014%
78	6.887	6.854	6.914	VV	1061	19526	0.29%	0.017%
79	6.925	6.914	6.947	VV	306	4357	0.06%	0.004%
80	6.988	6.947	7.008	VV	329	7764	0.12%	0.007%
81	7.048	7.008	7.095	VV	2381	30341	0.45%	0.027%
82	7.108	7.095	7.138	VV	366	7191	0.11%	0.006%
83	7.155	7.138	7.167	VV	499	5849	0.09%	0.005%
84	7.188	7.167	7.213	VV	2579	30661	0.45%	0.027%
85	7.221	7.213	7.233	VV	260	2957	0.04%	0.003%
86	7.248	7.233	7.266	VV	418	6511	0.10%	0.006%
87	7.279	7.266	7.333	VV	619	10000	0.15%	0.009%
88	7.355	7.333	7.391	VV	242	6015	0.09%	0.005%
89	7.395	7.391	7.414	VV	190	1628	0.02%	0.001%

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90	7.448	7.414	7.478	VV	1037	13385	0.20%	0.012%
91	7.525	7.478	7.574	VV	321	11619	0.17%	0.010%
92	7.611	7.574	7.627	VV	353	8205	0.12%	0.007%
93	7.648	7.627	7.688	VV	402	10387	0.15%	0.009%
94	7.709	7.688	7.734	VV	486	7961	0.12%	0.007%
95	7.753	7.734	7.778	VV	1583	19335	0.29%	0.017%
96	7.809	7.778	7.834	VV	1594	21359	0.32%	0.019%
97	7.846	7.834	7.864	VV	354	4886	0.07%	0.004%
98	7.879	7.864	7.891	VV	423	4829	0.07%	0.004%
99	7.908	7.891	7.934	VV	361	6444	0.10%	0.006%
100	7.962	7.934	8.004	VV	856	13217	0.20%	0.012%
101	8.059	8.004	8.134	VV	554409	5855976	86.78%	5.130%
102	8.154	8.134	8.190	VV	891	22636	0.34%	0.020%
103	8.203	8.190	8.222	VV	574	8596	0.13%	0.008%
104	8.250	8.222	8.269	VV	624	10991	0.16%	0.010%
105	8.287	8.269	8.328	VV	613	10178	0.15%	0.009%
106	8.358	8.328	8.438	VV	3538	79437	1.18%	0.070%
107	8.449	8.438	8.464	VV	483	7244	0.11%	0.006%
108	8.474	8.464	8.488	VV	607	6830	0.10%	0.006%
109	8.516	8.488	8.531	VV	612	13038	0.19%	0.011%
110	8.544	8.531	8.558	VV	691	8906	0.13%	0.008%
111	8.592	8.558	8.631	VV	1119	27569	0.41%	0.024%
112	8.654	8.631	8.687	VV	452	9010	0.13%	0.008%
113	8.707	8.687	8.725	VV	426	6259	0.09%	0.005%
114	8.745	8.725	8.753	VV	313	3931	0.06%	0.003%
115	8.776	8.753	8.796	VV	1501	20657	0.31%	0.018%
116	8.812	8.796	8.825	VV	888	11876	0.18%	0.010%
117	8.833	8.825	8.854	VV	679	10088	0.15%	0.009%
118	8.887	8.854	8.943	VV	2096	46575	0.69%	0.041%
119	8.962	8.943	8.989	VV	596	8314	0.12%	0.007%
120	9.011	8.989	9.037	PV	415	5547	0.08%	0.005%
121	9.131	9.037	9.145	VV	387	13254	0.20%	0.012%
122	9.174	9.145	9.221	VV	781	15428	0.23%	0.014%
123	9.245	9.221	9.273	VV	1372	22829	0.34%	0.020%
124	9.294	9.273	9.322	VV	889	12552	0.19%	0.011%
125	9.334	9.322	9.354	VV	263	3002	0.04%	0.003%
126	9.388	9.354	9.408	VV	903	13561	0.20%	0.012%
127	9.432	9.408	9.473	VV	3048	36278	0.54%	0.032%
128	9.490	9.473	9.508	PV	253	2752	0.04%	0.002%
129	9.522	9.508	9.535	VV	181	2184	0.03%	0.002%
130	9.576	9.535	9.609	VV	648	15373	0.23%	0.013%
131	9.655	9.609	9.766	VV	558718	6394144	94.75%	5.602%
132	9.773	9.766	9.864	VV	389	14407	0.21%	0.013%
133	9.931	9.864	9.948	VV	308	7356	0.11%	0.006%
134	9.969	9.948	9.990	VV	302	6115	0.09%	0.005%
135	10.045	9.990	10.064	VV	472	12862	0.19%	0.011%
136	10.081	10.064	10.102	VV	363	6588	0.10%	0.006%
137	10.129	10.102	10.151	VV	338	6987	0.10%	0.006%
138	10.159	10.151	10.180	VV	290	3147	0.05%	0.003%
139	10.191	10.180	10.197	VV	128	1121	0.02%	0.001%
140	10.205	10.197	10.211	VV	152	1028	0.02%	0.001%
141	10.250	10.211	10.265	VV	389	7571	0.11%	0.007%

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142	10.275	10.265	10.303	VV	376	6423	0.10%	0.006%
143	10.322	10.303	10.348	VV	577	10901	0.16%	0.010%
144	10.391	10.348	10.423	VV	743	18152	0.27%	0.016%
145	10.443	10.423	10.458	VV	366	5798	0.09%	0.005%
146	10.476	10.458	10.488	VV	430	6016	0.09%	0.005%
147	10.515	10.488	10.548	VV	1041	19254	0.29%	0.017%
148	10.604	10.584	10.658	VV	273	7646	0.11%	0.007%
149	10.675	10.658	10.683	VV	257	2854	0.04%	0.003%
150	10.714	10.683	10.741	VV	436	9433	0.14%	0.008%
151	10.761	10.741	10.794	VV	411	9576	0.14%	0.008%
152	10.811	10.794	10.831	VV	557	8515	0.13%	0.007%
153	10.844	10.831	10.862	VV	342	3978	0.06%	0.003%
154	10.894	10.862	10.940	VV	1481	20511	0.30%	0.018%
155	10.947	10.940	10.978	VV	104	1539	0.02%	0.001%
156	11.021	10.978	11.054	VV	1735	24417	0.36%	0.021%
157	11.093	11.054	11.168	VV	565923	6625320	98.18%	5.804%
158	11.182	11.168	11.231	VV	720	14671	0.22%	0.013%
159	11.241	11.231	11.261	VV	192	2557	0.04%	0.002%
160	11.273	11.261	11.288	VV	173	1837	0.03%	0.002%
161	11.318	11.288	11.348	VV	209	5178	0.08%	0.005%
162	11.354	11.348	11.368	VV	85	1004	0.01%	0.001%
163	11.398	11.368	11.435	VV	297	9104	0.13%	0.008%
164	11.450	11.435	11.460	VV	333	3793	0.06%	0.003%
165	11.477	11.460	11.519	VV	415	10036	0.15%	0.009%
166	11.556	11.519	11.602	VV	414	11078	0.16%	0.010%
167	11.609	11.602	11.618	VV	109	953	0.01%	0.001%
168	11.752	11.618	11.781	VV	588	31644	0.47%	0.028%
169	11.800	11.781	11.831	VV	366	7504	0.11%	0.007%
170	11.848	11.831	11.864	VV	282	4549	0.07%	0.004%
171	11.893	11.864	11.938	VV	424	11070	0.16%	0.010%
172	11.973	11.938	12.009	VV	753	21641	0.32%	0.019%
173	12.030	12.009	12.052	VV	621	10594	0.16%	0.009%
174	12.070	12.052	12.085	VV	610	9008	0.13%	0.008%
175	12.093	12.085	12.132	VV	338	6661	0.10%	0.006%
176	12.222	12.132	12.245	VV	1915	41265	0.61%	0.036%
177	12.260	12.245	12.302	VV	961	14054	0.21%	0.012%
178	12.336	12.302	12.359	VV	1377	18443	0.27%	0.016%
179	12.400	12.359	12.498	VV	550415	6748141	100.00%	5.912%
180	12.508	12.498	12.628	VV	306	11917	0.18%	0.010%
181	12.653	12.628	12.664	PV	184	2976	0.04%	0.003%
182	12.672	12.664	12.738	VV	191	5818	0.09%	0.005%
183	12.839	12.738	12.931	VV	286432	3481931	51.60%	3.050%
184	12.953	12.931	12.969	VV	428	8655	0.13%	0.008%
185	13.010	12.969	13.178	VV	526070	6448726	95.56%	5.649%
186	13.208	13.178	13.240	VV	376	10702	0.16%	0.009%
187	13.283	13.240	13.324	VV	471	15893	0.24%	0.014%
188	13.347	13.324	13.364	VV	296	5459	0.08%	0.005%
189	13.384	13.364	13.407	VV	696	11042	0.16%	0.010%
190	13.435	13.407	13.484	VV	1046	21956	0.33%	0.019%
191	13.498	13.484	13.513	VV	276	3937	0.06%	0.003%
192	13.539	13.513	13.556	VV	1419	19411	0.29%	0.017%
193	13.596	13.556	13.688	VV	513366	6381544	94.57%	5.590%
194	13.698	13.688	13.705	VV	257	2361	0.03%	0.002%

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195	13.715	13.705	13.750	VV	301	5196	0.08%	0.005%
196	13.769	13.750	13.791	VV	195	3768	0.06%	0.003%
197	13.806	13.791	13.833	VV	207	4647	0.07%	0.004%
198	13.847	13.833	13.861	VV	198	2753	0.04%	0.002%
199	13.865	13.861	13.908	VV	163	3524	0.05%	0.003%
200	13.930	13.908	13.969	VV	201	4815	0.07%	0.004%
201	13.977	13.969	13.987	VV	121	1041	0.02%	0.001%
202	14.030	13.987	14.108	VV	938	23520	0.35%	0.021%
203	14.119	14.108	14.130	VV	191	1931	0.03%	0.002%
204	14.153	14.130	14.198	VV	516	10405	0.15%	0.009%
205	14.297	14.198	14.368	VV	343	24148	0.36%	0.021%
206	14.397	14.368	14.424	VV	347	8382	0.12%	0.007%
207	14.462	14.424	14.489	VV	351	9124	0.14%	0.008%
208	14.504	14.489	14.521	VV	310	4445	0.07%	0.004%
209	14.545	14.521	14.574	VV	400	7327	0.11%	0.006%
210	14.594	14.574	14.611	VV	242	4170	0.06%	0.004%
211	14.648	14.611	14.657	VV	1188	15313	0.23%	0.013%
212	14.697	14.657	14.824	VV	489965	6246308	92.56%	5.472%
213	14.833	14.824	14.849	VV	140	1753	0.03%	0.002%
214	14.862	14.849	14.922	VV	195	6292	0.09%	0.006%
215	14.930	14.922	14.994	VV	168	4066	0.06%	0.004%
216	15.001	14.994	15.014	VV	75	973	0.01%	0.001%
217	15.024	15.014	15.065	VV	107	2267	0.03%	0.002%
218	15.075	15.065	15.090	VV	130	1445	0.02%	0.001%
219	15.122	15.090	15.136	VV	168	3329	0.05%	0.003%
220	15.212	15.136	15.294	VV	1180	24519	0.36%	0.021%
221	15.354	15.294	15.378	PV	196	5498	0.08%	0.005%
222	15.392	15.378	15.402	VV	164	2044	0.03%	0.002%
223	15.411	15.402	15.468	VV	199	5159	0.08%	0.005%
224	15.567	15.468	15.594	VV	304	13518	0.20%	0.012%
225	15.602	15.594	15.638	VV	178	2874	0.04%	0.003%
226	15.715	15.638	15.874	VV	453709	6127369	90.80%	5.368%
227	15.896	15.874	15.998	VV	161	4903	0.07%	0.004%
228	16.034	15.998	16.058	VV	154	2482	0.04%	0.002%
229	16.065	16.058	16.082	VV	94	878	0.01%	0.001%
230	16.105	16.082	16.141	PV	121	2159	0.03%	0.002%
231	16.159	16.141	16.168	VV	188	1698	0.03%	0.001%
232	16.194	16.168	16.254	VV	1679	25892	0.38%	0.023%
233	16.271	16.254	16.306	VV	270	3955	0.06%	0.003%
234	16.317	16.306	16.331	VV	96	762	0.01%	0.001%
235	16.358	16.331	16.374	VV	229	3509	0.05%	0.003%
236	16.390	16.374	16.434	VV	143	5100	0.08%	0.004%
237	16.442	16.434	16.466	VV	174	2263	0.03%	0.002%
238	16.501	16.466	16.518	VV	188	3685	0.05%	0.003%
239	16.545	16.518	16.598	VV	425	13351	0.20%	0.012%
240	16.664	16.598	16.734	VV	424710	6019424	89.20%	5.273%
241	16.745	16.734	16.788	VV	326	7647	0.11%	0.007%
242	16.795	16.788	16.852	VV	202	4824	0.07%	0.004%
243	16.867	16.852	16.916	VV	103	2253	0.03%	0.002%
244	16.922	16.916	16.927	VV	71	350	0.01%	0.000%
245	16.955	16.927	16.978	VV	290	4629	0.07%	0.004%
246	17.010	16.978	17.028	VV	202	3878	0.06%	0.003%

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247	17.041	17.028	17.068	VV	173	2364	0.04%	0.002%
248	17.111	17.068	17.174	VV	2404	39025	0.58%	0.034%
249	17.336	17.174	17.368	PV	275	20619	0.31%	0.018%
250	17.387	17.368	17.401	VV	272	3524	0.05%	0.003%
251	17.437	17.401	17.475	VV	4691	71943	1.07%	0.063%
252	17.551	17.475	17.619	VV	449116	6077453	90.06%	5.324%
253	17.641	17.619	17.662	VV	447	9996	0.15%	0.009%
254	17.672	17.662	17.714	VV	282	6932	0.10%	0.006%
255	17.731	17.714	17.774	VV	226	3697	0.05%	0.003%
256	17.826	17.774	17.890	PV	320	10337	0.15%	0.009%
257	17.898	17.890	17.906	VV	120	576	0.01%	0.001%
258	17.968	17.906	18.008	PV	3186	48425	0.72%	0.042%
259	18.055	18.008	18.076	VV	133	3080	0.05%	0.003%
260	18.234	18.076	18.250	VV	270	7745	0.11%	0.007%
261	18.266	18.250	18.313	VV	261	4615	0.07%	0.004%
262	18.382	18.313	18.454	PV	413964	6001712	88.94%	5.258%
263	18.507	18.454	18.521	VV	208	5479	0.08%	0.005%
264	18.537	18.521	18.564	VV	182	3281	0.05%	0.003%
265	18.592	18.564	18.604	VV	185	2248	0.03%	0.002%
266	18.633	18.604	18.654	VV	166	3189	0.05%	0.003%
267	18.685	18.654	18.696	VV	99	1632	0.02%	0.001%
268	18.775	18.696	18.808	PV	2910	42936	0.64%	0.038%
269	18.834	18.808	18.874	VV	109	2129	0.03%	0.002%
270	18.961	18.874	18.988	PV	189	6398	0.09%	0.006%
271	19.089	18.988	19.101	VV	250	10181	0.15%	0.009%
272	19.164	19.101	19.253	VV	397589	5928806	87.86%	5.194%
273	19.268	19.253	19.291	VV	393	7503	0.11%	0.007%
274	19.321	19.291	19.364	VV	466	15140	0.22%	0.013%
275	19.471	19.364	19.497	VV	555	31946	0.47%	0.028%
276	19.533	19.497	19.581	VV	1963	43177	0.64%	0.038%
277	19.803	19.581	19.834	VV	1730	120045	1.78%	0.105%
278	19.904	19.834	20.010	VV	361310	5791003	85.82%	5.073%
279	20.021	20.010	20.031	VV	1425	16738	0.25%	0.015%
280	20.255	20.031	20.298	VV	3227	276042	4.09%	0.242%
281	20.431	20.298	20.461	VV	2745	223985	3.32%	0.196%
282	20.475	20.461	20.491	VV	2507	44379	0.66%	0.039%
283	20.616	20.491	20.758	VV	321083	5896031	87.37%	5.165%
284	20.774	20.758	20.812	VV	2369	74617	1.11%	0.065%
285	20.819	20.812	20.828	VV	2218	20610	0.31%	0.018%
286	20.937	20.828	20.968	VV	2225	179546	2.66%	0.157%
287	21.009	20.968	21.049	VV	2645	108714	1.61%	0.095%
288	21.056	21.049	21.072	VV	1873	25754	0.38%	0.023%
289	21.285	21.072	21.298	VV	1863	243309	3.61%	0.213%
290	21.308	21.298	21.320	VV	1825	23251	0.34%	0.020%
291	21.352	21.320	21.361	VV	1736	41635	0.62%	0.036%
292	21.370	21.361	21.381	VV	1619	19867	0.29%	0.017%
293	21.388	21.381	21.395	VV	1626	13279	0.20%	0.012%
294	21.472	21.395	21.628	VV	232470	5539153	82.08%	4.853%
295	21.639	21.628	21.651	VV	1287	17310	0.26%	0.015%
296	21.670	21.651	21.690	VV	1291	28053	0.42%	0.025%
297	21.709	21.690	21.737	VV	1183	31107	0.46%	0.027%
298	21.772	21.737	21.878	VV	1053	77020	1.14%	0.067%
299	21.901	21.878	21.915	VV	749	15281	0.23%	0.013%

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300	21.922	21.915	21.931	VV	654	5922	0.09%	0.005%
301	21.973	21.931	22.041	VV	779	39999	0.59%	0.035%
302	22.055	22.041	22.083	VV	455	8809	0.13%	0.008%
303	22.094	22.083	22.104	VV	307	3505	0.05%	0.003%
304	22.113	22.104	22.147	VV	325	5060	0.07%	0.004%
305	22.162	22.147	22.181	VV	91	1266	0.02%	0.001%

Sum of corrected areas: 114150106

Aliphatic EPH 021125.M Sat Mar 01 01:30:47 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068335.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		9.71		0.54	1.42	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		9.10		0.34	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		14.7		0.43	1.42	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		19.6		1.14	1.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		34.6		2.56	2.84	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		32.3		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1421-03	Acq On:	28 Feb 2025 19:32
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FC068335.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	14461616	102.539	300	ug/ml
Aliphatic C12-C16	6.370	9.754	13124094	96.038	200	ug/ml
Aliphatic C16-C21	9.755	13.107	20440502	155.287	300	ug/ml
Aliphatic C21-C28	13.108	16.761	25406827	207.079	400	ug/ml
Aliphatic C28-C40	16.762	21.565	37555991	365.166	600	ug/ml
Aliphatic EPH	3.104	21.565	110989030	926.109		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.838	12.838	3629508	32.27		ug/ml
Aliphatic C9-C28	3.104	16.761	73433039	560.943	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 05 05:25:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.838	3629508	32.270 ug/ml
Spiked Amount	50.000		Recovery =	64.54%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3943747	28.034 ug/ml
2) T	n-Decane (C10)	4.261	4754624	33.561 ug/ml
4) T	n-Dodecane (C12)	6.270	5235120	37.192 ug/ml
6) T	n-Tetradecane (C14)	8.059	5850328	42.909 ug/ml
7) T	n-Hexadecane (C16)	9.655	6391300	46.664 ug/ml
8) T	n-Octadecane (C18)	11.093	6650779	48.632 ug/ml
10) T	n-Eicosane (C20)	12.400	6773133	51.986 ug/ml
11) T	n-Heneicosane (C21)	13.010	6452700	50.472 ug/ml
13) T	n-Docosane (C22)	13.595	6400679	50.788 ug/ml
14) T	n-Tetracosane (C24)	14.696	6277459	50.471 ug/ml
15) T	n-Hexacosane (C26)	15.715	6147591	50.559 ug/ml
16) T	n-Octacosane (C28)	16.664	5996760	50.492 ug/ml
17) T	n-Tricontane (C30)	17.551	6013877	49.963 ug/ml
18) T	n-Dotriacontane (C32)	18.382	5975842	51.486 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5937717	54.949 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	5683975	59.104 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5522915	61.436 ug/ml
22) T	n-Tetracontane (C40)	21.469	5359281	61.942 ug/ml

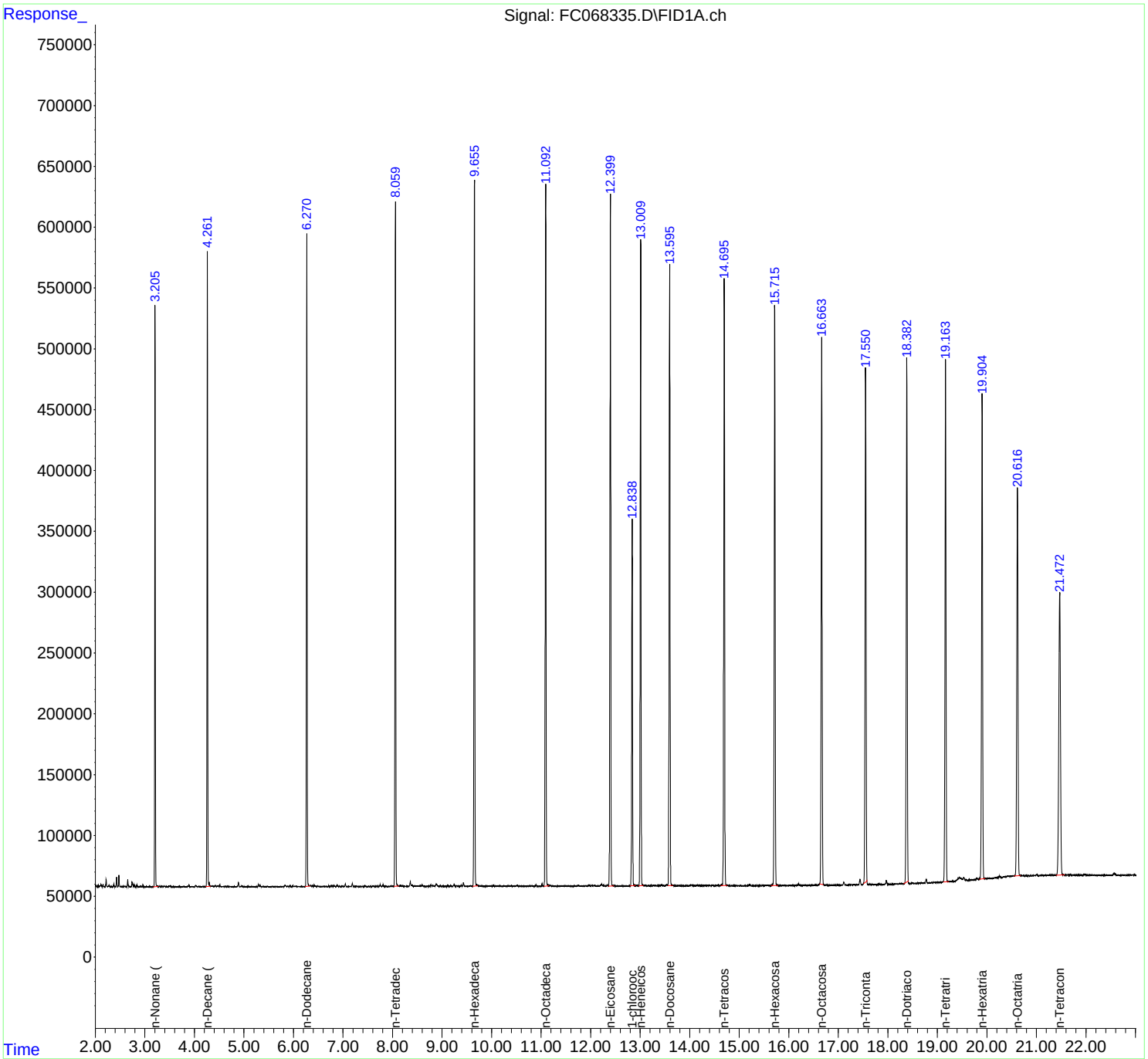
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 05 05:25:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.373	2.344	2.404	PV	2502	22211	0.33%	0.019%
2	2.429	2.404	2.453	VV	7877	67361	0.99%	0.058%
3	2.475	2.453	2.515	VV	9409	77635	1.14%	0.067%
4	2.525	2.515	2.536	VV	170	1245	0.02%	0.001%
5	2.557	2.536	2.575	PV	406	4865	0.07%	0.004%
6	2.591	2.575	2.624	VV	320	4153	0.06%	0.004%
7	2.653	2.624	2.716	VV	5738	54584	0.80%	0.047%
8	2.742	2.716	2.770	VV	3670	51262	0.75%	0.044%
9	2.786	2.770	2.819	VV	1528	16974	0.25%	0.015%
10	2.838	2.819	2.868	VV	1723	16588	0.24%	0.014%
11	2.917	2.868	2.944	VV	307	7449	0.11%	0.006%
12	2.960	2.944	3.006	VV	1641	15916	0.23%	0.014%
13	3.030	3.006	3.080	VV	276	5287	0.08%	0.005%
14	3.100	3.080	3.144	VV	212	3993	0.06%	0.003%
15	3.205	3.144	3.278	VV	474671	3957131	58.18%	3.433%
16	3.297	3.278	3.311	VV	378	5675	0.08%	0.005%
17	3.325	3.311	3.341	VV	402	5717	0.08%	0.005%
18	3.347	3.341	3.362	VV	269	3064	0.05%	0.003%
19	3.379	3.362	3.390	VV	341	4125	0.06%	0.004%
20	3.400	3.390	3.426	VV	265	4317	0.06%	0.004%
21	3.437	3.426	3.449	VV	243	2333	0.03%	0.002%
22	3.479	3.449	3.486	VV	429	6373	0.09%	0.006%
23	3.500	3.486	3.557	VV	642	13665	0.20%	0.012%
24	3.572	3.557	3.594	VV	260	3022	0.04%	0.003%
25	3.606	3.594	3.624	VV	188	2006	0.03%	0.002%
26	3.631	3.624	3.652	VV	188	1532	0.02%	0.001%
27	3.693	3.652	3.726	VV	330	6919	0.10%	0.006%
28	3.735	3.726	3.753	VV	129	1522	0.02%	0.001%
29	3.773	3.753	3.827	PV	316	5781	0.09%	0.005%
30	3.865	3.827	3.878	VV	528	7061	0.10%	0.006%
31	3.893	3.878	3.944	VV	949	12529	0.18%	0.011%
32	3.958	3.944	3.981	VV	257	2886	0.04%	0.003%
33	4.036	3.981	4.068	VV	924	19293	0.28%	0.017%
34	4.081	4.068	4.124	VV	267	5657	0.08%	0.005%
35	4.128	4.124	4.155	VV	116	1860	0.03%	0.002%
36	4.187	4.155	4.231	VV	184	6637	0.10%	0.006%

rteres

37	4.261	4.231	4.289	VV	520982	4732885	69.59%	4.106%
38	4.300	4.289	4.346	VV	3590	48323	0.71%	0.042%
39	4.362	4.346	4.391	VV	749	14126	0.21%	0.012%
40	4.428	4.391	4.468	VV	1340	26822	0.39%	0.023%
41	4.483	4.468	4.497	VV	1118	12023	0.18%	0.010%
42	4.513	4.497	4.554	VV	1695	21407	0.31%	0.019%
43	4.578	4.554	4.611	VV	238	6809	0.10%	0.006%
44	4.615	4.611	4.621	VV	255	1175	0.02%	0.001%
45	4.633	4.621	4.652	VV	221	3729	0.05%	0.003%
46	4.674	4.652	4.690	VV	235	4007	0.06%	0.003%
47	4.723	4.690	4.761	VV	284	5991	0.09%	0.005%
48	4.810	4.761	4.840	VV	356	5885	0.09%	0.005%
49	4.890	4.840	4.922	VV	3510	46198	0.68%	0.040%
50	4.945	4.922	4.962	VV	661	8349	0.12%	0.007%
51	4.972	4.962	5.054	VV	290	5251	0.08%	0.005%
52	5.078	5.054	5.103	VV	162	2912	0.04%	0.003%
53	5.165	5.103	5.231	VV	223	8730	0.13%	0.008%
54	5.242	5.231	5.249	VV	121	700	0.01%	0.001%
55	5.291	5.249	5.311	VV	1788	20915	0.31%	0.018%
56	5.331	5.311	5.371	VV	1245	16633	0.24%	0.014%
57	5.388	5.371	5.435	VV	278	5352	0.08%	0.005%
58	5.473	5.435	5.499	VV	288	6297	0.09%	0.005%
59	5.535	5.499	5.554	VV	121	2147	0.03%	0.002%
60	5.572	5.554	5.611	PV	295	6050	0.09%	0.005%
61	5.621	5.611	5.647	VV	236	3400	0.05%	0.003%
62	5.660	5.647	5.691	VV	214	3348	0.05%	0.003%
63	5.698	5.691	5.724	VV	131	1437	0.02%	0.001%
64	5.744	5.724	5.778	PV	169	3011	0.04%	0.003%
65	5.793	5.778	5.804	VV	225	2519	0.04%	0.002%
66	5.831	5.804	5.865	VV	1155	23002	0.34%	0.020%
67	5.885	5.865	5.908	VV	585	8183	0.12%	0.007%
68	5.929	5.908	5.962	VV	1083	14937	0.22%	0.013%
69	5.990	5.962	6.033	VV	704	14474	0.21%	0.013%
70	6.060	6.033	6.098	VV	379	9625	0.14%	0.008%
71	6.107	6.098	6.134	VV	182	2833	0.04%	0.002%
72	6.155	6.134	6.172	VV	270	4197	0.06%	0.004%
73	6.190	6.172	6.211	VV	204	3469	0.05%	0.003%
74	6.270	6.211	6.334	VV	535855	5258275	77.32%	4.562%
75	6.351	6.334	6.371	VV	1065	17085	0.25%	0.015%
76	6.386	6.371	6.399	VV	729	9657	0.14%	0.008%
77	6.416	6.399	6.438	VV	1453	18789	0.28%	0.016%
78	6.449	6.438	6.470	VV	588	7170	0.11%	0.006%
79	6.488	6.470	6.571	VV	688	16097	0.24%	0.014%
80	6.585	6.571	6.614	VV	326	5691	0.08%	0.005%
81	6.629	6.614	6.638	VV	240	3112	0.05%	0.003%
82	6.655	6.638	6.688	VV	277	5352	0.08%	0.005%
83	6.709	6.688	6.738	VV	607	8549	0.13%	0.007%
84	6.761	6.738	6.798	VV	813	16805	0.25%	0.015%
85	6.824	6.798	6.848	VV	682	14119	0.21%	0.012%
86	6.887	6.848	6.915	VV	1123	19849	0.29%	0.017%
87	6.925	6.915	6.951	VV	352	4582	0.07%	0.004%
88	6.966	6.951	6.980	VV	305	3964	0.06%	0.003%
89	6.991	6.980	7.020	VV	276	4092	0.06%	0.004%

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90	7.047	7.020	7.078	VV	2375	26454	0.39%	0.023%
91	7.115	7.078	7.141	VV	367	8903	0.13%	0.008%
92	7.154	7.141	7.166	VV	441	4874	0.07%	0.004%
93	7.189	7.166	7.216	VV	2638	31866	0.47%	0.028%
94	7.224	7.216	7.234	VV	278	2586	0.04%	0.002%
95	7.250	7.234	7.268	VV	453	6250	0.09%	0.005%
96	7.279	7.268	7.317	VV	531	7199	0.11%	0.006%
97	7.348	7.317	7.375	VV	228	4627	0.07%	0.004%
98	7.391	7.375	7.423	PV	165	2087	0.03%	0.002%
99	7.449	7.423	7.484	VV	949	12597	0.19%	0.011%
100	7.547	7.484	7.568	VV	253	7576	0.11%	0.007%
101	7.608	7.568	7.630	VV	363	7775	0.11%	0.007%
102	7.668	7.630	7.691	VV	350	8551	0.13%	0.007%
103	7.708	7.691	7.726	VV	435	5500	0.08%	0.005%
104	7.753	7.726	7.776	VV	1610	19006	0.28%	0.016%
105	7.808	7.776	7.830	VV	1612	19530	0.29%	0.017%
106	7.848	7.830	7.863	VV	276	4150	0.06%	0.004%
107	7.878	7.863	7.897	VV	337	4135	0.06%	0.004%
108	7.911	7.897	7.938	VV	306	3742	0.06%	0.003%
109	7.963	7.938	8.024	VV	838	13975	0.21%	0.012%
110	8.059	8.024	8.133	VV	558311	5876988	86.41%	5.099%
111	8.154	8.133	8.198	VV	875	25997	0.38%	0.023%
112	8.205	8.198	8.226	VV	575	7138	0.10%	0.006%
113	8.248	8.226	8.268	VV	590	9697	0.14%	0.008%
114	8.287	8.268	8.331	VV	538	8809	0.13%	0.008%
115	8.358	8.331	8.448	VV	3666	80620	1.19%	0.070%
116	8.471	8.448	8.490	VV	544	11910	0.18%	0.010%
117	8.511	8.490	8.530	VV	656	12138	0.18%	0.011%
118	8.544	8.530	8.578	VV	589	12179	0.18%	0.011%
119	8.592	8.578	8.632	VV	1154	20881	0.31%	0.018%
120	8.653	8.632	8.688	VV	335	6768	0.10%	0.006%
121	8.708	8.688	8.731	VV	420	6134	0.09%	0.005%
122	8.777	8.731	8.796	VV	1474	23554	0.35%	0.020%
123	8.812	8.796	8.824	VV	922	11440	0.17%	0.010%
124	8.833	8.824	8.855	VV	648	9998	0.15%	0.009%
125	8.888	8.855	8.948	VV	2152	49076	0.72%	0.043%
126	8.963	8.948	8.985	VV	562	7555	0.11%	0.007%
127	9.011	8.985	9.043	VV	513	8303	0.12%	0.007%
128	9.065	9.043	9.077	VV	312	4013	0.06%	0.003%
129	9.122	9.077	9.147	VV	426	13195	0.19%	0.011%
130	9.174	9.147	9.218	VV	831	15325	0.23%	0.013%
131	9.244	9.218	9.274	VV	1474	24426	0.36%	0.021%
132	9.293	9.274	9.328	VV	955	14652	0.22%	0.013%
133	9.336	9.328	9.354	VV	327	3858	0.06%	0.003%
134	9.388	9.354	9.411	VV	880	16117	0.24%	0.014%
135	9.432	9.411	9.472	VV	3042	38078	0.56%	0.033%
136	9.491	9.472	9.531	VV	304	6325	0.09%	0.005%
137	9.542	9.531	9.547	VV	217	1821	0.03%	0.002%
138	9.577	9.547	9.616	VV	637	14876	0.22%	0.013%
139	9.655	9.616	9.809	VV	582924	6443012	94.74%	5.590%
140	9.816	9.809	9.902	VV	371	11880	0.17%	0.010%
141	9.932	9.902	9.945	VV	231	4935	0.07%	0.004%

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142	9.965	9.945	9.991	VV	405	7626	0.11%	0.007%
143	10.045	9.991	10.064	VV	552	15043	0.22%	0.013%
144	10.075	10.064	10.104	VV	466	7552	0.11%	0.007%
145	10.132	10.104	10.194	VV	328	11990	0.18%	0.010%
146	10.249	10.194	10.267	VV	378	9371	0.14%	0.008%
147	10.285	10.267	10.301	VV	424	5946	0.09%	0.005%
148	10.321	10.301	10.351	VV	538	11450	0.17%	0.010%
149	10.392	10.351	10.425	VV	663	17716	0.26%	0.015%
150	10.441	10.425	10.458	VV	425	6043	0.09%	0.005%
151	10.469	10.458	10.488	VV	358	5477	0.08%	0.005%
152	10.516	10.488	10.545	VV	1026	18038	0.27%	0.016%
153	10.557	10.545	10.585	VV	286	5213	0.08%	0.005%
154	10.603	10.585	10.621	VV	252	4261	0.06%	0.004%
155	10.640	10.621	10.660	VV	196	3528	0.05%	0.003%
156	10.712	10.660	10.734	VV	336	8930	0.13%	0.008%
157	10.761	10.734	10.790	VV	365	8910	0.13%	0.008%
158	10.811	10.790	10.861	VV	589	10956	0.16%	0.010%
159	10.894	10.861	10.931	VV	1419	18488	0.27%	0.016%
160	10.967	10.931	10.991	VV	138	2181	0.03%	0.002%
161	11.021	10.991	11.050	PV	1872	24243	0.36%	0.021%
162	11.093	11.050	11.170	VV	580810	6671816	98.10%	5.788%
163	11.182	11.170	11.223	VV	750	13273	0.20%	0.012%
164	11.244	11.223	11.260	VV	195	3616	0.05%	0.003%
165	11.285	11.260	11.358	VV	237	8007	0.12%	0.007%
166	11.404	11.358	11.455	VV	302	12323	0.18%	0.011%
167	11.478	11.455	11.528	VV	482	11270	0.17%	0.010%
168	11.549	11.528	11.594	VV	342	9367	0.14%	0.008%
169	11.610	11.594	11.634	VV	111	2326	0.03%	0.002%
170	11.751	11.634	11.784	VV	660	27357	0.40%	0.024%
171	11.798	11.784	11.824	VV	370	5560	0.08%	0.005%
172	11.846	11.824	11.874	VV	231	5481	0.08%	0.005%
173	11.894	11.874	11.930	VV	331	9067	0.13%	0.008%
174	11.971	11.930	12.009	VV	757	21949	0.32%	0.019%
175	12.029	12.009	12.052	VV	682	11399	0.17%	0.010%
176	12.070	12.052	12.138	VV	475	15630	0.23%	0.014%
177	12.221	12.138	12.311	VV	1844	54129	0.80%	0.047%
178	12.336	12.311	12.357	VV	1213	16281	0.24%	0.014%
179	12.399	12.357	12.594	VV	561865	6800978	100.00%	5.900%
180	12.601	12.594	12.624	VV	70	1366	0.02%	0.001%
181	12.673	12.624	12.704	VV	234	7163	0.11%	0.006%
182	12.717	12.704	12.735	VV	236	2291	0.03%	0.002%
183	12.838	12.735	12.931	VV	302568	3667462	53.93%	3.182%
184	12.948	12.931	12.963	VV	456	7614	0.11%	0.007%
185	13.010	12.963	13.168	VV	539095	6502462	95.61%	5.641%
186	13.211	13.168	13.244	VV	404	14956	0.22%	0.013%
187	13.282	13.244	13.327	VV	521	19259	0.28%	0.017%
188	13.384	13.327	13.408	VV	779	19983	0.29%	0.017%
189	13.435	13.408	13.478	VV	1176	24907	0.37%	0.022%
190	13.539	13.478	13.558	VV	1500	28138	0.41%	0.024%
191	13.595	13.558	13.764	VV	509448	6446362	94.79%	5.593%
192	13.837	13.764	13.871	VV	327	15756	0.23%	0.014%
193	13.884	13.871	13.899	VV	270	3904	0.06%	0.003%
194	13.918	13.899	13.950	VV	244	6452	0.09%	0.006%

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195	14.028	13.950	14.128	VV	1094	37948	0.56%	0.033%
196	14.153	14.128	14.184	VV	577	12358	0.18%	0.011%
197	14.211	14.184	14.229	VV	335	6566	0.10%	0.006%
198	14.300	14.229	14.373	VV	432	27150	0.40%	0.024%
199	14.396	14.373	14.437	VV	321	11353	0.17%	0.010%
200	14.464	14.437	14.520	VV	340	14734	0.22%	0.013%
201	14.544	14.520	14.571	VV	389	8453	0.12%	0.007%
202	14.592	14.571	14.616	VV	367	6038	0.09%	0.005%
203	14.696	14.616	14.824	VV	491177	6311101	92.80%	5.475%
204	14.866	14.824	14.924	VV	317	9873	0.15%	0.009%
205	14.950	14.924	14.991	PV	199	5316	0.08%	0.005%
206	15.002	14.991	15.031	VV	154	2035	0.03%	0.002%
207	15.076	15.031	15.088	VV	166	2453	0.04%	0.002%
208	15.114	15.088	15.154	VV	176	4085	0.06%	0.004%
209	15.211	15.154	15.247	VV	1181	20538	0.30%	0.018%
210	15.265	15.247	15.290	VV	172	2829	0.04%	0.002%
211	15.407	15.290	15.448	PV	203	11247	0.17%	0.010%
212	15.570	15.448	15.624	VV	306	18241	0.27%	0.016%
213	15.715	15.624	15.831	VV	475768	6171807	90.75%	5.354%
214	15.851	15.831	15.871	VV	153	3238	0.05%	0.003%
215	15.897	15.871	15.930	VV	187	4366	0.06%	0.004%
216	16.005	15.930	16.038	PV	161	5778	0.08%	0.005%
217	16.078	16.038	16.131	VV	114	4414	0.06%	0.004%
218	16.195	16.131	16.264	VV	1742	30012	0.44%	0.026%
219	16.274	16.264	16.295	VV	170	1928	0.03%	0.002%
220	16.359	16.295	16.393	VV	215	6380	0.09%	0.006%
221	16.406	16.393	16.418	VV	117	1437	0.02%	0.001%
222	16.546	16.418	16.578	PV	376	14792	0.22%	0.013%
223	16.663	16.578	16.731	VV	451399	6063367	89.15%	5.260%
224	16.749	16.731	16.791	VV	317	7273	0.11%	0.006%
225	16.812	16.791	16.884	VV	149	3743	0.06%	0.003%
226	16.953	16.884	16.984	VV	318	6427	0.09%	0.006%
227	16.999	16.984	17.044	VV	168	3051	0.04%	0.003%
228	17.111	17.044	17.171	PV	2514	39934	0.59%	0.035%
229	17.248	17.171	17.278	VV	174	7325	0.11%	0.006%
230	17.337	17.278	17.358	VV	245	8419	0.12%	0.007%
231	17.437	17.358	17.481	VV	4667	75858	1.12%	0.066%
232	17.550	17.481	17.613	VV	420390	6116891	89.94%	5.307%
233	17.640	17.613	17.748	VV	430	21798	0.32%	0.019%
234	17.824	17.748	17.901	VV	400	14951	0.22%	0.013%
235	17.969	17.901	18.011	PV	3519	53311	0.78%	0.046%
236	18.139	18.011	18.186	VV	118	8759	0.13%	0.008%
237	18.274	18.186	18.311	PV	230	10952	0.16%	0.010%
238	18.382	18.311	18.471	VV	425715	6043157	88.86%	5.243%
239	18.509	18.471	18.571	VV	202	7981	0.12%	0.007%
240	18.635	18.571	18.658	VV	182	4735	0.07%	0.004%
241	18.774	18.658	18.818	PV	3017	46839	0.69%	0.041%
242	18.956	18.818	18.987	VV	222	9175	0.13%	0.008%
243	19.164	18.987	19.249	PV	428957	5973219	87.83%	5.182%
244	19.319	19.249	19.344	VV	528	18857	0.28%	0.016%
245	19.451	19.344	19.506	VV	3048	182426	2.68%	0.158%
246	19.533	19.506	19.613	VV	3210	102533	1.51%	0.089%

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247	19.801	19.613	19.831	VV	1981	128535	1.89%	0.112%
248	19.903	19.831	20.003	VV	404559	5825520	85.66%	5.054%
249	20.255	20.003	20.298	VV	3245	305181	4.49%	0.265%
250	20.428	20.298	20.481	VV	2645	253400	3.73%	0.220%
251	20.616	20.481	20.741	VV	321516	5922266	87.08%	5.138%
252	20.765	20.741	20.831	VV	2384	124414	1.83%	0.108%
253	20.855	20.831	20.881	VV	2229	64875	0.95%	0.056%
254	20.932	20.881	20.967	VV	2165	107428	1.58%	0.093%
255	21.011	20.967	21.070	VV	2690	133329	1.96%	0.116%
256	21.293	21.070	21.391	VV	1949	356782	5.25%	0.310%
257	21.469	21.391	21.622	VV	233803	5573920	81.96%	4.836%
258	21.637	21.622	21.662	VV	1272	30341	0.45%	0.026%
259	21.766	21.662	21.834	VV	1126	112158	1.65%	0.097%
260	21.847	21.834	21.888	VV	872	25623	0.38%	0.022%
261	21.983	21.888	22.051	VV	833	65515	0.96%	0.057%
262	22.066	22.051	22.224	VV	471	24734	0.36%	0.021%

Sum of corrected areas: 115264388

Aliphatic EPH 021125.M Sat Mar 01 01:31:30 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049143.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.34		0.43	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16	16.4		0.48	1.42	mg/kg
Aromatic C16-C21	Aromatic C16-C21	34.2		1.36	2.37	mg/kg
Aromatic C21-C36	Aromatic C21-C36	55.5		2.84	3.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.9		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.1		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.0		40 - 140	64%	SPK: 50

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1421-03	Acq On:	28 Feb 2025 19:32
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FD049143.D	Misc:	
Instrument:	FID_D	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15672874	98.559	200	ug/ml
Aromatic C12-C16	5.795	8.396	27922630	173.502	300	ug/ml
Aromatic C16-C21	8.397	12.661	55344709	360.883	500	ug/ml
Aromatic C21-C36	12.662	18.073	83844627	585.856	800	ug/ml
Aromatic EPH	4.076	18.073	182784840	1220		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8004383	55.93		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5197744	59.12		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	5182415	32.03		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 01 02:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.352	8004383	55.932 ug/ml
	Spiked Amount 50.000		Recovery = 111.86%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5197744	59.124 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 118.25%	
11)	S ortho-Terphenyl (SURR)	11.234	5182415	32.035 ug/ml
	Spiked Amount 50.000		Recovery = 64.07%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	6806303	42.739 ug/ml
2)	T Naphthalene (C11.7)	5.693	7499718	47.231 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	7389966	47.465 ug/ml
5)	T Acenaphthylene (C15.06)	8.005	8610669	52.954 ug/ml
7)	T Acenaphthene (C15.5)	8.300	9186896	55.844 ug/ml
8)	T Flouorene (C16.55)	9.079	9395749	59.599 ug/ml
9)	T Phenanthrene (C19.36)	10.468	9704487	64.396 ug/ml
10)	T Anthracene (C19.43)	10.543	9855802	65.258 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10149905	65.774 ug/ml
13)	T Pyrene (C20.8)	12.566	9846593	63.915 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9400442	71.546 ug/ml
15)	T Chrysene (C27.41)	14.479	9200670	56.904 ug/ml
16)	T benzo[b]fluoranthene ...	15.987	9332863	67.829 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9405347	59.549 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.362	9010214	66.380 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.734	8902747	81.470 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	9038652	58.261 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.984	8820594	60.852 ug/ml

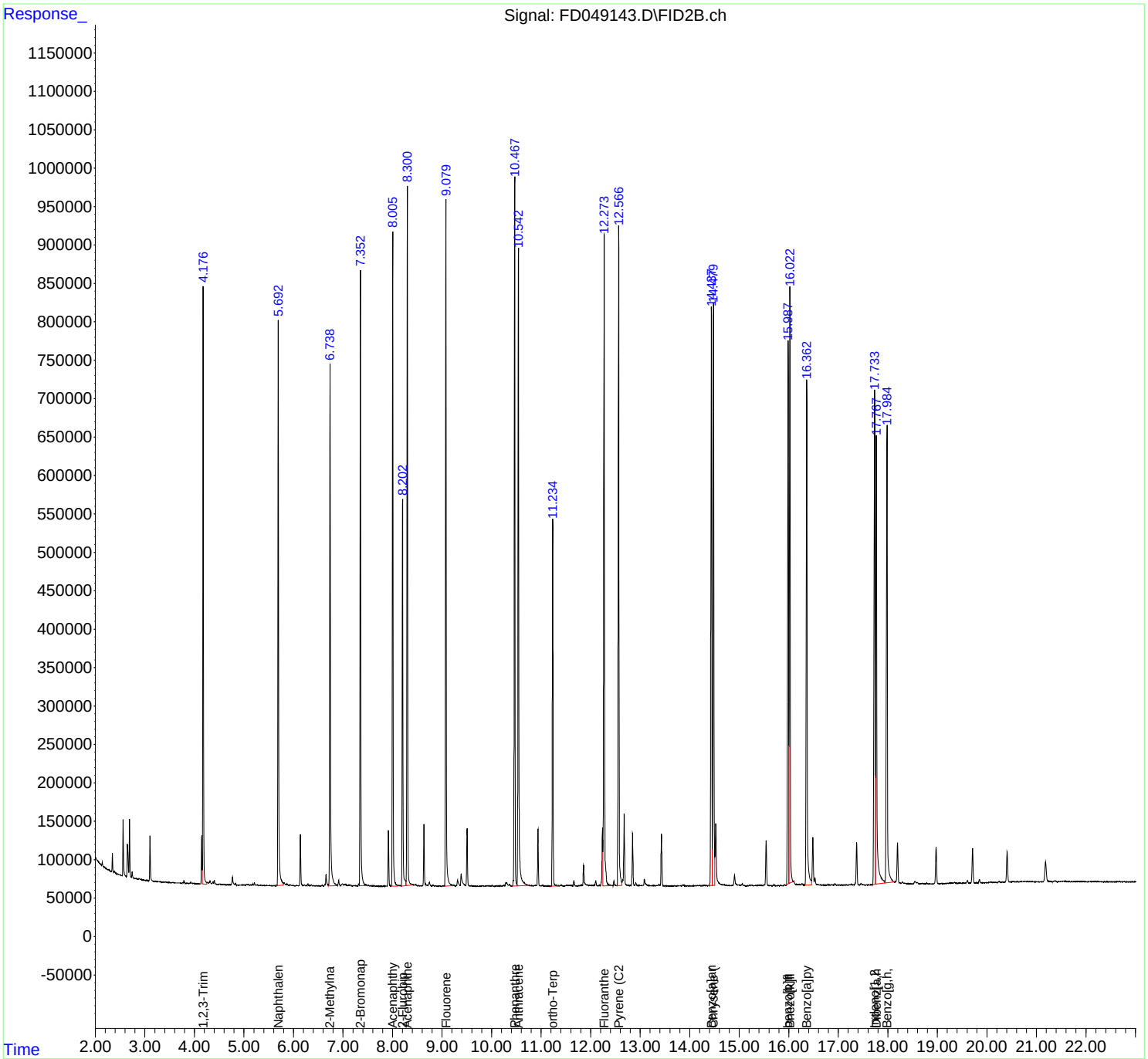
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 01 02:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.052	4.042	4.077	BV	152	1824	0.02%	0.001%
2	4.097	4.077	4.123	VV	200	2811	0.03%	0.001%
3	4.147	4.123	4.159	PV	63153	570838	5.59%	0.282%
4	4.176	4.159	4.247	VV	777604	6811089	66.71%	3.366%
5	4.264	4.247	4.283	VV	2518	44255	0.43%	0.022%
6	4.316	4.283	4.354	VV	4700	97915	0.96%	0.048%
7	4.372	4.354	4.387	VV	3581	42915	0.42%	0.021%
8	4.401	4.387	4.469	VV	5387	74932	0.73%	0.037%
9	4.491	4.469	4.498	VV	557	7223	0.07%	0.004%
10	4.514	4.498	4.544	VV	978	14805	0.14%	0.007%
11	4.549	4.544	4.557	VV	330	1801	0.02%	0.001%
12	4.561	4.557	4.570	VV	421	2357	0.02%	0.001%
13	4.583	4.570	4.593	VV	435	3298	0.03%	0.002%
14	4.608	4.593	4.617	VV	342	3178	0.03%	0.002%
15	4.624	4.617	4.642	VV	206	2250	0.02%	0.001%
16	4.648	4.642	4.660	VV	239	1291	0.01%	0.001%
17	4.666	4.660	4.673	PV	202	1068	0.01%	0.001%
18	4.689	4.673	4.709	VV	613	6780	0.07%	0.003%
19	4.714	4.709	4.725	VV	382	2486	0.02%	0.001%
20	4.769	4.725	4.811	VV	10385	149782	1.47%	0.074%
21	4.827	4.811	4.848	VV	2278	26668	0.26%	0.013%
22	4.858	4.848	4.882	VV	430	4562	0.04%	0.002%
23	4.886	4.882	4.891	VV	241	1049	0.01%	0.001%
24	4.898	4.891	4.906	VV	230	1407	0.01%	0.001%
25	4.918	4.906	4.942	VV	220	2878	0.03%	0.001%
26	4.967	4.942	5.002	VV	677	11218	0.11%	0.006%
27	5.005	5.002	5.017	VV	305	1996	0.02%	0.001%
28	5.020	5.017	5.033	VV	386	1872	0.02%	0.001%
29	5.048	5.033	5.114	VV	1629	47163	0.46%	0.023%
30	5.134	5.114	5.151	VV	783	13240	0.13%	0.007%
31	5.177	5.151	5.195	VV	1693	25292	0.25%	0.013%
32	5.211	5.195	5.234	VV	3795	44340	0.43%	0.022%
33	5.236	5.234	5.255	VV	718	8073	0.08%	0.004%
34	5.268	5.255	5.322	VV	1166	20586	0.20%	0.010%
35	5.340	5.322	5.351	VV	618	8137	0.08%	0.004%
36	5.358	5.351	5.380	VV	467	5563	0.05%	0.003%

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37	5.383	5.380	5.406	VV	281	3514	0.03%	0.002%
38	5.411	5.406	5.435	VV	287	3793	0.04%	0.002%
39	5.461	5.444	5.494	VV	641	10403	0.10%	0.005%
40	5.517	5.494	5.550	VV	539	12495	0.12%	0.006%
41	5.556	5.550	5.575	VV	427	4592	0.04%	0.002%
42	5.581	5.575	5.595	VV	324	2879	0.03%	0.001%
43	5.607	5.595	5.618	VV	343	2915	0.03%	0.001%
44	5.641	5.618	5.669	PV	299	5438	0.05%	0.003%
45	5.693	5.669	5.800	VV	734408	7561727	74.06%	3.737%
46	5.810	5.800	5.855	VV	4343	90069	0.88%	0.045%
47	5.872	5.855	5.907	VV	2447	49341	0.48%	0.024%
48	5.938	5.907	5.964	VV	1474	35410	0.35%	0.018%
49	5.973	5.964	5.990	VV	652	7722	0.08%	0.004%
50	5.997	5.990	6.008	VV	560	4300	0.04%	0.002%
51	6.019	6.008	6.023	VV	471	2723	0.03%	0.001%
52	6.028	6.023	6.045	VV	418	4213	0.04%	0.002%
53	6.054	6.045	6.058	VV	468	3046	0.03%	0.002%
54	6.065	6.058	6.070	VV	486	3555	0.03%	0.002%
55	6.072	6.070	6.103	VV	590	9105	0.09%	0.005%
56	6.140	6.103	6.193	VV	67007	710905	6.96%	0.351%
57	6.200	6.193	6.205	VV	605	3527	0.03%	0.002%
58	6.221	6.205	6.243	VV	1759	21706	0.21%	0.011%
59	6.261	6.243	6.274	VV	912	10752	0.11%	0.005%
60	6.291	6.274	6.310	VV	3067	35997	0.35%	0.018%
61	6.324	6.310	6.347	VV	1046	12714	0.12%	0.006%
62	6.362	6.347	6.399	VV	1716	21006	0.21%	0.010%
63	6.404	6.399	6.429	VV	348	4618	0.05%	0.002%
64	6.461	6.429	6.466	VV	514	6657	0.07%	0.003%
65	6.472	6.466	6.491	VV	361	3290	0.03%	0.002%
66	6.502	6.491	6.526	VV	403	5043	0.05%	0.002%
67	6.547	6.536	6.552	VV	237	1204	0.01%	0.001%
68	6.577	6.552	6.612	VV	1315	17042	0.17%	0.008%
69	6.631	6.612	6.641	VV	1693	18622	0.18%	0.009%
70	6.658	6.641	6.692	VV	15464	194307	1.90%	0.096%
71	6.700	6.692	6.711	VV	1758	18601	0.18%	0.009%
72	6.739	6.711	6.851	VV	679171	7383052	72.31%	3.649%
73	6.854	6.851	6.881	VV	2477	33866	0.33%	0.017%
74	6.887	6.881	6.891	VV	1471	8334	0.08%	0.004%
75	6.913	6.891	6.949	VV	7638	108444	1.06%	0.054%
76	6.991	6.949	7.011	VV	3213	74290	0.73%	0.037%
77	7.023	7.011	7.037	VV	2116	29343	0.29%	0.015%
78	7.058	7.037	7.082	VV	2231	44437	0.44%	0.022%
79	7.088	7.082	7.096	VV	906	7281	0.07%	0.004%
80	7.117	7.096	7.129	VV	1542	21709	0.21%	0.011%
81	7.145	7.129	7.174	VV	1799	28489	0.28%	0.014%
82	7.177	7.174	7.190	VV	523	3784	0.04%	0.002%
83	7.197	7.190	7.201	VV	451	2479	0.02%	0.001%
84	7.207	7.201	7.216	VV	518	3999	0.04%	0.002%
85	7.232	7.216	7.250	VV	1040	14345	0.14%	0.007%
86	7.256	7.250	7.269	VV	605	6331	0.06%	0.003%
87	7.272	7.269	7.291	VV	581	4459	0.04%	0.002%
88	7.315	7.291	7.328	VV	2492	28344	0.28%	0.014%
89	7.352	7.328	7.504	VV	801757	8084590	79.18%	3.996%

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90	7.514	7.504	7.539	VV	1114	19282	0.19%	0.010%
91	7.544	7.539	7.565	VV	777	10551	0.10%	0.005%
92	7.578	7.565	7.595	VV	802	10909	0.11%	0.005%
93	7.621	7.595	7.665	VV	1518	23244	0.23%	0.011%
94	7.678	7.665	7.691	VV	391	2936	0.03%	0.001%
95	7.702	7.691	7.737	VV	451	6081	0.06%	0.003%
96	7.750	7.737	7.774	PV	306	2740	0.03%	0.001%
97	7.792	7.785	7.803	PV	215	1206	0.01%	0.001%
98	7.832	7.803	7.851	VV	452	6992	0.07%	0.003%
99	7.859	7.851	7.873	VV	421	3328	0.03%	0.002%
100	7.918	7.873	7.959	VV	72554	765234	7.49%	0.378%
101	7.966	7.959	7.978	VV	423	4020	0.04%	0.002%
102	8.005	7.978	8.100	VV	851882	8632702	84.55%	4.267%
103	8.113	8.100	8.135	VV	1710	25024	0.25%	0.012%
104	8.148	8.135	8.177	VV	1404	20232	0.20%	0.010%
105	8.203	8.177	8.273	VV	503940	5226608	51.19%	2.583%
106	8.300	8.273	8.374	VV	912589	9249942	90.59%	4.572%
107	8.375	8.374	8.398	VV	3521	39746	0.39%	0.020%
108	8.407	8.398	8.440	VV	2046	46801	0.46%	0.023%
109	8.458	8.440	8.492	VV	2464	56965	0.56%	0.028%
110	8.497	8.492	8.504	VV	841	5350	0.05%	0.003%
111	8.516	8.504	8.540	VV	1431	19998	0.20%	0.010%
112	8.564	8.540	8.597	VV	1002	22135	0.22%	0.011%
113	8.636	8.597	8.712	VV	80870	885631	8.67%	0.438%
114	8.745	8.712	8.786	VV	5378	105642	1.03%	0.052%
115	8.819	8.786	8.850	VV	1807	37017	0.36%	0.018%
116	8.871	8.850	8.898	VV	888	13799	0.14%	0.007%
117	8.908	8.898	8.921	VV	423	3912	0.04%	0.002%
118	8.946	8.921	8.957	VV	673	10071	0.10%	0.005%
119	8.961	8.957	8.970	VV	561	3299	0.03%	0.002%
120	8.974	8.970	8.990	VV	413	3165	0.03%	0.002%
121	9.018	8.999	9.026	VV	804	9065	0.09%	0.004%
122	9.032	9.026	9.037	VV	779	4178	0.04%	0.002%
123	9.041	9.037	9.051	VV	778	4913	0.05%	0.002%
124	9.079	9.051	9.222	VV	893730	9456631	92.62%	4.674%
125	9.236	9.222	9.269	VV	1541	31863	0.31%	0.016%
126	9.314	9.269	9.370	VV	8137	183643	1.80%	0.091%
127	9.386	9.370	9.478	VV	15973	356742	3.49%	0.176%
128	9.506	9.478	9.553	VV	75343	848602	8.31%	0.419%
129	9.557	9.553	9.569	VV	789	6282	0.06%	0.003%
130	9.592	9.569	9.641	VV	976	29599	0.29%	0.015%
131	9.649	9.641	9.670	VV	490	4976	0.05%	0.002%
132	9.685	9.670	9.707	VV	401	5380	0.05%	0.003%
133	9.779	9.730	9.796	PV	561	13417	0.13%	0.007%
134	9.822	9.796	9.843	VV	980	16641	0.16%	0.008%
135	9.857	9.843	9.863	VV	375	3626	0.04%	0.002%
136	9.877	9.863	9.885	VV	641	6582	0.06%	0.003%
137	9.900	9.885	9.915	VV	939	12077	0.12%	0.006%
138	9.932	9.915	9.957	VV	973	16847	0.16%	0.008%
139	9.976	9.957	9.989	VV	517	8146	0.08%	0.004%
140	10.010	9.989	10.036	VV	1599	19088	0.19%	0.009%
141	10.049	10.036	10.057	VV	322	3092	0.03%	0.002%

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142	10.060	10.057	10.072	VV	316	2204	0.02%	0.001%
143	10.097	10.072	10.119	VV	870	16240	0.16%	0.008%
144	10.131	10.119	10.158	VV	927	12583	0.12%	0.006%
145	10.173	10.158	10.204	VV	1017	16348	0.16%	0.008%
146	10.241	10.204	10.245	VV	1242	19318	0.19%	0.010%
147	10.250	10.245	10.270	VV	1326	14116	0.14%	0.007%
148	10.288	10.270	10.294	VV	5085	44328	0.43%	0.022%
149	10.301	10.294	10.343	VV	4770	90742	0.89%	0.045%
150	10.362	10.343	10.402	VV	2787	46194	0.45%	0.023%
151	10.468	10.402	10.515	VV	919186	9737893	95.37%	4.813%
152	10.543	10.515	10.649	VV	826412	9821537	96.19%	4.854%
153	10.655	10.649	10.735	VV	5155	158646	1.55%	0.078%
154	10.739	10.735	10.745	VV	1684	9348	0.09%	0.005%
155	10.751	10.745	10.787	VV	1663	31644	0.31%	0.016%
156	10.802	10.787	10.847	VV	1009	26408	0.26%	0.013%
157	10.850	10.847	10.856	VV	666	3532	0.03%	0.002%
158	10.873	10.856	10.886	VV	1434	18259	0.18%	0.009%
159	10.891	10.886	10.900	VV	1164	8827	0.09%	0.004%
160	10.937	10.900	10.976	VV	74543	880787	8.63%	0.435%
161	10.993	10.976	11.007	VV	990	15777	0.15%	0.008%
162	11.028	11.007	11.088	VV	1310	34538	0.34%	0.017%
163	11.093	11.088	11.105	VV	424	2973	0.03%	0.001%
164	11.119	11.105	11.126	VV	366	3726	0.04%	0.002%
165	11.134	11.126	11.140	VV	371	2645	0.03%	0.001%
166	11.152	11.140	11.175	VV	460	6598	0.06%	0.003%
167	11.179	11.175	11.187	VV	226	1405	0.01%	0.001%
168	11.234	11.200	11.309	PV	478016	5197562	50.90%	2.569%
169	11.323	11.309	11.340	VV	1206	18645	0.18%	0.009%
170	11.343	11.340	11.364	VV	803	9899	0.10%	0.005%
171	11.372	11.364	11.378	VV	984	6608	0.06%	0.003%
172	11.407	11.378	11.435	VV	1922	37632	0.37%	0.019%
173	11.443	11.435	11.457	VV	448	4843	0.05%	0.002%
174	11.463	11.457	11.475	VV	340	3115	0.03%	0.002%
175	11.509	11.475	11.513	VV	1111	17109	0.17%	0.008%
176	11.522	11.513	11.552	VV	1204	24381	0.24%	0.012%
177	11.561	11.552	11.576	VV	1182	15808	0.15%	0.008%
178	11.588	11.576	11.616	VV	1425	27110	0.27%	0.013%
179	11.629	11.616	11.635	VV	827	8822	0.09%	0.004%
180	11.661	11.635	11.694	VV	7342	100043	0.98%	0.049%
181	11.705	11.694	11.721	VV	574	7697	0.08%	0.004%
182	11.731	11.721	11.749	VV	827	11893	0.12%	0.006%
183	11.755	11.749	11.779	VV	959	12231	0.12%	0.006%
184	11.816	11.779	11.837	VV	1893	42894	0.42%	0.021%
185	11.857	11.837	11.920	VV	27368	392477	3.84%	0.194%
186	11.932	11.920	11.959	VV	1876	34073	0.33%	0.017%
187	11.974	11.959	11.996	VV	1358	24934	0.24%	0.012%
188	12.009	11.996	12.035	VV	1284	24418	0.24%	0.012%
189	12.037	12.035	12.046	VV	929	4808	0.05%	0.002%
190	12.103	12.046	12.135	VV	7193	127813	1.25%	0.063%
191	12.147	12.135	12.159	VV	773	8543	0.08%	0.004%
192	12.179	12.159	12.196	VV	2052	26567	0.26%	0.013%
193	12.238	12.196	12.248	VV	76301	831869	8.15%	0.411%
194	12.273	12.248	12.417	VV	852748	10210561	100.00%	5.046%

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195	12.419	12.417	12.425	VV	779	3495	0.03%	0.002%
196	12.440	12.425	12.448	VV	855	11371	0.11%	0.006%
197	12.468	12.448	12.515	VV	7122	103350	1.01%	0.051%
198	12.518	12.515	12.532	VV	803	7169	0.07%	0.004%
199	12.566	12.532	12.631	VV	865346	9902740	96.99%	4.894%
200	12.676	12.631	12.730	VV	94615	1298259	12.71%	0.642%
201	12.736	12.730	12.792	VV	1642	42454	0.42%	0.021%
202	12.846	12.792	12.885	VV	69040	849874	8.32%	0.420%
203	12.910	12.885	12.944	VV	4519	73734	0.72%	0.036%
204	12.961	12.944	12.969	VV	927	11854	0.12%	0.006%
205	12.974	12.969	12.977	VV	822	3842	0.04%	0.002%
206	12.989	12.977	13.007	VV	939	13626	0.13%	0.007%
207	13.012	13.007	13.016	VV	695	3494	0.03%	0.002%
208	13.042	13.016	13.062	VV	1107	24265	0.24%	0.012%
209	13.084	13.062	13.154	VV	9048	187617	1.84%	0.093%
210	13.161	13.154	13.168	VV	949	6925	0.07%	0.003%
211	13.176	13.168	13.216	VV	1013	21493	0.21%	0.011%
212	13.224	13.216	13.239	VV	725	8146	0.08%	0.004%
213	13.260	13.239	13.265	VV	918	12031	0.12%	0.006%
214	13.269	13.265	13.284	VV	825	8548	0.08%	0.004%
215	13.291	13.284	13.297	VV	823	5566	0.05%	0.003%
216	13.303	13.297	13.315	VV	782	6736	0.07%	0.003%
217	13.336	13.315	13.348	VV	839	12204	0.12%	0.006%
218	13.383	13.348	13.402	VV	2198	40734	0.40%	0.020%
219	13.429	13.402	13.476	VV	68084	826651	8.10%	0.409%
220	13.484	13.476	13.506	VV	417	6082	0.06%	0.003%
221	13.536	13.506	13.543	VV	467	7707	0.08%	0.004%
222	13.550	13.543	13.560	VV	326	2244	0.02%	0.001%
223	13.574	13.570	13.587	VV	254	1198	0.01%	0.001%
224	13.601	13.593	13.606	VV	227	1141	0.01%	0.001%
225	13.621	13.613	13.645	PV	96	1363	0.01%	0.001%
226	13.662	13.652	13.668	VV	326	1699	0.02%	0.001%
227	13.686	13.675	13.694	VV	308	2352	0.02%	0.001%
228	13.700	13.694	13.712	VV	279	1992	0.02%	0.001%
229	13.722	13.712	13.733	VV	292	2331	0.02%	0.001%
230	13.743	13.733	13.752	VV	196	1655	0.02%	0.001%
231	13.761	13.752	13.765	VV	288	1903	0.02%	0.001%
232	13.771	13.765	13.795	VV	412	4892	0.05%	0.002%
233	13.799	13.795	13.806	VV	293	1486	0.01%	0.001%
234	13.828	13.806	13.835	VV	532	5605	0.05%	0.003%
235	13.868	13.835	13.896	VV	1781	35299	0.35%	0.017%
236	13.900	13.896	13.929	VV	442	6777	0.07%	0.003%
237	13.959	13.929	13.975	PV	374	5501	0.05%	0.003%
238	13.992	13.975	14.012	VV	364	4836	0.05%	0.002%
239	14.024	14.012	14.042	VV	292	3511	0.03%	0.002%
240	14.047	14.042	14.051	VV	222	1088	0.01%	0.001%
241	14.057	14.051	14.068	VV	476	2482	0.02%	0.001%
242	14.092	14.068	14.113	VV	534	9723	0.10%	0.005%
243	14.128	14.113	14.140	VV	723	8637	0.08%	0.004%
244	14.156	14.140	14.167	VV	685	8714	0.09%	0.004%
245	14.171	14.167	14.179	VV	474	3369	0.03%	0.002%
246	14.190	14.179	14.199	VV	635	5945	0.06%	0.003%

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247	14.201	14.199	14.207	VV	547	2494	0.02%	0.001%
248	14.211	14.207	14.234	VV	560	6331	0.06%	0.003%
249	14.246	14.234	14.271	VV	563	8422	0.08%	0.004%
250	14.301	14.271	14.319	VV	725	14645	0.14%	0.007%
251	14.330	14.319	14.358	VV	770	13114	0.13%	0.006%
252	14.371	14.358	14.387	VV	495	7583	0.07%	0.004%
253	14.392	14.387	14.399	VV	464	2475	0.02%	0.001%
254	14.437	14.399	14.455	VV	753429	9421292	92.27%	4.656%
255	14.479	14.455	14.507	VV	755607	9223421	90.33%	4.559%
256	14.525	14.507	14.666	VV	81419	1467633	14.37%	0.725%
257	14.670	14.666	14.676	VV	1500	7995	0.08%	0.004%
258	14.698	14.676	14.735	VV	1845	47661	0.47%	0.024%
259	14.740	14.735	14.764	VV	1034	14225	0.14%	0.007%
260	14.769	14.764	14.789	VV	757	9427	0.09%	0.005%
261	14.798	14.789	14.816	VV	620	8364	0.08%	0.004%
262	14.832	14.816	14.853	VV	783	13629	0.13%	0.007%
263	14.867	14.853	14.871	VV	681	6814	0.07%	0.003%
264	14.903	14.871	14.975	VV	14292	272159	2.67%	0.135%
265	14.981	14.975	15.017	VV	1413	28794	0.28%	0.014%
266	15.060	15.017	15.081	VV	2602	53162	0.52%	0.026%
267	15.087	15.081	15.096	VV	737	5700	0.06%	0.003%
268	15.105	15.096	15.120	VV	716	5931	0.06%	0.003%
269	15.126	15.120	15.137	VV	302	1937	0.02%	0.001%
270	15.147	15.137	15.165	VV	315	3066	0.03%	0.002%
271	15.175	15.165	15.185	VV	413	3612	0.04%	0.002%
272	15.242	15.185	15.260	VV	1271	28512	0.28%	0.014%
273	15.264	15.260	15.274	VV	664	4142	0.04%	0.002%
274	15.275	15.274	15.286	VV	493	2798	0.03%	0.001%
275	15.288	15.286	15.295	VV	401	1705	0.02%	0.001%
276	15.319	15.295	15.327	VV	506	7068	0.07%	0.003%
277	15.338	15.327	15.345	VV	665	5002	0.05%	0.002%
278	15.352	15.345	15.357	VV	639	4055	0.04%	0.002%
279	15.361	15.357	15.368	VV	621	3422	0.03%	0.002%
280	15.388	15.368	15.394	VV	734	9750	0.10%	0.005%
281	15.397	15.394	15.408	VV	869	5906	0.06%	0.003%
282	15.420	15.408	15.467	VV	819	24666	0.24%	0.012%
283	15.504	15.467	15.512	VV	1496	23618	0.23%	0.012%
284	15.542	15.512	15.576	VV	59045	774946	7.59%	0.383%
285	15.584	15.576	15.618	VV	716	13705	0.13%	0.007%
286	15.633	15.618	15.654	VV	450	5322	0.05%	0.003%
287	15.660	15.654	15.678	VV	237	1702	0.02%	0.001%
288	15.699	15.678	15.745	VV	1497	21848	0.21%	0.011%
289	15.747	15.745	15.777	VV	327	3844	0.04%	0.002%
290	15.784	15.777	15.793	VV	436	2429	0.02%	0.001%
291	15.805	15.793	15.813	VV	341	2646	0.03%	0.001%
292	15.827	15.813	15.856	VV	465	7662	0.08%	0.004%
293	15.863	15.856	15.874	VV	241	2324	0.02%	0.001%
294	15.913	15.874	15.949	VV	1507	34267	0.34%	0.017%
295	15.987	15.949	16.001	VV	709435	9405943	92.12%	4.649%
296	16.022	16.001	16.084	VV	779727	9614362	94.16%	4.752%
297	16.099	16.084	16.137	VV	6515	135808	1.33%	0.067%
298	16.141	16.137	16.174	VV	2011	38155	0.37%	0.019%
299	16.180	16.174	16.186	VV	1603	11122	0.11%	0.005%

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300	16.191	16.186	16.205	VV	1655	17622	0.17%	0.009%
301	16.220	16.205	16.248	VV	1716	38866	0.38%	0.019%
302	16.266	16.248	16.299	VV	3050	55816	0.55%	0.028%
303	16.302	16.299	16.314	VV	1126	8630	0.08%	0.004%
304	16.362	16.314	16.458	VV	658504	9102311	89.15%	4.499%
305	16.485	16.458	16.512	VV	63370	924994	9.06%	0.457%
306	16.528	16.512	16.561	VV	10257	168263	1.65%	0.083%
307	16.565	16.561	16.617	VV	2021	51064	0.50%	0.025%
308	16.622	16.617	16.657	VV	1167	23795	0.23%	0.012%
309	16.665	16.657	16.675	VV	845	8655	0.08%	0.004%
310	16.681	16.675	16.683	VV	740	3579	0.04%	0.002%
311	16.697	16.683	16.718	VV	996	17435	0.17%	0.009%
312	16.723	16.718	16.725	VV	769	3414	0.03%	0.002%
313	16.730	16.725	16.737	VV	818	5004	0.05%	0.002%
314	16.739	16.737	16.750	VV	708	4898	0.05%	0.002%
315	16.753	16.750	16.765	VV	781	5759	0.06%	0.003%
316	16.795	16.765	16.828	VV	1794	42802	0.42%	0.021%
317	16.855	16.828	16.900	VV	1463	43524	0.43%	0.022%
318	16.932	16.900	16.997	VV	2508	67778	0.66%	0.033%
319	17.012	16.997	17.044	VV	989	23107	0.23%	0.011%
320	17.049	17.044	17.078	VV	931	16940	0.17%	0.008%
321	17.083	17.078	17.096	VV	843	7437	0.07%	0.004%
322	17.113	17.096	17.125	VV	884	13431	0.13%	0.007%
323	17.144	17.125	17.154	VV	860	13634	0.13%	0.007%
324	17.164	17.154	17.181	VV	1187	15224	0.15%	0.008%
325	17.185	17.181	17.191	VV	902	5378	0.05%	0.003%
326	17.198	17.191	17.207	VV	956	8053	0.08%	0.004%
327	17.234	17.207	17.241	VV	1132	20298	0.20%	0.010%
328	17.256	17.241	17.288	VV	1546	35348	0.35%	0.017%
329	17.293	17.288	17.312	VV	1234	15198	0.15%	0.008%
330	17.370	17.312	17.407	VV	56292	802346	7.86%	0.397%
331	17.414	17.407	17.424	VV	1160	9965	0.10%	0.005%
332	17.457	17.424	17.486	VV	3058	64042	0.63%	0.032%
333	17.497	17.486	17.513	VV	1082	16320	0.16%	0.008%
334	17.519	17.513	17.545	VV	1046	17432	0.17%	0.009%
335	17.572	17.545	17.590	VV	1071	24613	0.24%	0.012%
336	17.618	17.590	17.638	VV	1038	26047	0.26%	0.013%
337	17.663	17.638	17.677	VV	1240	25906	0.25%	0.013%
338	17.734	17.677	17.746	VV	646147	8963404	87.79%	4.430%
339	17.767	17.746	17.943	VV	585316	9337294	91.45%	4.615%
340	17.984	17.943	18.154	VV	596885	9344801	91.52%	4.619%
341	18.195	18.154	18.229	VV	55883	887184	8.69%	0.438%
342	18.236	18.229	18.262	VV	3659	66226	0.65%	0.033%
343	18.297	18.262	18.300	VBA	4578	84196	0.82%	0.042%

Sum of corrected areas: 202333013

Aromatic EPH 021125.M Sat Mar 01 04:02:09 2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FC021125AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FC022525AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166863BS	FC068297.D	n-Dotriacontane (C32)	yogesh	3/5/2025 7:49:04 AM	Ankita	3/5/2025 9:16:08	Peak Integrated by Software
PB166863BS	FC068297.D	n-Tricontane (C30)	yogesh	3/5/2025 7:49:04 AM	Ankita	3/5/2025 9:16:08	Peak Integrated by Software
PB166863BSD	FC068298.D	n-Dotriacontane (C32)	yogesh	3/5/2025 7:49:05 AM	Ankita	3/5/2025 9:16:10	Peak Integrated by Software
PB166863BSD	FC068298.D	n-Tricontane (C30)	yogesh	3/5/2025 7:49:05 AM	Ankita	3/5/2025 9:16:10	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068302.D	n-Dotriacontane (C32)	yogesh	3/5/2025 7:49:07 AM	Ankita	3/5/2025 9:16:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068302.D	n-Tricontane (C30)	yogesh	3/5/2025 7:49:07 AM	Ankita	3/5/2025 9:16:11	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	FC022825AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1447-01	FC068339.D	1-chlorooctadecane (SURR)	yogesh	3/5/2025 7:49:39 AM	Ankita	3/5/2025 9:17:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD021125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049077.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:10 AM	Ankita	2/11/2025 9:13:40	Peak Integrated by Software
20 PPM AROMATIC HC	FD049079.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:12 AM	Ankita	2/11/2025 9:13:41	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD022525AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166863BSD	FD049103.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/26/2025 8:35:49 AM	Ankita	2/26/2025 9:12:19	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD022825AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049129.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	3/3/2025 8:01:30 AM	Ankita	3/4/2025 12:54:35	Peak Integrated by Software
Q1421-01D	FD049141.D	2-Flurobiphenyl (SURR)	yogesh	3/3/2025 8:01:31 AM	Ankita	3/4/2025 12:54:36	Peak Integrated by Software

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068250.D	10 Feb 2025 15:12	YP/AJ	Ok
2	I.BLK	FC068251.D	10 Feb 2025 15:48	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068252.D	10 Feb 2025 16:24	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068253.D	10 Feb 2025 17:01	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068254.D	10 Feb 2025 17:38	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068255.D	10 Feb 2025 18:14	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068256.D	10 Feb 2025 18:50	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068257.D	10 Feb 2025 19:26	YP/AJ	Ok
9	I.BLK	FC068258.D	10 Feb 2025 20:39	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068259.D	10 Feb 2025 21:16	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022525AL

Review By	yogesh	Review On	2/25/2025 12:19:25 PM		
Supervise By	Ankita	Supervise On	2/26/2025 9:03:48 AM		
SubDirectory	FC022525AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068293.D	25 Feb 2025 09:16	YP/AJ	Ok
2	I.BLK	FC068294.D	25 Feb 2025 10:06	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068295.D	25 Feb 2025 11:30	YP/AJ	Ok
4	PB166863BL	FC068296.D	25 Feb 2025 15:47	YP/AJ	Ok
5	PB166863BS	FC068297.D	25 Feb 2025 16:23	YP/AJ	Ok,M
6	PB166863BSD	FC068298.D	25 Feb 2025 16:59	YP/AJ	Ok,M
7	Q1415-05	FC068299.D	25 Feb 2025 17:36	YP/AJ	Ok
8	Q1415-06	FC068300.D	25 Feb 2025 18:13	YP/AJ	Ok
9	I.BLK	FC068301.D	25 Feb 2025 18:49	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068302.D	25 Feb 2025 19:26	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068319.D	28 Feb 2025 09:10	YP/AJ	Ok
2	I.BLK	FC068320.D	28 Feb 2025 09:46	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068321.D	28 Feb 2025 10:23	YP/AJ	Ok
4	PB166923BL	FC068322.D	28 Feb 2025 11:00	YP/AJ	Ok
5	PB166923BS	FC068323.D	28 Feb 2025 11:37	YP/AJ	Ok
6	PB166923BSD	FC068324.D	28 Feb 2025 12:13	YP/AJ	Ok
7	Q1415-01	FC068325.D	28 Feb 2025 12:50	YP/AJ	Ok
8	Q1415-02	FC068326.D	28 Feb 2025 13:26	YP/AJ	Ok
9	Q1415-03	FC068327.D	28 Feb 2025 14:03	YP/AJ	Ok
10	Q1415-04	FC068328.D	28 Feb 2025 14:40	YP/AJ	Ok
11	Q1421-07	FC068329.D	28 Feb 2025 15:16	YP/AJ	Ok
12	I.BLK	FC068330.D	28 Feb 2025 15:53	YP/AJ	Ok
13	20 PPM ALIPHATIC HC STD	FC068331.D	28 Feb 2025 16:30	YP/AJ	Ok
14	Q1421-01	FC068332.D	28 Feb 2025 17:44	YP/AJ	Ok
15	Q1421-01D	FC068333.D	28 Feb 2025 18:20	YP/AJ	Ok
16	Q1421-02	FC068334.D	28 Feb 2025 18:56	YP/AJ	Ok
17	Q1421-03	FC068335.D	28 Feb 2025 19:32	YP/AJ	Ok
18	Q1421-09	FC068336.D	28 Feb 2025 20:09	YP/AJ	Ok
19	Q1422-01	FC068337.D	28 Feb 2025 20:46	YP/AJ	Ok
20	Q1422-02	FC068338.D	28 Feb 2025 21:22	YP/AJ	Ok
21	Q1447-01	FC068339.D	28 Feb 2025 21:59	YP/AJ	Dilution

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	FC068340.D	28 Feb 2025 23:13	YP/AJ	Ok
23	20 PPM ALIPHATIC HC STD	FC068341.D	28 Feb 2025 23:50	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049070.D	10 Feb 2025 12:09	YP/AJ	Ok
2	I.BLK	FD049071.D	10 Feb 2025 12:45	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049072.D	10 Feb 2025 13:22	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD049073.D	10 Feb 2025 13:58	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049074.D	10 Feb 2025 14:35	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049075.D	10 Feb 2025 15:12	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049076.D	10 Feb 2025 15:48	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049077.D	10 Feb 2025 16:24	YP/AJ	Ok,M
9	I.BLK	FD049078.D	10 Feb 2025 17:01	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049079.D	10 Feb 2025 17:38	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022525AR

Review By	yogesh	Review On	2/25/2025 12:20:16 PM		
Supervise By	Ankita	Supervise On	2/26/2025 9:12:22 AM		
SubDirectory	FD022525AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049098.D	25 Feb 2025 09:16	YP/AJ	Ok
2	I.BLK	FD049099.D	25 Feb 2025 10:06	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049100.D	25 Feb 2025 11:30	YP/AJ	Ok
4	PB166863BL	FD049101.D	25 Feb 2025 15:47	YP/AJ	Ok
5	PB166863BS	FD049102.D	25 Feb 2025 16:23	YP/AJ	Ok
6	PB166863BSD	FD049103.D	25 Feb 2025 16:59	YP/AJ	Ok,M
7	Q1415-05	FD049104.D	25 Feb 2025 17:36	YP/AJ	Ok
8	Q1415-06	FD049105.D	25 Feb 2025 18:13	YP/AJ	Ok
9	I.BLK	FD049106.D	25 Feb 2025 18:49	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049107.D	25 Feb 2025 19:26	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049127.D	28 Feb 2025 09:10	YP/AJ	Ok
2	I.BLK	FD049128.D	28 Feb 2025 09:46	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049129.D	28 Feb 2025 10:23	YP/AJ	Ok,M
4	PB166923BL	FD049130.D	28 Feb 2025 11:00	YP/AJ	Ok
5	PB166923BS	FD049131.D	28 Feb 2025 11:37	YP/AJ	Ok
6	PB166923BSD	FD049132.D	28 Feb 2025 12:13	YP/AJ	Ok
7	Q1415-01	FD049133.D	28 Feb 2025 12:50	YP/AJ	Ok
8	Q1415-02	FD049134.D	28 Feb 2025 13:26	YP/AJ	Ok
9	Q1415-03	FD049135.D	28 Feb 2025 14:03	YP/AJ	Ok
10	Q1415-04	FD049136.D	28 Feb 2025 14:40	YP/AJ	Ok
11	Q1421-07	FD049137.D	28 Feb 2025 15:16	YP/AJ	Ok
12	I.BLK	FD049138.D	28 Feb 2025 15:53	YP/AJ	Ok
13	20 PPM AROMATIC HC STD	FD049139.D	28 Feb 2025 16:30	YP/AJ	Ok
14	Q1421-01	FD049140.D	28 Feb 2025 17:44	YP/AJ	Ok
15	Q1421-01D	FD049141.D	28 Feb 2025 18:20	YP/AJ	Ok,M
16	Q1421-02	FD049142.D	28 Feb 2025 18:56	YP/AJ	Ok
17	Q1421-03	FD049143.D	28 Feb 2025 19:32	YP/AJ	Ok
18	Q1421-09	FD049144.D	28 Feb 2025 20:09	YP/AJ	Ok
19	Q1422-01	FD049145.D	28 Feb 2025 20:46	YP/AJ	Ok
20	Q1422-02	FD049146.D	28 Feb 2025 21:22	YP/AJ	Ok
21	Q1447-01	FD049147.D	28 Feb 2025 21:59	YP/AJ	Dilution

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	FD049148.D	28 Feb 2025 23:13	YP/AJ	Ok
23	20 PPM AROMATIC HC STD	FD049149.D	28 Feb 2025 23:50	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068250.D	10 Feb 2025 15:12		YP/AJ	Ok
2	I.BLK	I.BLK	FC068251.D	10 Feb 2025 15:48		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068252.D	10 Feb 2025 16:24		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068253.D	10 Feb 2025 17:01		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068254.D	10 Feb 2025 17:38		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068255.D	10 Feb 2025 18:14		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068256.D	10 Feb 2025 18:50		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068257.D	10 Feb 2025 19:26		YP/AJ	Ok
9	I.BLK	I.BLK	FC068258.D	10 Feb 2025 20:39		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068259.D	10 Feb 2025 21:16		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022525AL

Review By	yogesh	Review On	2/25/2025 12:19:25 PM		
Supervise By	Ankita	Supervise On	2/26/2025 9:03:48 AM		
SubDirectory	FC022525AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068293.D	25 Feb 2025 09:16		YP/AJ	Ok
2	I.BLK	I.BLK	FC068294.D	25 Feb 2025 10:06		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068295.D	25 Feb 2025 11:30		YP/AJ	Ok
4	PB166863BL	PB166863BL	FC068296.D	25 Feb 2025 15:47		YP/AJ	Ok
5	PB166863BS	PB166863BS	FC068297.D	25 Feb 2025 16:23		YP/AJ	Ok,M
6	PB166863BSD	PB166863BSD	FC068298.D	25 Feb 2025 16:59		YP/AJ	Ok,M
7	Q1415-05	FB02222025	FC068299.D	25 Feb 2025 17:36		YP/AJ	Ok
8	Q1415-06	B-173-GW01	FC068300.D	25 Feb 2025 18:13		YP/AJ	Ok
9	I.BLK	I.BLK	FC068301.D	25 Feb 2025 18:49		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068302.D	25 Feb 2025 19:26		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068319.D	28 Feb 2025 09:10		YP/AJ	Ok
2	I.BLK	I.BLK	FC068320.D	28 Feb 2025 09:46		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068321.D	28 Feb 2025 10:23		YP/AJ	Ok
4	PB166923BL	PB166923BL	FC068322.D	28 Feb 2025 11:00		YP/AJ	Ok
5	PB166923BS	PB166923BS	FC068323.D	28 Feb 2025 11:37		YP/AJ	Ok
6	PB166923BSD	PB166923BSD	FC068324.D	28 Feb 2025 12:13		YP/AJ	Ok
7	Q1415-01	B-163-SB01	FC068325.D	28 Feb 2025 12:50		YP/AJ	Ok
8	Q1415-02	B-172-SB01	FC068326.D	28 Feb 2025 13:26		YP/AJ	Ok
9	Q1415-03	B-163-SB02	FC068327.D	28 Feb 2025 14:03		YP/AJ	Ok
10	Q1415-04	B-172-SB02	FC068328.D	28 Feb 2025 14:40		YP/AJ	Ok
11	Q1421-07	P001-CLAY-CF01-02	FC068329.D	28 Feb 2025 15:16		YP/AJ	Ok
12	I.BLK	I.BLK	FC068330.D	28 Feb 2025 15:53		YP/AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068331.D	28 Feb 2025 16:30		YP/AJ	Ok
14	Q1421-01	P001-CLAY-CF01-01	FC068332.D	28 Feb 2025 17:44		YP/AJ	Ok
15	Q1421-01D	Q1421-01D	FC068333.D	28 Feb 2025 18:20		YP/AJ	Ok
16	Q1421-02	P001-CLAY-CF01-01M	FC068334.D	28 Feb 2025 18:56	FC068332.D	YP/AJ	Ok
17	Q1421-03	P001-CLAY-CF01-01M	FC068335.D	28 Feb 2025 19:32	FC068332.D!FC068334.D	YP/AJ	Ok
18	Q1421-09	P001-CLAY-CF02-01	FC068336.D	28 Feb 2025 20:09		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1422-01	B-154-SB01	FC068337.D	28 Feb 2025 20:46		YP/AJ	Ok
20	Q1422-02	B-154-SB02	FC068338.D	28 Feb 2025 21:22		YP/AJ	Ok
21	Q1447-01	WC1	FC068339.D	28 Feb 2025 21:59	need 10x & 100x dilution	YP/AJ	Dilution
22	I.BLK	I.BLK	FC068340.D	28 Feb 2025 23:13		YP/AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068341.D	28 Feb 2025 23:50		YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049070.D	10 Feb 2025 12:09		YP/AJ	Ok
2	I.BLK	I.BLK	FD049071.D	10 Feb 2025 12:45		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049072.D	10 Feb 2025 13:22		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049073.D	10 Feb 2025 13:58		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049074.D	10 Feb 2025 14:35		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049075.D	10 Feb 2025 15:12		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049076.D	10 Feb 2025 15:48		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049077.D	10 Feb 2025 16:24		YP/AJ	Ok,M
9	I.BLK	I.BLK	FD049078.D	10 Feb 2025 17:01		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049079.D	10 Feb 2025 17:38		YP/AJ	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022525AR

Review By	yogesh	Review On	2/25/2025 12:20:16 PM		
Supervise By	Ankita	Supervise On	2/26/2025 9:12:22 AM		
SubDirectory	FD022525AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049098.D	25 Feb 2025 09:16		YP/AJ	Ok
2	I.BLK	I.BLK	FD049099.D	25 Feb 2025 10:06		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049100.D	25 Feb 2025 11:30		YP/AJ	Ok
4	PB166863BL	PB166863BL	FD049101.D	25 Feb 2025 15:47		YP/AJ	Ok
5	PB166863BS	PB166863BS	FD049102.D	25 Feb 2025 16:23		YP/AJ	Ok
6	PB166863BSD	PB166863BSD	FD049103.D	25 Feb 2025 16:59		YP/AJ	Ok,M
7	Q1415-05	FB02222025	FD049104.D	25 Feb 2025 17:36		YP/AJ	Ok
8	Q1415-06	B-173-GW01	FD049105.D	25 Feb 2025 18:13		YP/AJ	Ok
9	I.BLK	I.BLK	FD049106.D	25 Feb 2025 18:49		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049107.D	25 Feb 2025 19:26		YP/AJ	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049127.D	28 Feb 2025 09:10		YP/AJ	Ok
2	I.BLK	I.BLK	FD049128.D	28 Feb 2025 09:46		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049129.D	28 Feb 2025 10:23		YP/AJ	Ok,M
4	PB166923BL	PB166923BL	FD049130.D	28 Feb 2025 11:00		YP/AJ	Ok
5	PB166923BS	PB166923BS	FD049131.D	28 Feb 2025 11:37		YP/AJ	Ok
6	PB166923BSD	PB166923BSD	FD049132.D	28 Feb 2025 12:13		YP/AJ	Ok
7	Q1415-01	B-163-SB01	FD049133.D	28 Feb 2025 12:50		YP/AJ	Ok
8	Q1415-02	B-172-SB01	FD049134.D	28 Feb 2025 13:26		YP/AJ	Ok
9	Q1415-03	B-163-SB02	FD049135.D	28 Feb 2025 14:03		YP/AJ	Ok
10	Q1415-04	B-172-SB02	FD049136.D	28 Feb 2025 14:40		YP/AJ	Ok
11	Q1421-07	P001-CLAY-CF01-02	FD049137.D	28 Feb 2025 15:16		YP/AJ	Ok
12	I.BLK	I.BLK	FD049138.D	28 Feb 2025 15:53		YP/AJ	Ok
13	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049139.D	28 Feb 2025 16:30		YP/AJ	Ok
14	Q1421-01	P001-CLAY-CF01-01	FD049140.D	28 Feb 2025 17:44		YP/AJ	Ok
15	Q1421-01D	Q1421-01D	FD049141.D	28 Feb 2025 18:20		YP/AJ	Ok,M
16	Q1421-02	P001-CLAY-CF01-01M	FD049142.D	28 Feb 2025 18:56	FD049140.D	YP/AJ	Ok
17	Q1421-03	P001-CLAY-CF01-01M	FD049143.D	28 Feb 2025 19:32	FD049140.D!FD049142.D	YP/AJ	Ok
18	Q1421-09	P001-CLAY-CF02-01	FD049144.D	28 Feb 2025 20:09		YP/AJ	Ok

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1422-01	B-154-SB01	FD049145.D	28 Feb 2025 20:46		YP/AJ	Ok
20	Q1422-02	B-154-SB02	FD049146.D	28 Feb 2025 21:22		YP/AJ	Ok
21	Q1447-01	WC1	FD049147.D	28 Feb 2025 21:59	need 25x dilution	YP/AJ	Dilution
22	I.BLK	I.BLK	FD049148.D	28 Feb 2025 23:13		YP/AJ	Ok
23	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049149.D	28 Feb 2025 23:50		YP/AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Baldev
Analyst: Nilesh
Date: 3/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134780

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1401-07	BP-VPB-192-GW-825-827	1	1.15	8.83	9.98	2.04	10.1	sludge sample
Q1401-08	BP-VPB-192-GW-860-862	2	1.13	8.65	9.78	1.93	9.2	sludge sample
Q1401-09	BP-VPB-192-GW-880-882	3	1.13	8.68	9.81	1.64	5.9	sludge sample
Q1403-05	SVOC-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1403-06	PEST-GPC-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q1403-07	PEST-GPC-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q1403-08	PCB-GPC-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1403-09	PCB-GPC-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1403-10	SVOC-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1403-11	PEST-GPC2-BLANK	10	1.00	1.00	2.00	2.00	100.0	
Q1403-12	PEST-GPC2-BLANK-SPIKE	11	1.00	1.00	2.00	2.00	100.0	
Q1403-13	PCB-GPC2-BLANK	12	1.00	1.00	2.00	2.00	100.0	
Q1403-14	PCB-GPC2-BLANK-SPIKE	13	1.00	1.00	2.00	2.00	100.0	
Q1407-01	022125	14	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1411-01	HR-02-02212025	15	1.16	8.48	9.64	9.09	93.5	
Q1411-02	HR-02-02212025-E2	16	1.15	8.70	9.85	9.12	91.6	
Q1411-03	HR-03-02212025	17	1.15	8.81	9.96	9.2	91.4	
Q1411-04	HR-03-02212025-E2	18	1.14	8.43	9.57	8.93	92.4	
Q1412-01	GAS-FUEL-ISLAND-MAT	19	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1413-01	BU-2-022125	20	1.18	8.58	9.76	9.28	94.4	
Q1413-02	BU-2-022125	21	1.19	8.45	9.64	9.22	95.0	
Q1414-01	BUR-1316	22	1.12	8.78	9.9	6.68	63.3	
Q1415-01	B-163-SB01	23	1.15	8.80	9.95	8.94	88.5	
Q1415-02	B-172-SB01	24	1.17	8.60	9.77	8.62	86.6	
Q1415-03	B-163-SB02	25	1.13	8.85	9.98	7.54	72.4	
Q1415-04	B-172-SB02	26	1.18	8.77	9.95	9.05	89.7	
Q1416-01	OK-01-022425	27	1.15	8.48	9.63	8.58	87.6	
Q1416-02	OK-01-022425-E2	28	1.16	8.69	9.85	8.77	87.6	

PERCENT SOLID

Supervisor: Baldev
Analyst: Nilesh
Date: 3/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134780

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1418-01	TR-06-02242025	35	1.15	8.71	9.86	8.87	88.6	
Q1418-02	TR-06-02242025-E2	36	1.12	8.75	9.87	8.76	87.3	
Q1420-01	TP-1-WC	29	1.15	8.82	9.97	9.04	89.5	
Q1420-02	TP-1-WC-EPH	30	1.12	8.76	9.88	8.96	89.5	
Q1420-03	TP-1-WC-VOC	31	1.14	8.85	9.99	9.18	90.8	
Q1420-05	TP-2-WC	32	1.15	8.62	9.77	8.79	88.6	
Q1420-06	TP-2-WC-EPH	33	1.15	8.40	9.55	8.63	89.0	
Q1420-07	TP-2-WC-VOC	34	1.14	8.85	9.99	9.00	88.8	
Q1421-01	P001-CLAY-CF01-01	37	1.17	8.60	9.77	7.22	70.3	
Q1421-02	Q1421-01MS	38	1.17	8.60	9.77	7.22	70.3	
Q1421-03	Q1421-01MSD	39	1.17	8.60	9.77	7.22	70.3	
Q1421-04	P001-CLAY-CF01-01	40	1.00	9.00	10.00	1.00	0.0	
Q1421-05	Q1421-04MS	41	1.00	9.00	10.00	1.00	0.0	
Q1421-06	Q1421-04MSD	42	1.00	9.00	10.00	1.00	0.0	
Q1421-07	P001-CLAY-CF01-02	43	1.12	8.55	9.67	7.55	75.2	
Q1421-08	P001-CLAY-CF01-02	44	1.00	9.00	10.00	1.00	0.0	
Q1421-09	P001-CLAY-CF02-01	45	1.11	8.74	9.85	7.96	78.4	
Q1421-10	P001-CLAY-CF02-01	46	1.00	9.00	10.00	1.00	0.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB134780

WorkList Name : %1-022425 **WorkList ID :** 187836 **Department :** Wet-Chemistry **Date :** 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1401-07	BP-VPB-192-GW-825-827	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-08	BP-VPB-192-GW-860-862	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-09	BP-VPB-192-GW-880-882	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1403-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1407-01	022125	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1411-01	HR-02-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG03	H23	02/21/2025	Chemtech -SO
Q1411-02	HR-02-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-03	HR-03-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-04	HR-03-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1412-01	GAS-FUEL-ISLAND-MAT	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1413-01	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1413-02	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO

Date/Time 02/24/25 15:25

Raw Sample Received by: JP (WDC)

Raw Sample Relinquished by: [signature]

Date/Time 02/24/25 17:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JP (WDC)

WORKLIST(Hardcopy Internal Chain)

Lh 134780

WorkList Name : %1-022425 **WorkList ID :** 187836 **Department :** Wet-Chemistry **Date :** 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1414-01	BUR-1316	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1415-01	B-163-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-02	B-172-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-03	B-163-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-04	B-172-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1416-01	OK-01-022425	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/24/2025	Chemtech -SO
Q1416-02	OK-01-022425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/24/2025	Chemtech -SO
Q1418-01	TR-06-02242025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1418-02	TR-06-02242025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1420-01	TP-1-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-02	TP-1-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-03	TP-1-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-05	TP-2-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-06	TP-2-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-07	TP-2-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1421-01	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-02	Q1421-01MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-03	Q1421-01MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-04	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-05	Q1421-04MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-06	Q1421-04MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time 02/24/25 15:25

Raw Sample Received by: JR Wec

Raw Sample Relinquished by: [signature]

Date/Time 02/24/25 17:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JR Wec

WORKLIST(Hardcopy Internal Chain)

VR134780

WorkList Name : %1-022425 **WorkList ID :** 187836 **Department :** Wet-Chemistry **Date :** 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1421-07	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-08	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-09	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-10	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time 02/24/25 15:25
Raw Sample Received by: JR Wolf
Raw Sample Relinquished by: [signature]

Date/Time 02/24/25 17:10
Raw Sample Received by: [signature]
Raw Sample Relinquished by: JR Wolf

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166863

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	02/25/2025
Matrix :	Water			**Extraction Start Time :**	08:43
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	02/25/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	15:40
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**Supervisor By :**	RUPESH

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24161
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2589
Hexane	N/A	E3877
6N HCL	N/A	EP2569
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25	RS (ESH Lab)	Y.P. Pest WCB.
15:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166863

Analytical Method: MNJDEP-EPH-7

Concentration Date: 02/25/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166863BL	PB166863BL	EPH	1000	<2	RUPESH	ritesh	2			SEP-1
PB166863BS	PB166863BS	EPH	1000	<2	RUPESH	ritesh	2			2
PB166863BSD	PB166863BSD	EPH	1000	<2	RUPESH	ritesh	2			3
Q1415-05	FB02222025	EPH	960	<2	RUPESH	ritesh	2	F		4
Q1415-06	B-173-GW01	EPH	900	<2	RUPESH	ritesh	2	H		5

RS
2/25

* **Extracts relinguished on the same date as received.**

166863
8:43

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1415EPH **WorkList ID :** 187871 **Department :** Extraction **Date :** 02-25-2025 08:37:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-05	FB02222025	Water	EPH	1:1 HCl to pH < 2	PORT06	N31	02/22/2025	NJEPH
Q1415-06	B-173-GW01	Water	EPH	1:1 HCl to pH < 2	PORT06	N31	02/22/2025	NJEPH

Date/Time 2/25/25 8:40
Raw Sample Received by: RS (Ext lab)
Raw Sample Relinquished by: CM SM

Date/Time 2/25/25 9:10
Raw Sample Received by: CM SM
Raw Sample Relinquished by: RS (Ext lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166923

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 02/27/2025

Extraction Start Time : 13:10

Extraction End Date : 02/28/2025

Extraction End Time : 10:45

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2591
Baked Na2SO4	N/A	EP2590
Sand	N/A	E2865
Hexane	N/A	E3877
Methylene Chloride	N/A	E3878
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/28/25	RS (Ext-lab)	Y.P.Pest1PCR
10:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166923

Analytical Method: MNJDEP-EPH-7

Concentration Date: 02/28/2025

Sample ID	Client Sample ID	Test	(g)/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166923BL	PB166923BL	EPH	30.02	N/A	ritesh	Evelyn	2			U2-1
PB166923BS	PB166923BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB166923BSD	PB166923BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
Q1415-01	B-163-SB01	EPH	30.06	N/A	ritesh	Evelyn	2	E		4
Q1415-02	B-172-SB01	EPH	30.05	N/A	ritesh	Evelyn	2	E		5
Q1415-03	B-163-SB02	EPH	30.03	N/A	ritesh	Evelyn	2	E		6
Q1415-04	B-172-SB02	EPH	30.08	N/A	ritesh	Evelyn	2	E		U6-1
Q1421-01	P001-CLAY-CF01-01	EPH	30.05	N/A	ritesh	Evelyn	2	E		2
Q1421-01DUP	P001-CLAY-CF01-01DUP	EPH	30.04	N/A	ritesh	Evelyn	2	E		3
Q1421-02	Q1421-01MS	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
Q1421-03	Q1421-01MSD	EPH	30.03	N/A	ritesh	Evelyn	2	E		5
Q1421-07	P001-CLAY-CF01-02	EPH	30.06	N/A	ritesh	Evelyn	2	F		6
Q1421-09	P001-CLAY-CF02-01	EPH	30.02	N/A	ritesh	Evelyn	2	E		U3-1
Q1422-01	B-154-SB01	EPH	30.07	N/A	ritesh	Evelyn	2	E		2
Q1422-02	B-154-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	E		3
Q1447-01	WC1	EPH	30.01	N/A	ritesh	Evelyn	2	B		4

RS
2/28

* **Extracts relinquished on the same date as received.**

16692-
13:10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1447 **WorkList ID :** 187944 **Department :** Extraction **Date :** 02-27-2025 13:05:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-01	B-163-SB01	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-02	B-172-SB01	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-03	B-163-SB02	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-04	B-172-SB02	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1421-01	P001-CLAY-CF01-01	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-02	Q1421-01MS	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-03	Q1421-01MSD	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-07	P001-CLAY-CF01-02	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-09	P001-CLAY-CF02-01	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1422-01	B-154-SB01	Solid	EPH	Cool 4 deg C	PORT06	H33	02/23/2025	NJEPH
Q1422-02	B-154-SB02	Solid	EPH	Cool 4 deg C	PORT06	H33	02/23/2025	NJEPH
Q1447-01	WC1	Solid	EPH	Cool 4 deg C	GENV01	H33	02/23/2025	NJEPH

Date/Time 2/27/25 13:05
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by: CP SM

Date/Time 2/27/25 13:30
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Ext-Lab)

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q1415
QUOTE NO.
COC Number 2046172

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Garret Fleming
ADDRESS: 1010 Abrams Ave
CITY Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Krupanski
PHONE: 610-310-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak replacement of SB
PROJECT NO.: 95C000878 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupanski
e-mail: QaQc@bcmsys.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Sandra Beasley PHONE: 908-728-3148

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ US EPA CLP
- ☐ Other _____
- ☐ EDD FORMAT BEM EDD

ANALYSIS

1: TCL VOC 410
2: TCL PAHs
3: Cr (III)
4: Cr (VI)
5: TAL metals
6: EPH
7: PCBs
8:
9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-163-SB01	S		X	2/22/25	334	6	X	X	X	X	X	X	X			
2.	B-172-SB01	S		X		400	6	X	X								
3.	B-163-SB02	S		X		426	6	X	X								
4.	B-172-SB02	S		X		730	6	X	X								
5.	FB0222025	DIW		X		830	7	X	X								
6.	B-173-GW01	GW		X		745	8	X	X								
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES

COMMENTS ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	2/22/25 11:00	1. 2-21-25 0700
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.7°C °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1415 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 2/24/2025 10:32:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 2/24/2025 7:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1415-01	B-163-SB01	Solid	02/22/2025	15:34					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1415-02	B-172-SB01	Solid	02/22/2025	16:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1415-03	B-163-SB02	Solid	02/22/2025	16:26					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1415-04	B-172-SB02	Solid	02/22/2025	19:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1415-05	FB02222025	Water	02/22/2025	20:30					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1415-06	B-173-GW01	Water	02/22/2025	19:45					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1415 PORT06
Client Name : Portal Partners Tri-Venture
Client Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 2/24/2025 10:32:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 2/24/2025 7:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : [signature]
Date / Time : 2-24-25 11:05

Received By : [signature]
Date / Time : 2-24-25

Storage Area : VOA Refridgerator Room