

Cover Page

Order ID : Q2392

Project ID : Thomas McGoven

Client : Earth Engineering Inc.

Lab Sample Number

Q2392-01
Q2392-02

Client Sample Number

S-1
S-1A

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: 6/28/2025

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 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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2392

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 Custody

✓

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: PRADIP PRAJAPATI

Date: 06/28/2025

LAB CHRONICLE

OrderID: Q2392
Client: Earth Engineering Inc.
Contact: Frank Dougherty, LSRP

OrderDate: 6/23/2025 10:03:33 AM
Project: Thomas McGoven
Location: A41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2392-01	S-1	SOIL			06/23/25			06/23/25
			PCB	8082A		06/25/25	06/25/25	
			Pesticide-TCL	8081B		06/25/25	06/25/25	
			EPH	NJEPH		06/24/25	06/25/25	



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: EARTH03
Lab Code: CHEM CASE No.: Q2392 SAS No.: Q2392 SDG No.: Q2392
Run Number: FC062525AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB168603BL	63			0
PB168603BS	89			0
PB168603BSD	88			0
S-1	73			0
S-1MS	68			0
S-1MSD	63			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

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: EARTH03
Lab Code: CHEM CASE No.: Q2392 SAS No.: Q2392 SDG No.: Q2392
Run Number: FD062525AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB168603BL	112	114	99	0
PB168603BS	106	106	88	0
PB168603BSD	106	105	87	0
S-1	84	85	53	0
S-1MS	113	109	64	0
S-1MSD	112	108	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

SOIL EPH SURROGATE RECOVERY

QC LIMITS

2-Bromonaphthalene (SURR)

(40-140)

2-Fluorobiphenyl (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

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Chemtech</u>	Client:	<u>Earth Engineering Inc.</u>	
Lab Code:	<u>CHEM</u>	Cas No:	<u>Q2392</u>	SAS No : <u>Q2392</u> SDG No: <u>Q2392</u>
Sample No :	<u>Q2392-01MS</u>	Datafile:	<u>FC069283.D</u>	Client ID : <u>S-1MS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10.8	0.40	5.46	47		(40-140)
Aliphatic C12-C16	7.2	0.51	5.02	62		(40-140)
Aliphatic C16-C21	10.8	0.55	9.75	85		(40-140)
Aliphatic C21-C28	14.5	0	10.2	71		(40-140)
Aliphatic C28-C40	21.7	2.08	19.9	82		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
n-Nonane (C9)	3.6	0.0000	1.3722	38	*	(40-140)
n-Decane (C10)	3.6	0.0000	1.7071	47		(40-140)
Naphthalene (C11.7)	3.6	0.0000	0.0480	1	*	(40-140)
n-Dodecane (C12)	3.6	0.0000	1.8668	52		(40-140)
2-methylnaphthalene (C12.89)	3.6	0.0000	0.0271	1	*	(40-140)
n-Tetradecane (C14)	3.6	0.0000	2.0772	58		(40-140)
n-Hexadecane (C16)	3.6	0.0000	2.2208	62		(40-140)
n-Octadecane (C18)	3.6	0.0000	2.3115	64		(40-140)
n-Eicosane (C20)	3.6	0.0000	2.4923	69		(40-140)
n-Heneicosane (C21)	3.6	0.0000	2.4498	68		(40-140)
n-Docosane (C22)	3.6	0.0000	2.4509	68		(40-140)
n-Tetracosane (C24)	7.2	0.0000	2.4631	34	*	(40-140)
n-Hexacosane (C26)	3.6	0.0000	2.4500	68		(40-140)
n-Octacosane (C28)	3.6	0.0000	2.4475	68		(40-140)
n-Tricontane (C30)	3.6	0.0000	2.4554	68		(40-140)
n-Dotriacontane (C32)	3.6	0.0000	2.5464	71		(40-140)
n-Tetratriacontane (C34)	3.6	0.0000	2.8628	80		(40-140)
n-Hexatriacontane (C36)	3.6	0.0000	3.3443	93		(40-140)
n-Octatriacontane (C38)	3.6	0.0000	3.7433	104		(40-140)
n-Tetracontane (C40)	3.6	0.0000	3.7707	105		(40-140)

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Chemtech</u>	Client:	<u>Earth Engineering Inc.</u>	
Lab Code:	<u>CHEM</u>	Cas No:	<u>Q2392</u>	SAS No : <u>Q2392</u> SDG No: <u>Q2392</u>
Sample No :	<u>Q2392-01MSD</u>	Datafile:	<u>FC069284.D</u>	Client ID : <u>S-1MSD</u>

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	10.8	0.40	5.40	46		0.86 (40-140) 50
Aliphatic C12-C16	7.2	0.51	4.98	62		0.64 (40-140) 50
Aliphatic C16-C21	10.8	0.55	7.63	66		25.8 (40-140) 50
Aliphatic C21-C28	14.4	0	10.1	70		0.85 (40-140) 50
Aliphatic C28-C40	21.6	2.08	19.9	82		0.24 (40-140) 50

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS QC Limit Of RPD
n-Nonane (C9)	3.6	0.0000	1.3885	39	*	2.6 (40-140) 50
n-Decane (C10)	3.6	0.0000	1.7259	48		2.11 (40-140) 50
Naphthalene (C11.7)	3.6	0.0000	0.0362	1	*	0 (40-140) 50
n-Dodecane (C12)	3.6	0.0000	1.8776	52		0 (40-140) 50
2-methylnaphthalene (C12.89)	3.6	0.0000	0.0227	1	*	0 (40-140) 50
n-Tetradecane (C14)	3.6	0.0000	2.0934	58		0 (40-140) 50
n-Hexadecane (C16)	3.6	0.0000	2.2299	62		0 (40-140) 50
n-Octadecane (C18)	3.6	0.0000	2.3062	64		0 (40-140) 50
n-Eicosane (C20)	3.6	0.0000	2.4703	69		0 (40-140) 50
n-Heneicosane (C21)	3.6	0.0000	2.4254	67		1.48 (40-140) 50
n-Docosane (C22)	3.6	0.0000	2.4239	67		1.48 (40-140) 50
n-Tetracosane (C24)	7.2	0.0000	2.4399	34	*	0 (40-140) 50
n-Hexacosane (C26)	3.6	0.0000	2.4323	68		0 (40-140) 50
n-Octacosane (C28)	3.6	0.0000	2.4356	68		0 (40-140) 50
n-Tricontane (C30)	3.6	0.0000	2.4501	68		0 (40-140) 50
n-Dotriacontane (C32)	3.6	0.0000	2.5375	70		1.42 (40-140) 50
n-Tetratriacontane (C34)	3.6	0.0000	2.8408	79		1.26 (40-140) 50
n-Hexatriacontane (C36)	3.6	0.0000	3.3286	92		1.08 (40-140) 50
n-Octatriacontane (C38)	3.6	0.0000	3.6972	103		0.97 (40-140) 50
n-Tetracontane (C40)	3.6	0.0000	3.7390	104		0.96 (40-140) 50

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Chemtech</u>	Client:	<u>Earth Engineering Inc.</u>	
Lab Code:	<u>CHEM</u>	Cas No:	<u>Q2392</u>	SAS No : <u>Q2392</u> SDG No: <u>Q2392</u>
Sample No :	<u>Q2392-01MS</u>	Datafile:	<u>FD049519.D</u>	Client ID : <u>S-1MS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	7.2	0.36	6.12	80		(40-140)
Aromatic C12-C16	10.8	0.51	9.91	87		(40-140)
Aromatic C16-C21	18.1	2.39	21.8	107		(40-140)
Aromatic C21-C36	28.9	1.82	34.6	113		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
1,2,3-Trimethylbenzene (C10.1)	3.6	0.0244	2.9560	81		(40-140)
Naphthalene (C11.7)	3.6	0.0338	2.7870	76		(40-140)
2-Methylnaphthalene (C12.89)	3.6	0.0337	2.6736	73		(40-140)
Acenaphthylene (C15.06)	3.6	0.0355	2.9146	80		(40-140)
Acenaphthene (C15.5)	3.6	0.0404	3.1128	85		(40-140)
Fluorene (C16.55)	3.6	0.0162	3.2812	91		(40-140)
Phenanthrene (C19.36)	3.6	0.0391	3.4866	96		(40-140)
Anthracene (C19.43)	3.6	0.0104	3.5162	97		(40-140)
Pyrene (C20.8)	3.6	0.0358	3.6925	102		(40-140)
Fluoranthene (C21.85)	3.6	0.0458	3.6560	100		(40-140)
Benzo[a]anthracene (C26.37)	3.6	0.0579	3.8028	104		(40-140)
Chrysene (C27.41)	3.6	0.0779	7.9181	218	*	(40-140)
Benzo[k]fluoranthene (C30.14)	3.6	0.0371	7.9703	220	*	(40-140)
Dibenz[a,h]anthracene (C30.36)	3.6	0.0397	7.9797	221	*	(40-140)
benzo[b]fluoranthene (C30.41)	3.6	0.0384	7.5338	208	*	(40-140)
Benzo[a]pyrene (C31.34)	3.6	0.0194	3.7328	103		(40-140)
Benzo[g,h,i]perylene (C34.01)	3.6	0.0310	3.6821	101		(40-140)
Indeno[1,2,3-cd]pyrene (C35.01)	3.6	0.1789	4.3979	117		(40-140)

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Chemtech</u>	Client:	<u>Earth Engineering Inc.</u>	
Lab Code:	<u>CHEM</u>	Cas No:	<u>Q2392</u>	SAS No : <u>Q2392</u> SDG No: <u>Q2392</u>
Sample No :	<u>Q2392-01MSD</u>	Datafile:	<u>FD049520.D</u>	Client ID : <u>S-1MSD</u>

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	7.2	0.36	6.06	79		0.88 (40-140)	50
Aromatic C12-C16	10.8	0.51	9.78	86		1.16 (40-140)	50
Aromatic C16-C21	18.0	2.39	24.0	119		10 (40-140)	50
Aromatic C21-C36	28.8	1.82	34.7	113		0 (40-140)	50

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
1,2,3-Trimethylbenzene (C10.1)	3.6	0.0244	2.9099	80		1.24 (40-140)	50
Naphthalene (C11.7)	3.6	0.0338	2.7441	75		1.32 (40-140)	50
2-Methylnaphthalene (C12.89)	3.6	0.0337	2.6324	72		1.38 (40-140)	50
Acenaphthylene (C15.06)	3.6	0.0355	2.8798	79		1.26 (40-140)	50
Acenaphthene (C15.5)	3.6	0.0404	3.0695	84		1.18 (40-140)	50
Fluorene (C16.55)	3.6	0.0162	3.2448	90		1.1 (40-140)	50
Phenanthrene (C19.36)	3.6	0.0391	3.4580	95		1.05 (40-140)	50
Anthracene (C19.43)	3.6	0.0104	3.4812	96		1.04 (40-140)	50
Pyrene (C20.8)	3.6	0.0358	3.6857	101		0.99 (40-140)	50
Fluoranthene (C21.85)	3.6	0.0458	3.6520	100		0 (40-140)	50
Benzo[a]anthracene (C26.37)	3.6	0.0579	3.8169	104		0 (40-140)	50
Chrysene (C27.41)	3.6	0.0779	7.9476	219	*	0.46 (40-140)	50
Bnezo[k]fluoranthene (C30.14)	3.6	0.0371	7.9974	221	*	0.45 (40-140)	50
Dibenz[a,h]anthracene (C30.36)	3.6	0.0397	8.0149	222	*	0.45 (40-140)	50
benzo[b]fluoranthene (C30.41)	3.6	0.0384	7.5594	209	*	0.48 (40-140)	50
Benzo[a]pyrene (C31.34)	3.6	0.0194	3.7440	103		0 (40-140)	50
Benzo[g,h,i]perylene (C34.01)	3.6	0.0310	3.6939	102		0.99 (40-140)	50
Indeno[1,2,3-cd]pyrene (C35.01)	3.6	0.1789	4.4187	118		0.85 (40-140)	50

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Chemtech</u>	Client:	<u>Earth Engineering Inc.</u>	
Lab Code:	<u>CHEM</u>	Cas No:	<u>Q2392</u>	SAS No : <u>Q2392</u> SDG No: <u>Q2392</u>
Sample No :	<u>PB168603BS</u>	Datafile:	<u>FC069279.D</u>	Client ID : <u>PB168603BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10.0	6.41	64		(40-140)
Aliphatic C12-C16	6.7	5.67	85		(40-140)
Aliphatic C16-C21	10.0	9.29	93		(40-140)
Aliphatic C21-C28	13.3	12.9	97		(40-140)
Aliphatic C28-C40	20.0	22.0	110		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
n-Nonane (C9)	3.3	1.64656	50		(40-140)
n-Decane (C10)	3.3	2.14581	65		(40-140)
Naphthalene (C11.7)	3.3	0.00000	0	*	(40-140)
n-Dodecane (C12)	3.3	2.58620	78		(40-140)
2-methylnaphthalene (C12.89)	3.3	0.00000	0	*	(40-140)
n-Tetradecane (C14)	3.3	2.84004	86		(40-140)
n-Hexadecane (C16)	3.3	2.83184	86		(40-140)
n-Octadecane (C18)	3.3	2.86787	87		(40-140)
n-Eicosane (C20)	3.3	3.24179	98		(40-140)
n-Heneicosane (C21)	3.3	3.19617	97		(40-140)
n-Docosane (C22)	3.3	3.21963	98		(40-140)
n-Tetracosane (C24)	6.7	3.22573	48		(40-140)
n-Hexacosane (C26)	3.3	3.23464	98		(40-140)
n-Octacosane (C28)	3.3	3.25804	99		(40-140)
n-Tricontane (C30)	3.3	3.24349	98		(40-140)
n-Dotriacontane (C32)	3.3	3.35347	102		(40-140)
n-Tetratriacontane (C34)	3.3	3.56448	108		(40-140)
n-Hexatriacontane (C36)	3.3	3.89925	118		(40-140)
n-Octatriacontane (C38)	3.3	4.16437	126		(40-140)
n-Tetracontane (C40)	3.3	4.28144	130		(40-140)

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Chemtech</u>	Client:	<u>Earth Engineering Inc.</u>
Lab Code:	<u>CHEM</u>	Cas No:	<u>Q2392</u>
		SAS No :	<u>Q2392</u>
		SDG No:	<u>Q2392</u>
Sample No :	<u>PB168603BSD</u>	Datafile:	<u>FC069280.D</u>
		Client ID :	<u>PB168603BSD</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	6.36	64		0.683 (40-140)	25
Aliphatic C12-C16	6.7	5.64	85		0.489 (40-140)	25
Aliphatic C16-C21	10	9.20	92		0.874 (40-140)	25
Aliphatic C21-C28	13.3	12.8	96		0.73 (40-140)	25
Aliphatic C28-C40	20.0	22.1	110		0.55 (40-140)	25

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
n-Nonane (C9)	3.3	1.63027	49		2.02 (40-140)	25
n-Decane (C10)	3.3	2.13249	65		0 (40-140)	25
Naphthalene (C11.7)	3.3	0.00000	0	*	0 (40-140)	25
n-Dodecane (C12)	3.3	2.56373	78		0 (40-140)	25
2-methylnaphthalene (C12.89)	3.3	0.00000	0	*	0 (40-140)	25
n-Tetradecane (C14)	3.3	2.82813	86		0 (40-140)	25
n-Hexadecane (C16)	3.3	2.80917	85		1.17 (40-140)	25
n-Octadecane (C18)	3.3	2.84360	86		1.16 (40-140)	25
n-Eicosane (C20)	3.3	3.21187	97		1.03 (40-140)	25
n-Heneicosane (C21)	3.3	3.16613	96		1.04 (40-140)	25
n-Docosane (C22)	3.3	3.19109	97		1.03 (40-140)	25
n-Tetracosane (C24)	6.7	3.19733	48		0 (40-140)	25
n-Hexacosane (C26)	3.3	3.21156	97		1.03 (40-140)	25
n-Octacosane (C28)	3.3	3.25327	99		0 (40-140)	25
n-Tricontane (C30)	3.3	3.25607	99		1.02 (40-140)	25
n-Dotriacontane (C32)	3.3	3.37749	102		0 (40-140)	25
n-Tetratriacontane (C34)	3.3	3.59655	109		0.92 (40-140)	25
n-Hexatriacontane (C36)	3.3	3.92743	119		0.84 (40-140)	25
n-Octatriacontane (C38)	3.3	4.18396	127		0.79 (40-140)	25
n-Tetracontane (C40)	3.3	4.30347	130		0 (40-140)	25

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Chemtech</u>	Client:	<u>Earth Engineering Inc.</u>	
Lab Code:	<u>CHEM</u>	Cas No:	<u>Q2392</u>	SAS No : <u>Q2392</u> SDG No: <u>Q2392</u>
Sample No :	<u>PB168603BS</u>	Datafile:	<u>FD049515.D</u>	Client ID : <u>PB168603BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	5.12	77		(40-140)
Aromatic C12-C16	10.0	8.26	83		(40-140)
Aromatic C16-C21	16.7	15.3	92		(40-140)
Aromatic C21-C36	26.7	25.9	97		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
1,2,3-Trimethylbenzene (C10.1)	3.3	2.44065	74		(40-140)
Naphthalene (C11.7)	3.3	2.66314	81		(40-140)
2-Methylnaphthalene (C12.89)	3.3	2.54058	77		(40-140)
Acenaphthylene (C15.06)	3.3	2.77206	84		(40-140)
Acenaphthene (C15.5)	3.3	2.93767	89		(40-140)
Fluorene (C16.55)	3.3	3.06055	93		(40-140)
Phenanthrene (C19.36)	3.3	3.04827	92		(40-140)
Anthracene (C19.43)	3.3	2.91481	88		(40-140)
Fluoranthene (C21.85)	3.3	3.13873	95		(40-140)
Pyrene (C20.8)	3.3	3.12045	95		(40-140)
Benzo[a]anthracene (C26.37)	3.3	3.25905	99		(40-140)
Chrysene (C27.41)	3.3	3.46481	105		(40-140)
benzo[b]fluoranthene (C30.41)	3.3	3.29842	100		(40-140)
Benzo[k]fluoranthene (C30.14)	3.3	3.42491	104		(40-140)
Benzo[a]pyrene (C31.34)	3.3	3.17575	96		(40-140)
Indeno[1,2,3-cd]pyrene (C35.01)	3.3	3.59375	109		(40-140)
Dibenz[a,h]anthracene (C30.36)	3.3	3.10338	94		(40-140)
Benzo[g,h,i]perylene (C34.01)	3.3	3.10960	94		(40-140)

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Chemtech</u>	Client:	<u>Earth Engineering Inc.</u>	
Lab Code:	<u>CHEM</u>	Cas No:	<u>Q2392</u>	SAS No : <u>Q2392</u> SDG No: <u>Q2392</u>
Sample No :	<u>PB168603BSD</u>	Datafile:	<u>FD049516.D</u>	Client ID : <u>PB168603BSD</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	5.07	76		0.881 (40-140)	25
Aromatic C12-C16	10	8.21	82		0.507 (40-140)	25
Aromatic C16-C21	16.7	15.2	91		0.556 (40-140)	25
Aromatic C21-C36	26.6	25.8	97		0.364 (40-140)	25

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
1,2,3-Trimethylbenzene (C10.1)	3.3	2.39852	73		1.36 (40-140)	25
Naphthalene (C11.7)	3.3	2.65370	80		1.24 (40-140)	25
2-Methylnaphthalene (C12.89)	3.3	2.52071	76		1.31 (40-140)	25
Acenaphthylene (C15.06)	3.3	2.75583	84		0 (40-140)	25
Acenaphthene (C15.5)	3.3	2.92166	89		0 (40-140)	25
Flouorene (C16.55)	3.3	3.03608	92		1.08 (40-140)	25
Phenanthrene (C19.36)	3.3	3.02009	92		0 (40-140)	25
Anthracene (C19.43)	3.3	2.88465	87		1.14 (40-140)	25
Fluoranthene (C21.85)	3.3	3.10552	94		1.06 (40-140)	25
Pyrene (C20.8)	3.3	3.09117	94		1.06 (40-140)	25
Benzo[a]anthracene (C26.37)	3.3	3.22780	98		1.02 (40-140)	25
Chrysene (C27.41)	3.3	3.43219	104		0.96 (40-140)	25
benzo[b]fluoranthene (C30.41)	3.3	3.26855	99		1.01 (40-140)	25
Bnezo[k]fluoranthene (C30.14)	3.3	3.40022	103		0.97 (40-140)	25
Benzo[a]pyrene (C31.34)	3.3	3.15023	95		1.05 (40-140)	25
Indeno[1,2,3-cd]pyrene (C35.01)	3.3	3.57338	108		0.92 (40-140)	25
Dibenz[a,h]anthracene (C30.36)	3.3	3.09658	94		0 (40-140)	25
Benzo[g,h,i]perylene (C34.01)	3.3	3.09708	94		0 (40-140)	25

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168603BL

Lab Name: CHEMTECH

Contract: EARTH03

Lab Code: CHEM Case No.: Q2392

SAS No.: Q2392 SDG NO.: Q2392

Instrument ID: FID_C

Lab Sample ID: PB168603BL

Matrix: (soil/water) Solid

Date Extracted: 6/24/2025 1:45:00 P

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB168603BS	PB168603BS
PB168603BSD	PB168603BSD
S-1	Q2392-01
S-1MS	Q2392-01MS
S-1MSD	Q2392-01MSD

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	06/23/25
Project:	Thomas McGoven	Date Received:	06/23/25
Client Sample ID:	S-1	SDG No.:	Q2392
Lab Sample ID:	Q2392-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
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
06/24/25 13:45	06/25/25 12:48	PB168603

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	J	1	0.15	1.08	mg/kg	FC069281.D
Aliphatic C12-C16	Aliphatic C12-C16	0.51	J	1	0.12	0.72	mg/kg	FC069281.D
Aliphatic C16-C21	Aliphatic C16-C21	0.55	J	1	0.14	1.08	mg/kg	FC069281.D
Aliphatic C21-C28	Aliphatic C21-C28	0.57	U	1	0.57	1.44	mg/kg	FC069281.D
Aliphatic C28-C40	Aliphatic C28-C40	2.08	J	1	1.28	2.16	mg/kg	FC069281.D
Aromatic C10-C12	Aromatic C10-C12	0.36	J	1	0.13	0.72	mg/kg	FD049517.D
Aromatic C12-C16	Aromatic C12-C16	0.51	J	1	0.25	1.08	mg/kg	FD049517.D
Aromatic C16-C21	Aromatic C16-C21	2.39		1	0.43	1.80	mg/kg	FD049517.D
Aromatic C21-C36	Aromatic C21-C36	1.82	J	1	1.29	2.89	mg/kg	FD049517.D
Total AliphaticEPH	Total AliphaticEPH	3.54	J		2.27	6.48	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.08	J		2.10	6.49	mg/kg	
Total EPH	Total EPH	8.62	J		4.37	13.0	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

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	06/23/25
Project:	Thomas McGoven	Date Received:	06/23/25
Client Sample ID:	S-1	SDG No.:	Q2392
Lab Sample ID:	Q2392-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
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
FC069281.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.40	J	0.15	1.08	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.51	J	0.12	0.72	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.55	J	0.14	1.08	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.57	U	0.57	1.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.08	J	1.28	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.4		40 - 140	73%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2392-01	Acq On:	25 Jun 2025 12:48
Client Sample ID:	S-1	Operator:	YP/AJ
Data file:	FC069281.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	3.306	6.605	807014	5.502	300	ug/ml
Aliphatic C12-C16	6.606	10.009	1128622	7.089	200	ug/ml
Aliphatic C16-C21	10.010	13.380	1172889	7.595	300	ug/ml
Aliphatic C21-C28	13.381	17.044	1003070	7.487	400	ug/ml
Aliphatic C28-C40	17.045	22.027	2654326	28.812	600	ug/ml
Aliphatic EPH	3.306	22.027	6765921	56.485		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.114	13.114	4752505	36.38		ug/ml
Aliphatic C9-C28	3.306	17.044	4111595	27.673	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069281.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 12:48
Operator : YP/AJ
Sample : Q2392-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
S-1

Integration File: autoint1.e
Quant Time: Jun 26 05:17:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 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...	13.114	4752505	36.378 ug/ml
Spiked Amount 50.000		Recovery =	72.76%

Target Compounds

(f)=RT Delta > 1/2 Window

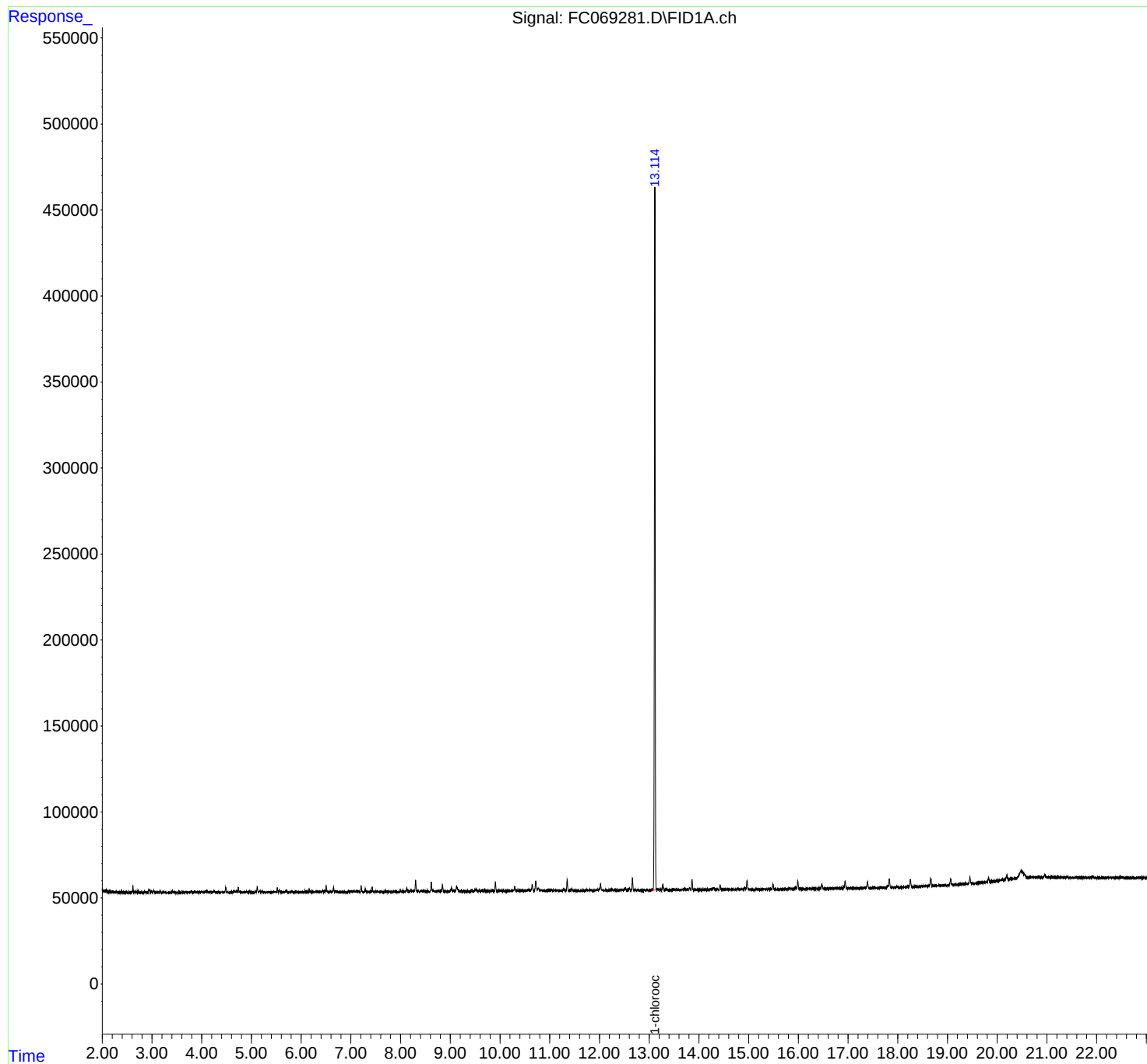
(m)=manual int.

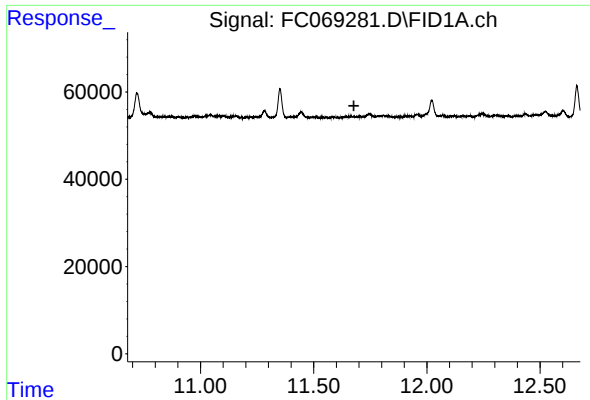
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069281.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 12:48
Operator : YP/AJ
Sample : Q2392-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
S-1

Integration File: autoint1.e
Quant Time: Jun 26 05:17:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

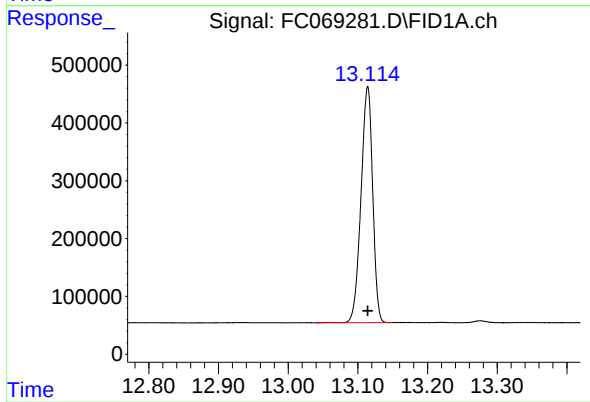




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 11.678 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
S-1



#12 1-chlorooctadecane (SURR)

R.T.: 13.114 min
Delta R.T.: 0.000 min
Response: 4752505
Conc: 36.38 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
 Data File : FC069281.D
 Signal(s) : FID1A.ch
 Acq On : 25 Jun 2025 12:48
 Sample : Q2392-01
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.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	3.513	3.501	3.521	PV	85	878	0.02%	0.008%
2	3.538	3.521	3.551	VV	354	3755	0.08%	0.033%
3	3.561	3.551	3.577	VV	288	3131	0.07%	0.027%
4	3.608	3.577	3.646	VV	468	10349	0.22%	0.090%
5	3.684	3.646	3.708	VV	710	11324	0.24%	0.098%
6	3.737	3.708	3.758	VV	401	8004	0.17%	0.069%
7	3.786	3.758	3.832	VV	1015	18557	0.39%	0.161%
8	3.857	3.832	3.891	VV	966	12870	0.27%	0.112%
9	3.907	3.891	3.939	VV	726	10455	0.22%	0.091%
10	3.956	3.939	3.973	VV	799	6775	0.14%	0.059%
11	3.996	3.973	4.049	VV	963	16577	0.35%	0.144%
12	4.080	4.049	4.094	VV	1176	15392	0.32%	0.134%
13	4.108	4.094	4.134	VV	1511	17273	0.36%	0.150%
14	4.143	4.134	4.158	VV	454	4279	0.09%	0.037%
15	4.177	4.158	4.207	VV	787	10163	0.21%	0.088%
16	4.248	4.207	4.275	VV	1285	22738	0.48%	0.197%
17	4.288	4.275	4.321	VV	472	7498	0.16%	0.065%
18	4.328	4.321	4.361	VV	253	3964	0.08%	0.034%
19	4.399	4.361	4.418	VV	439	8110	0.17%	0.070%
20	4.435	4.418	4.461	VV	367	6690	0.14%	0.058%
21	4.481	4.461	4.511	VV	3105	33867	0.71%	0.294%
22	4.525	4.511	4.544	VV	620	7473	0.16%	0.065%
23	4.590	4.544	4.616	VV	386	11769	0.25%	0.102%
24	4.650	4.616	4.669	VV	1154	19075	0.40%	0.165%
25	4.705	4.669	4.721	VV	1209	21139	0.44%	0.183%
26	4.736	4.721	4.755	VV	3081	30322	0.64%	0.263%
27	4.767	4.755	4.805	VV	593	11831	0.25%	0.103%
28	4.815	4.805	4.826	VV	350	3536	0.07%	0.031%
29	4.856	4.826	4.874	VV	481	8976	0.19%	0.078%
30	4.897	4.874	4.925	VV	538	9024	0.19%	0.078%
31	4.960	4.925	4.980	VV	813	11642	0.24%	0.101%
32	5.002	4.980	5.021	VV	237	4765	0.10%	0.041%
33	5.041	5.021	5.063	VV	409	6013	0.13%	0.052%
34	5.117	5.063	5.147	PV	3678	52356	1.10%	0.454%
35	5.173	5.147	5.191	VV	1022	17314	0.36%	0.150%
36	5.225	5.191	5.268	VV	722	18792	0.39%	0.163%

					rteres			
37	5.277	5.268	5.298	VV	195	2642	0.06%	0.023%
38	5.340	5.298	5.373	VV	355	12741	0.27%	0.111%
39	5.394	5.373	5.403	VV	334	4835	0.10%	0.042%
40	5.416	5.403	5.429	VV	363	4211	0.09%	0.037%
41	5.444	5.429	5.468	VV	377	5587	0.12%	0.048%
42	5.520	5.468	5.539	VV	2868	36181	0.76%	0.314%
43	5.560	5.539	5.582	VV	1672	21919	0.46%	0.190%
44	5.614	5.582	5.638	VV	450	9871	0.21%	0.086%
45	5.708	5.638	5.745	VV	915	21885	0.46%	0.190%
46	5.762	5.745	5.782	VV	312	4375	0.09%	0.038%
47	5.807	5.782	5.848	VV	747	14152	0.30%	0.123%
48	5.863	5.848	5.884	VV	320	4377	0.09%	0.038%
49	5.901	5.884	5.913	VV	302	3670	0.08%	0.032%
50	5.932	5.913	5.961	VV	343	5470	0.11%	0.047%
51	5.979	5.961	6.001	VV	258	3672	0.08%	0.032%
52	6.076	6.001	6.103	VV	871	20651	0.43%	0.179%
53	6.120	6.103	6.141	VV	509	7595	0.16%	0.066%
54	6.163	6.141	6.201	VV	1174	21039	0.44%	0.182%
55	6.223	6.201	6.248	VV	653	10938	0.23%	0.095%
56	6.296	6.248	6.314	VV	570	15671	0.33%	0.136%
57	6.323	6.314	6.363	VV	441	11404	0.24%	0.099%
58	6.388	6.363	6.408	VV	528	11254	0.24%	0.098%
59	6.432	6.408	6.451	VV	670	14194	0.30%	0.123%
60	6.504	6.451	6.573	VV	3867	63442	1.33%	0.550%
61	6.592	6.573	6.608	VV	617	8562	0.18%	0.074%
62	6.621	6.608	6.633	VV	556	6253	0.13%	0.054%
63	6.653	6.633	6.678	VV	2879	32441	0.68%	0.281%
64	6.689	6.678	6.713	VV	475	7861	0.17%	0.068%
65	6.727	6.713	6.762	VV	562	6696	0.14%	0.058%
66	6.778	6.762	6.804	PV	214	3064	0.06%	0.027%
67	6.830	6.804	6.858	VV	543	6594	0.14%	0.057%
68	6.869	6.858	6.885	VV	216	2182	0.05%	0.019%
69	6.898	6.885	6.927	VV	255	4342	0.09%	0.038%
70	6.949	6.927	6.971	VV	602	7256	0.15%	0.063%
71	7.002	6.971	7.037	VV	893	17766	0.37%	0.154%
72	7.060	7.037	7.091	VV	786	16159	0.34%	0.140%
73	7.129	7.091	7.151	VV	1031	20027	0.42%	0.174%
74	7.165	7.151	7.188	VV	387	4724	0.10%	0.041%
75	7.208	7.188	7.256	VV	3813	43383	0.91%	0.376%
76	7.291	7.256	7.331	VV	2071	26822	0.56%	0.233%
77	7.349	7.331	7.377	VV	346	6135	0.13%	0.053%
78	7.396	7.377	7.411	VV	552	8018	0.17%	0.070%
79	7.430	7.411	7.461	VV	3009	35554	0.75%	0.308%
80	7.494	7.461	7.511	VV	502	9673	0.20%	0.084%
81	7.522	7.511	7.538	VV	565	6451	0.14%	0.056%
82	7.552	7.538	7.581	VV	277	5111	0.11%	0.044%
83	7.604	7.581	7.638	VV	408	6923	0.15%	0.060%
84	7.654	7.638	7.674	VV	89	1469	0.03%	0.013%
85	7.694	7.674	7.713	PV	830	9226	0.19%	0.080%
86	7.728	7.713	7.761	VV	355	4929	0.10%	0.043%
87	7.774	7.761	7.808	VV	538	6803	0.14%	0.059%
88	7.819	7.808	7.838	VV	164	2189	0.05%	0.019%
89	7.874	7.838	7.900	VV	479	10176	0.21%	0.088%

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90	7.912	7.900	7.934	VV	257	3339	0.07%	0.029%
91	7.954	7.934	7.970	VV	196	2456	0.05%	0.021%
92	7.998	7.970	8.035	VV	1041	15226	0.32%	0.132%
93	8.055	8.035	8.074	VV	619	7962	0.17%	0.069%
94	8.125	8.074	8.144	VV	2447	34242	0.72%	0.297%
95	8.161	8.144	8.186	VV	551	11204	0.24%	0.097%
96	8.209	8.186	8.238	VV	917	17341	0.36%	0.150%
97	8.303	8.238	8.332	VV	6679	91027	1.91%	0.790%
98	8.351	8.332	8.375	VV	549	10223	0.21%	0.089%
99	8.413	8.375	8.440	VV	720	18083	0.38%	0.157%
100	8.471	8.440	8.488	VV	1026	17859	0.37%	0.155%
101	8.497	8.488	8.524	VV	400	5739	0.12%	0.050%
102	8.537	8.524	8.561	VV	467	6044	0.13%	0.052%
103	8.573	8.561	8.591	VV	134	2309	0.05%	0.020%
104	8.618	8.591	8.698	VV	5749	88409	1.86%	0.767%
105	8.713	8.698	8.741	VV	402	8229	0.17%	0.071%
106	8.769	8.741	8.786	VV	857	13968	0.29%	0.121%
107	8.798	8.786	8.814	VV	488	7532	0.16%	0.065%
108	8.842	8.814	8.881	VV	4130	56055	1.18%	0.486%
109	8.907	8.881	8.944	VV	367	7537	0.16%	0.065%
110	8.963	8.944	8.976	VV	389	4587	0.10%	0.040%
111	9.025	8.976	9.049	VV	2114	42883	0.90%	0.372%
112	9.065	9.049	9.101	VV	918	18900	0.40%	0.164%
113	9.128	9.101	9.198	VV	3472	72036	1.51%	0.625%
114	9.216	9.198	9.235	VV	596	8008	0.17%	0.069%
115	9.265	9.235	9.288	VV	324	5848	0.12%	0.051%
116	9.320	9.288	9.331	PV	240	3312	0.07%	0.029%
117	9.350	9.331	9.395	VV	311	7205	0.15%	0.062%
118	9.434	9.395	9.478	VV	558	15109	0.32%	0.131%
119	9.500	9.478	9.514	VV	1295	18953	0.40%	0.164%
120	9.526	9.514	9.558	VV	1264	19960	0.42%	0.173%
121	9.583	9.558	9.604	VV	528	11648	0.24%	0.101%
122	9.635	9.604	9.658	VV	799	14180	0.30%	0.123%
123	9.687	9.658	9.721	VV	1033	18337	0.38%	0.159%
124	9.742	9.721	9.761	VV	294	5357	0.11%	0.046%
125	9.776	9.761	9.803	VV	289	5197	0.11%	0.045%
126	9.827	9.803	9.879	VV	732	16666	0.35%	0.145%
127	9.907	9.879	9.956	VV	5425	71771	1.51%	0.623%
128	10.003	9.956	10.048	VV	622	25654	0.54%	0.223%
129	10.061	10.048	10.098	VV	391	9785	0.21%	0.085%
130	10.121	10.098	10.142	VV	334	6408	0.13%	0.056%
131	10.152	10.142	10.159	VV	262	2391	0.05%	0.021%
132	10.188	10.159	10.204	VV	506	9117	0.19%	0.079%
133	10.231	10.204	10.246	VV	553	10773	0.23%	0.093%
134	10.297	10.246	10.323	VV	2596	47537	1.00%	0.412%
135	10.341	10.323	10.360	VV	708	12750	0.27%	0.111%
136	10.386	10.360	10.421	VV	724	19353	0.41%	0.168%
137	10.441	10.421	10.479	VV	629	14623	0.31%	0.127%
138	10.512	10.479	10.528	VV	586	12097	0.25%	0.105%
139	10.547	10.528	10.557	VV	663	10687	0.22%	0.093%
140	10.575	10.557	10.611	VV	1046	22570	0.47%	0.196%
141	10.648	10.611	10.684	VV	4019	63099	1.32%	0.547%

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142	10.720	10.684	10.755	VV	5884	101881	2.14%	0.884%
143	10.777	10.755	10.808	VV	1513	30693	0.64%	0.266%
144	10.841	10.808	10.854	VV	493	11129	0.23%	0.097%
145	10.866	10.854	10.925	VV	456	13997	0.29%	0.121%
146	10.936	10.925	10.947	VV	367	3675	0.08%	0.032%
147	10.974	10.947	11.000	VV	575	13499	0.28%	0.117%
148	11.043	11.000	11.058	VV	918	19334	0.41%	0.168%
149	11.076	11.058	11.094	VV	623	11854	0.25%	0.103%
150	11.102	11.094	11.128	VV	641	8131	0.17%	0.071%
151	11.156	11.128	11.197	VV	585	13837	0.29%	0.120%
152	11.243	11.197	11.256	VV	335	9123	0.19%	0.079%
153	11.282	11.256	11.314	VV	1752	26233	0.55%	0.228%
154	11.351	11.314	11.381	VV	6769	84503	1.77%	0.733%
155	11.444	11.381	11.483	VV	1389	30543	0.64%	0.265%
156	11.500	11.483	11.531	VV	248	4655	0.10%	0.040%
157	11.585	11.531	11.608	VV	195	6432	0.14%	0.056%
158	11.671	11.608	11.691	VV	361	12775	0.27%	0.111%
159	11.706	11.691	11.721	VV	363	5535	0.12%	0.048%
160	11.744	11.721	11.772	VV	816	16432	0.34%	0.143%
161	11.785	11.772	11.794	VV	438	4975	0.10%	0.043%
162	11.808	11.794	11.858	VV	605	13942	0.29%	0.121%
163	11.874	11.858	11.887	VV	263	3579	0.08%	0.031%
164	11.908	11.887	11.918	VV	342	5437	0.11%	0.047%
165	11.957	11.918	11.977	VV	792	16459	0.35%	0.143%
166	12.022	11.977	12.054	VV	3974	68175	1.43%	0.591%
167	12.070	12.054	12.095	VV	595	8770	0.18%	0.076%
168	12.119	12.095	12.147	VV	362	8984	0.19%	0.078%
169	12.159	12.147	12.176	VV	391	5682	0.12%	0.049%
170	12.187	12.176	12.208	VV	379	5527	0.12%	0.048%
171	12.246	12.208	12.278	VV	931	23154	0.49%	0.201%
172	12.306	12.278	12.340	VV	491	13956	0.29%	0.121%
173	12.357	12.340	12.378	VV	381	6795	0.14%	0.059%
174	12.392	12.378	12.414	VV	390	6778	0.14%	0.059%
175	12.434	12.414	12.454	VV	746	12843	0.27%	0.111%
176	12.476	12.454	12.496	VV	641	12735	0.27%	0.110%
177	12.524	12.496	12.556	VV	1378	27707	0.58%	0.240%
178	12.602	12.556	12.628	VV	1566	29748	0.62%	0.258%
179	12.663	12.628	12.697	VV	7195	89122	1.87%	0.773%
180	12.727	12.697	12.755	VV	385	9710	0.20%	0.084%
181	12.780	12.755	12.866	VV	387	10817	0.23%	0.094%
182	12.877	12.866	12.886	PV	94	598	0.01%	0.005%
183	12.928	12.886	13.004	VV	447	15389	0.32%	0.133%
184	13.029	13.004	13.040	VV	312	4879	0.10%	0.042%
185	13.060	13.040	13.074	VV	680	9913	0.21%	0.086%
186	13.114	13.074	13.148	VV	410214	4763065	100.00%	41.314%
187	13.166	13.148	13.194	VV	568	13610	0.29%	0.118%
188	13.220	13.194	13.244	VV	734	13949	0.29%	0.121%
189	13.276	13.244	13.314	VV	3545	50729	1.07%	0.440%
190	13.343	13.314	13.381	VV	459	13476	0.28%	0.117%
191	13.397	13.381	13.434	VV	337	7733	0.16%	0.067%
192	13.448	13.434	13.465	VV	278	4560	0.10%	0.040%
193	13.507	13.465	13.522	VV	534	13994	0.29%	0.121%
194	13.545	13.522	13.613	VV	738	22715	0.48%	0.197%

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195	13.704	13.613	13.754	VV	856	37709	0.79%	0.327%
196	13.811	13.754	13.835	VV	1656	30163	0.63%	0.262%
197	13.863	13.835	13.899	VV	6304	82706	1.74%	0.717%
198	13.914	13.899	13.938	VV	376	6864	0.14%	0.060%
199	13.956	13.938	13.969	VV	250	4198	0.09%	0.036%
200	14.014	13.969	14.068	VV	457	14494	0.30%	0.126%
201	14.086	14.068	14.124	VV	500	12365	0.26%	0.107%
202	14.134	14.124	14.184	VV	310	9516	0.20%	0.083%
203	14.198	14.184	14.210	VV	320	4253	0.09%	0.037%
204	14.300	14.210	14.336	VV	1530	45123	0.95%	0.391%
205	14.379	14.336	14.404	VV	501	13952	0.29%	0.121%
206	14.427	14.404	14.478	VV	3032	43245	0.91%	0.375%
207	14.554	14.478	14.571	VV	364	15522	0.33%	0.135%
208	14.581	14.571	14.608	VV	431	6586	0.14%	0.057%
209	14.628	14.608	14.649	VV	325	6430	0.14%	0.056%
210	14.678	14.649	14.725	VV	368	13392	0.28%	0.116%
211	14.746	14.725	14.758	VV	398	6313	0.13%	0.055%
212	14.778	14.758	14.794	VV	565	9069	0.19%	0.079%
213	14.809	14.794	14.840	VV	475	11116	0.23%	0.096%
214	14.857	14.840	14.877	VV	458	6460	0.14%	0.056%
215	14.923	14.877	14.941	VV	1340	20118	0.42%	0.174%
216	14.968	14.941	15.081	VV	5418	89093	1.87%	0.773%
217	15.087	15.081	15.127	VV	93	1758	0.04%	0.015%
218	15.166	15.127	15.221	PV	258	8320	0.17%	0.072%
219	15.226	15.221	15.269	VV	152	2463	0.05%	0.021%
220	15.303	15.269	15.341	VV	466	12597	0.26%	0.109%
221	15.357	15.341	15.380	VV	378	5389	0.11%	0.047%
222	15.399	15.380	15.430	VV	289	6428	0.13%	0.056%
223	15.447	15.430	15.463	VV	343	5589	0.12%	0.048%
224	15.489	15.463	15.521	VV	3083	43175	0.91%	0.374%
225	15.541	15.521	15.564	VV	274	5380	0.11%	0.047%
226	15.573	15.564	15.604	VV	166	2829	0.06%	0.025%
227	15.635	15.604	15.647	VV	259	3540	0.07%	0.031%
228	15.673	15.647	15.691	VV	390	6907	0.15%	0.060%
229	15.701	15.691	15.750	VV	309	8266	0.17%	0.072%
230	15.817	15.750	15.897	VV	740	35003	0.73%	0.304%
231	15.950	15.897	15.966	VV	1200	24052	0.50%	0.209%
232	15.989	15.966	16.021	VV	4823	68758	1.44%	0.596%
233	16.030	16.021	16.038	VV	310	2674	0.06%	0.023%
234	16.049	16.038	16.064	VV	262	3402	0.07%	0.030%
235	16.084	16.064	16.114	VV	152	3402	0.07%	0.030%
236	16.126	16.114	16.144	VV	199	2228	0.05%	0.019%
237	16.162	16.144	16.181	VV	302	4816	0.10%	0.042%
238	16.221	16.181	16.261	VV	482	12717	0.27%	0.110%
239	16.309	16.261	16.334	PV	428	11386	0.24%	0.099%
240	16.352	16.334	16.367	VV	344	5560	0.12%	0.048%
241	16.382	16.367	16.402	VV	269	4647	0.10%	0.040%
242	16.437	16.402	16.448	VV	335	6316	0.13%	0.055%
243	16.473	16.448	16.550	VV	3043	45499	0.96%	0.395%
244	16.581	16.550	16.615	VV	150	4557	0.10%	0.040%
245	16.640	16.615	16.658	VV	379	6659	0.14%	0.058%
246	16.665	16.658	16.708	VV	279	7231	0.15%	0.063%

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247	16.716	16.708	16.730	VV	232	2826	0.06%	0.025%
248	16.778	16.730	16.788	VV	358	8715	0.18%	0.076%
249	16.820	16.788	16.853	VV	366	9318	0.20%	0.081%
250	16.867	16.853	16.883	VV	209	3250	0.07%	0.028%
251	16.907	16.883	16.917	VV	997	12408	0.26%	0.108%
252	16.941	16.917	17.000	VV	4505	65621	1.38%	0.569%
253	17.019	17.000	17.034	VV	114	1695	0.04%	0.015%
254	17.059	17.034	17.074	VV	325	5013	0.11%	0.043%
255	17.098	17.074	17.131	VV	345	6486	0.14%	0.056%
256	17.199	17.131	17.228	VV	221	7838	0.16%	0.068%
257	17.235	17.228	17.255	VV	168	1325	0.03%	0.011%
258	17.327	17.255	17.348	VV	354	11417	0.24%	0.099%
259	17.392	17.348	17.463	VV	3768	57882	1.22%	0.502%
260	17.529	17.463	17.581	PV	301	12928	0.27%	0.112%
261	17.603	17.581	17.614	VV	213	2973	0.06%	0.026%
262	17.624	17.614	17.638	VV	135	1574	0.03%	0.014%
263	17.669	17.638	17.692	VV	238	5051	0.11%	0.044%
264	17.700	17.692	17.714	VV	172	1479	0.03%	0.013%
265	17.831	17.714	17.868	VV	5252	91544	1.92%	0.794%
266	17.884	17.868	17.908	VV	140	2804	0.06%	0.024%
267	17.919	17.908	17.938	VV	113	1364	0.03%	0.012%
268	17.986	17.938	18.052	VV	575	15780	0.33%	0.137%
269	18.107	18.052	18.142	PV	431	8316	0.17%	0.072%
270	18.155	18.142	18.164	VV	120	1314	0.03%	0.011%
271	18.196	18.164	18.206	VV	261	3793	0.08%	0.033%
272	18.254	18.206	18.304	VV	4273	65001	1.36%	0.564%
273	18.355	18.304	18.411	PV	523	13302	0.28%	0.115%
274	18.431	18.411	18.457	VV	133	1998	0.04%	0.017%
275	18.522	18.457	18.546	VV	314	10667	0.22%	0.093%
276	18.561	18.546	18.604	VV	297	4950	0.10%	0.043%
277	18.663	18.604	18.734	PV	4599	76333	1.60%	0.662%
278	18.782	18.734	18.803	VV	256	6454	0.14%	0.056%
279	18.831	18.803	18.891	VV	379	10992	0.23%	0.095%
280	18.921	18.891	18.943	PV	212	3757	0.08%	0.033%
281	18.971	18.943	18.993	VV	168	2737	0.06%	0.024%
282	19.064	18.993	19.140	PV	3714	62990	1.32%	0.546%
283	19.177	19.140	19.194	VV	303	5527	0.12%	0.048%
284	19.313	19.194	19.331	VV	441	21058	0.44%	0.183%
285	19.364	19.331	19.381	VV	345	7266	0.15%	0.063%
286	19.451	19.381	19.526	VV	3804	84499	1.77%	0.733%
287	19.586	19.526	19.598	VV	454	15999	0.34%	0.139%
288	19.610	19.598	19.620	VV	369	5104	0.11%	0.044%
289	19.690	19.620	19.708	VV	759	27568	0.58%	0.239%
290	19.739	19.708	19.759	VV	761	19958	0.42%	0.173%
291	19.826	19.759	19.861	VV	3028	76254	1.60%	0.661%
292	19.888	19.861	19.898	VV	973	19875	0.42%	0.172%
293	20.009	19.898	20.033	VV	1182	83003	1.74%	0.720%
294	20.105	20.033	20.128	VV	1562	77370	1.62%	0.671%
295	20.192	20.128	20.221	VV	4047	124641	2.62%	1.081%
296	20.260	20.221	20.278	VV	1915	61371	1.29%	0.532%
297	20.469	20.278	20.476	VV	5727	322316	6.77%	2.796%
298	20.505	20.476	20.544	VV	5983	210652	4.42%	1.827%
299	20.549	20.544	20.614	VV	4009	117530	2.47%	1.019%

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300	20.639	20.614	20.644	VV	2134	37991	0.80%	0.330%
301	20.652	20.644	20.659	VV	2160	17977	0.38%	0.156%
302	20.740	20.659	20.791	VV	2190	166299	3.49%	1.442%
303	20.799	20.791	20.841	VV	2097	57490	1.21%	0.499%
304	20.863	20.841	20.891	VV	1867	54195	1.14%	0.470%
305	20.897	20.891	20.906	VV	1702	15697	0.33%	0.136%
306	20.958	20.906	21.024	VV	3034	140973	2.96%	1.223%
307	21.064	21.024	21.111	VV	1545	76035	1.60%	0.660%
308	21.118	21.111	21.127	VV	1420	13423	0.28%	0.116%
309	21.141	21.127	21.190	VV	1365	48548	1.02%	0.421%
310	21.200	21.190	21.266	VV	1309	53659	1.13%	0.465%
311	21.273	21.266	21.284	VV	1005	11382	0.24%	0.099%
312	21.291	21.284	21.364	VV	1042	45161	0.95%	0.392%
313	21.412	21.364	21.474	VV	1329	62205	1.31%	0.540%
314	21.483	21.474	21.511	VV	648	13110	0.28%	0.114%
315	21.529	21.511	21.568	VV	643	19863	0.42%	0.172%
316	21.575	21.568	21.595	VV	536	8191	0.17%	0.071%
317	21.614	21.595	21.674	VV	496	18430	0.39%	0.160%
318	21.691	21.674	21.736	VV	283	8546	0.18%	0.074%
319	21.743	21.736	21.778	VV	255	3870	0.08%	0.034%
320	21.810	21.778	21.845	VV	137	3228	0.07%	0.028%

Sum of corrected areas: 11528993

Aliphatic EPH 061825.M Thu Jun 26 05:39:04 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	06/23/25
Project:	Thomas McGoven	Date Received:	06/23/25
Client Sample ID:	S-1	SDG No.:	Q2392
Lab Sample ID:	Q2392-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049517.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.36	J	0.13	0.72	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.51	J	0.25	1.08	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.39		0.43	1.80	mg/kg
Aromatic C21-C36	Aromatic C21-C36	1.82	J	1.29	2.89	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.0		40 - 140	84%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	42.4		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.5		40 - 140	53%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2392-01	Acq On:	25 Jun 2025 12:48
Client Sample ID:	S-1	Operator:	YP/AJ
Data file:	FD049517.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	4.429	6.172	629312	5.027	200	ug/ml
Aromatic C12-C16	6.173	8.800	1054877	7.073	300	ug/ml
Aromatic C16-C21	8.801	13.090	5195665	33.072	500	ug/ml
Aromatic C21-C36	13.091	18.510	3492208	25.278	800	ug/ml
Aromatic EPH	4.429	18.510	10372062	70.45		ug/ml
ortho-Terphenyl (SURR)	11.646	11.646	4202156	26.5		ug/ml
2-Bromonaphthalene (SURR)	7.737	7.737	5348525	41.95		ug/ml
2-Fluorobiphenyl (SURR)	8.602	8.602	3763831	42.39		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
 Data File : FD049517.D
 Signal(s) : FID2B.ch
 Acq On : 25 Jun 2025 12:48
 Operator : YP/AJ
 Sample : Q2392-01
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 S-1

Integration File: autoint1.e
 Quant Time: Jun 26 05:36:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 15:23:20 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...	7.737	5348525	41.947 ug/ml
Spiked Amount 50.000		Recovery =	83.89%
6) S 2-Fluorobiphenyl (SURR)	8.602	3763831	42.390 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	84.78%
11) S ortho-Terphenyl (SURR)	11.646	4202156	26.497 ug/ml
Spiked Amount 50.000		Recovery =	52.99%

Target Compounds

(f)=RT Delta > 1/2 Window

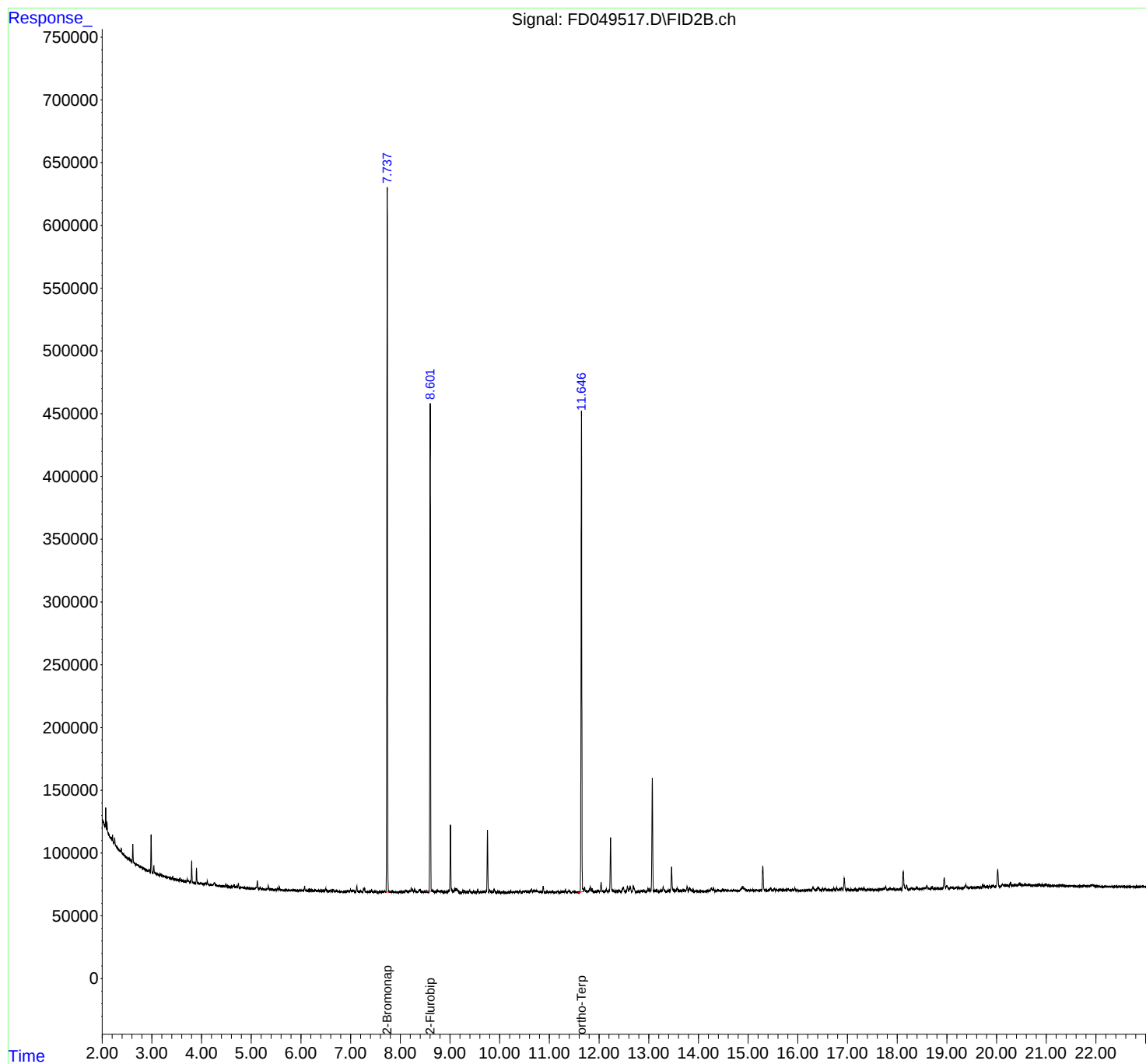
(m)=manual int.

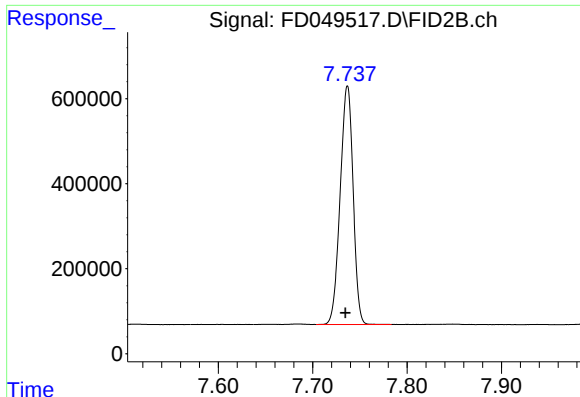
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049517.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 12:48
Operator : YP/AJ
Sample : Q2392-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
S-1

Integration File: autoint1.e
Quant Time: Jun 26 05:36:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 15:23:20 2025
Response via : Initial Calibration
Integrator: ChemStation

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

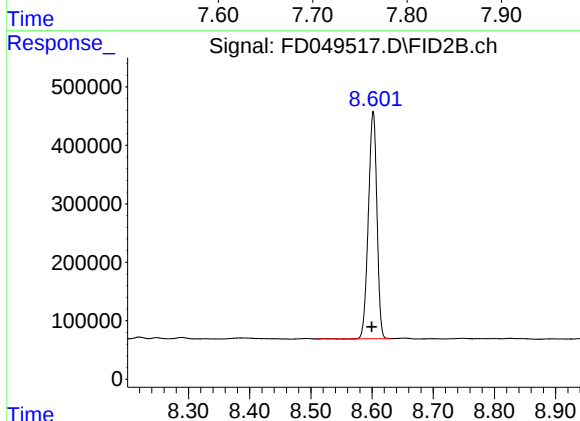




#4 2-Bromonaphthalene (SURR)

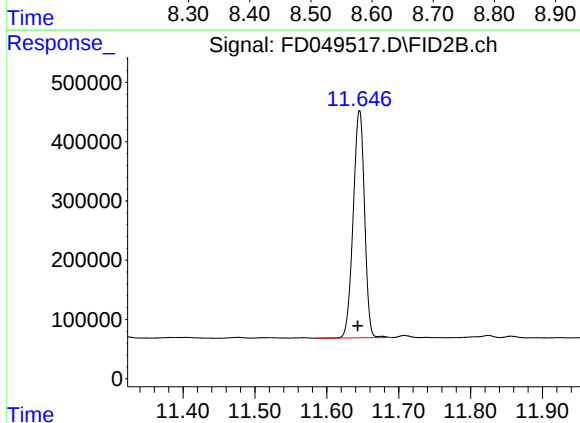
R.T.: 7.737 min
Delta R.T.: 0.002 min
Response: 5348525
Conc: 41.95 ug/ml

Instrument :
FID_D
ClientSampleId :
S-1



#6 2-Fluorobiphenyl (SURR)

R.T.: 8.602 min
Delta R.T.: 0.003 min
Response: 3763831
Conc: 42.39 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.646 min
Delta R.T.: 0.002 min
Response: 4202156
Conc: 26.50 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049517.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 12:48
Sample : Q2392-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.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	4.360	4.342	4.375	PV	919	7215	0.13%	0.030%
2	4.380	4.375	4.409	VV	227	2216	0.04%	0.009%
3	4.419	4.409	4.435	PV	266	3060	0.06%	0.013%
4	4.444	4.435	4.471	VV	373	3551	0.07%	0.015%
5	4.488	4.471	4.515	VV	2512	24883	0.46%	0.104%
6	4.532	4.515	4.551	VV	1191	11787	0.22%	0.049%
7	4.559	4.551	4.572	PV	280	2557	0.05%	0.011%
8	4.581	4.572	4.591	VV	419	3951	0.07%	0.016%
9	4.601	4.591	4.617	VV	620	5719	0.11%	0.024%
10	4.632	4.617	4.643	VV	1042	10943	0.20%	0.046%
11	4.656	4.643	4.682	VV	2408	26120	0.49%	0.109%
12	4.687	4.682	4.695	VV	352	2365	0.04%	0.010%
13	4.711	4.695	4.726	VV	2119	20656	0.38%	0.086%
14	4.742	4.726	4.765	VV	3612	33297	0.62%	0.139%
15	4.794	4.765	4.813	PV	926	12517	0.23%	0.052%
16	4.825	4.813	4.850	VV	863	11893	0.22%	0.050%
17	4.862	4.850	4.898	VV	836	12410	0.23%	0.052%
18	4.927	4.898	4.949	VV	427	8588	0.16%	0.036%
19	4.963	4.949	4.987	VV	439	4677	0.09%	0.019%
20	5.001	4.987	5.014	VV	323	3677	0.07%	0.015%
21	5.018	5.014	5.028	VV	371	2433	0.05%	0.010%
22	5.046	5.028	5.067	VV	601	7572	0.14%	0.032%
23	5.096	5.067	5.105	PV	1694	17198	0.32%	0.072%
24	5.122	5.105	5.152	VV	6589	74186	1.38%	0.309%
25	5.180	5.152	5.199	VV	1512	20965	0.39%	0.087%
26	5.207	5.199	5.212	VV	390	2126	0.04%	0.009%
27	5.224	5.212	5.246	VV	712	8917	0.17%	0.037%
28	5.263	5.246	5.282	VV	440	5211	0.10%	0.022%
29	5.287	5.282	5.298	VV	235	1767	0.03%	0.007%
30	5.314	5.298	5.328	VV	783	7808	0.15%	0.033%
31	5.342	5.328	5.380	VV	3191	34235	0.64%	0.143%
32	5.396	5.380	5.406	VV	638	6793	0.13%	0.028%
33	5.412	5.406	5.422	VV	546	4074	0.08%	0.017%
34	5.426	5.422	5.445	VV	645	4988	0.09%	0.021%
35	5.461	5.445	5.466	VV	330	2138	0.04%	0.009%
36	5.485	5.466	5.507	VV	628	7524	0.14%	0.031%

					rteres			
37	5.523	5.507	5.541	VV	1614	17723	0.33%	0.074%
38	5.564	5.541	5.601	VV	2706	38270	0.71%	0.159%
39	5.604	5.601	5.608	VV	431	1846	0.03%	0.008%
40	5.619	5.608	5.637	VV	823	8766	0.16%	0.037%
41	5.653	5.637	5.670	PV	338	4645	0.09%	0.019%
42	5.685	5.670	5.695	VV	588	5803	0.11%	0.024%
43	5.712	5.695	5.735	VV	623	9905	0.18%	0.041%
44	5.741	5.735	5.755	VV	334	2740	0.05%	0.011%
45	5.762	5.755	5.790	VV	427	5817	0.11%	0.024%
46	5.809	5.790	5.826	VV	597	8103	0.15%	0.034%
47	5.839	5.826	5.844	VV	436	3749	0.07%	0.016%
48	5.864	5.844	5.884	VV	549	10405	0.19%	0.043%
49	5.903	5.884	5.912	VV	396	4921	0.09%	0.020%
50	5.916	5.912	5.922	VV	330	1276	0.02%	0.005%
51	5.950	5.922	5.969	VV	436	7409	0.14%	0.031%
52	5.983	5.969	6.005	VV	454	5347	0.10%	0.022%
53	6.029	6.005	6.039	VV	485	7199	0.13%	0.030%
54	6.047	6.039	6.056	VV	561	4231	0.08%	0.018%
55	6.074	6.056	6.094	VV	3775	38935	0.73%	0.162%
56	6.099	6.094	6.103	VV	500	2128	0.04%	0.009%
57	6.115	6.103	6.142	VV	736	10364	0.19%	0.043%
58	6.162	6.142	6.195	VV	1721	22204	0.41%	0.092%
59	6.222	6.195	6.255	VV	897	18906	0.35%	0.079%
60	6.262	6.255	6.269	VV	448	3061	0.06%	0.013%
61	6.278	6.269	6.318	VV	726	15069	0.28%	0.063%
62	6.324	6.318	6.327	VV	423	2152	0.04%	0.009%
63	6.349	6.327	6.379	VV	1155	19032	0.35%	0.079%
64	6.387	6.379	6.405	VV	489	5547	0.10%	0.023%
65	6.423	6.405	6.443	VV	624	9651	0.18%	0.040%
66	6.465	6.443	6.479	VV	566	10363	0.19%	0.043%
67	6.500	6.479	6.533	VV	2466	33804	0.63%	0.141%
68	6.542	6.533	6.549	VV	297	2393	0.04%	0.010%
69	6.585	6.549	6.604	VV	1078	17926	0.33%	0.075%
70	6.621	6.604	6.635	VV	929	9876	0.18%	0.041%
71	6.650	6.635	6.671	VV	2082	20470	0.38%	0.085%
72	6.685	6.671	6.705	VV	639	7212	0.13%	0.030%
73	6.723	6.705	6.750	VV	1052	13156	0.25%	0.055%
74	6.755	6.750	6.767	VV	282	1651	0.03%	0.007%
75	6.775	6.767	6.784	VV	278	1844	0.03%	0.008%
76	6.819	6.805	6.842	PV	450	4456	0.08%	0.019%
77	6.877	6.842	6.885	VV	302	4607	0.09%	0.019%
78	6.908	6.885	6.928	VV	547	8568	0.16%	0.036%
79	6.945	6.928	6.966	VV	1121	14612	0.27%	0.061%
80	6.996	6.966	7.025	VV	1704	32730	0.61%	0.136%
81	7.055	7.025	7.090	VV	1246	30835	0.57%	0.128%
82	7.126	7.090	7.150	VV	5027	59141	1.10%	0.246%
83	7.167	7.150	7.183	VV	531	6881	0.13%	0.029%
84	7.204	7.183	7.218	VV	909	9428	0.18%	0.039%
85	7.226	7.218	7.239	VV	440	3916	0.07%	0.016%
86	7.262	7.239	7.272	VV	3233	32103	0.60%	0.134%
87	7.283	7.272	7.320	VV	3268	37600	0.70%	0.157%
88	7.338	7.320	7.350	VV	600	5905	0.11%	0.025%
89	7.360	7.350	7.366	VV	430	3341	0.06%	0.014%

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90	7.368	7.366	7.375	VV	326	1458	0.03%	0.006%
91	7.390	7.375	7.404	VV	724	7873	0.15%	0.033%
92	7.419	7.404	7.449	VV	1541	21801	0.41%	0.091%
93	7.483	7.449	7.502	VV	822	16354	0.30%	0.068%
94	7.512	7.502	7.542	VV	965	11895	0.22%	0.050%
95	7.583	7.542	7.590	PV	327	6022	0.11%	0.025%
96	7.603	7.590	7.617	VV	447	5602	0.10%	0.023%
97	7.622	7.617	7.627	VV	401	2079	0.04%	0.009%
98	7.631	7.627	7.637	VV	386	2089	0.04%	0.009%
99	7.648	7.637	7.669	VV	659	9563	0.18%	0.040%
100	7.685	7.669	7.704	VV	1371	17802	0.33%	0.074%
101	7.737	7.704	7.794	VV	562475	5367567	100.00%	22.357%
102	7.849	7.794	7.880	VV	1166	28574	0.53%	0.119%
103	7.882	7.880	7.891	VV	380	1226	0.02%	0.005%
104	7.900	7.891	7.923	VV	265	2570	0.05%	0.011%
105	7.939	7.923	7.961	VV	451	4101	0.08%	0.017%
106	7.986	7.961	8.000	PV	1001	11165	0.21%	0.047%
107	8.008	8.000	8.030	VV	781	11007	0.21%	0.046%
108	8.050	8.030	8.060	VV	558	7275	0.14%	0.030%
109	8.116	8.060	8.149	VV	1639	46562	0.87%	0.194%
110	8.155	8.149	8.160	VV	650	4521	0.08%	0.019%
111	8.187	8.160	8.201	VV	1233	22766	0.42%	0.095%
112	8.219	8.201	8.235	VV	3682	43888	0.82%	0.183%
113	8.248	8.235	8.266	VV	2638	31007	0.58%	0.129%
114	8.289	8.266	8.318	VV	2997	45952	0.86%	0.191%
115	8.328	8.318	8.353	VV	923	12969	0.24%	0.054%
116	8.386	8.353	8.455	VV	2267	76985	1.43%	0.321%
117	8.458	8.455	8.470	VV	584	3693	0.07%	0.015%
118	8.493	8.470	8.513	VV	1253	20331	0.38%	0.085%
119	8.523	8.513	8.555	VV	1071	18357	0.34%	0.076%
120	8.602	8.555	8.632	VV	389658	3809735	70.98%	15.868%
121	8.654	8.632	8.677	VV	1920	34958	0.65%	0.146%
122	8.695	8.677	8.719	VV	982	18552	0.35%	0.077%
123	8.748	8.719	8.765	VV	1591	30448	0.57%	0.127%
124	8.778	8.765	8.790	VV	1120	15202	0.28%	0.063%
125	8.799	8.790	8.812	VV	1215	13994	0.26%	0.058%
126	8.825	8.812	8.840	VV	1574	20858	0.39%	0.087%
127	8.846	8.840	8.877	VV	1236	13188	0.25%	0.055%
128	8.895	8.877	8.926	VV	825	15499	0.29%	0.065%
129	8.940	8.926	8.955	VV	1153	13255	0.25%	0.055%
130	8.973	8.955	8.982	VV	1718	19824	0.37%	0.083%
131	9.009	8.982	9.031	VV	54087	542137	10.10%	2.258%
132	9.039	9.031	9.054	VV	1970	22533	0.42%	0.094%
133	9.062	9.054	9.077	VV	1338	15128	0.28%	0.063%
134	9.105	9.077	9.117	VV	2970	49152	0.92%	0.205%
135	9.128	9.117	9.140	VV	2906	34248	0.64%	0.143%
136	9.145	9.140	9.185	VV	2574	41417	0.77%	0.173%
137	9.199	9.185	9.218	VV	482	6761	0.13%	0.028%
138	9.226	9.218	9.230	VV	262	1298	0.02%	0.005%
139	9.261	9.230	9.277	VV	2244	29255	0.55%	0.122%
140	9.293	9.277	9.320	VV	1890	22470	0.42%	0.094%
141	9.337	9.320	9.361	VV	711	11563	0.22%	0.048%

					rteres			
142	9.396	9.361	9.431	VV	2410	38098	0.71%	0.159%
143	9.440	9.431	9.455	VV	523	5371	0.10%	0.022%
144	9.479	9.455	9.496	VV	1343	19965	0.37%	0.083%
145	9.505	9.496	9.532	VV	723	9292	0.17%	0.039%
146	9.559	9.532	9.595	VV	2571	39778	0.74%	0.166%
147	9.616	9.595	9.642	VV	770	14698	0.27%	0.061%
148	9.662	9.642	9.675	VV	1096	16391	0.31%	0.068%
149	9.685	9.675	9.702	VV	1176	14640	0.27%	0.061%
150	9.723	9.702	9.731	VV	1304	16289	0.30%	0.068%
151	9.755	9.731	9.782	VV	50068	494917	9.22%	2.061%
152	9.801	9.782	9.840	VV	2173	39749	0.74%	0.166%
153	9.850	9.840	9.869	VV	756	10212	0.19%	0.043%
154	9.889	9.869	9.941	VV	2631	51724	0.96%	0.215%
155	9.965	9.941	9.990	VV	1469	22656	0.42%	0.094%
156	9.998	9.990	10.029	VV	888	10968	0.20%	0.046%
157	10.059	10.029	10.110	VV	889	23256	0.43%	0.097%
158	10.120	10.110	10.140	VV	403	3288	0.06%	0.014%
159	10.159	10.140	10.174	PV	450	6011	0.11%	0.025%
160	10.221	10.174	10.254	VV	1882	36359	0.68%	0.151%
161	10.278	10.254	10.297	VV	1222	17953	0.33%	0.075%
162	10.326	10.297	10.342	VV	1564	28609	0.53%	0.119%
163	10.352	10.342	10.383	VV	1344	20950	0.39%	0.087%
164	10.407	10.383	10.428	VV	1824	27767	0.52%	0.116%
165	10.443	10.428	10.454	VV	811	9204	0.17%	0.038%
166	10.472	10.454	10.499	VV	1560	30322	0.56%	0.126%
167	10.526	10.499	10.565	VV	1654	45505	0.85%	0.190%
168	10.574	10.565	10.586	VV	1031	10382	0.19%	0.043%
169	10.619	10.586	10.627	VV	1543	26495	0.49%	0.110%
170	10.643	10.627	10.664	VV	3006	40668	0.76%	0.169%
171	10.688	10.664	10.711	VV	2080	45492	0.85%	0.189%
172	10.722	10.711	10.736	VV	1535	20151	0.38%	0.084%
173	10.753	10.736	10.767	VV	1873	28255	0.53%	0.118%
174	10.776	10.767	10.791	VV	1424	15010	0.28%	0.063%
175	10.810	10.791	10.828	VV	1128	18477	0.34%	0.077%
176	10.839	10.828	10.855	VV	1073	12775	0.24%	0.053%
177	10.876	10.855	10.920	VV	5399	73458	1.37%	0.306%
178	10.950	10.920	10.976	VV	1151	22546	0.42%	0.094%
179	11.013	10.976	11.030	VV	880	21234	0.40%	0.088%
180	11.056	11.030	11.087	VV	1197	24993	0.47%	0.104%
181	11.092	11.087	11.099	VV	497	3149	0.06%	0.013%
182	11.103	11.099	11.119	VV	521	4914	0.09%	0.020%
183	11.134	11.119	11.145	VV	589	8038	0.15%	0.033%
184	11.162	11.145	11.207	VV	1686	28412	0.53%	0.118%
185	11.261	11.207	11.279	VV	1194	30832	0.57%	0.128%
186	11.283	11.279	11.304	VV	920	12545	0.23%	0.052%
187	11.322	11.304	11.341	VV	2447	31730	0.59%	0.132%
188	11.348	11.341	11.355	VV	482	3210	0.06%	0.013%
189	11.403	11.355	11.444	VV	1581	45280	0.84%	0.189%
190	11.476	11.444	11.494	PV	1575	21110	0.39%	0.088%
191	11.518	11.494	11.550	VV	965	21497	0.40%	0.090%
192	11.567	11.550	11.590	VV	961	11582	0.22%	0.048%
193	11.646	11.590	11.671	VV	384658	4211086	78.45%	17.540%
194	11.677	11.671	11.691	VV	3288	29390	0.55%	0.122%

					rteres			
195	11.708	11.691	11.729	VV	4714	61118	1.14%	0.255%
196	11.740	11.729	11.770	VV	1474	26088	0.49%	0.109%
197	11.825	11.770	11.841	VV	4821	94090	1.75%	0.392%
198	11.856	11.841	11.885	VV	3444	46499	0.87%	0.194%
199	11.892	11.885	11.908	VV	775	8902	0.17%	0.037%
200	11.924	11.908	11.940	VV	1016	13777	0.26%	0.057%
201	11.991	11.940	12.011	VV	1839	46705	0.87%	0.195%
202	12.041	12.011	12.070	VV	8002	104116	1.94%	0.434%
203	12.079	12.070	12.103	VV	1150	16283	0.30%	0.068%
204	12.147	12.103	12.184	VV	2644	52018	0.97%	0.217%
205	12.231	12.184	12.275	VV	43736	531213	9.90%	2.213%
206	12.282	12.275	12.306	VV	1603	24317	0.45%	0.101%
207	12.326	12.306	12.336	VV	1084	15806	0.29%	0.066%
208	12.348	12.336	12.368	VV	1217	18521	0.35%	0.077%
209	12.374	12.368	12.385	VV	1100	10457	0.19%	0.044%
210	12.398	12.385	12.435	VV	1562	33170	0.62%	0.138%
211	12.489	12.435	12.522	VV	4024	92132	1.72%	0.384%
212	12.541	12.522	12.545	VV	880	9729	0.18%	0.041%
213	12.571	12.545	12.592	VV	5033	74486	1.39%	0.310%
214	12.630	12.592	12.662	VV	4286	93161	1.74%	0.388%
215	12.689	12.662	12.740	VV	5286	100405	1.87%	0.418%
216	12.744	12.740	12.748	VV	216	1059	0.02%	0.004%
217	12.760	12.748	12.772	VV	405	4438	0.08%	0.018%
218	12.786	12.772	12.817	VV	700	13782	0.26%	0.057%
219	12.822	12.817	12.832	VV	414	2860	0.05%	0.012%
220	12.847	12.832	12.864	VV	1267	15085	0.28%	0.063%
221	12.879	12.864	12.892	VV	1078	12904	0.24%	0.054%
222	12.903	12.892	12.937	VV	1462	21988	0.41%	0.092%
223	12.954	12.937	12.964	VV	761	9074	0.17%	0.038%
224	12.986	12.964	13.003	VV	3120	38420	0.72%	0.160%
225	13.023	13.003	13.041	VV	2202	30923	0.58%	0.129%
226	13.072	13.041	13.103	VV	90892	1047956	19.52%	4.365%
227	13.125	13.103	13.140	VV	1234	21439	0.40%	0.089%
228	13.160	13.140	13.211	VV	1460	33537	0.62%	0.140%
229	13.237	13.211	13.245	VV	1298	15425	0.29%	0.064%
230	13.256	13.245	13.270	VV	1212	17133	0.32%	0.071%
231	13.290	13.270	13.308	VV	4000	55612	1.04%	0.232%
232	13.314	13.308	13.349	VV	1748	21923	0.41%	0.091%
233	13.381	13.349	13.397	VV	1055	17137	0.32%	0.071%
234	13.412	13.397	13.430	VV	1535	21046	0.39%	0.088%
235	13.460	13.430	13.521	VV	19991	277199	5.16%	1.155%
236	13.537	13.521	13.548	VV	1427	18194	0.34%	0.076%
237	13.571	13.548	13.621	VV	2928	63592	1.18%	0.265%
238	13.641	13.621	13.660	VV	1291	19344	0.36%	0.081%
239	13.683	13.660	13.709	VV	1733	33413	0.62%	0.139%
240	13.718	13.709	13.736	VV	1301	16247	0.30%	0.068%
241	13.773	13.736	13.796	VV	4389	72650	1.35%	0.303%
242	13.821	13.796	13.838	VV	3300	49948	0.93%	0.208%
243	13.848	13.838	13.870	VV	1714	23342	0.43%	0.097%
244	13.890	13.870	13.929	VV	1552	23932	0.45%	0.100%
245	13.932	13.929	13.937	VV	195	1089	0.02%	0.005%
246	13.951	13.937	13.974	VV	652	9333	0.17%	0.039%

					rteres			
247	14.028	13.974	14.057	VV	650	17050	0.32%	0.071%
248	14.065	14.057	14.079	VV	452	4697	0.09%	0.020%
249	14.081	14.079	14.108	VV	375	4709	0.09%	0.020%
250	14.113	14.108	14.124	VV	402	2832	0.05%	0.012%
251	14.129	14.124	14.142	VV	315	2310	0.04%	0.010%
252	14.158	14.142	14.177	VV	613	8146	0.15%	0.034%
253	14.186	14.177	14.192	VV	710	4778	0.09%	0.020%
254	14.210	14.192	14.228	VV	1086	16969	0.32%	0.071%
255	14.257	14.228	14.284	VV	2796	52827	0.98%	0.220%
256	14.301	14.284	14.337	VV	2633	42718	0.80%	0.178%
257	14.352	14.337	14.364	VV	458	6299	0.12%	0.026%
258	14.383	14.364	14.399	VV	1288	20519	0.38%	0.085%
259	14.410	14.399	14.422	VV	1160	14250	0.27%	0.059%
260	14.426	14.422	14.455	VV	798	12766	0.24%	0.053%
261	14.483	14.455	14.500	VV	1609	30593	0.57%	0.127%
262	14.517	14.500	14.531	VV	997	16241	0.30%	0.068%
263	14.546	14.531	14.580	VV	1564	27353	0.51%	0.114%
264	14.602	14.580	14.629	VV	1054	21109	0.39%	0.088%
265	14.632	14.629	14.636	VV	519	2328	0.04%	0.010%
266	14.645	14.636	14.654	VV	772	6867	0.13%	0.029%
267	14.669	14.654	14.685	VV	922	14056	0.26%	0.059%
268	14.702	14.685	14.725	VV	903	18671	0.35%	0.078%
269	14.735	14.725	14.755	VV	861	14319	0.27%	0.060%
270	14.760	14.755	14.802	VV	823	13462	0.25%	0.056%
271	14.827	14.802	14.838	VV	852	13345	0.25%	0.056%
272	14.856	14.838	14.866	VV	2446	30388	0.57%	0.127%
273	14.893	14.866	14.909	VV	4087	74673	1.39%	0.311%
274	14.921	14.909	14.962	VV	2856	55793	1.04%	0.232%
275	14.966	14.962	14.988	VV	1088	11965	0.22%	0.050%
276	14.993	14.988	15.003	VV	638	4933	0.09%	0.021%
277	15.014	15.003	15.035	VV	972	14244	0.27%	0.059%
278	15.040	15.035	15.050	VV	631	4859	0.09%	0.020%
279	15.057	15.050	15.065	VV	653	5166	0.10%	0.022%
280	15.094	15.065	15.132	VV	1009	28000	0.52%	0.117%
281	15.153	15.132	15.172	VV	1157	20650	0.38%	0.086%
282	15.178	15.172	15.200	VV	1078	14245	0.27%	0.059%
283	15.207	15.200	15.215	VV	819	6302	0.12%	0.026%
284	15.218	15.215	15.247	VV	797	10907	0.20%	0.045%
285	15.259	15.247	15.269	VV	689	5880	0.11%	0.024%
286	15.295	15.269	15.357	VV	20099	279646	5.21%	1.165%
287	15.366	15.357	15.397	VV	692	11915	0.22%	0.050%
288	15.456	15.397	15.477	VV	2501	54703	1.02%	0.228%
289	15.484	15.477	15.504	VV	739	10399	0.19%	0.043%
290	15.526	15.504	15.546	VV	2134	30008	0.56%	0.125%
291	15.565	15.546	15.603	VV	1408	25955	0.48%	0.108%
292	15.654	15.603	15.669	VV	1352	35990	0.67%	0.150%
293	15.673	15.669	15.680	VV	1011	6570	0.12%	0.027%
294	15.697	15.680	15.739	VV	1251	27904	0.52%	0.116%
295	15.764	15.739	15.777	VV	1158	18039	0.34%	0.075%
296	15.806	15.777	15.832	VV	1495	31299	0.58%	0.130%
297	15.848	15.832	15.870	VV	762	13431	0.25%	0.056%
298	15.898	15.870	15.919	VV	1241	24191	0.45%	0.101%
299	15.937	15.919	15.964	VV	2341	35331	0.66%	0.147%

					rteres			
300	15.968	15.964	15.978	VV	451	3418	0.06%	0.014%
301	15.998	15.978	16.025	VV	612	11434	0.21%	0.048%
302	16.032	16.025	16.052	VV	381	2843	0.05%	0.012%
303	16.059	16.052	16.072	VV	309	1574	0.03%	0.007%
304	16.084	16.072	16.099	VV	331	3500	0.07%	0.015%
305	16.127	16.099	16.148	VV	683	11390	0.21%	0.047%
306	16.160	16.148	16.177	VV	595	6785	0.13%	0.028%
307	16.220	16.177	16.252	VV	914	23857	0.44%	0.099%
308	16.275	16.252	16.282	VV	599	7702	0.14%	0.032%
309	16.305	16.282	16.348	VV	2963	56283	1.05%	0.234%
310	16.372	16.348	16.380	VV	689	9487	0.18%	0.040%
311	16.405	16.380	16.458	VV	2692	65255	1.22%	0.272%
312	16.465	16.458	16.469	VV	529	3084	0.06%	0.013%
313	16.501	16.469	16.520	VV	1558	26714	0.50%	0.111%
314	16.551	16.520	16.603	VV	1579	39791	0.74%	0.166%
315	16.612	16.603	16.638	VV	744	12098	0.23%	0.050%
316	16.642	16.638	16.648	VV	477	2545	0.05%	0.011%
317	16.658	16.648	16.673	VV	551	6533	0.12%	0.027%
318	16.681	16.673	16.688	VV	516	3736	0.07%	0.016%
319	16.697	16.688	16.707	VV	653	6096	0.11%	0.025%
320	16.725	16.707	16.760	VV	1847	29151	0.54%	0.121%
321	16.782	16.760	16.802	VV	2121	31974	0.60%	0.133%
322	16.807	16.802	16.815	VV	712	4853	0.09%	0.020%
323	16.848	16.815	16.862	VV	1228	24393	0.45%	0.102%
324	16.884	16.862	16.908	VV	2427	37568	0.70%	0.156%
325	16.935	16.908	16.985	VV	9703	143442	2.67%	0.597%
326	16.993	16.985	17.006	VV	637	6553	0.12%	0.027%
327	17.015	17.006	17.028	VV	731	7997	0.15%	0.033%
328	17.031	17.028	17.051	VV	477	4860	0.09%	0.020%
329	17.055	17.051	17.059	VV	290	1248	0.02%	0.005%
330	17.067	17.059	17.072	VV	676	2660	0.05%	0.011%
331	17.078	17.072	17.088	VV	439	2850	0.05%	0.012%
332	17.095	17.088	17.103	VV	254	1729	0.03%	0.007%
333	17.109	17.103	17.115	VV	343	1703	0.03%	0.007%
334	17.126	17.115	17.132	VV	639	4790	0.09%	0.020%
335	17.153	17.132	17.187	VV	961	20437	0.38%	0.085%
336	17.191	17.187	17.198	VV	448	2266	0.04%	0.009%
337	17.217	17.198	17.223	VV	705	7434	0.14%	0.031%
338	17.245	17.223	17.264	VV	1927	29686	0.55%	0.124%
339	17.278	17.264	17.300	VV	1190	18807	0.35%	0.078%
340	17.333	17.300	17.355	VV	1792	31732	0.59%	0.132%
341	17.362	17.355	17.379	VV	434	5265	0.10%	0.022%
342	17.401	17.379	17.410	VV	372	6077	0.11%	0.025%
343	17.421	17.410	17.426	VV	497	4271	0.08%	0.018%
344	17.433	17.426	17.440	VV	600	3980	0.07%	0.017%
345	17.446	17.440	17.455	VV	714	5951	0.11%	0.025%
346	17.460	17.455	17.472	VV	654	5627	0.10%	0.023%
347	17.481	17.472	17.504	VV	570	8716	0.16%	0.036%
348	17.508	17.504	17.531	VV	523	4596	0.09%	0.019%
349	17.562	17.531	17.582	VV	519	10236	0.19%	0.043%
350	17.597	17.582	17.609	VV	359	4937	0.09%	0.021%
351	17.618	17.609	17.625	VV	458	3542	0.07%	0.015%

					rteres			
352	17.648	17.625	17.656	VV	476	6003	0.11%	0.025%
353	17.697	17.656	17.711	VV	739	18246	0.34%	0.076%
354	17.768	17.711	17.797	VV	2905	66851	1.25%	0.278%
355	17.837	17.797	17.841	VV	725	14584	0.27%	0.061%
356	17.857	17.841	17.899	VV	1364	29891	0.56%	0.125%
357	17.930	17.899	17.949	VV	850	18059	0.34%	0.075%
358	17.953	17.949	17.967	VV	552	3932	0.07%	0.016%
359	17.996	17.967	18.017	VV	567	12287	0.23%	0.051%
360	18.028	18.017	18.035	VV	464	4635	0.09%	0.019%
361	18.049	18.035	18.054	VV	895	8316	0.15%	0.035%
362	18.056	18.054	18.079	VV	853	7908	0.15%	0.033%
363	18.121	18.079	18.166	VV	14556	238874	4.45%	0.995%
364	18.189	18.166	18.224	VV	3832	64566	1.20%	0.269%
365	18.243	18.224	18.252	PV	499	5831	0.11%	0.024%
366	18.286	18.252	18.320	VV	1458	36713	0.68%	0.153%
367	18.323	18.320	18.345	VV	854	8802	0.16%	0.037%
368	18.352	18.345	18.358	VV	454	3439	0.06%	0.014%
369	18.398	18.358	18.430	VV	2145	40865	0.76%	0.170%
370	18.434	18.430	18.450	VV	627	6888	0.13%	0.029%
371	18.458	18.450	18.478	VV	591	7138	0.13%	0.030%
372	18.486	18.478	18.517	VV	635	10789	0.20%	0.045%
373	18.541	18.517	18.556	VV	1032	18622	0.35%	0.078%
374	18.599	18.556	18.652	VV	2812	61758	1.15%	0.257%
375	18.654	18.652	18.666	VV	311	1508	0.03%	0.006%
376	18.700	18.666	18.726	VV	1422	24107	0.45%	0.100%
377	18.756	18.726	18.770	VV	359	6190	0.12%	0.026%
378	18.773	18.770	18.782	VV	253	1247	0.02%	0.005%
379	18.811	18.782	18.818	VV	380	4535	0.08%	0.019%
380	18.830	18.818	18.843	VV	357	3613	0.07%	0.015%
381	18.867	18.857	18.880	VV	202	1608	0.03%	0.007%
382	18.946	18.915	18.975	PV	8174	112287	2.09%	0.468%
Sum of corrected areas:					24008415			

Aromatic EPH 061825.M Thu Jun 26 06:07:16 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC061825AL

AreaCount

Parameter Range	FC069221.D	FC069222.D	FC069223.D	FC069224.D	FC069225.D	
Aliphatic C9-C12	42176071.000	20640977.000	8581963.000	4632454.000	2366353.000	
Aliphatic C12-C16	29735945.000	14914656.000	6266673.000	3402693.000	1714249.000	
Aliphatic C16-C21	42009240.000	21363842.000	9096606.000	5044763.000	2549195.000	
Aliphatic C21-C28	49153709.000	24681333.000	10474538.000	5764217.000	2970075.000	
Aliphatic C28-C40	51466619.000	25624553.000	10688039.000	5834277.000	3093728.000	
Aliphatic EPH	214541584.000	107225361.000	45107819.000	24678404.000	12693600.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	146679.6266662	6.053				
Aliphatic C12-C16	159210.532	6.932				
Aliphatic C16-C21	154434.3226664	9.092				
Aliphatic C21-C28	133966.3675	8.814				
Aliphatic C28-C40	92124.4166662	8.439				
Aliphatic EPH	128354.1601108	7.942				

Concentration

Parameter Range	FC069221.D	FC069222.D	FC069223.D	FC069224.D	FC069225.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	FC069221.D	FC069222.D	FC069223.D	FC069224.D	FC069225.D	
Aliphatic C9-C12	140586.903333	137606.513333	143032.716666	154415.133333	157756.866666	
Aliphatic C12-C16	148679.725000	149146.560000	156666.825000	170134.650000	171424.900000	
Aliphatic C16-C21	140030.800000	142425.613333	151610.100000	168158.766666	169946.333333	

Initial Calibration Report for SequenceID : FC061825AL

Aliphatic C21-C28	122884.272500	123406.665000	130931.725000	144105.425000	148503.750000	
Aliphatic C28-C40	85777.698333	85415.176666	89066.991666	97237.950000	103124.266666	
Aliphatic EPH	119189.768888	119139.290000	125299.497222	137102.244444	141040.000000	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069221.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 11:17
 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: Jun 18 13:03:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 13:00:39 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)	11.693	15986001	97.180 ug/ml
Spiked Amount 50.000		Recovery =	194.36%
12) S 1-chlorooctadecane (S...	13.126	11916196	96.429 ug/ml
Spiked Amount 50.000		Recovery =	192.86%
Target Compounds			
1) T n-Nonane (C9)	3.414	13645652	99.307 ug/ml
2) T n-Decane (C10)	4.488	14045970	99.234 ug/ml
3) T A~Naphthalene (C11.7)	6.084	15351850	98.877 ug/ml
4) T n-Dodecane (C12)	6.515	14484449	98.886 ug/ml
5) T A~2-methylnaphthalene...	7.146	15098330	98.803 ug/ml
6) T n-Tetradecane (C14)	8.315	14646111	97.954 ug/ml
7) T n-Hexadecane (C16)	9.922	15089834	96.838 ug/ml
8) T n-Octadecane (C18)	11.369	14862064	96.162 ug/ml
10) T n-Eicosane (C20)	12.680	13798752	95.895 ug/ml
11) T n-Heneicosane (C21)	13.294	13348424	96.021 ug/ml
13) T n-Docosane (C22)	13.881	13057210	96.175 ug/ml
14) T n-Tetracosane (C24)	14.986	12613064	96.664 ug/ml
15) T n-Hexacosane (C26)	16.008	12075116	97.240 ug/ml
16) T n-Octacosane (C28)	16.960	11408319	97.337 ug/ml
17) T n-Tricontane (C30)	17.849	10984628	97.402 ug/ml
18) T n-Dotriacontane (C32)	18.683	10087033	97.565 ug/ml
19) T n-Tetratriacontane (C34)	19.468	8976674	97.988 ug/ml
20) T n-Hexatriacontane (C36)	20.209	7711070	98.564 ug/ml
21) T n-Octatriacontane (C38)	20.980	7003730	98.486 ug/ml
22) T n-Tetracontane (C40)	21.951	6703484	99.440 ug/ml

(f)=RT Delta > 1/2 Window

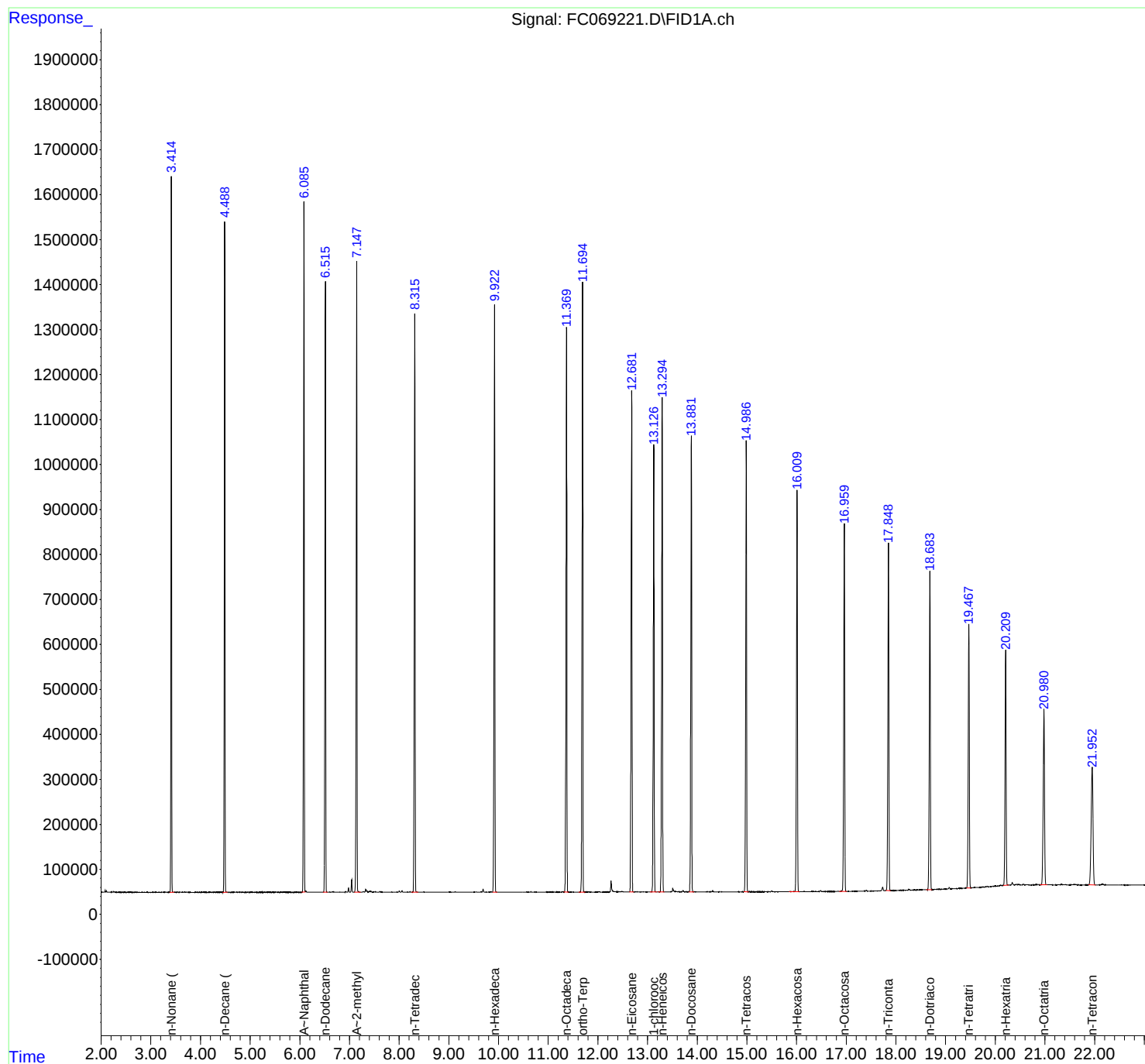
(m)=manual int.

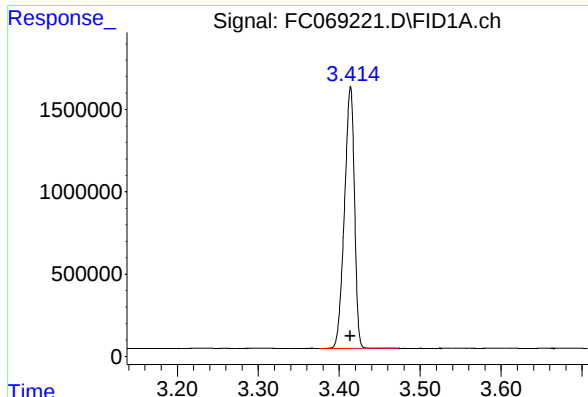
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
Data File : FC069221.D
Signal(s) : FID1A.ch
Acq On : 18 Jun 2025 11:17
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jun 18 13:03:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 13:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

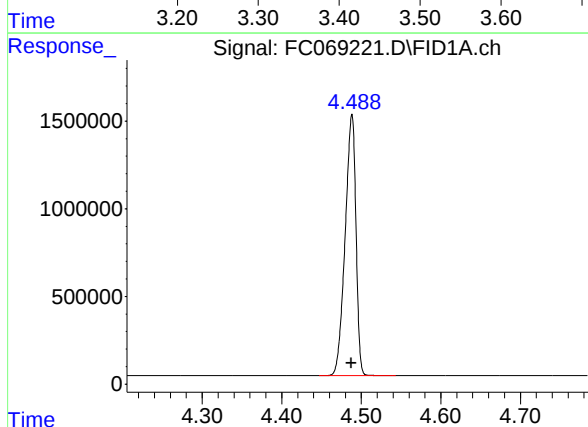




#1 n-Nonane (C9)

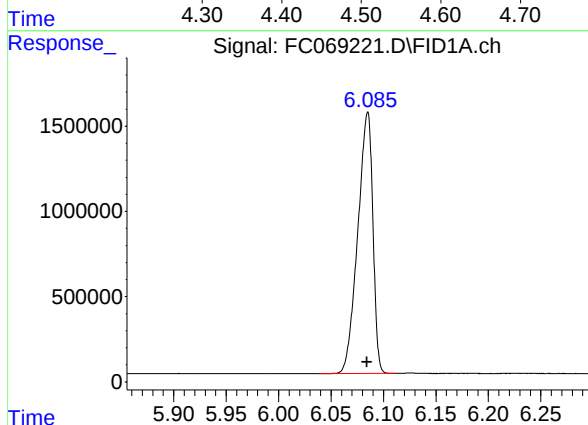
R.T.: 3.414 min
Delta R.T.: 0.000 min
Response: 13645652
Conc: 99.31 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



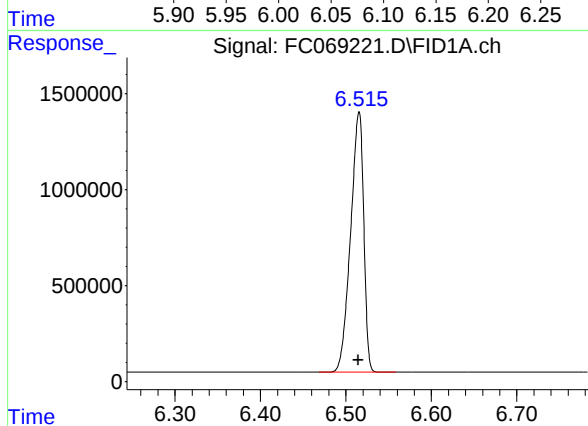
#2 n-Decane (C10)

R.T.: 4.488 min
Delta R.T.: 0.000 min
Response: 14045970
Conc: 99.23 ug/ml



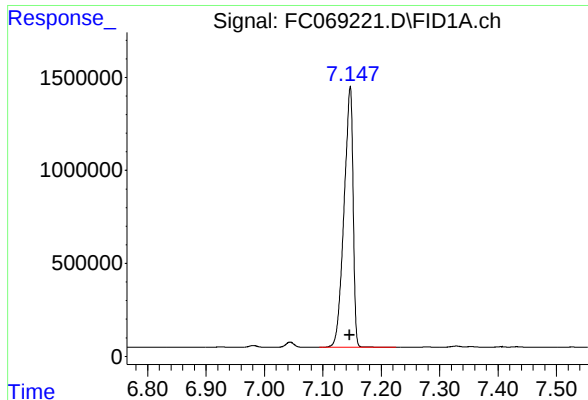
#3 A~Naphthalene (C11.7)

R.T.: 6.084 min
Delta R.T.: 0.000 min
Response: 15351850
Conc: 98.88 ug/ml



#4 n-Dodecane (C12)

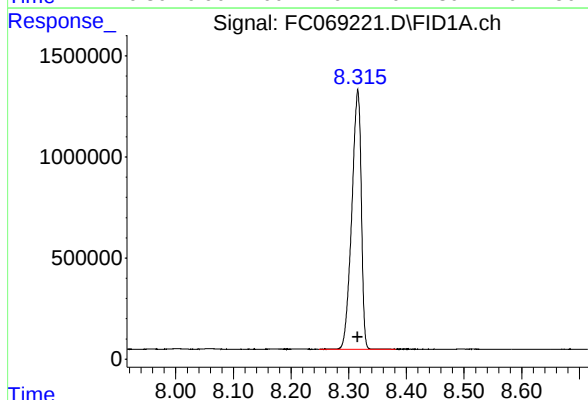
R.T.: 6.515 min
Delta R.T.: 0.000 min
Response: 14484449
Conc: 98.89 ug/ml



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

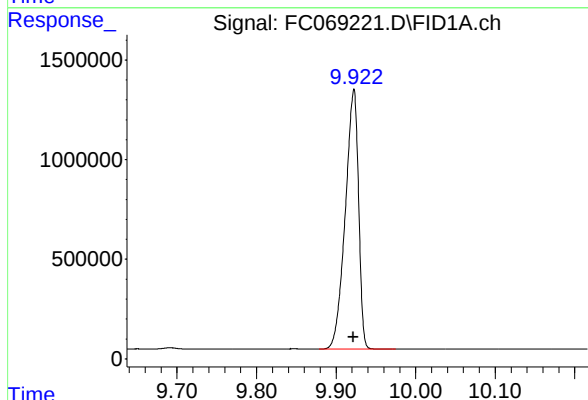
R.T.: 7.146 min
Delta R.T.: 0.000 min
Response: 15098330
Conc: 98.80 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



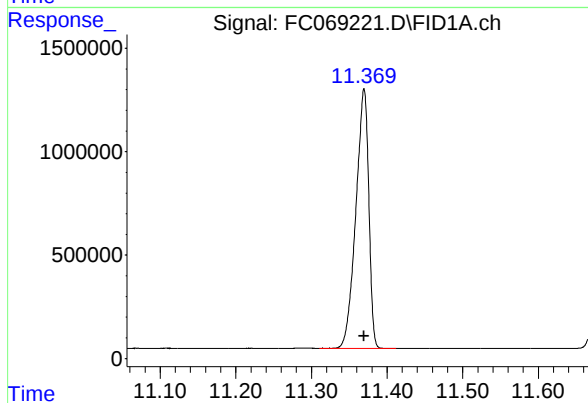
#6 n-Tetradecane (C14)

R.T.: 8.315 min
Delta R.T.: 0.000 min
Response: 14646111
Conc: 97.95 ug/ml



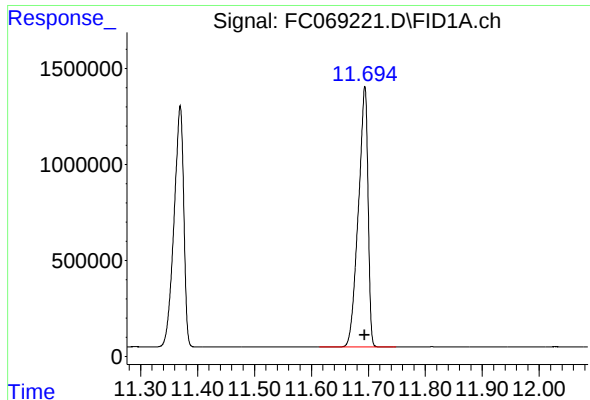
#7 n-Hexadecane (C16)

R.T.: 9.922 min
Delta R.T.: 0.000 min
Response: 15089834
Conc: 96.84 ug/ml



#8 n-Octadecane (C18)

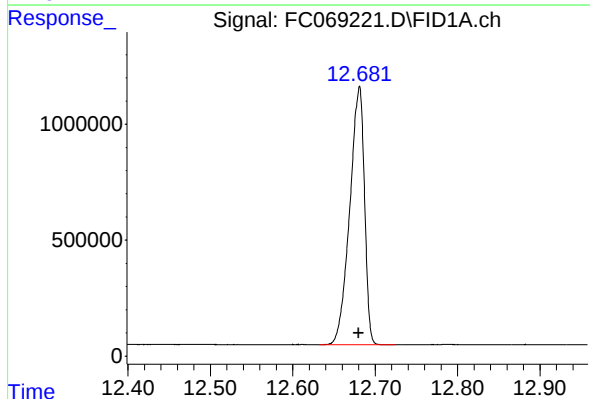
R.T.: 11.369 min
Delta R.T.: 0.000 min
Response: 14862064
Conc: 96.16 ug/ml



#9 ortho-Terphenyl (SURR)

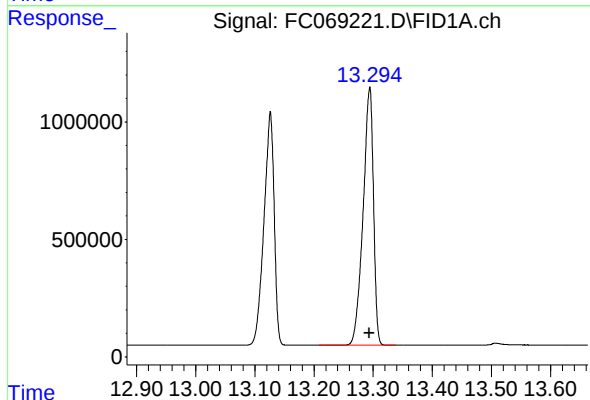
R.T.: 11.693 min
Delta R.T.: 0.000 min
Response: 15986001
Conc: 97.18 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



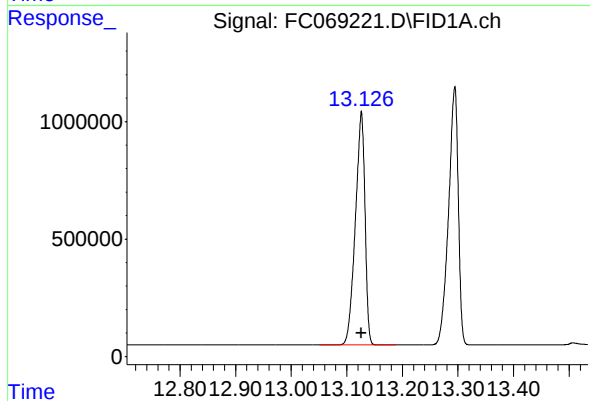
#10 n-Eicosane (C20)

R.T.: 12.680 min
Delta R.T.: 0.000 min
Response: 13798752
Conc: 95.90 ug/ml



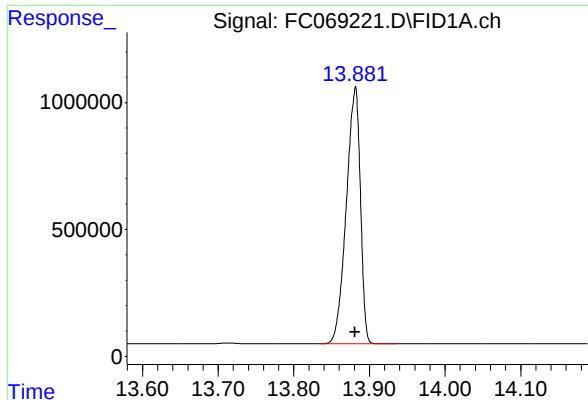
#11 n-Heneicosane (C21)

R.T.: 13.294 min
Delta R.T.: 0.000 min
Response: 13348424
Conc: 96.02 ug/ml



#12 1-chlorooctadecane (SURR)

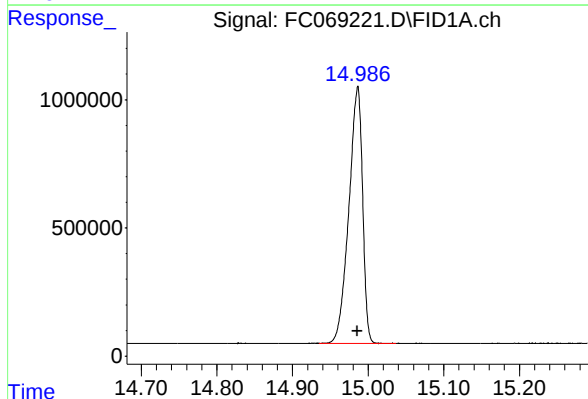
R.T.: 13.126 min
Delta R.T.: 0.000 min
Response: 11916196
Conc: 96.43 ug/ml



#13 n-Docosane (C22)

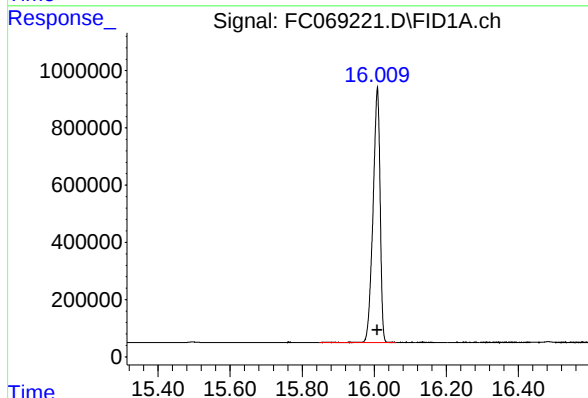
R.T.: 13.881 min
Delta R.T.: 0.000 min
Response: 13057210
Conc: 96.17 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



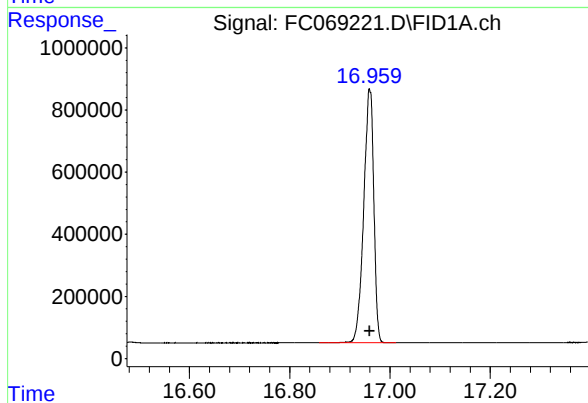
#14 n-Tetracosane (C24)

R.T.: 14.986 min
Delta R.T.: 0.000 min
Response: 12613064
Conc: 96.66 ug/ml



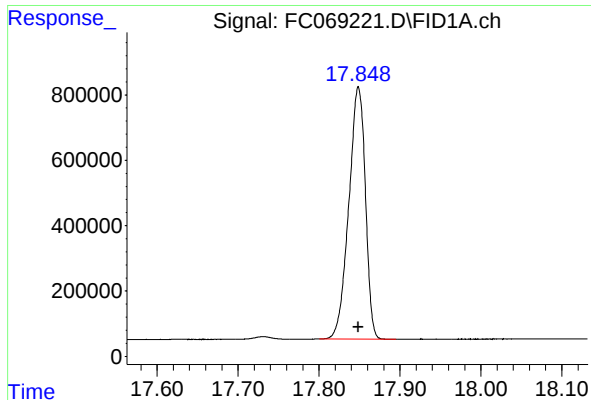
#15 n-Hexacosane (C26)

R.T.: 16.008 min
Delta R.T.: 0.000 min
Response: 12075116
Conc: 97.24 ug/ml



#16 n-Octacosane (C28)

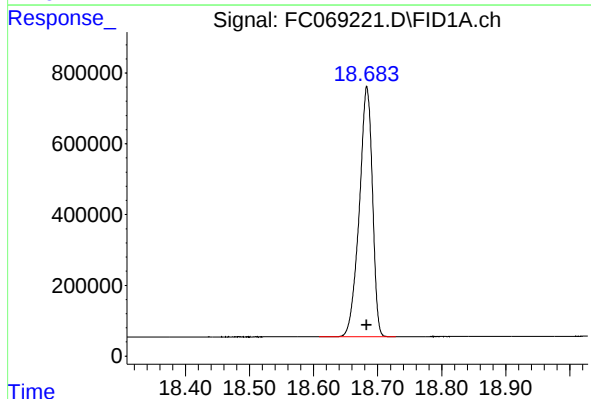
R.T.: 16.960 min
Delta R.T.: 0.000 min
Response: 11408319
Conc: 97.34 ug/ml



#17 n-Tricontane (C30)

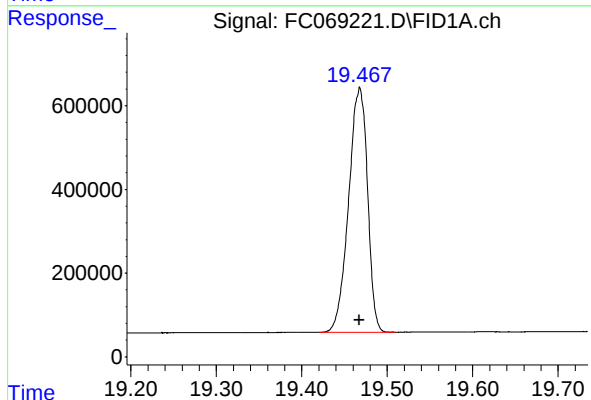
R.T.: 17.849 min
Delta R.T.: 0.000 min
Response: 10984628
Conc: 97.40 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



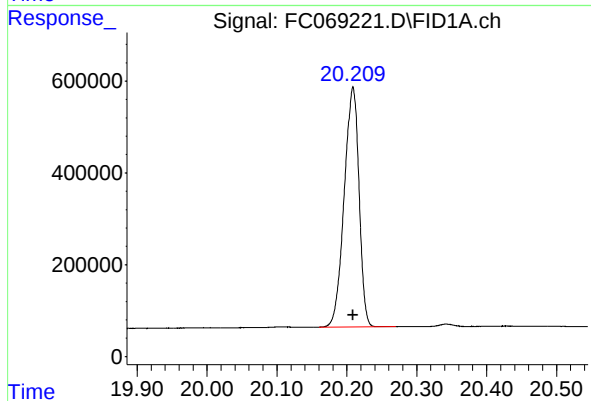
#18 n-Dotriacontane (C32)

R.T.: 18.683 min
Delta R.T.: 0.000 min
Response: 10087033
Conc: 97.56 ug/ml



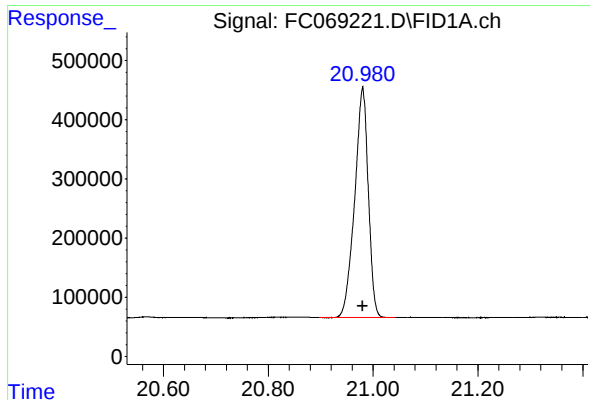
#19 n-Tetatriacontane (C34)

R.T.: 19.468 min
Delta R.T.: 0.000 min
Response: 8976674
Conc: 97.99 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.209 min
Delta R.T.: 0.000 min
Response: 7711070
Conc: 98.56 ug/ml



#21 n-Octatriacontane (C38)

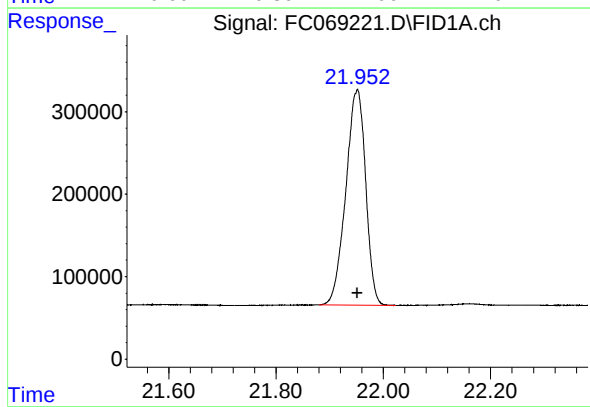
R.T.: 20.980 min
Delta R.T.: 0.000 min
Response: 7003730
Conc: 98.49 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.951 min
Delta R.T.: 0.000 min
Response: 6703484
Conc: 99.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069221.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 11:17
 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 061825.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	3.414	3.375	3.470	BB	1589425	13645652	85.36%	5.000%
2	4.488	4.447	4.543	BB	1501566	14045970	87.86%	5.147%
3	6.084	6.038	6.112	BV	1547258	15351850	96.03%	5.626%
4	6.515	6.468	6.558	BB	1360162	14484449	90.61%	5.308%
5	7.146	7.093	7.225	BB	1411463	15098330	94.45%	5.533%
6	8.315	8.248	8.382	BB	1279328	14646111	91.62%	5.367%
7	9.922	9.878	9.975	BB	1299249	15089834	94.39%	5.530%
8	11.369	11.310	11.412	BB	1250407	14862064	92.97%	5.446%
9	11.693	11.613	11.748	BB	1361720	15986001	100.00%	5.858%
10	12.680	12.632	12.725	BB	1105551	13798752	86.32%	5.056%
11	13.126	13.050	13.188	BB	986163	11916196	74.54%	4.367%
12	13.294	13.208	13.338	BB	1091366	13348424	83.50%	4.891%
13	13.881	13.833	13.935	BB	997311	13057210	81.68%	4.785%
14	14.986	14.935	15.037	BB	992019	12613064	78.90%	4.622%
15	16.008	15.847	16.060	BB	889459	12075116	75.54%	4.425%
16	16.960	16.858	17.012	BB	811298	11408319	71.36%	4.180%
17	17.849	17.800	17.895	BB	772421	10984628	68.71%	4.025%
18	18.683	18.608	18.728	BB	706729	10087033	63.10%	3.696%
19	19.468	19.420	19.510	BB	581252	8976674	56.15%	3.289%
20	20.209	20.160	20.270	BB	522339	7711070	48.24%	2.826%
21	20.980	20.897	21.043	BB	389701	7003730	43.81%	2.566%
22	21.951	21.880	22.023	BB	262169	6703484	41.93%	2.456%
Sum of corrected areas:						272893962		

Aliphatic EPH 061825.M Wed Jun 18 14:39:06 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069222.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 11:58
 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: Jun 18 13:04:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 13:00:39 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)	11.686	8035113	49.225 ug/ml
Spiked Amount 50.000		Recovery =	98.45%
12) S 1-chlorooctadecane (S...	13.120	6029490	49.188 ug/ml
Spiked Amount 50.000		Recovery =	98.38%
Target Compounds			
1) T n-Nonane (C9)	3.410	6643725	48.888 ug/ml
2) T n-Decane (C10)	4.483	6866535	48.998 ug/ml
3) T A~Naphthalene (C11.7)	6.079	7502425	48.868 ug/ml
4) T n-Dodecane (C12)	6.510	7130717	49.113 ug/ml
5) T A~2-methylnaphthalene...	7.140	7422117	49.038 ug/ml
6) T n-Tetradecane (C14)	8.310	7295732	49.190 ug/ml
7) T n-Hexadecane (C16)	9.916	7618924	49.257 ug/ml
8) T n-Octadecane (C18)	11.362	7565304	49.295 ug/ml
10) T n-Eicosane (C20)	12.673	7024996	49.208 ug/ml
11) T n-Heneicosane (C21)	13.287	6773542	49.143 ug/ml
13) T n-Docosane (C22)	13.874	6604673	49.090 ug/ml
14) T n-Tetracosane (C24)	14.980	6337022	49.034 ug/ml
15) T n-Hexacosane (C26)	16.002	6031220	49.037 ug/ml
16) T n-Octacosane (C28)	16.954	5708418	49.129 ug/ml
17) T n-Tricontane (C30)	17.843	5495136	49.144 ug/ml
18) T n-Dotriacontane (C32)	18.677	5055272	49.259 ug/ml
19) T n-Tetratriacontane (C34)	19.461	4482554	49.282 ug/ml
20) T n-Hexatriacontane (C36)	20.203	3834019	49.334 ug/ml
21) T n-Octatriacontane (C38)	20.973	3467597	49.167 ug/ml
22) T n-Tetracontane (C40)	21.942	3289975	49.196 ug/ml

(f)=RT Delta > 1/2 Window

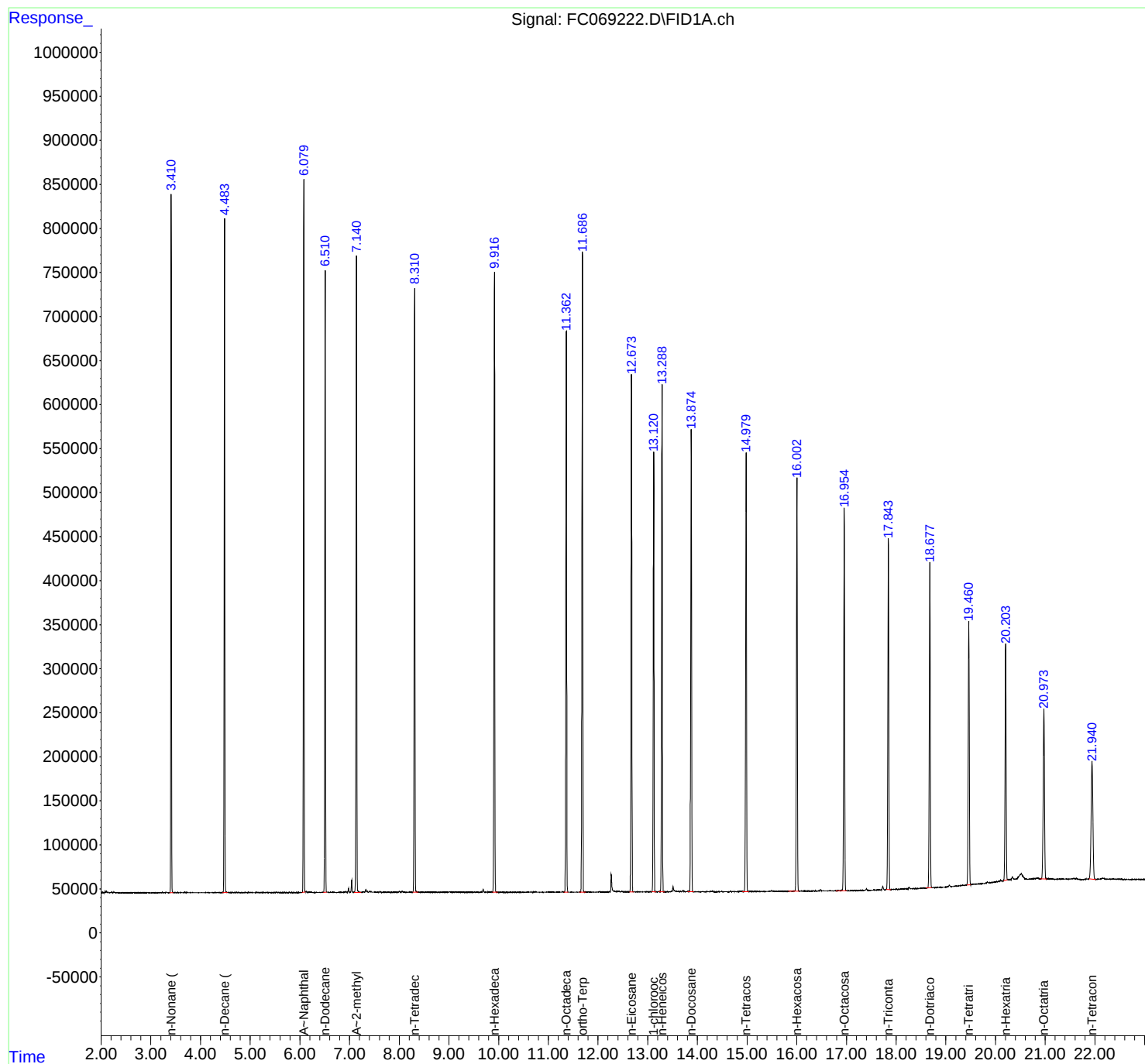
(m)=manual int.

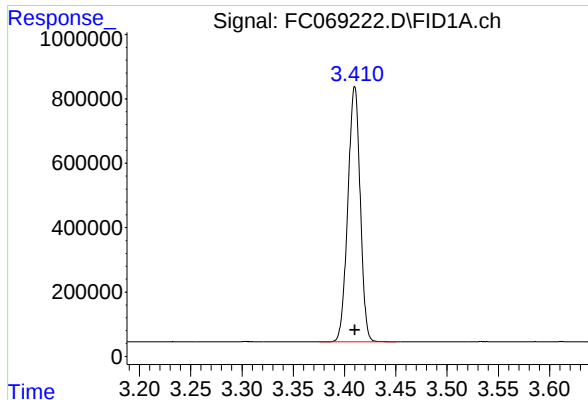
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
Data File : FC069222.D
Signal(s) : FID1A.ch
Acq On : 18 Jun 2025 11:58
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jun 18 13:04:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 13:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

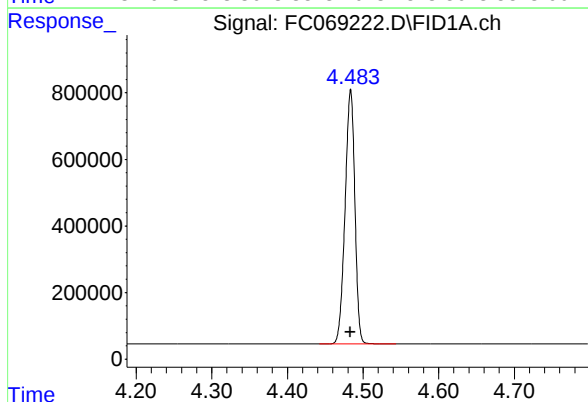




#1 n-Nonane (C9)

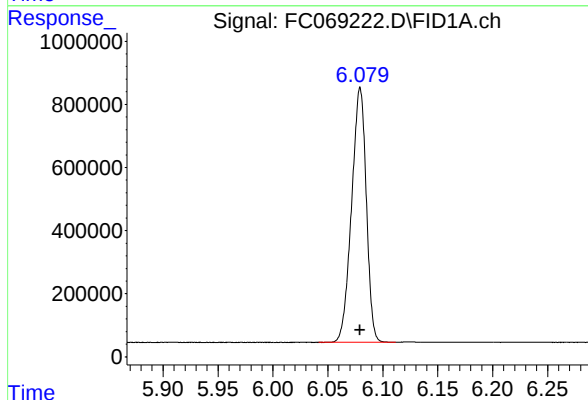
R.T.: 3.410 min
Delta R.T.: 0.000 min
Response: 6643725
Conc: 48.89 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



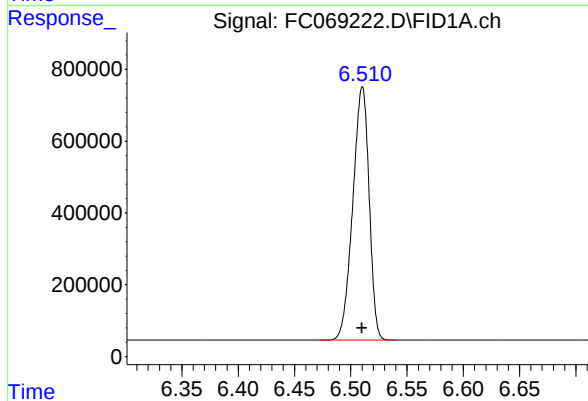
#2 n-Decane (C10)

R.T.: 4.483 min
Delta R.T.: 0.000 min
Response: 6866535
Conc: 49.00 ug/ml



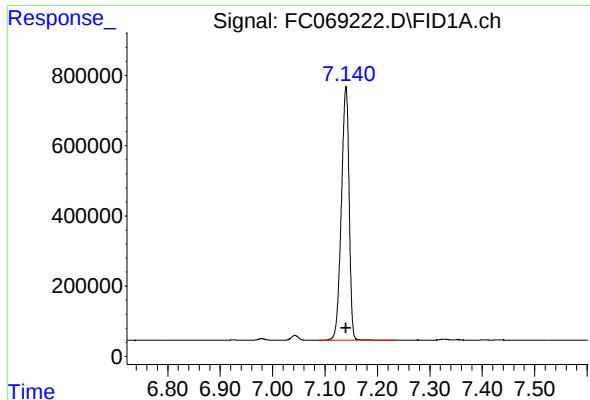
#3 A~Naphthalene (C11.7)

R.T.: 6.079 min
Delta R.T.: 0.000 min
Response: 7502425
Conc: 48.87 ug/ml



#4 n-Dodecane (C12)

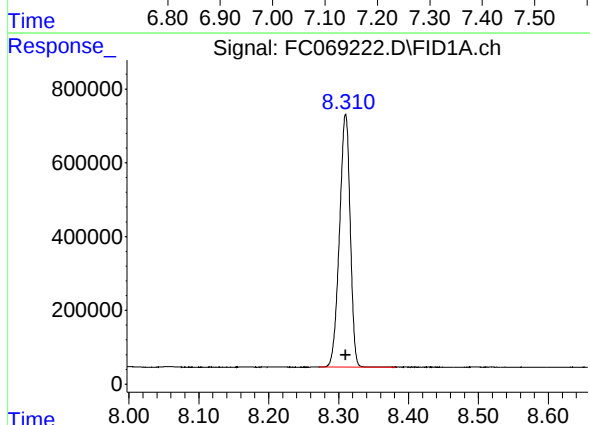
R.T.: 6.510 min
Delta R.T.: 0.000 min
Response: 7130717
Conc: 49.11 ug/ml



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

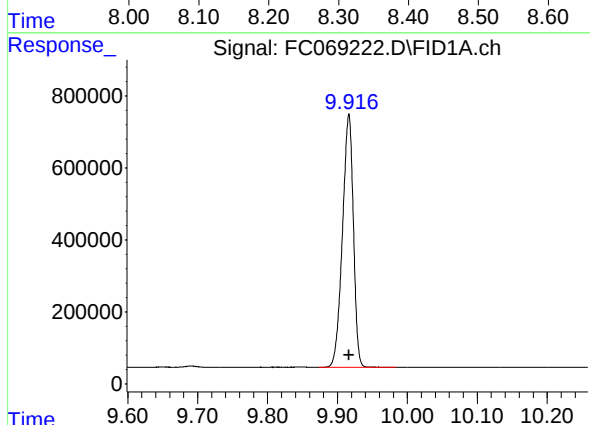
R.T.: 7.140 min
Delta R.T.: 0.000 min
Response: 7422117
Conc: 49.04 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



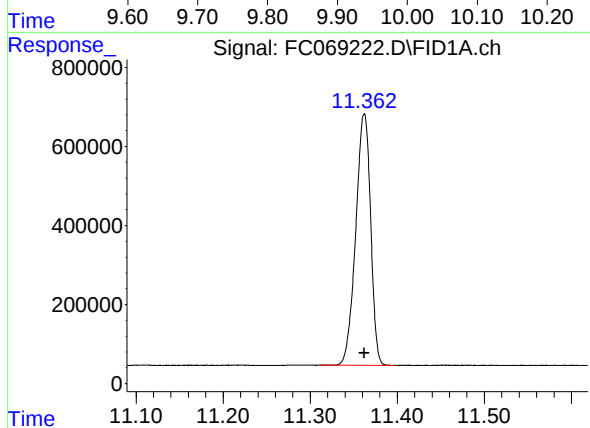
#6 n-Tetradecane (C14)

R.T.: 8.310 min
Delta R.T.: 0.000 min
Response: 7295732
Conc: 49.19 ug/ml



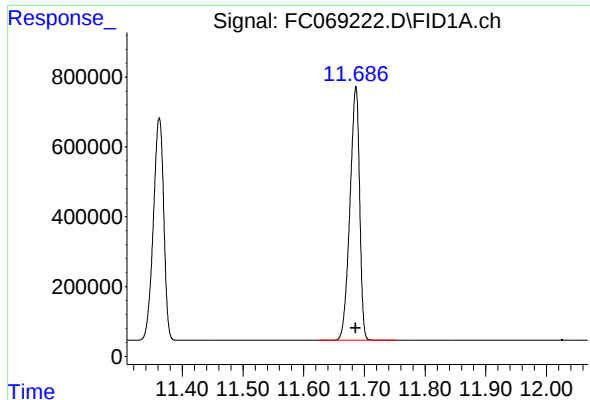
#7 n-Hexadecane (C16)

R.T.: 9.916 min
Delta R.T.: 0.000 min
Response: 7618924
Conc: 49.26 ug/ml



#8 n-Octadecane (C18)

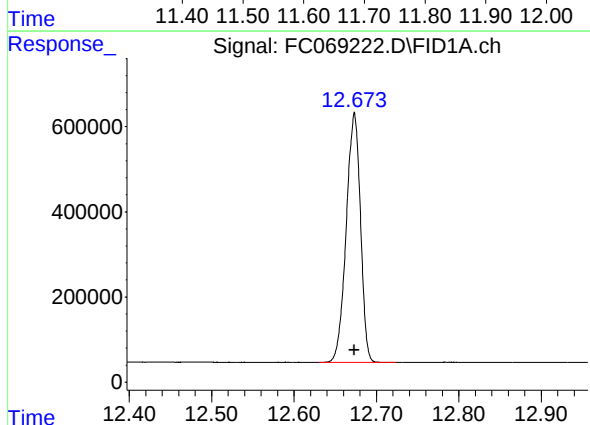
R.T.: 11.362 min
Delta R.T.: 0.000 min
Response: 7565304
Conc: 49.29 ug/ml



#9 ortho-Terphenyl (SURR)

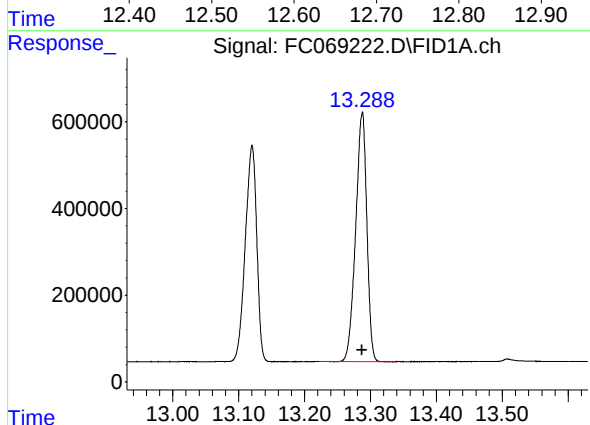
R.T.: 11.686 min
Delta R.T.: 0.000 min
Response: 8035113
Conc: 49.22 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



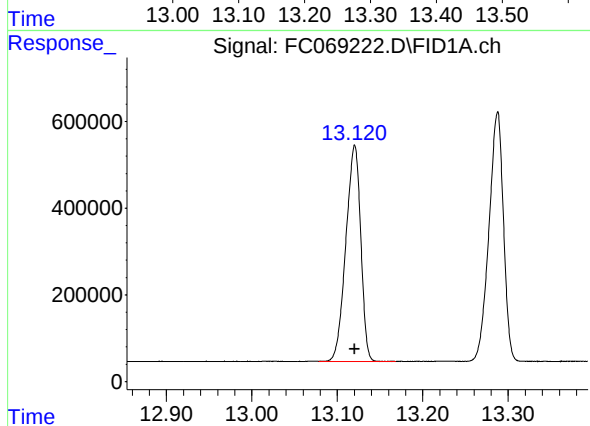
#10 n-Eicosane (C20)

R.T.: 12.673 min
Delta R.T.: 0.000 min
Response: 7024996
Conc: 49.21 ug/ml



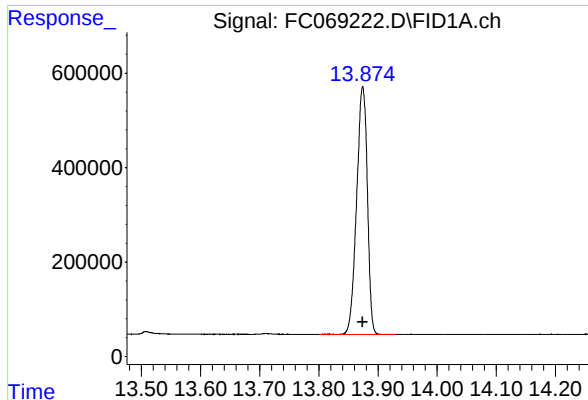
#11 n-Heneicosane (C21)

R.T.: 13.287 min
Delta R.T.: 0.000 min
Response: 6773542
Conc: 49.14 ug/ml



#12 1-chlorooctadecane (SURR)

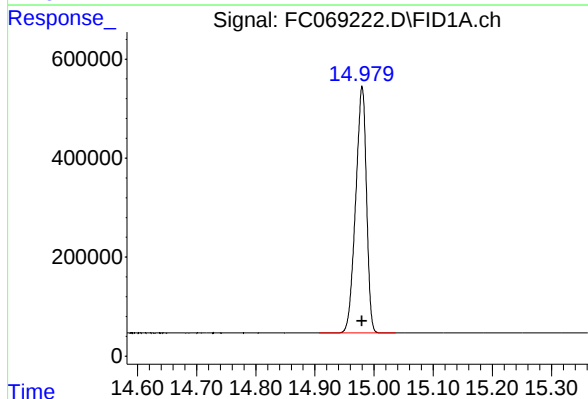
R.T.: 13.120 min
Delta R.T.: 0.000 min
Response: 6029490
Conc: 49.19 ug/ml



#13 n-Docosane (C22)

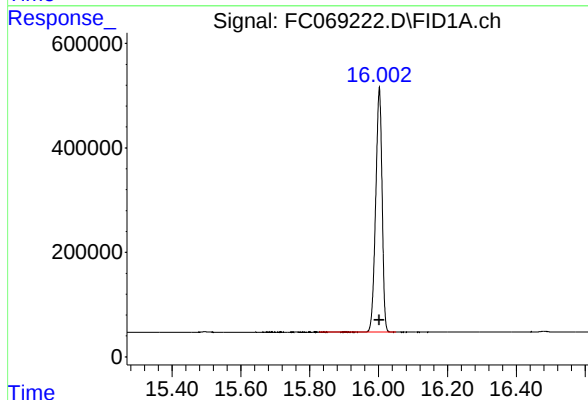
R.T.: 13.874 min
Delta R.T.: 0.000 min
Response: 6604673
Conc: 49.09 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



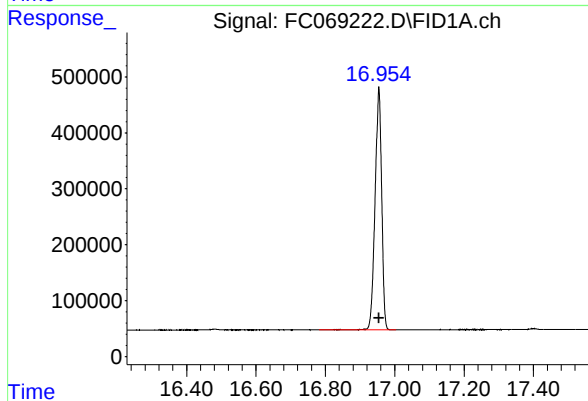
#14 n-Tetracosane (C24)

R.T.: 14.980 min
Delta R.T.: 0.000 min
Response: 6337022
Conc: 49.03 ug/ml



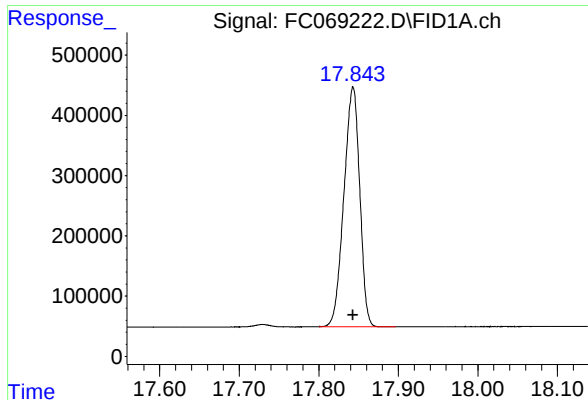
#15 n-Hexacosane (C26)

R.T.: 16.002 min
Delta R.T.: 0.000 min
Response: 6031220
Conc: 49.04 ug/ml



#16 n-Octacosane (C28)

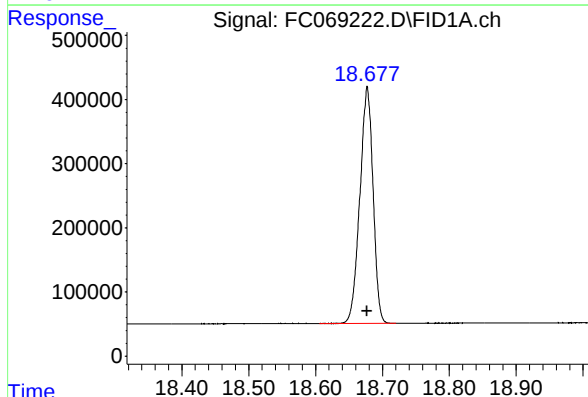
R.T.: 16.954 min
Delta R.T.: 0.000 min
Response: 5708418
Conc: 49.13 ug/ml



#17 n-Tricontane (C30)

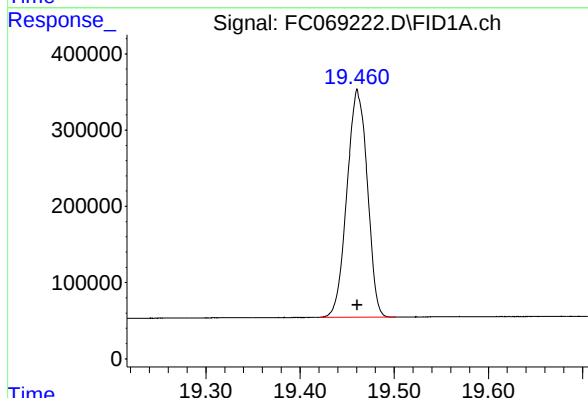
R.T.: 17.843 min
Delta R.T.: 0.000 min
Response: 5495136
Conc: 49.14 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



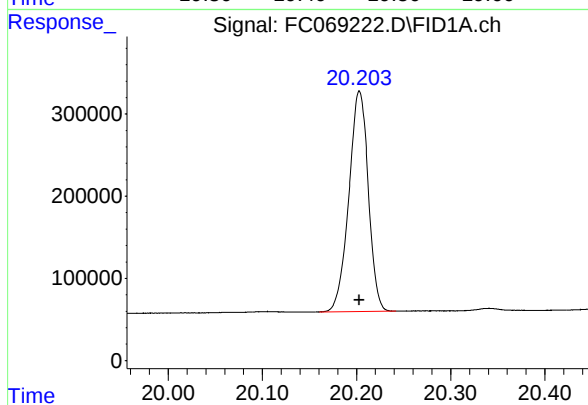
#18 n-Dotriacontane (C32)

R.T.: 18.677 min
Delta R.T.: 0.000 min
Response: 5055272
Conc: 49.26 ug/ml



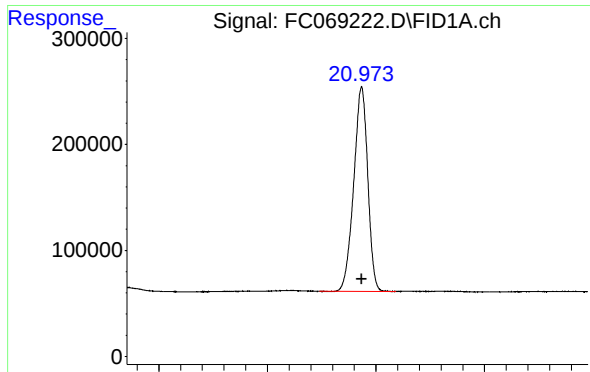
#19 n-Tetatriacontane (C34)

R.T.: 19.461 min
Delta R.T.: 0.000 min
Response: 4482554
Conc: 49.28 ug/ml



#20 n-Hexatriacontane (C36)

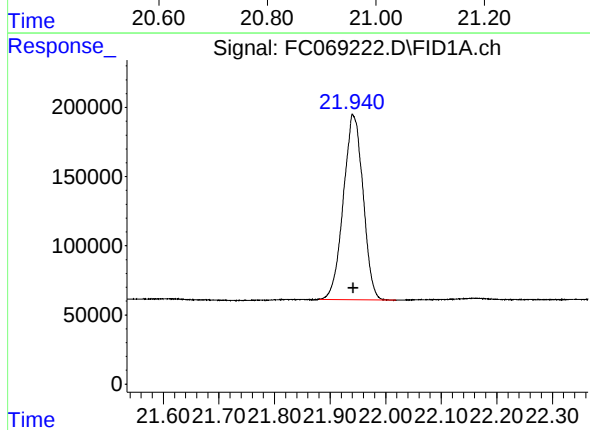
R.T.: 20.203 min
Delta R.T.: 0.000 min
Response: 3834019
Conc: 49.33 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.973 min
Delta R.T.: 0.000 min
Response: 3467597
Conc: 49.17 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.942 min
Delta R.T.: 0.000 min
Response: 3289975
Conc: 49.20 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
Data File : FC069222.D
Signal(s) : FID1A.ch
Acq On : 18 Jun 2025 11:58
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 061825.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	3.410	3.375	3.450	BB	795544	6643725	82.68%	4.877%
2	4.483	4.442	4.544	BB	766141	6866535	85.46%	5.041%
3	6.079	6.042	6.112	BV	806752	7502425	93.37%	5.508%
4	6.510	6.472	6.540	BB	707214	7130717	88.74%	5.235%
5	7.140	7.089	7.235	BB	725635	7422117	92.37%	5.449%
6	8.310	8.272	8.382	BB	687407	7295732	90.80%	5.356%
7	9.916	9.874	9.984	BB	709129	7618924	94.82%	5.593%
8	11.362	11.310	11.399	BB	636170	7565304	94.15%	5.554%
9	11.686	11.625	11.752	BB	723509	8035113	100.00%	5.899%
10	12.673	12.630	12.724	BB	588442	7024996	87.43%	5.157%
11	13.120	13.079	13.169	BB	499809	6029490	75.04%	4.426%
12	13.287	13.222	13.339	BB	572639	6773542	84.30%	4.973%
13	13.874	13.800	13.930	BB	524181	6604673	82.20%	4.849%
14	14.980	14.907	15.037	BB	498100	6337022	78.87%	4.652%
15	16.002	15.827	16.050	BB	468957	6031220	75.06%	4.428%
16	16.954	16.782	17.004	BB	434550	5708418	71.04%	4.191%
17	17.843	17.800	17.897	BB	398209	5495136	68.39%	4.034%
18	18.677	18.605	18.720	BB	369601	5055272	62.91%	3.711%
19	19.461	19.420	19.502	BB	293442	4482554	55.79%	3.291%
20	20.203	20.160	20.242	BB	267926	3834019	47.72%	2.815%
21	20.973	20.895	21.037	BB	193429	3467597	43.16%	2.546%
22	21.942	21.880	22.019	BB	132645	3289975	40.94%	2.415%
Sum of corrected areas:						136214504		

Aliphatic EPH 061825.M Wed Jun 18 14:38:30 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069223.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 12:39
 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: Jun 18 13:01:01 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 13:00:39 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)	11.680	3382762	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.116	2559732	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.410	2767240	20.000 ug/ml
2) T n-Decane (C10)	4.482	2852554	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.077	3140084	20.000 ug/ml
4) T n-Dodecane (C12)	6.507	2962169	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.136	3092803	20.000 ug/ml
6) T n-Tetradecane (C14)	8.307	3051599	20.000 ug/ml
7) T n-Hexadecane (C16)	9.912	3215074	20.000 ug/ml
8) T n-Octadecane (C18)	11.357	3209683	20.000 ug/ml
10) T n-Eicosane (C20)	12.670	2996001	20.000 ug/ml
11) T n-Heneicosane (C21)	13.283	2890922	20.000 ug/ml
13) T n-Docosane (C22)	13.871	2819173	20.000 ug/ml
14) T n-Tetracosane (C24)	14.976	2696756	20.000 ug/ml
15) T n-Hexacosane (C26)	15.999	2552119	20.000 ug/ml
16) T n-Octacosane (C28)	16.950	2406490	20.000 ug/ml
17) T n-Tricontane (C30)	17.839	2314105	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.674	2118123	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.459	1869078	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.200	1587141	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.969	1443800	20.000 ug/ml
22) T n-Tetracontane (C40)	21.938	1355792	20.000 ug/ml

(f)=RT Delta > 1/2 Window

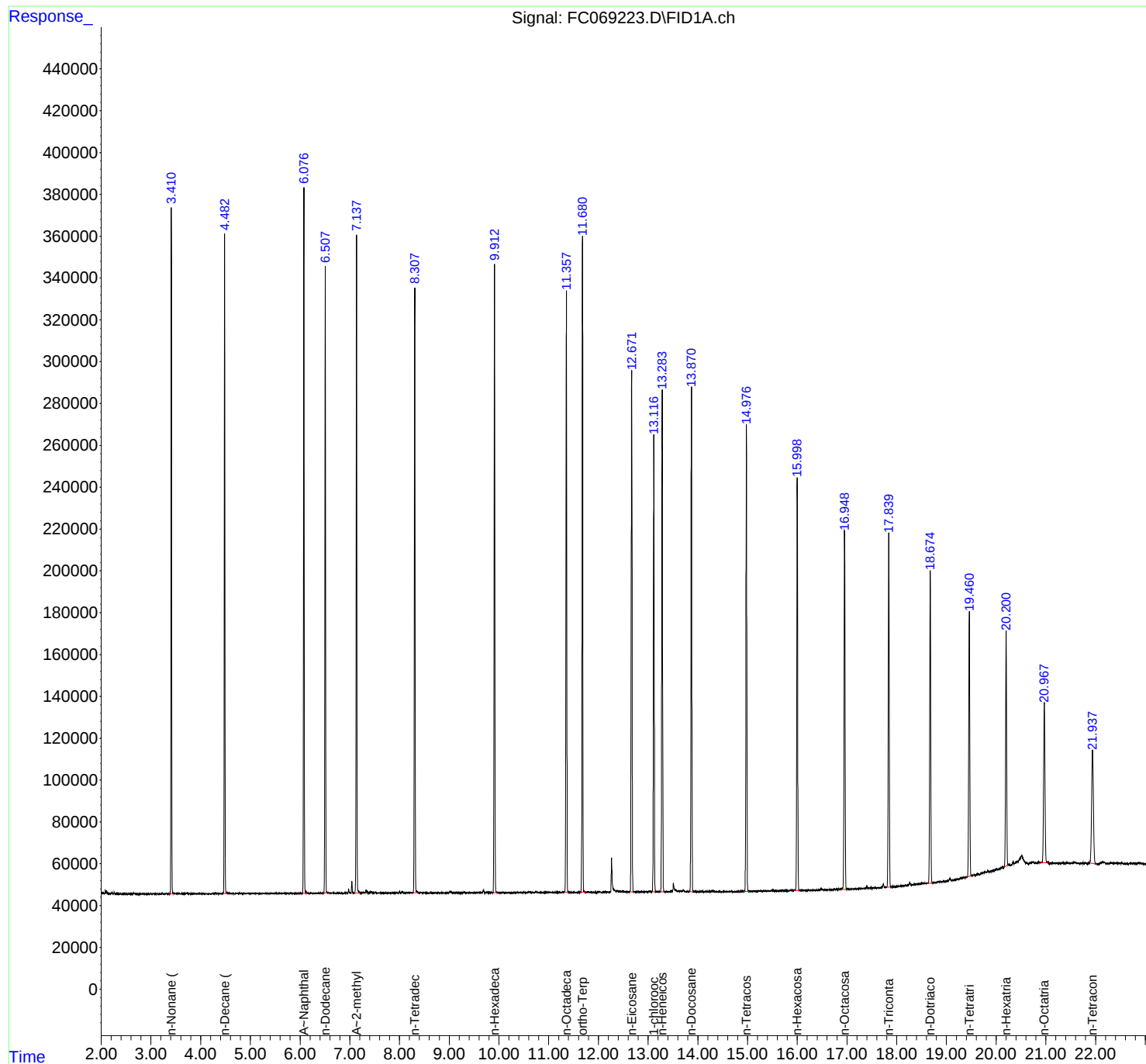
(m)=manual int.

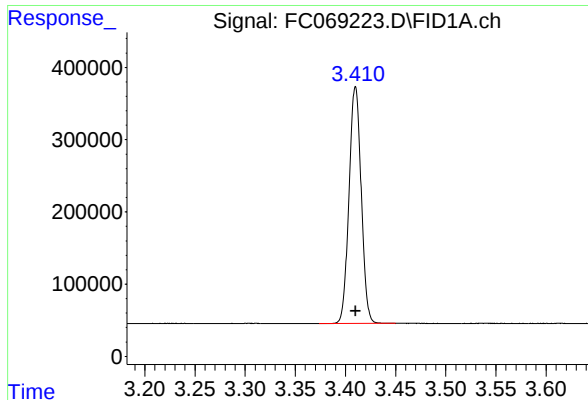
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
Data File : FC069223.D
Signal(s) : FID1A.ch
Acq On : 18 Jun 2025 12:39
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jun 18 13:01:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 13:00:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

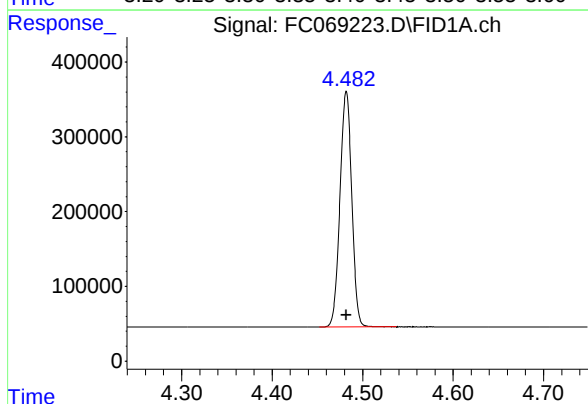




#1 n-Nonane (C9)

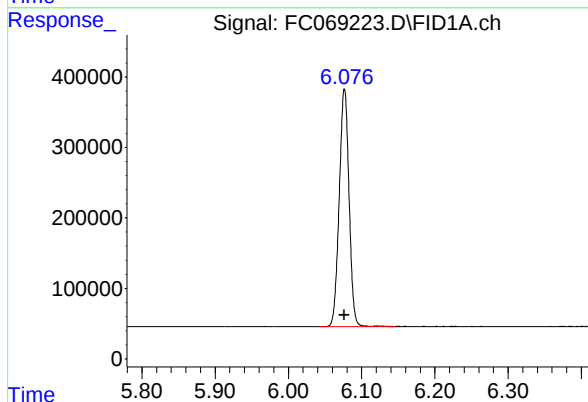
R.T.: 3.410 min
Delta R.T.: 0.000 min
Response: 2767240
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



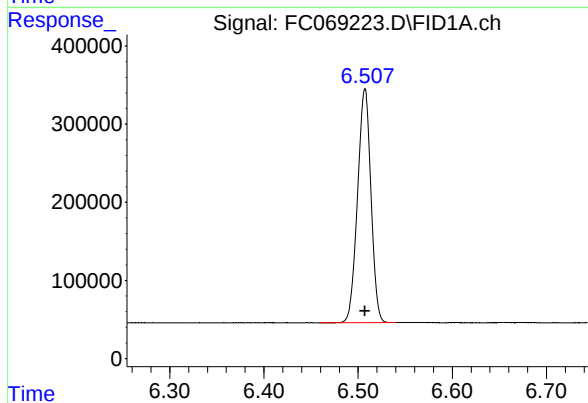
#2 n-Decane (C10)

R.T.: 4.482 min
Delta R.T.: 0.000 min
Response: 2852554
Conc: 20.00 ug/ml



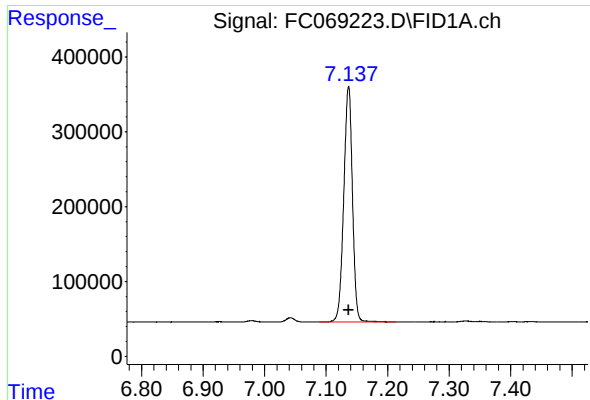
#3 A~Naphthalene (C11.7)

R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 3140084
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

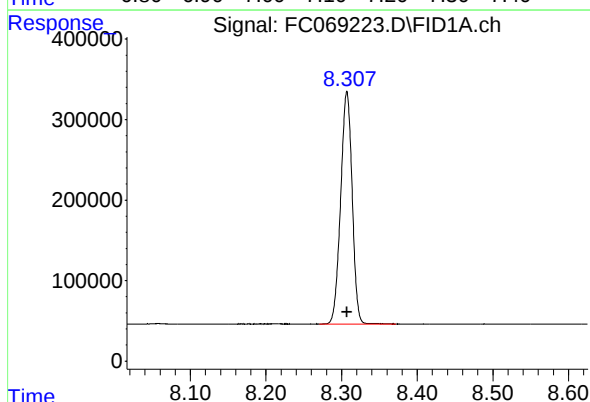
R.T.: 6.507 min
Delta R.T.: 0.000 min
Response: 2962169
Conc: 20.00 ug/ml



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

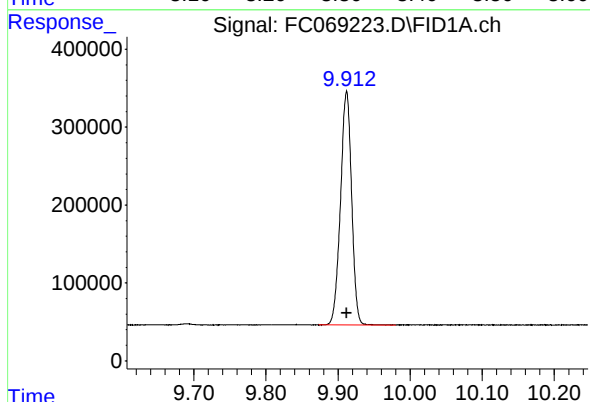
R.T.: 7.136 min
Delta R.T.: 0.000 min
Response: 3092803
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



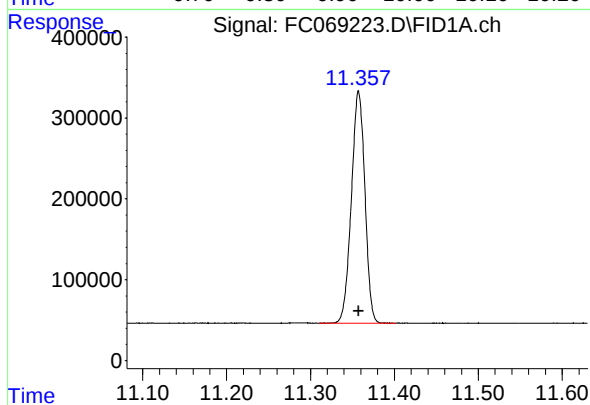
#6 n-Tetradecane (C14)

R.T.: 8.307 min
Delta R.T.: 0.000 min
Response: 3051599
Conc: 20.00 ug/ml



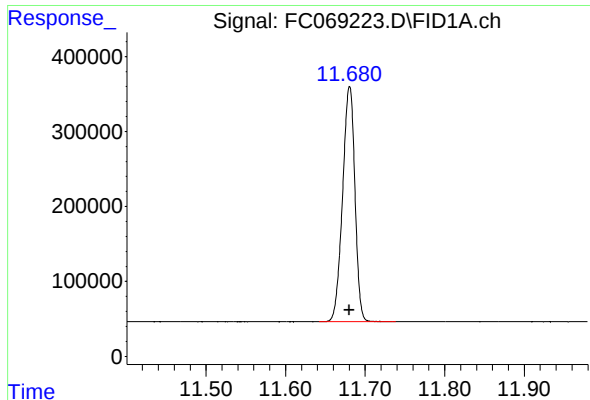
#7 n-Hexadecane (C16)

R.T.: 9.912 min
Delta R.T.: 0.000 min
Response: 3215074
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

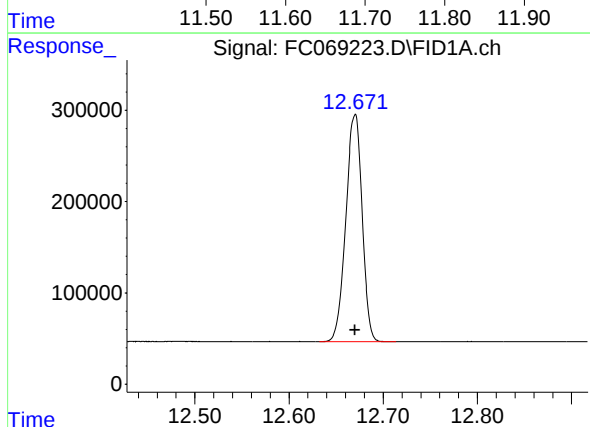
R.T.: 11.357 min
Delta R.T.: 0.000 min
Response: 3209683
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

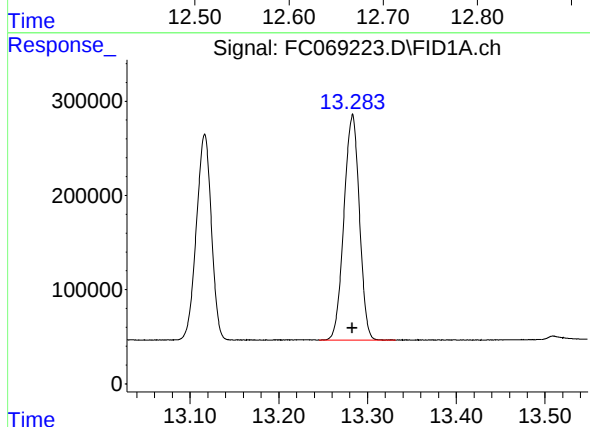
R.T.: 11.680 min
Delta R.T.: 0.000 min
Response: 3382762
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



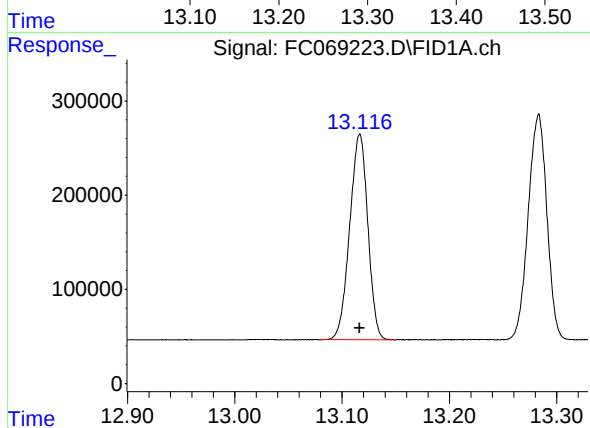
#10 n-Eicosane (C20)

R.T.: 12.670 min
Delta R.T.: 0.000 min
Response: 2996001
Conc: 20.00 ug/ml



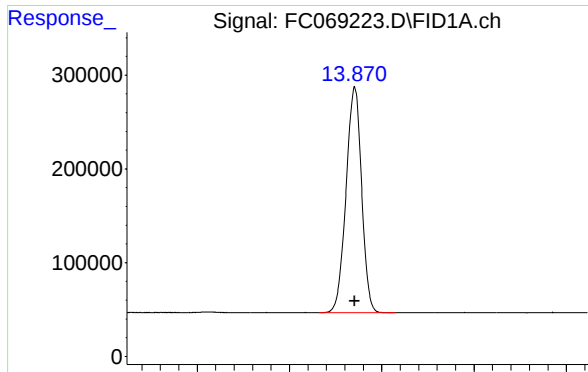
#11 n-Heneicosane (C21)

R.T.: 13.283 min
Delta R.T.: 0.000 min
Response: 2890922
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

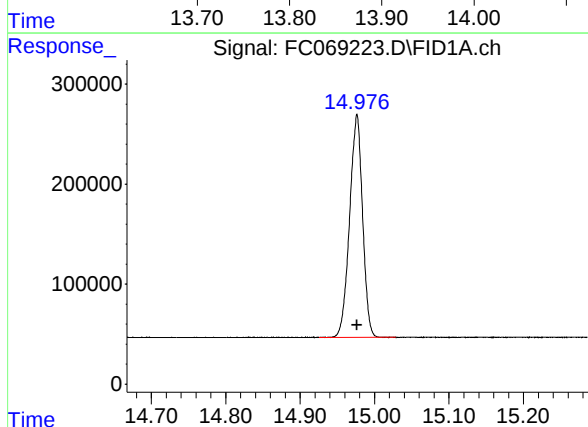
R.T.: 13.116 min
Delta R.T.: 0.000 min
Response: 2559732
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

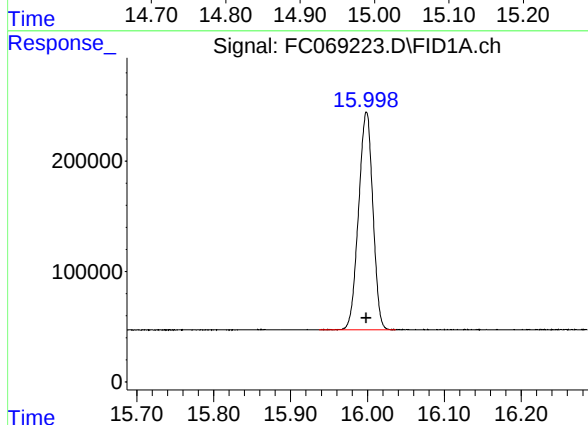
R.T.: 13.871 min
Delta R.T.: 0.000 min
Response: 2819173
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



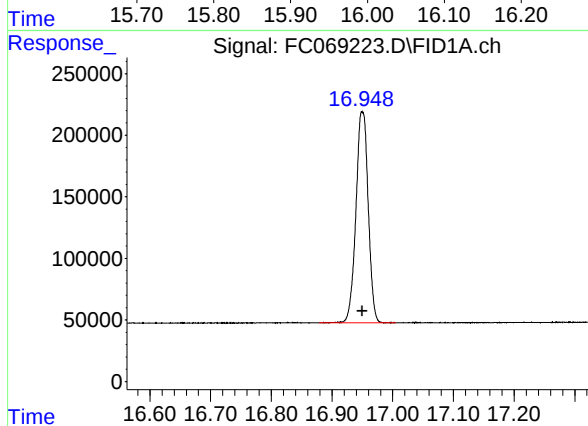
#14 n-Tetracosane (C24)

R.T.: 14.976 min
Delta R.T.: 0.000 min
Response: 2696756
Conc: 20.00 ug/ml



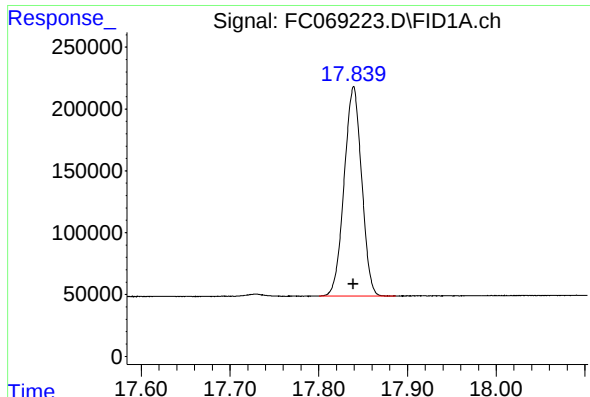
#15 n-Hexacosane (C26)

R.T.: 15.999 min
Delta R.T.: 0.000 min
Response: 2552119
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

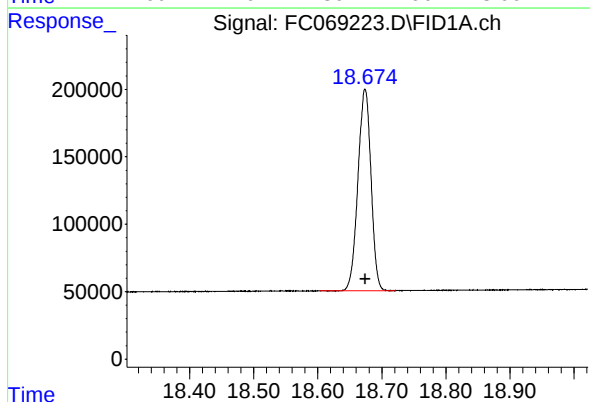
R.T.: 16.950 min
Delta R.T.: 0.000 min
Response: 2406490
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

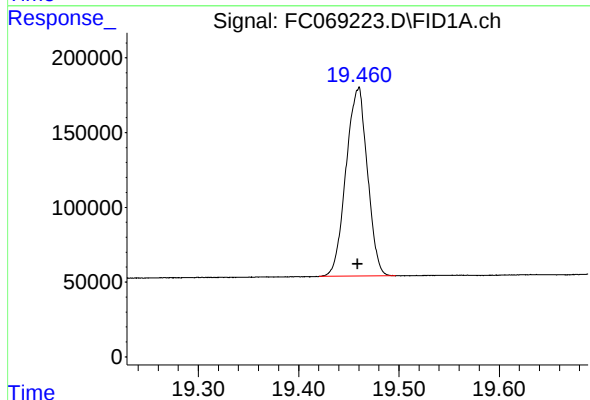
R.T.: 17.839 min
Delta R.T.: 0.000 min
Response: 2314105
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



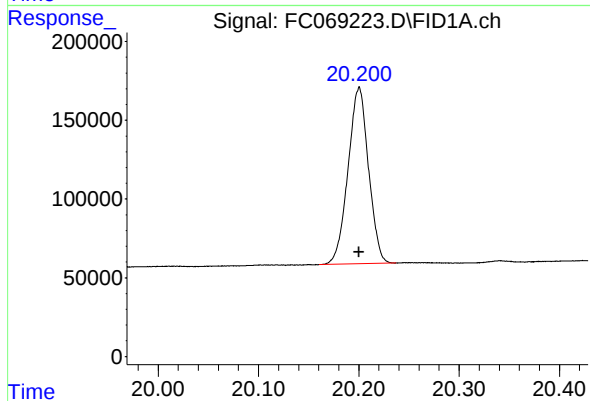
#18 n-Dotriacontane (C32)

R.T.: 18.674 min
Delta R.T.: 0.000 min
Response: 2118123
Conc: 20.00 ug/ml



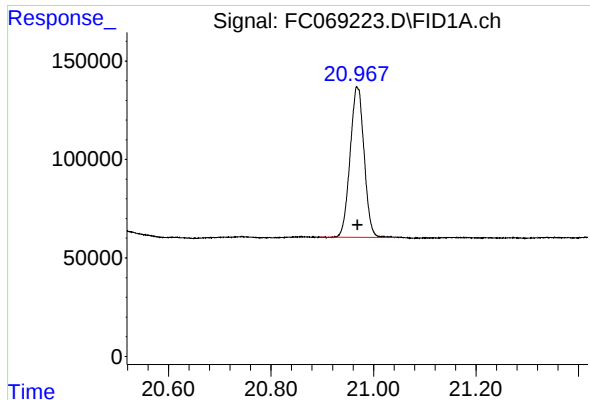
#19 n-Tetratriacontane (C34)

R.T.: 19.459 min
Delta R.T.: 0.000 min
Response: 1869078
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

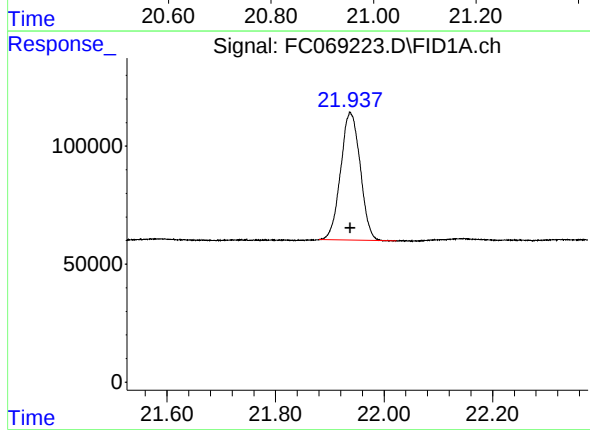
R.T.: 20.200 min
Delta R.T.: 0.000 min
Response: 1587141
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.969 min
Delta R.T.: 0.000 min
Response: 1443800
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.938 min
Delta R.T.: 0.000 min
Response: 1355792
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069223.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 12:39
 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 061825.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	3.410	3.374	3.450	BB	328194	2767240	81.80%	4.831%
2	4.482	4.452	4.537	BB	315257	2852554	84.33%	4.980%
3	6.077	6.042	6.147	BB	337847	3140084	92.83%	5.482%
4	6.507	6.459	6.540	BB	299443	2962169	87.57%	5.171%
5	7.136	7.089	7.214	BB	315538	3092803	91.43%	5.399%
6	8.307	8.270	8.372	BB	288724	3051599	90.21%	5.327%
7	9.912	9.874	9.980	BB	300265	3215074	95.04%	5.613%
8	11.357	11.310	11.402	BB	287165	3209683	94.88%	5.603%
9	11.680	11.642	11.739	BB	314534	3382762	100.00%	5.905%
10	12.670	12.632	12.714	BB	249206	2996001	88.57%	5.230%
11	13.116	13.079	13.150	BB	218895	2559732	75.67%	4.469%
12	13.283	13.245	13.332	BB	240870	2890922	85.46%	5.047%
13	13.871	13.832	13.915	BB	241488	2819173	83.34%	4.921%
14	14.976	14.925	15.029	BB	224439	2696756	79.72%	4.708%
15	15.999	15.937	16.037	BB	197748	2552119	75.44%	4.455%
16	16.950	16.879	17.005	BB	170629	2406490	71.14%	4.201%
17	17.839	17.800	17.887	BB	169041	2314105	68.41%	4.040%
18	18.674	18.602	18.722	BB	149490	2118123	62.62%	3.698%
19	19.459	19.420	19.497	BB	125143	1869078	55.25%	3.263%
20	20.200	20.160	20.237	BB	112095	1587141	46.92%	2.771%
21	20.969	20.894	21.044	BB	75910	1443800	42.68%	2.520%
22	21.938	21.880	22.022	BB	54065	1355792	40.08%	2.367%
Sum of corrected areas:						57283198		

Aliphatic EPH 061825.M Wed Jun 18 14:38:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069224.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 13:20
 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: Jun 18 13:45:26 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 13:45:19 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)	11.678	1856143	10.994 ug/ml
Spiked Amount 50.000		Recovery =	21.99%
12) S 1-chlorooctadecane (S...	13.115	1417487	11.129 ug/ml
Spiked Amount 50.000		Recovery =	22.26%
Target Compounds			
1) T n-Nonane (C9)	3.409	1496071	10.738 ug/ml
2) T n-Decane (C10)	4.481	1544377	10.746 ug/ml
3) T A~Naphthalene (C11.7)	6.076	1699596	10.782 ug/ml
4) T n-Dodecane (C12)	6.506	1592006	10.707 ug/ml
5) T A~2-methylnaphthalene...	7.135	1665892	10.736 ug/ml
6) T n-Tetradecane (C14)	8.306	1646260	10.803 ug/ml
7) T n-Hexadecane (C16)	9.911	1756433	10.983 ug/ml
8) T n-Octadecane (C18)	11.356	1771170	11.113 ug/ml
10) T n-Eicosane (C20)	12.668	1665008	11.197 ug/ml
11) T n-Heneicosane (C21)	13.281	1608585	11.203 ug/ml
13) T n-Docosane (C22)	13.869	1565876	11.181 ug/ml
14) T n-Tetracosane (C24)	14.974	1491873	11.115 ug/ml
15) T n-Hexacosane (C26)	15.998	1397927	10.991 ug/ml
16) T n-Octacosane (C28)	16.949	1308541	10.917 ug/ml
17) T n-Tricontane (C30)	17.839	1257631	10.907 ug/ml
18) T n-Dotriacontane (C32)	18.672	1158654	10.937 ug/ml
19) T n-Tetratriacontane (C34)	19.459	1018840	10.875 ug/ml
20) T n-Hexatriacontane (C36)	20.200	869747	10.868 ug/ml
21) T n-Octatriacontane (C38)	20.969	782717	10.802 ug/ml
22) T n-Tetracontane (C40)	21.938	746688	10.849 ug/ml

(f)=RT Delta > 1/2 Window

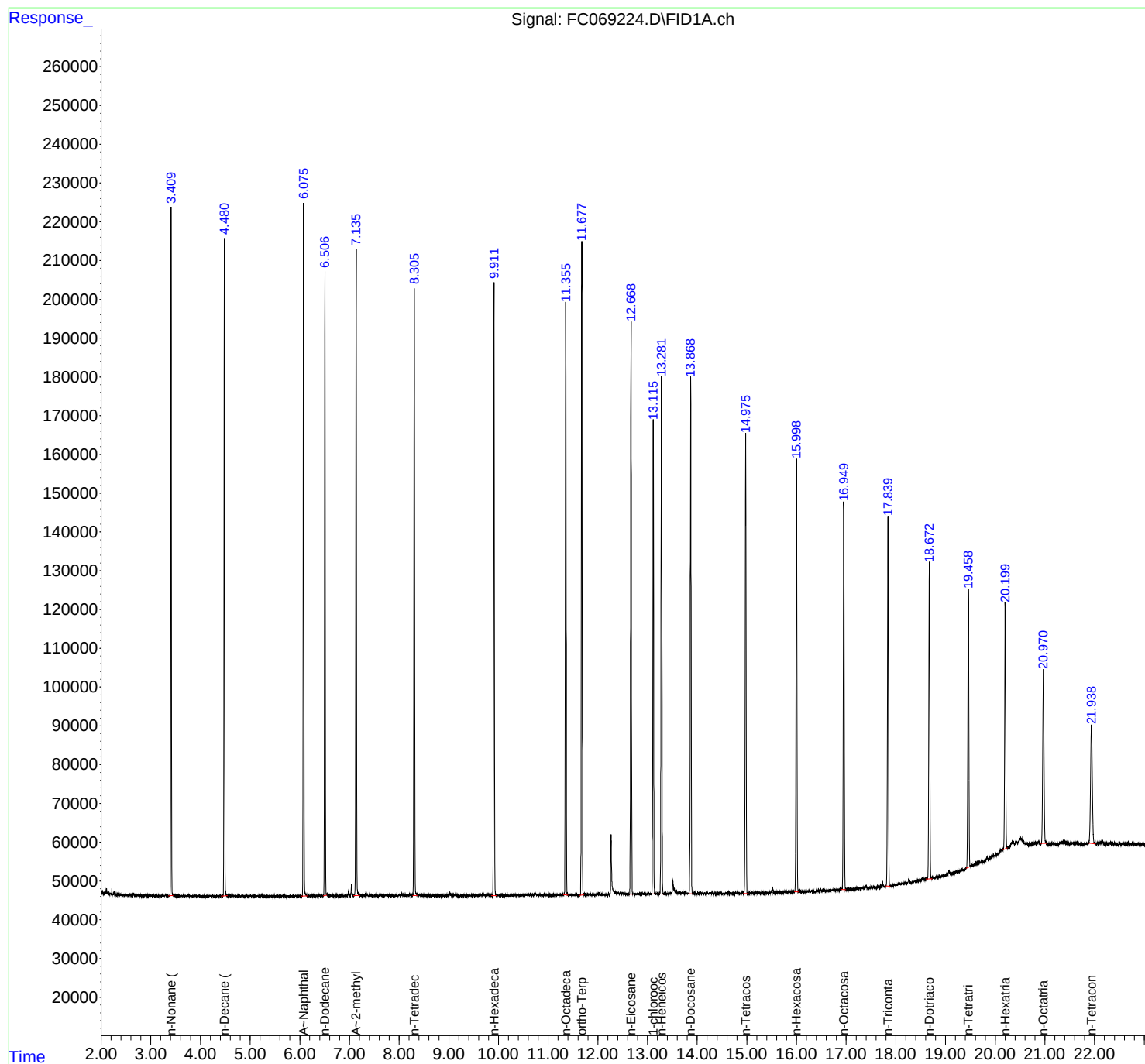
(m)=manual int.

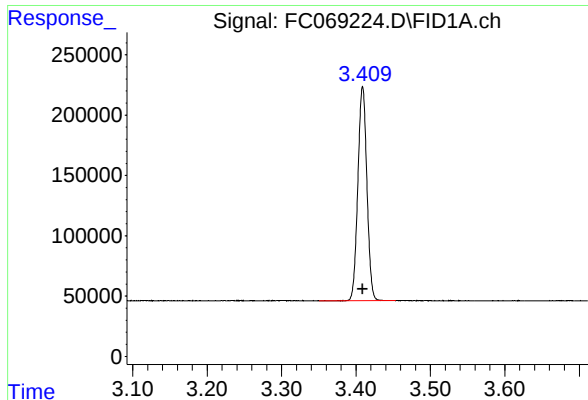
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
Data File : FC069224.D
Signal(s) : FID1A.ch
Acq On : 18 Jun 2025 13:20
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jun 18 13:45:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 13:45:19 2025
Response via : Initial Calibration
Integrator: ChemStation

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

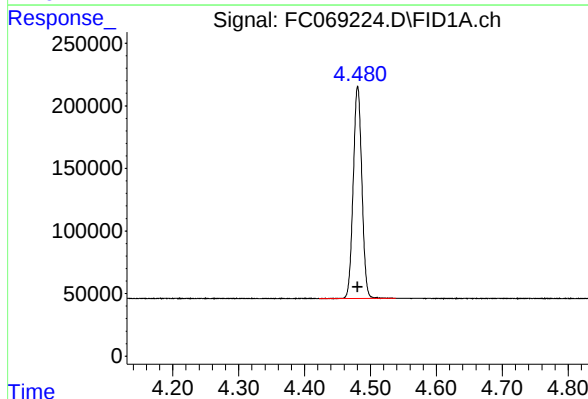




#1 n-Nonane (C9)

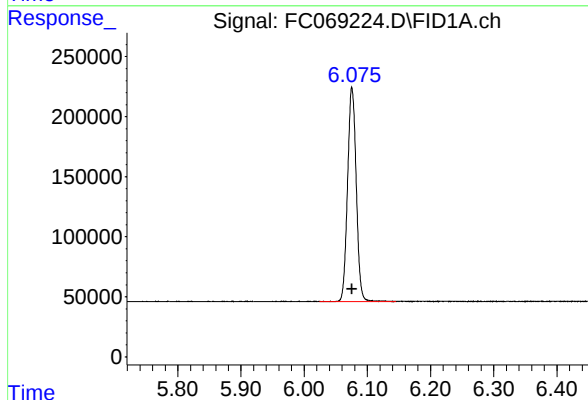
R.T.: 3.409 min
Delta R.T.: 0.000 min
Response: 1496071
Conc: 10.74 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



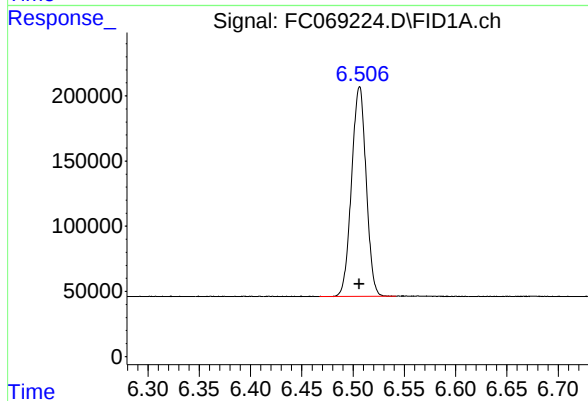
#2 n-Decane (C10)

R.T.: 4.481 min
Delta R.T.: 0.000 min
Response: 1544377
Conc: 10.75 ug/ml



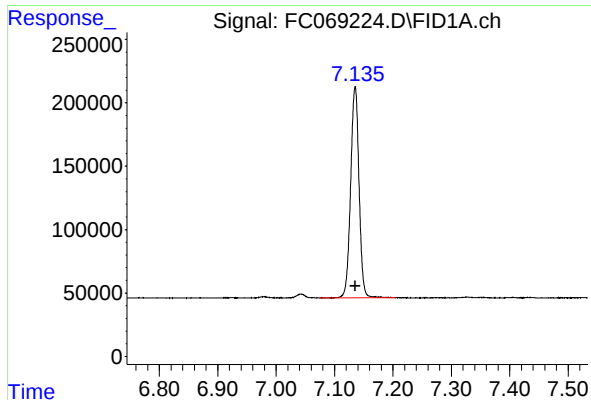
#3 A~Naphthalene (C11.7)

R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 1699596
Conc: 10.78 ug/ml



#4 n-Dodecane (C12)

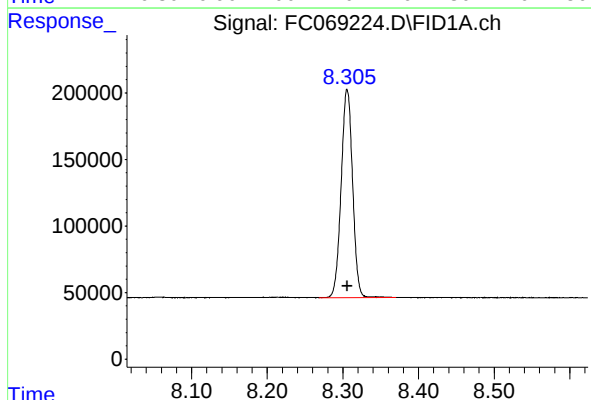
R.T.: 6.506 min
Delta R.T.: 0.000 min
Response: 1592006
Conc: 10.71 ug/ml



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

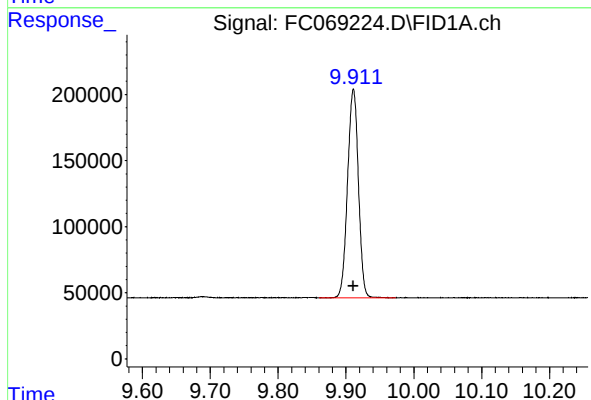
R.T.: 7.135 min
Delta R.T.: 0.000 min
Response: 1665892
Conc: 10.74 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



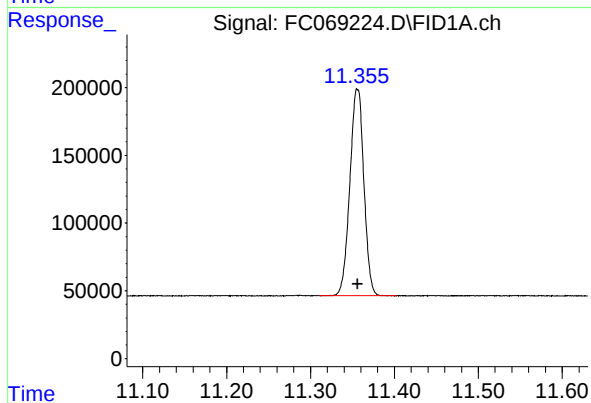
#6 n-Tetradecane (C14)

R.T.: 8.306 min
Delta R.T.: 0.000 min
Response: 1646260
Conc: 10.80 ug/ml



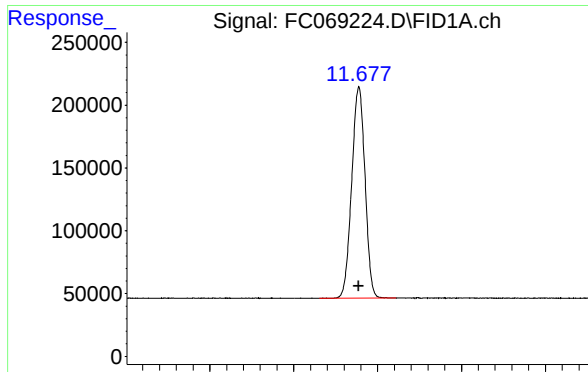
#7 n-Hexadecane (C16)

R.T.: 9.911 min
Delta R.T.: 0.000 min
Response: 1756433
Conc: 10.98 ug/ml



#8 n-Octadecane (C18)

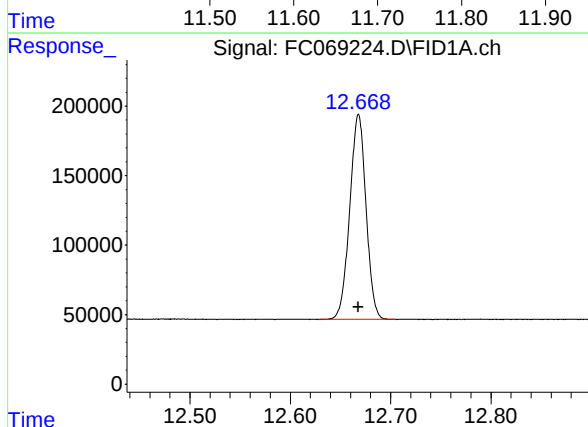
R.T.: 11.356 min
Delta R.T.: 0.000 min
Response: 1771170
Conc: 11.11 ug/ml



#9 ortho-Terphenyl (SURR)

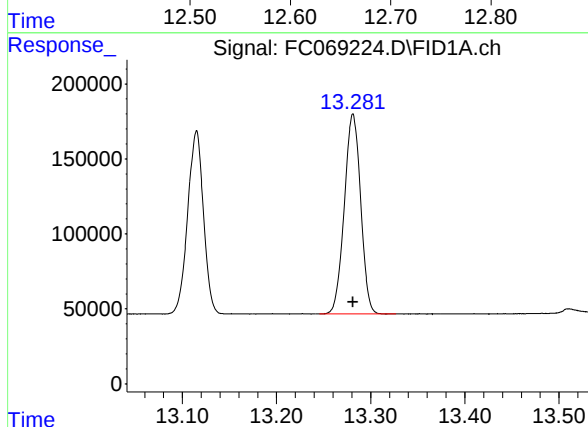
R.T.: 11.678 min
Delta R.T.: 0.000 min
Response: 1856143
Conc: 10.99 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



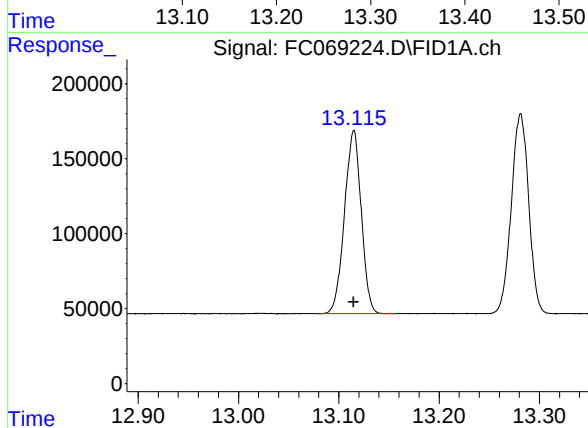
#10 n-Eicosane (C20)

R.T.: 12.668 min
Delta R.T.: 0.000 min
Response: 1665008
Conc: 11.20 ug/ml



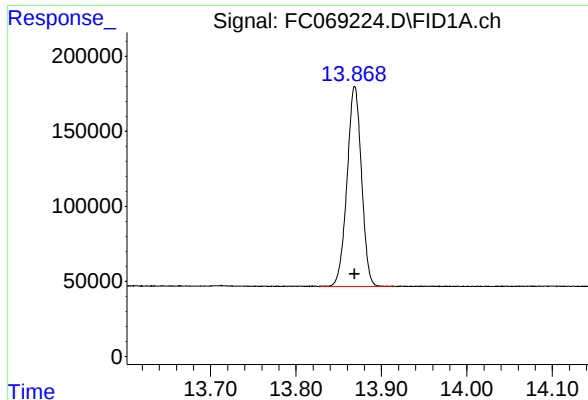
#11 n-Heneicosane (C21)

R.T.: 13.281 min
Delta R.T.: 0.000 min
Response: 1608585
Conc: 11.20 ug/ml



#12 1-chlorooctadecane (SURR)

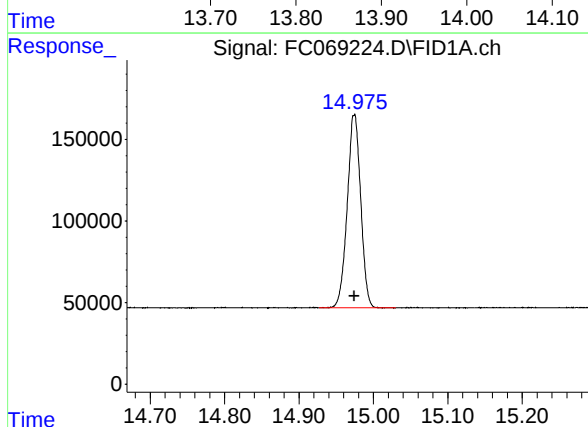
R.T.: 13.115 min
Delta R.T.: 0.000 min
Response: 1417487
Conc: 11.13 ug/ml



#13 n-Docosane (C22)

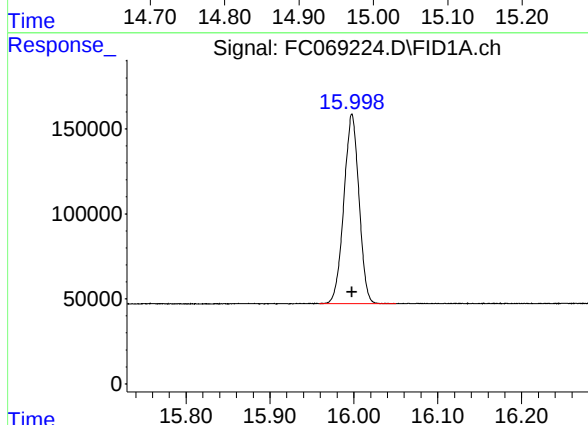
R.T.: 13.869 min
Delta R.T.: 0.000 min
Response: 1565876
Conc: 11.18 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



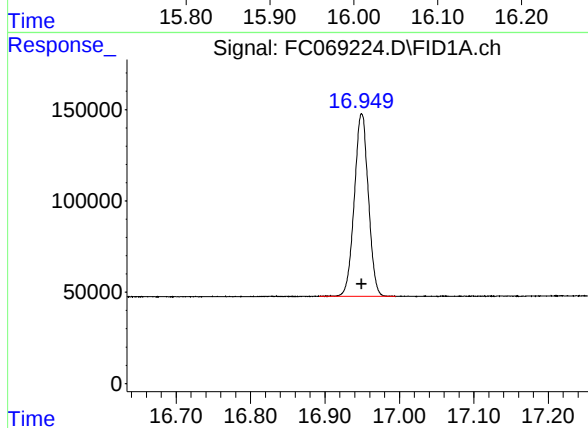
#14 n-Tetracosane (C24)

R.T.: 14.974 min
Delta R.T.: 0.000 min
Response: 1491873
Conc: 11.11 ug/ml



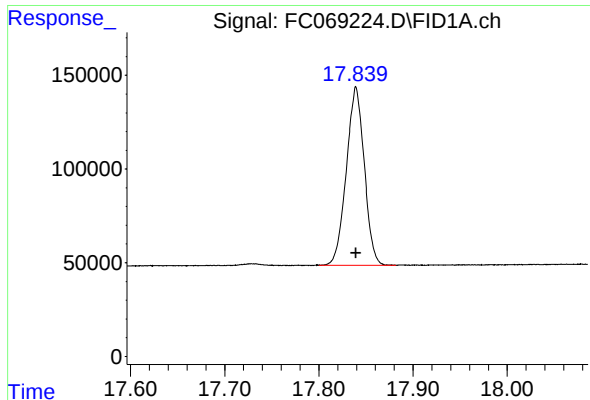
#15 n-Hexacosane (C26)

R.T.: 15.998 min
Delta R.T.: 0.000 min
Response: 1397927
Conc: 10.99 ug/ml



#16 n-Octacosane (C28)

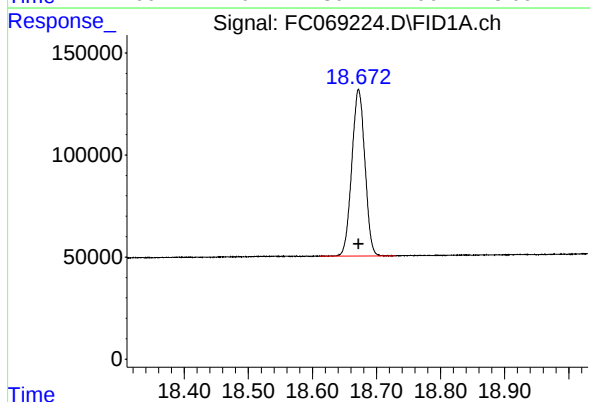
R.T.: 16.949 min
Delta R.T.: 0.000 min
Response: 1308541
Conc: 10.92 ug/ml



#17 n-Tricontane (C30)

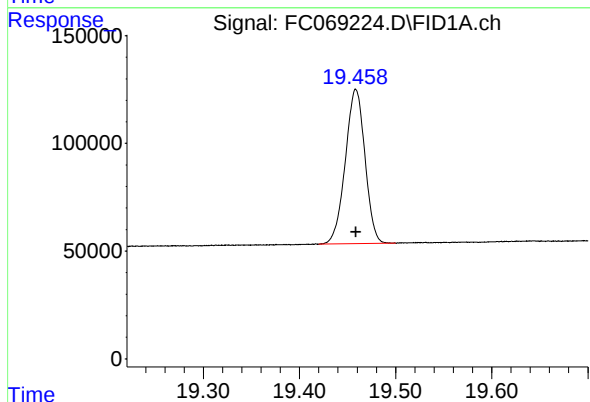
R.T.: 17.839 min
Delta R.T.: 0.000 min
Response: 1257631
Conc: 10.91 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



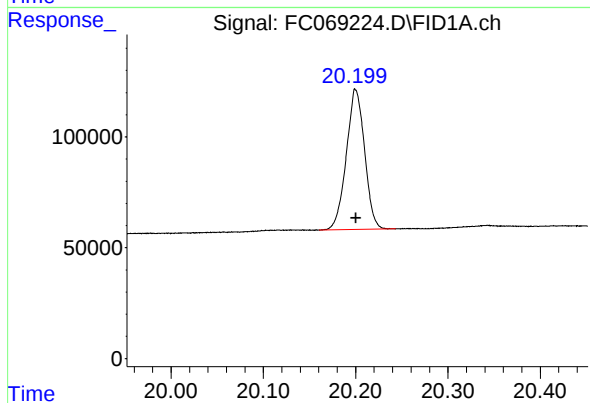
#18 n-Dotriacontane (C32)

R.T.: 18.672 min
Delta R.T.: 0.000 min
Response: 1158654
Conc: 10.94 ug/ml



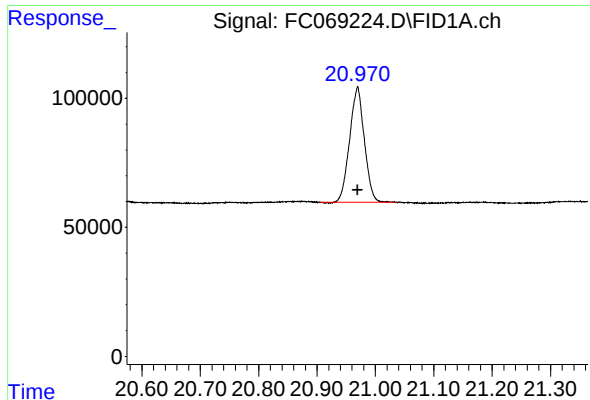
#19 n-Tetratriacontane (C34)

R.T.: 19.459 min
Delta R.T.: 0.000 min
Response: 1018840
Conc: 10.87 ug/ml



#20 n-Hexatriacontane (C36)

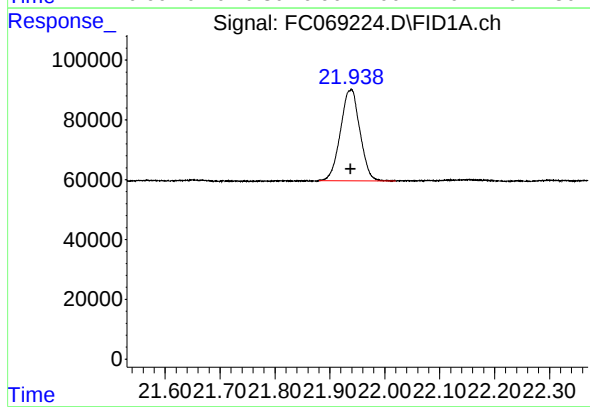
R.T.: 20.200 min
Delta R.T.: 0.000 min
Response: 869747
Conc: 10.87 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.969 min
Delta R.T.: 0.000 min
Response: 782717
Conc: 10.80 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.938 min
Delta R.T.: 0.000 min
Response: 746688
Conc: 10.85 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
Data File : FC069224.D
Signal(s) : FID1A.ch
Acq On : 18 Jun 2025 13:20
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 061825.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	3.409	3.350	3.454	BB	177619	1496071	80.60%	4.777%
2	4.481	4.422	4.539	BB	169567	1544377	83.20%	4.931%
3	6.076	6.024	6.145	BB	178321	1699596	91.57%	5.427%
4	6.506	6.467	6.542	BB	161845	1592006	85.77%	5.083%
5	7.135	7.074	7.205	BB	166692	1665892	89.75%	5.319%
6	8.306	8.269	8.370	BB	156558	1646260	88.69%	5.257%
7	9.911	9.860	9.974	BB	157792	1756433	94.63%	5.608%
8	11.356	11.310	11.402	BB	153146	1771170	95.42%	5.656%
9	11.678	11.630	11.722	BB	167827	1856143	100.00%	5.927%
10	12.668	12.629	12.705	BB	147990	1665008	89.70%	5.317%
11	13.115	13.080	13.157	BB	122636	1417487	76.37%	4.526%
12	13.281	13.245	13.327	BB	133774	1608585	86.66%	5.136%
13	13.869	13.827	13.917	BB	133414	1565876	84.36%	5.000%
14	14.974	14.927	15.030	BB	118969	1491873	80.37%	4.764%
15	15.998	15.959	16.050	BB	111607	1397927	75.31%	4.464%
16	16.949	16.892	16.995	BB	100098	1308541	70.50%	4.178%
17	17.839	17.800	17.882	BB	95148	1257631	67.76%	4.016%
18	18.672	18.610	18.730	BB	81586	1158654	62.42%	3.700%
19	19.459	19.420	19.500	BB	71711	1018840	54.89%	3.253%
20	20.200	20.160	20.244	BB	62876	869747	46.86%	2.777%
21	20.969	20.904	21.035	BB	44513	782717	42.17%	2.499%
22	21.938	21.880	22.020	BB	30555	746688	40.23%	2.384%
Sum of corrected areas:							31317521	

Aliphatic EPH 061825.M Wed Jun 18 14:37:36 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069225.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 14:03
 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: Jun 18 14:23:55 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 14:23:47 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)	11.678	942393	5.455 ug/ml
Spiked Amount 50.000		Recovery =	10.91%
12) S 1-chlorooctadecane (S...	13.114	718614	5.501 ug/ml
Spiked Amount 50.000		Recovery =	11.00%
Target Compounds			
1) T n-Nonane (C9)	3.410	768967	5.407 ug/ml
2) T n-Decane (C10)	4.481	785603	5.366 ug/ml
3) T A~Naphthalene (C11.7)	6.076	869708	5.405 ug/ml
4) T n-Dodecane (C12)	6.506	811783	5.361 ug/ml
5) T A~2-methylnaphthalene...	7.135	852964	5.390 ug/ml
6) T n-Tetradecane (C14)	8.306	827220	5.337 ug/ml
7) T n-Hexadecane (C16)	9.911	887029	5.428 ug/ml
8) T n-Octadecane (C18)	11.356	894124	5.476 ug/ml
10) T n-Eicosane (C20)	12.668	842048	5.517 ug/ml
11) T n-Heneicosane (C21)	13.281	813023	5.516 ug/ml
13) T n-Docosane (C22)	13.868	796002	5.532 ug/ml
14) T n-Tetracosane (C24)	14.974	763797	5.538 ug/ml
15) T n-Hexacosane (C26)	15.997	724210	5.540 ug/ml
16) T n-Octacosane (C28)	16.948	686066	5.563 ug/ml
17) T n-Tricontane (C30)	17.838	666002	5.602 ug/ml
18) T n-Dotriacontane (C32)	18.673	614700	5.622 ug/ml
19) T n-Tetratriacontane (C34)	19.458	540381	5.596 ug/ml
20) T n-Hexatriacontane (C36)	20.200	459698	5.578 ug/ml
21) T n-Octatriacontane (C38)	20.969	419007	5.607 ug/ml
22) T n-Tetracontane (C40)	21.937	393940	5.563 ug/ml

(f)=RT Delta > 1/2 Window

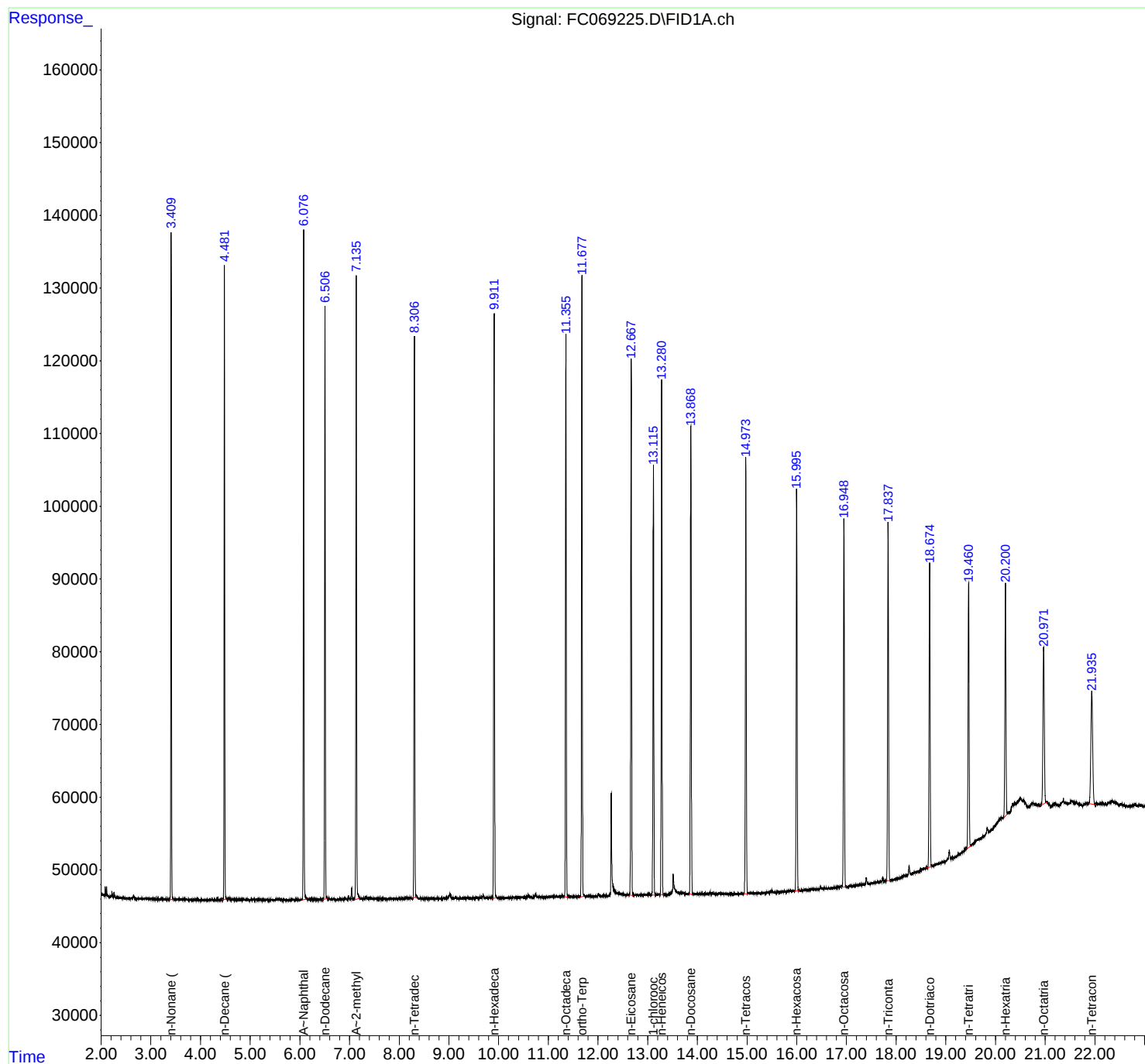
(m)=manual int.

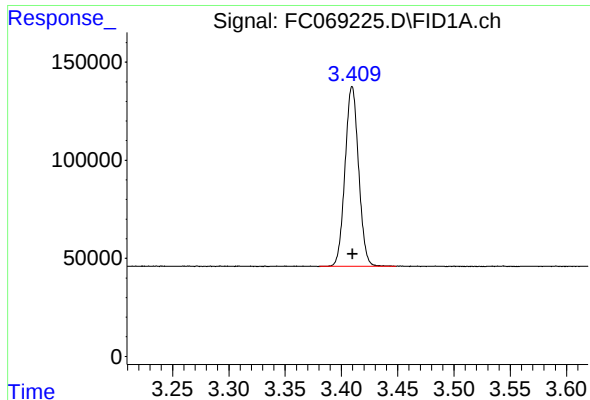
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
Data File : FC069225.D
Signal(s) : FID1A.ch
Acq On : 18 Jun 2025 14:03
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jun 18 14:23:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:23:47 2025
Response via : Initial Calibration
Integrator: ChemStation

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

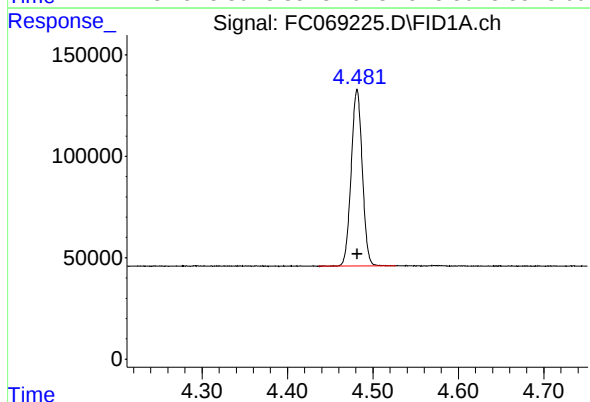




#1 n-Nonane (C9)

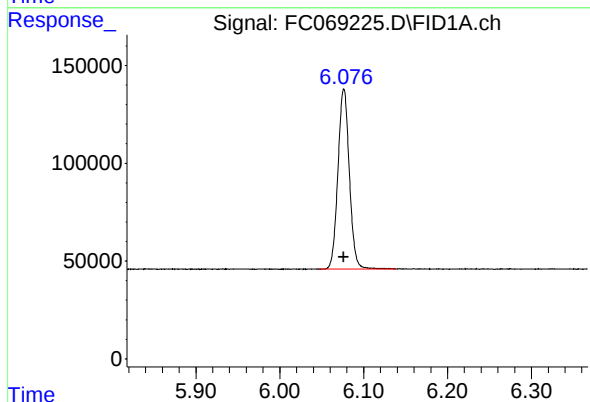
R.T.: 3.410 min
Delta R.T.: 0.000 min
Response: 768967
Conc: 5.41 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



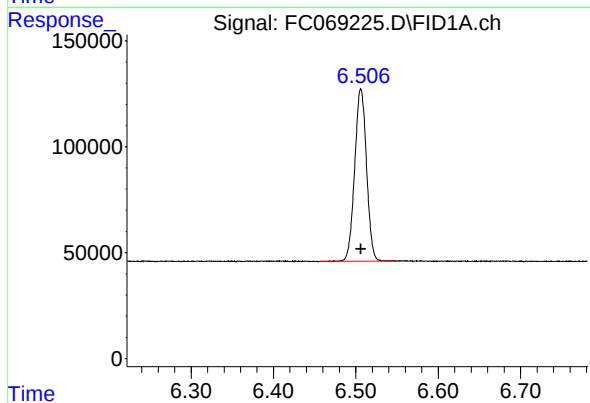
#2 n-Decane (C10)

R.T.: 4.481 min
Delta R.T.: 0.000 min
Response: 785603
Conc: 5.37 ug/ml



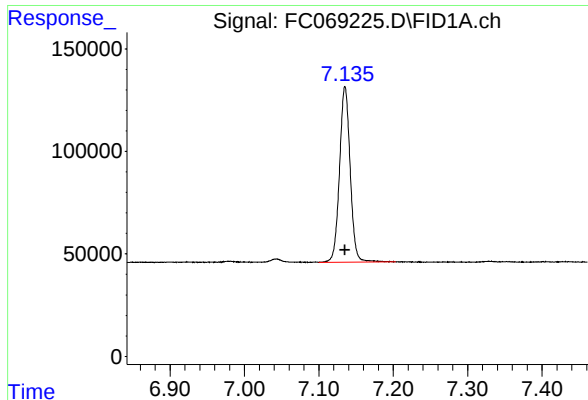
#3 A~Naphthalene (C11.7)

R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 869708
Conc: 5.41 ug/ml



#4 n-Dodecane (C12)

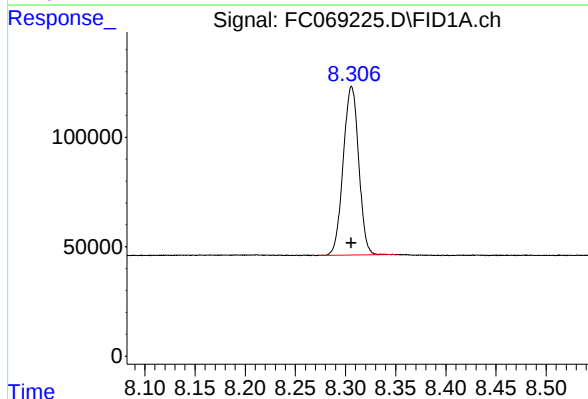
R.T.: 6.506 min
Delta R.T.: 0.000 min
Response: 811783
Conc: 5.36 ug/ml



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

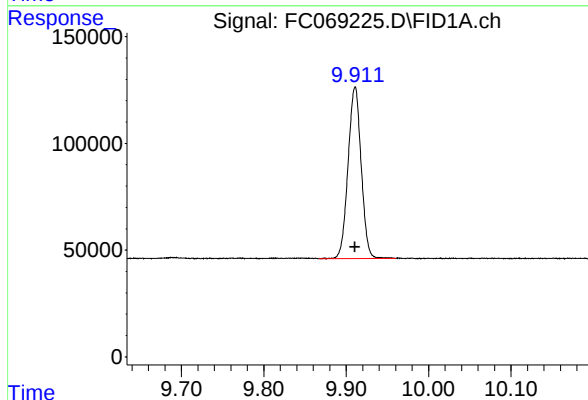
R.T.: 7.135 min
Delta R.T.: 0.000 min
Response: 852964
Conc: 5.39 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



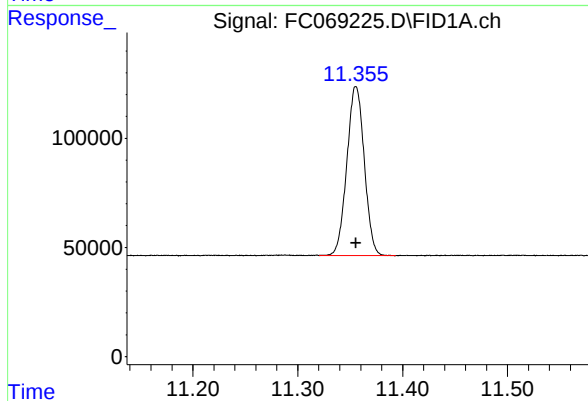
#6 n-Tetradecane (C14)

R.T.: 8.306 min
Delta R.T.: 0.000 min
Response: 827220
Conc: 5.34 ug/ml



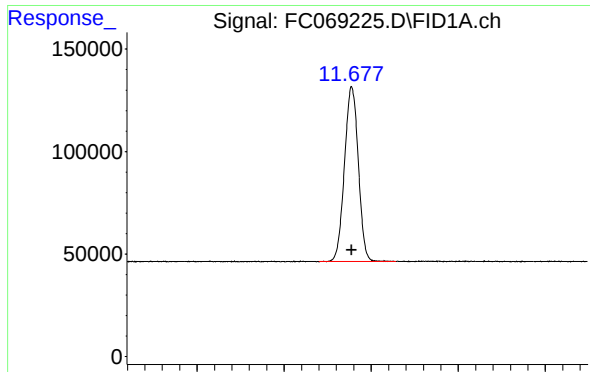
#7 n-Hexadecane (C16)

R.T.: 9.911 min
Delta R.T.: 0.000 min
Response: 887029
Conc: 5.43 ug/ml



#8 n-Octadecane (C18)

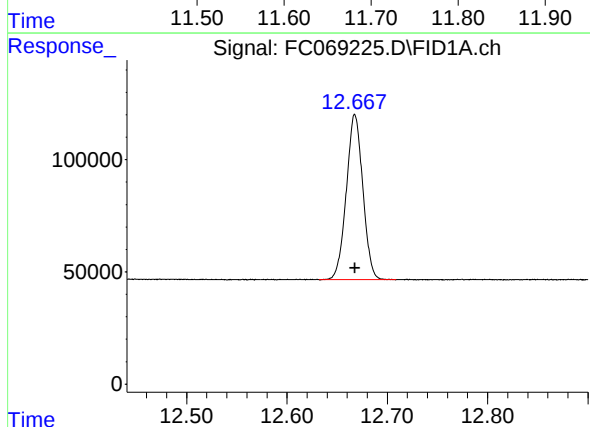
R.T.: 11.356 min
Delta R.T.: 0.000 min
Response: 894124
Conc: 5.48 ug/ml



#9 ortho-Terphenyl (SURR)

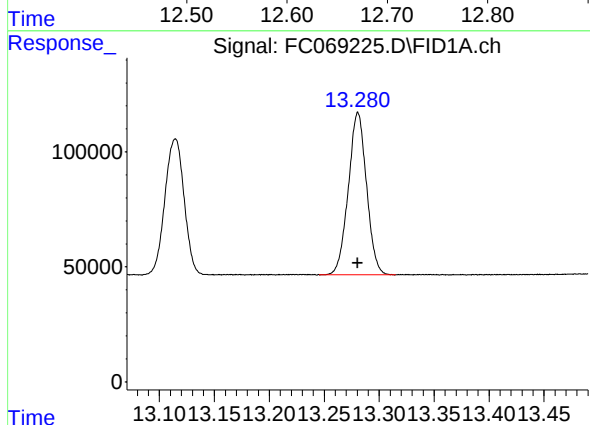
R.T.: 11.678 min
Delta R.T.: 0.000 min
Response: 942393
Conc: 5.45 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



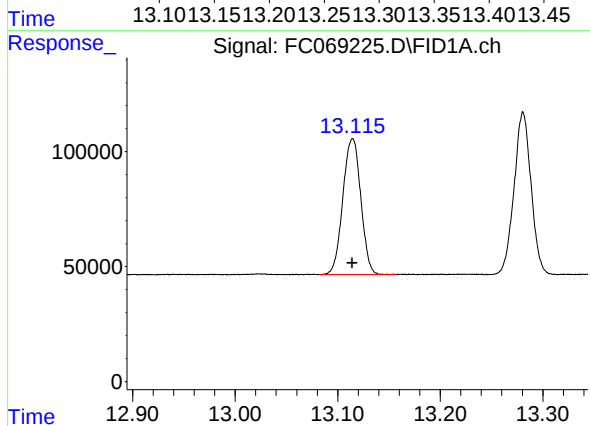
#10 n-Eicosane (C20)

R.T.: 12.668 min
Delta R.T.: 0.000 min
Response: 842048
Conc: 5.52 ug/ml



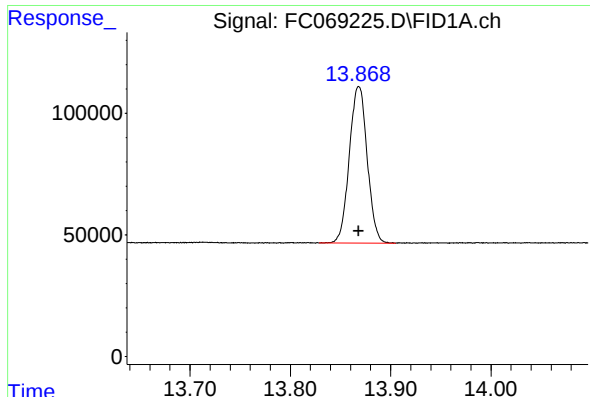
#11 n-Heneicosane (C21)

R.T.: 13.281 min
Delta R.T.: 0.000 min
Response: 813023
Conc: 5.52 ug/ml



#12 1-chlorooctadecane (SURR)

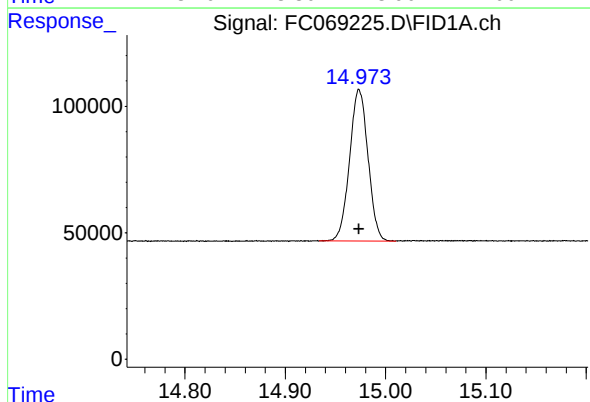
R.T.: 13.114 min
Delta R.T.: 0.000 min
Response: 718614
Conc: 5.50 ug/ml



#13 n-Docosane (C22)

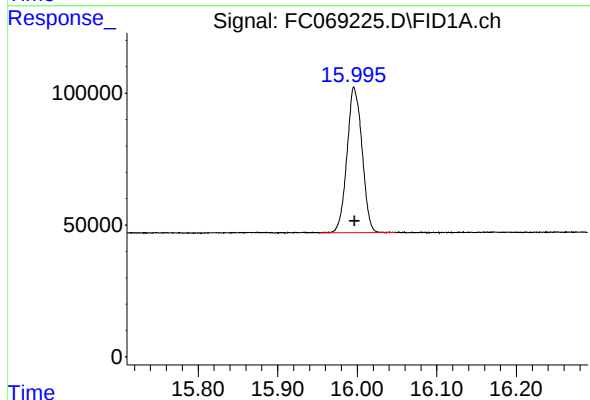
R.T.: 13.868 min
Delta R.T.: 0.000 min
Response: 796002
Conc: 5.53 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



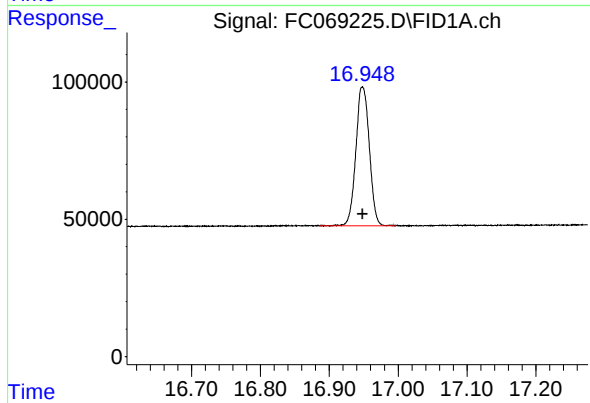
#14 n-Tetracosane (C24)

R.T.: 14.974 min
Delta R.T.: 0.000 min
Response: 763797
Conc: 5.54 ug/ml



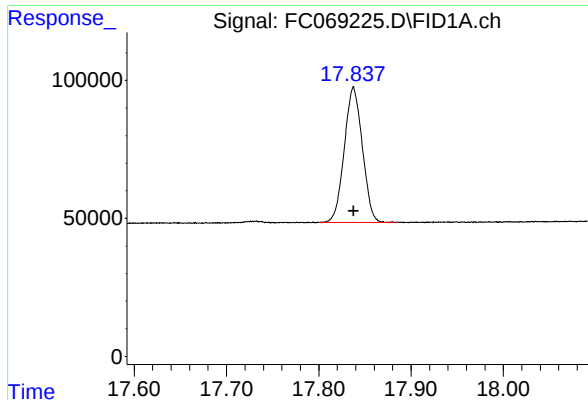
#15 n-Hexacosane (C26)

R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 724210
Conc: 5.54 ug/ml



#16 n-Octacosane (C28)

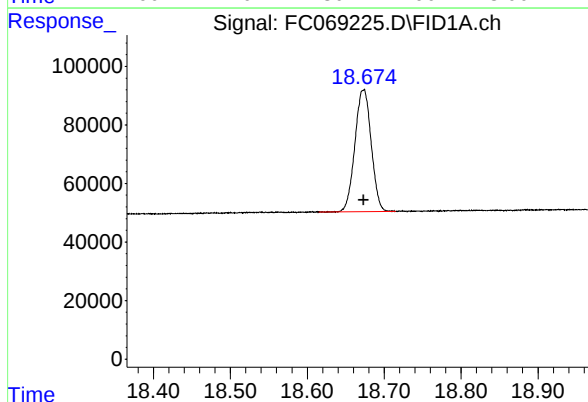
R.T.: 16.948 min
Delta R.T.: 0.000 min
Response: 686066
Conc: 5.56 ug/ml



#17 n-Tricontane (C30)

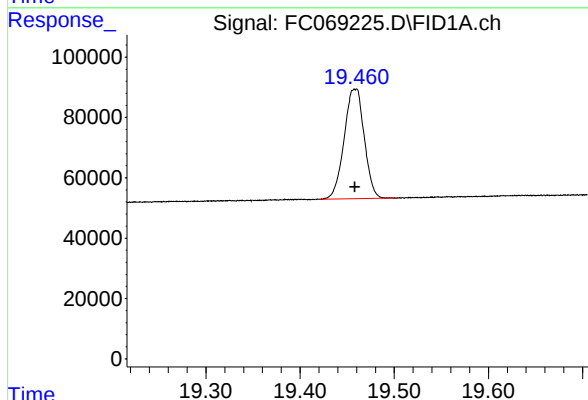
R.T.: 17.838 min
Delta R.T.: 0.000 min
Response: 666002
Conc: 5.60 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



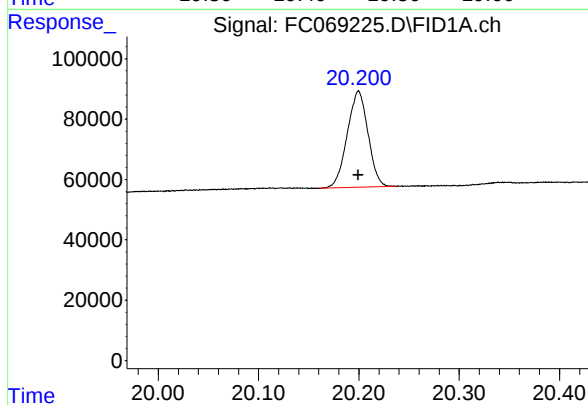
#18 n-Dotriacontane (C32)

R.T.: 18.673 min
Delta R.T.: 0.000 min
Response: 614700
Conc: 5.62 ug/ml



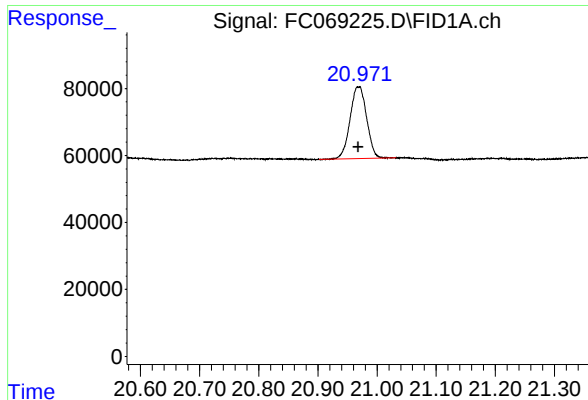
#19 n-Tetratriacontane (C34)

R.T.: 19.458 min
Delta R.T.: 0.000 min
Response: 540381
Conc: 5.60 ug/ml



#20 n-Hexatriacontane (C36)

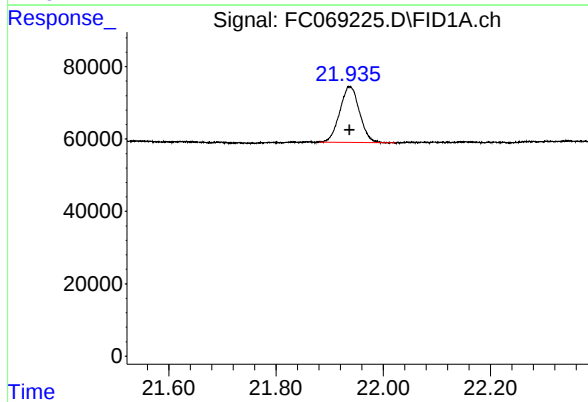
R.T.: 20.200 min
Delta R.T.: 0.000 min
Response: 459698
Conc: 5.58 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.969 min
Delta R.T.: 0.000 min
Response: 419007
Conc: 5.61 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.937 min
Delta R.T.: 0.000 min
Response: 393940
Conc: 5.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069225.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 14:03
 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 061825.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	3.410	3.380	3.449	BB	91878	768967	81.60%	4.783%
2	4.481	4.437	4.527	BB	87247	785603	83.36%	4.886%
3	6.076	6.047	6.139	BB	92272	869708	92.29%	5.410%
4	6.506	6.455	6.549	BB	81230	811783	86.14%	5.049%
5	7.135	7.100	7.204	BB	85753	852964	90.51%	5.305%
6	8.306	8.274	8.350	BB	77049	827220	87.78%	5.145%
7	9.911	9.867	9.960	BB	80293	887029	94.13%	5.517%
8	11.356	11.320	11.394	BB	77410	894124	94.88%	5.561%
9	11.678	11.640	11.729	BB	84784	942393	100.00%	5.862%
10	12.668	12.632	12.709	BB	73078	842048	89.35%	5.238%
11	13.114	13.082	13.157	BB	59088	718614	76.25%	4.470%
12	13.281	13.245	13.315	BB	70672	813023	86.27%	5.057%
13	13.868	13.829	13.905	BB	64412	796002	84.47%	4.951%
14	14.974	14.934	15.010	BB	59988	763797	81.05%	4.751%
15	15.997	15.952	16.049	BB	54380	724210	76.85%	4.505%
16	16.948	16.885	16.997	BB	50496	686066	72.80%	4.267%
17	17.838	17.800	17.884	BB	48943	666002	70.67%	4.143%
18	18.673	18.615	18.715	BB	41575	614700	65.23%	3.823%
19	19.458	19.420	19.502	BB	36225	540381	57.34%	3.361%
20	20.200	20.160	20.237	BB	32066	459698	48.78%	2.859%
21	20.969	20.902	21.032	BB	21311	419007	44.46%	2.606%
22	21.937	21.880	22.024	BB	15337	393940	41.80%	2.450%
Sum of corrected areas:							16077276	

Aliphatic EPH 061825.M Wed Jun 18 14:37:19 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069226.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 14:45
 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: Jun 18 15:23:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 14:24:27 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)	11.680	3253610	18.833 ug/ml
Spiked Amount 50.000		Recovery =	37.67%
12) S 1-chlorooctadecane (S...	13.116	2474788	18.943 ug/ml
Spiked Amount 50.000		Recovery =	37.89%
Target Compounds			
1) T n-Nonane (C9)	3.410	2571511	18.081 ug/ml
2) T n-Decane (C10)	4.482	2650200	18.103 ug/ml
3) T A~Naphthalene (C11.7)	6.077	2926181	18.187 ug/ml
4) T n-Dodecane (C12)	6.507	2762531	18.244 ug/ml
5) T A~2-methylnaphthalene...	7.136	2898798	18.318 ug/ml
6) T n-Tetradecane (C14)	8.307	2886495	18.622 ug/ml
7) T n-Hexadecane (C16)	9.912	3074968	18.817 ug/ml
8) T n-Octadecane (C18)	11.357	3098893	18.980 ug/ml
10) T n-Eicosane (C20)	12.670	2897467	18.982 ug/ml
11) T n-Heneicosane (C21)	13.283	2797161	18.978 ug/ml
13) T n-Docosane (C22)	13.871	2718940	18.897 ug/ml
14) T n-Tetracosane (C24)	14.975	2594124	18.807 ug/ml
15) T n-Hexacosane (C26)	15.998	2449139	18.735 ug/ml
16) T n-Octacosane (C28)	16.949	2300993	18.657 ug/ml
17) T n-Tricontane (C30)	17.839	2215902	18.639 ug/ml
18) T n-Dotriacontane (C32)	18.675	2037377	18.634 ug/ml
19) T n-Tetratriacontane (C34)	19.460	1803580	18.677 ug/ml
20) T n-Hexatriacontane (C36)	20.201	1557268	18.896 ug/ml
21) T n-Octatriacontane (C38)	20.971	1411730	18.891 ug/ml
22) T n-Tetracontane (C40)	21.939	1331528	18.803 ug/ml

(f)=RT Delta > 1/2 Window

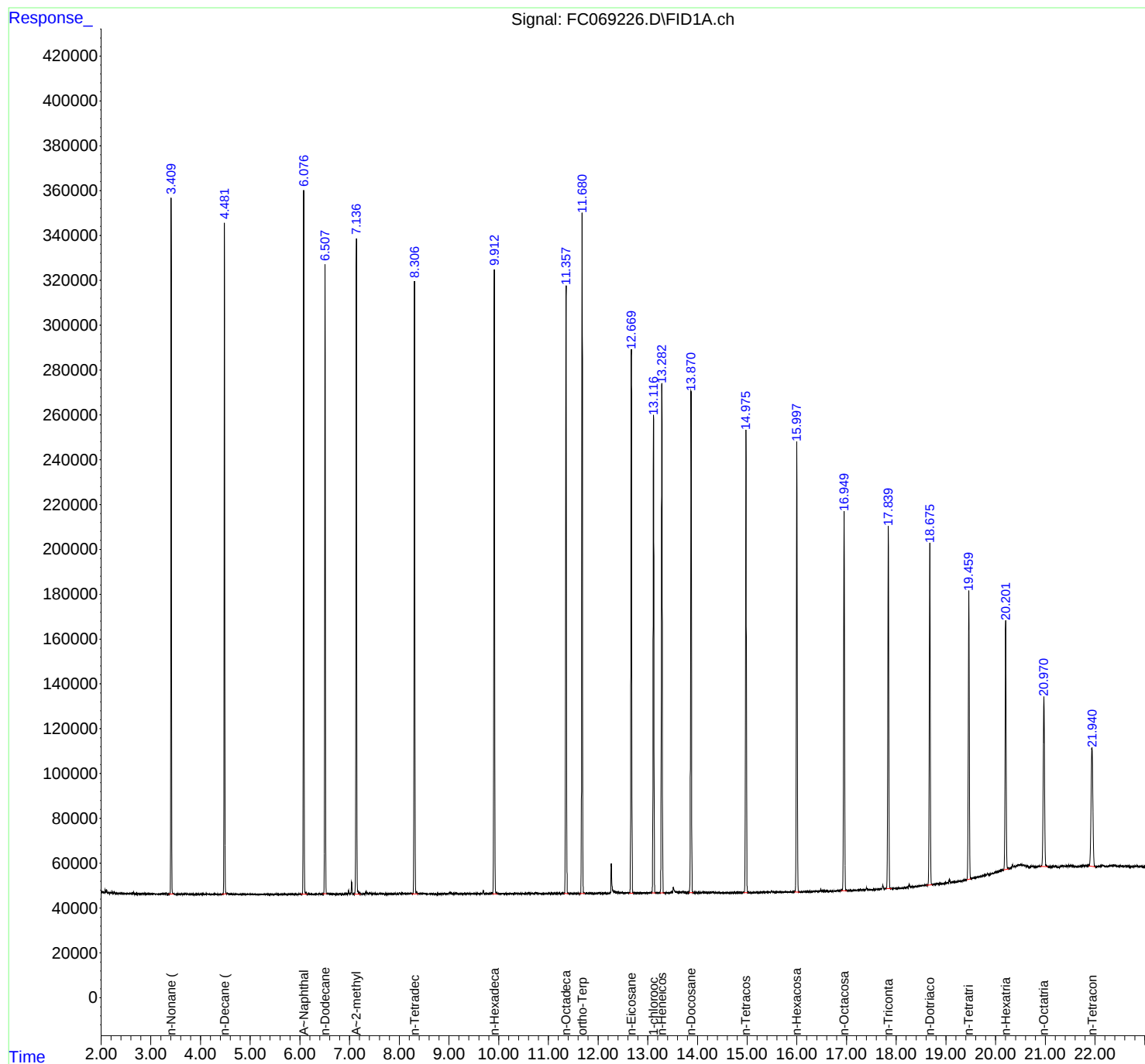
(m)=manual int.

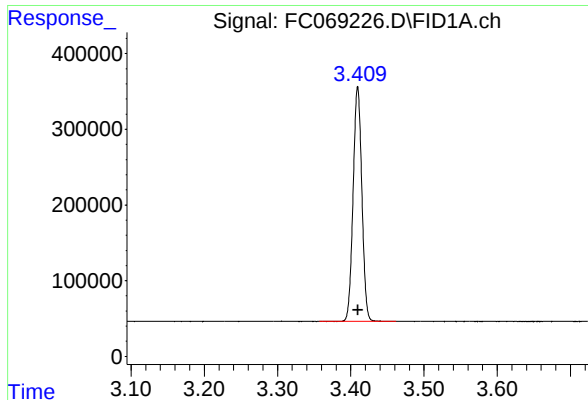
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
Data File : FC069226.D
Signal(s) : FID1A.ch
Acq On : 18 Jun 2025 14:45
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jun 18 15:23:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

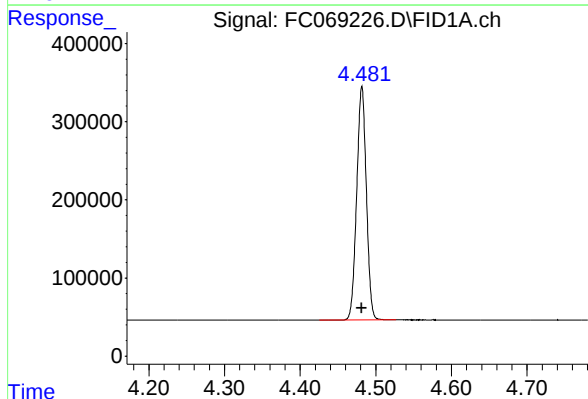




#1 n-Nonane (C9)

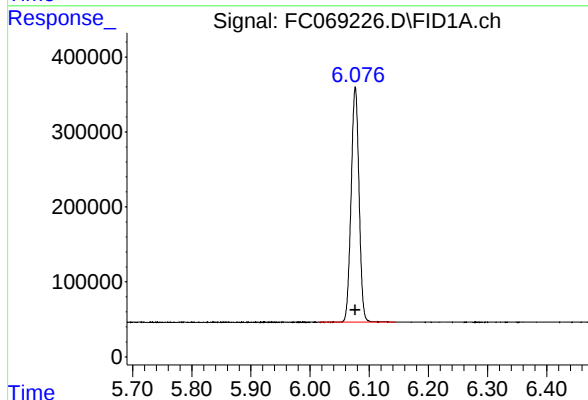
R.T.: 3.410 min
Delta R.T.: 0.000 min
Response: 2571511
Conc: 18.08 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



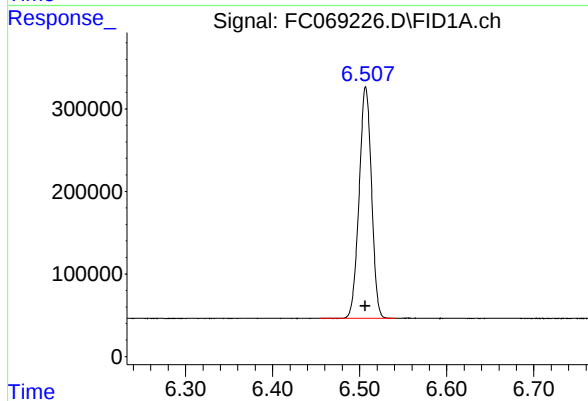
#2 n-Decane (C10)

R.T.: 4.482 min
Delta R.T.: 0.000 min
Response: 2650200
Conc: 18.10 ug/ml



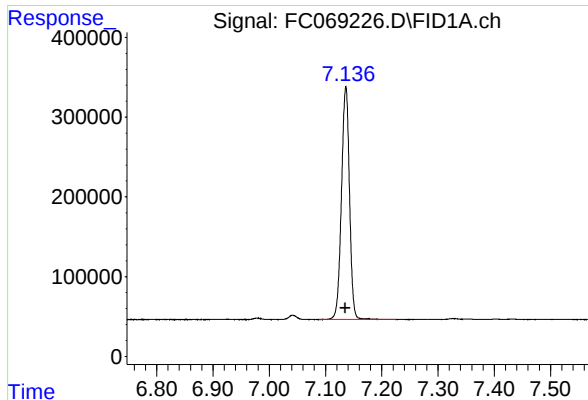
#3 A~Naphthalene (C11.7)

R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 2926181
Conc: 18.19 ug/ml



#4 n-Dodecane (C12)

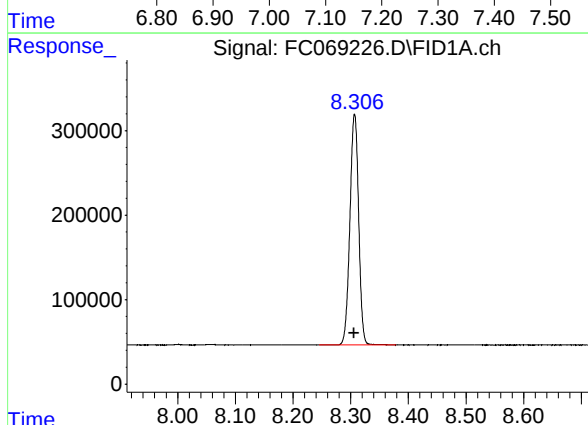
R.T.: 6.507 min
Delta R.T.: 0.000 min
Response: 2762531
Conc: 18.24 ug/ml



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

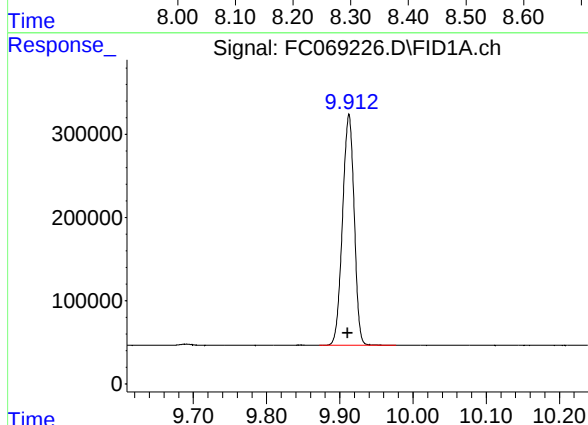
R.T.: 7.136 min
Delta R.T.: 0.000 min
Response: 2898798
Conc: 18.32 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



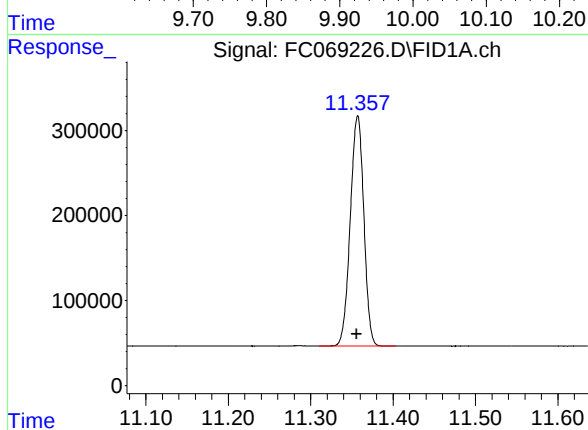
#6 n-Tetradecane (C14)

R.T.: 8.307 min
Delta R.T.: 0.000 min
Response: 2886495
Conc: 18.62 ug/ml



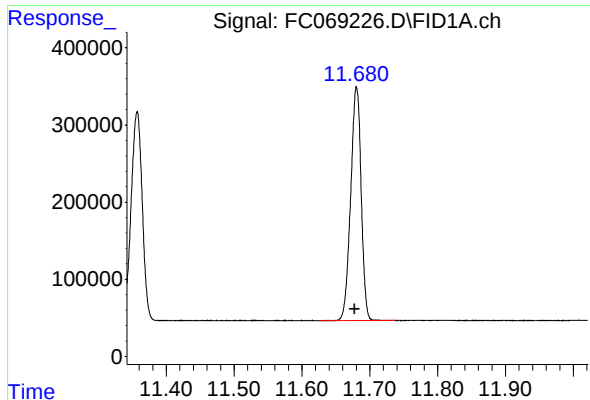
#7 n-Hexadecane (C16)

R.T.: 9.912 min
Delta R.T.: 0.002 min
Response: 3074968
Conc: 18.82 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.357 min
Delta R.T.: 0.001 min
Response: 3098893
Conc: 18.98 ug/ml



#9 ortho-Terphenyl (SURR)

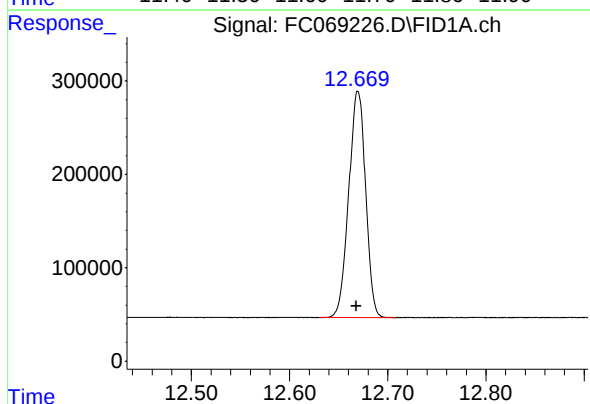
R.T.: 11.680 min
Delta R.T.: 0.003 min
Response: 3253610
Conc: 18.83 ug/ml

Instrument :

FID_C

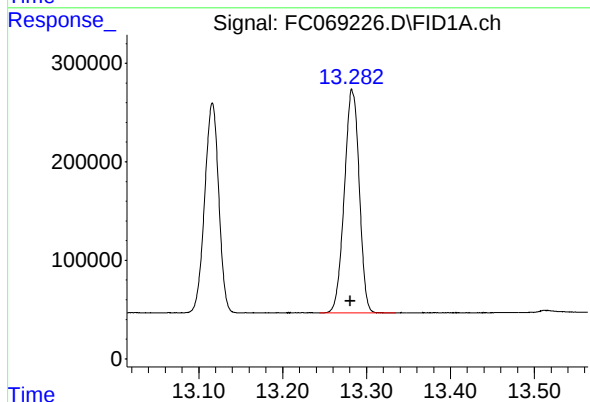
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



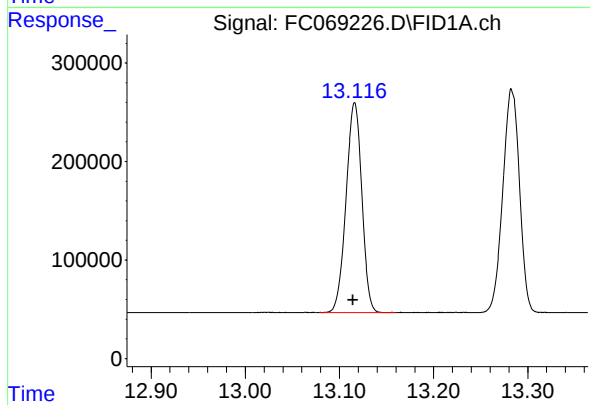
#10 n-Eicosane (C20)

R.T.: 12.670 min
Delta R.T.: 0.002 min
Response: 2897467
Conc: 18.98 ug/ml



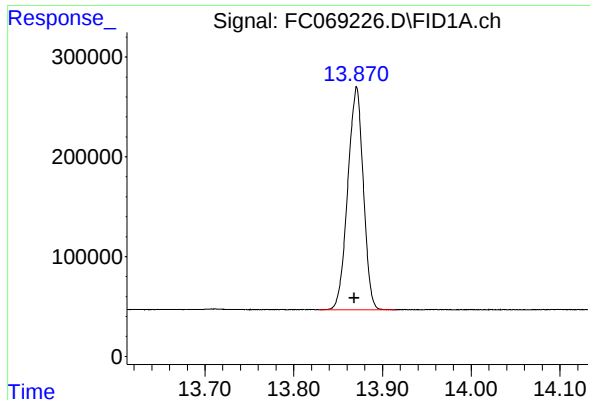
#11 n-Heneicosane (C21)

R.T.: 13.283 min
Delta R.T.: 0.002 min
Response: 2797161
Conc: 18.98 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.116 min
Delta R.T.: 0.002 min
Response: 2474788
Conc: 18.94 ug/ml



#13 n-Docosane (C22)

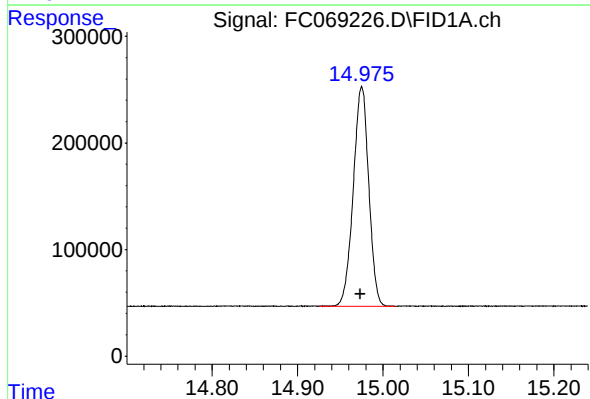
R.T.: 13.871 min
Delta R.T.: 0.002 min
Response: 2718940
Conc: 18.90 ug/ml

Instrument :

FID_C

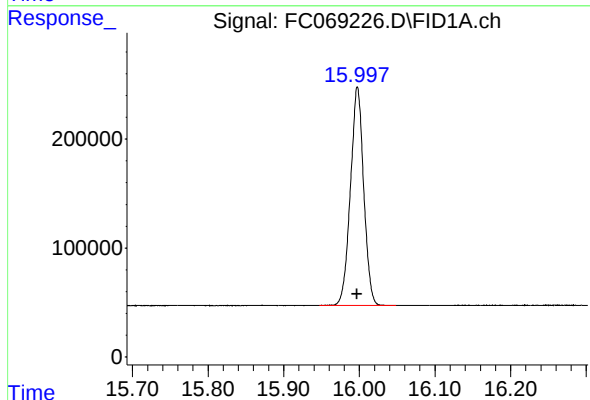
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



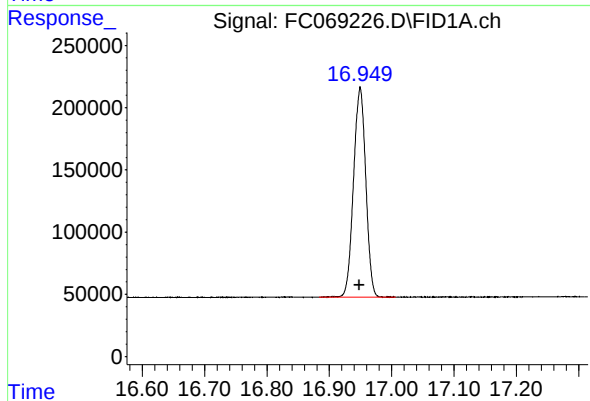
#14 n-Tetracosane (C24)

R.T.: 14.975 min
Delta R.T.: 0.001 min
Response: 2594124
Conc: 18.81 ug/ml



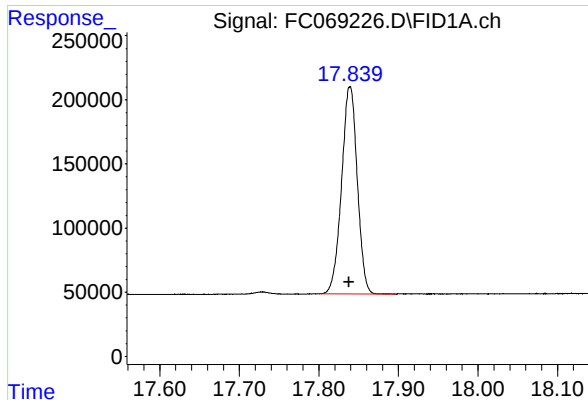
#15 n-Hexacosane (C26)

R.T.: 15.998 min
Delta R.T.: 0.001 min
Response: 2449139
Conc: 18.74 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.949 min
Delta R.T.: 0.000 min
Response: 2300993
Conc: 18.66 ug/ml



#17 n-Tricontane (C30)

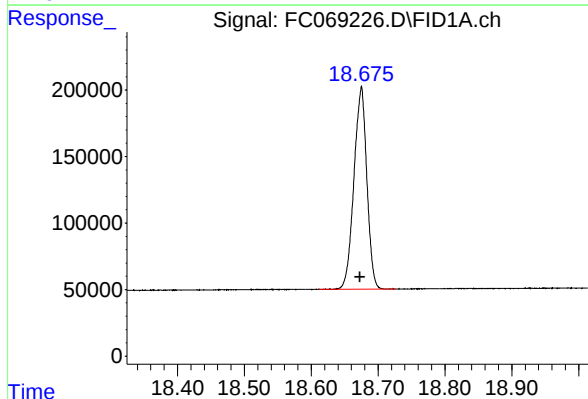
R.T.: 17.839 min
Delta R.T.: 0.001 min
Response: 2215902
Conc: 18.64 ug/ml

Instrument :

FID_C

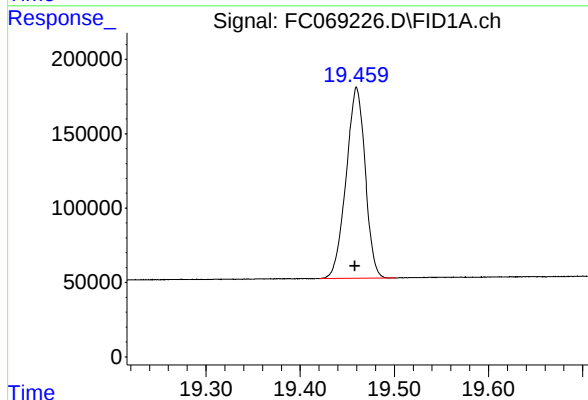
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



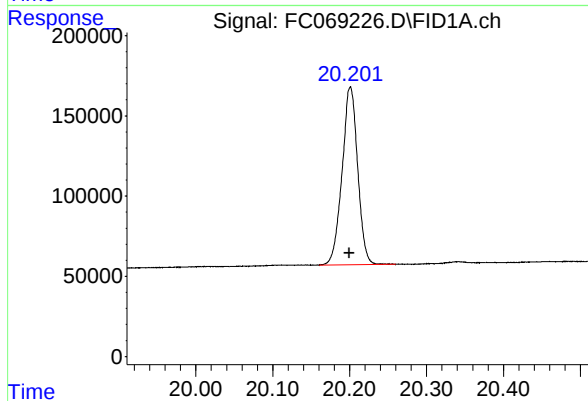
#18 n-Dotriacontane (C32)

R.T.: 18.675 min
Delta R.T.: 0.002 min
Response: 2037377
Conc: 18.63 ug/ml



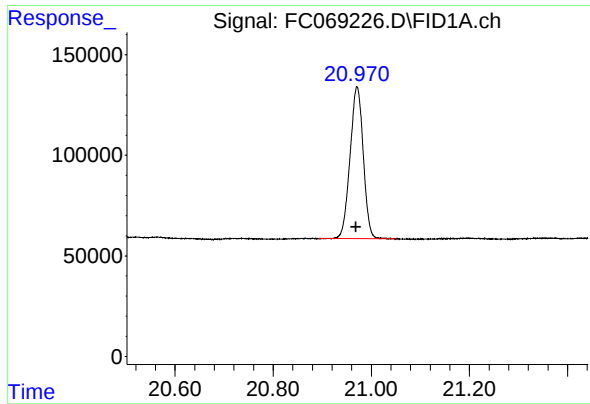
#19 n-Tetatriacontane (C34)

R.T.: 19.460 min
Delta R.T.: 0.002 min
Response: 1803580
Conc: 18.68 ug/ml



#20 n-Hexatriacontane (C36)

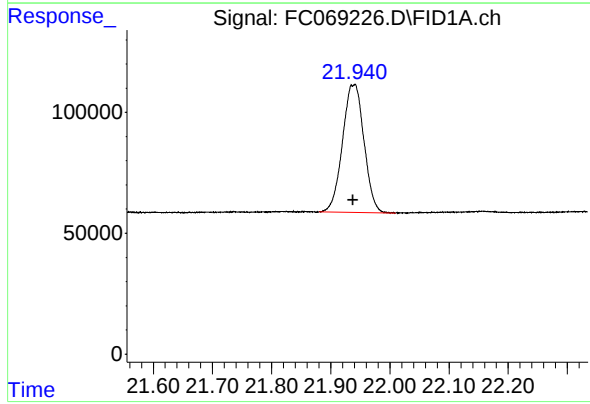
R.T.: 20.201 min
Delta R.T.: 0.001 min
Response: 1557268
Conc: 18.90 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.971 min
Delta R.T.: 0.002 min
Response: 1411730
Conc: 18.89 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.939 min
Delta R.T.: 0.001 min
Response: 1331528
Conc: 18.80 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC061825AL\
 Data File : FC069226.D
 Signal(s) : FID1A.ch
 Acq On : 18 Jun 2025 14:45
 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 061825.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	3.410	3.357	3.462	BB	310610	2571511	79.04%	4.700%
2	4.482	4.425	4.527	BB	299540	2650200	81.45%	4.844%
3	6.077	6.015	6.145	BB	314091	2926181	89.94%	5.348%
4	6.507	6.453	6.542	BB	280576	2762531	84.91%	5.049%
5	7.136	7.088	7.225	BB	293786	2898798	89.09%	5.298%
6	8.307	8.245	8.378	BB	273480	2886495	88.72%	5.276%
7	9.912	9.872	9.977	BB	276956	3074968	94.51%	5.620%
8	11.357	11.310	11.403	BB	270716	3098893	95.24%	5.664%
9	11.680	11.625	11.738	BB	303465	3253610	100.00%	5.947%
10	12.670	12.630	12.708	BB	242161	2897467	89.05%	5.296%
11	13.116	13.078	13.160	BB	213636	2474788	76.06%	4.523%
12	13.283	13.243	13.335	BB	224409	2797161	85.97%	5.112%
13	13.871	13.828	13.915	BB	223018	2718940	83.57%	4.969%
14	14.975	14.925	15.015	BB	206118	2594124	79.73%	4.741%
15	15.998	15.947	16.048	BB	201397	2449139	75.27%	4.476%
16	16.949	16.883	17.007	BB	168971	2300993	70.72%	4.206%
17	17.839	17.800	17.897	BB	161622	2215902	68.11%	4.050%
18	18.675	18.612	18.727	BB	152633	2037377	62.62%	3.724%
19	19.460	19.420	19.502	BB	128446	1803580	55.43%	3.296%
20	20.201	20.160	20.260	BB	111015	1557268	47.86%	2.846%
21	20.971	20.893	21.050	BB	75755	1411730	43.39%	2.580%
22	21.939	21.880	22.010	BB	52545	1331528	40.92%	2.434%
Sum of corrected areas:						54713182		

Aliphatic EPH 061825.M Wed Jun 18 15:24:52 2025

Initial Calibration Report for SequenceID : FD061825AR

AreaCount

Parameter Range	FD049492.D	FD049493.D	FD049494.D	FD049495.D	FD049496.D	
Aromatic C10-C12	25735560.000	12325859.000	4948171.000	2578508.000	1213542.000	
Aromatic C12-C16	45145019.000	21658777.000	8876063.000	4637539.000	2225304.000	
Aromatic C16-C21	61970813.000	30377796.000	12685019.000	6570843.000	3117343.000	
Aromatic C21-C36	119608283.000	60367448.000	25249953.000	13069434.000	6219357.000	
Aromatic EPH	252459675.000	124729880.000	51759206.000	26856324.000	12775546.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	125184.053	2.731				
Aromatic C12-C16	149149.5719996	2.51				
Aromatic C16-C21	157103.395	2.968				
Aromatic C21-C36	138149.8719996	3.584				
Aromatic EPH	142754.4027776	2.864				

Concentration

Parameter Range	FD049492.D	FD049493.D	FD049494.D	FD049495.D	FD049496.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	FD049492.D	FD049493.D	FD049494.D	FD049495.D	FD049496.D	
Aromatic C10-C12	128677.800000	123258.590000	123704.275000	128925.400000	121354.200000	
Aromatic C12-C16	150483.396666	144391.846666	147934.383333	154584.633333	148353.600000	
Aromatic C16-C21	154927.032500	151888.980000	158562.737500	164271.075000	155867.150000	
Aromatic C21-C36	132898.092222	134149.884444	140277.516666	145215.933333	138207.933333	
Aromatic EPH	140255.375000	138588.755555	143775.572222	149201.800000	141950.511111	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
 Data File : FD049492.D
 Signal(s) : FID2B.ch
 Acq On : 18 Jun 2025 11:17
 Operator : YP/AJ
 Sample : 100 PPM AROMATIC HC STD1
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 100 PPM AROMATIC HC STD1

Integration File: autoint1.e
 Quant Time: Jun 18 13:09:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 13:06:40 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...	7.741	12748587	100.742 ug/ml
Spiked Amount 50.000		Recovery =	201.48%
6) S 2-Fluorobiphenyl (SURR)	8.609	9070361	101.081 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	202.16%#
11) S ortho-Terphenyl (SURR)	11.655	15530269	98.639 ug/ml
Spiked Amount 50.000		Recovery =	197.28%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.532	11843975	101.648 ug/ml
2) T Naphthalene (C11.7)	6.078	13891585	102.248 ug/ml
3) T 2-Methylnaphthalene (...)	7.133	14608985	102.046 ug/ml
5) T Acenaphthylene (C15.06)	8.413	15315201	99.819 ug/ml
7) T Acenaphthene (C15.5)	8.711	15220833	100.776 ug/ml
8) T Fluorene (C16.55)	9.492	15383073	99.911 ug/ml
9) T Phenanthrene (C19.36)	10.892	15648623	98.619 ug/ml
10) T Anthracene (C19.43)	10.969	15593266	99.113 ug/ml
12) T Fluoranthene (C21.85)	12.708	15390927	97.849 ug/ml
13) T Pyrene (C20.8)	13.007	15345851	97.741 ug/ml
14) T Benzo[a]anthracene (C...	14.878	14256967	97.341 ug/ml
15) T Chrysene (C27.41)	14.926	14339025	97.211 ug/ml
16) T benzo[b]fluoranthene ...	16.431	13552247	97.393 ug/ml
17) T Bnezo[k]fluoranthene ...	16.470	12666658	97.178 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.815	13124309	97.115 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.179	12080043	99.000 ug/ml
20) T Dibenz[a,h]anthracene...	18.220	11842648	96.305 ug/ml
21) T Benzo[g,h,i]perylene ...	18.442	12355459	97.460 ug/ml

(f)=RT Delta > 1/2 Window

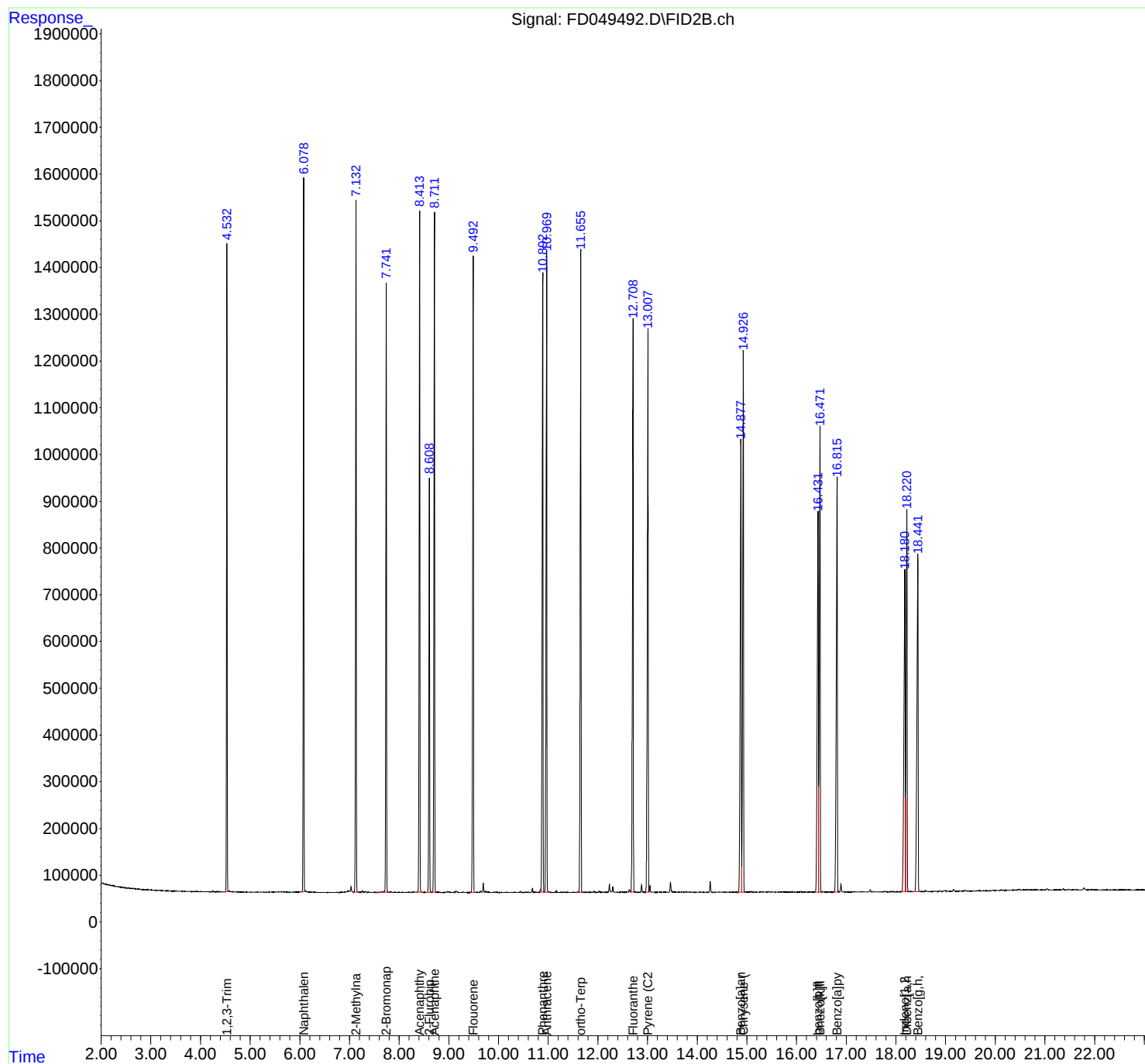
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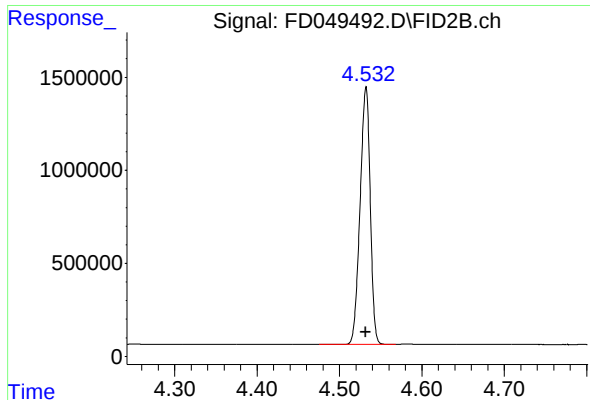
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Data File : FD049492.D
Signal(s) : FID2B.ch
Acq On : 18 Jun 2025 11:17
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Jun 18 13:09:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 13:06:40 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)

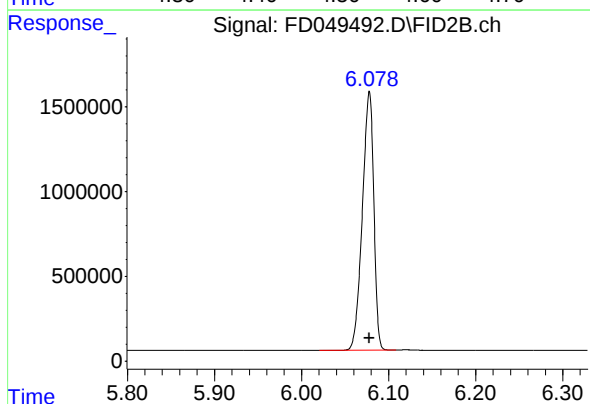
R.T.: 4.532 min
Delta R.T.: 0.000 min
Response: 11843975
Conc: 101.65 ug/ml

Instrument :

FID_D

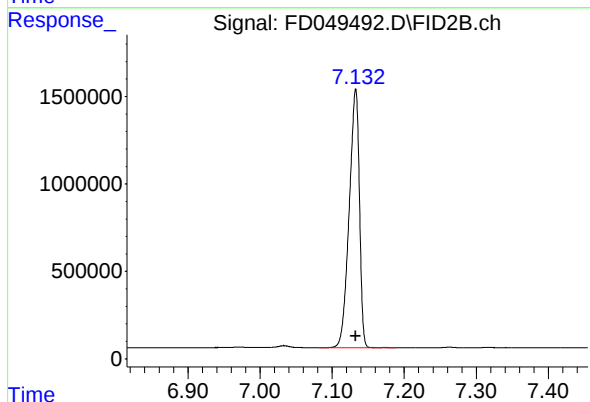
ClientSampleId :

100 PPM AROMATIC HC STD1



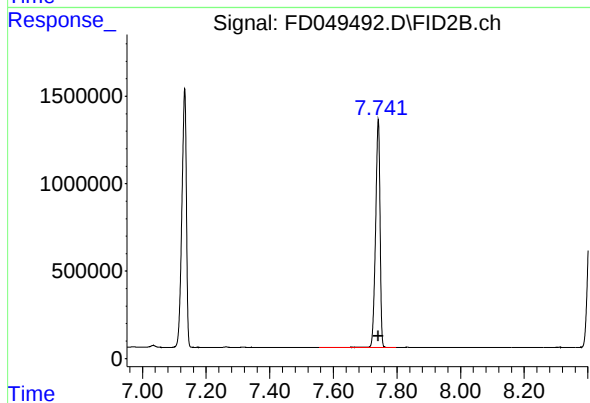
#2 Naphthalene (C11.7)

R.T.: 6.078 min
Delta R.T.: 0.000 min
Response: 13891585
Conc: 102.25 ug/ml



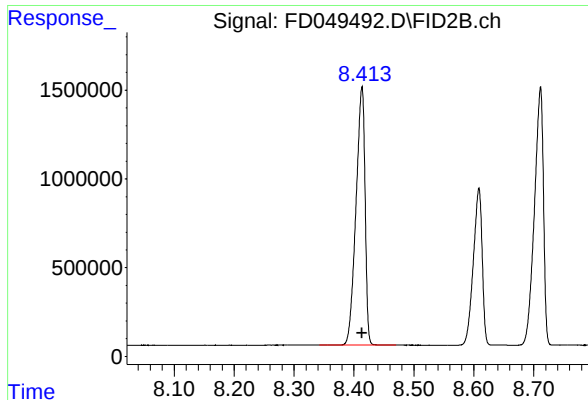
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.133 min
Delta R.T.: 0.000 min
Response: 14608985
Conc: 102.05 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.741 min
Delta R.T.: 0.000 min
Response: 12748587
Conc: 100.74 ug/ml



#5 Acenaphthylene (C15.06)

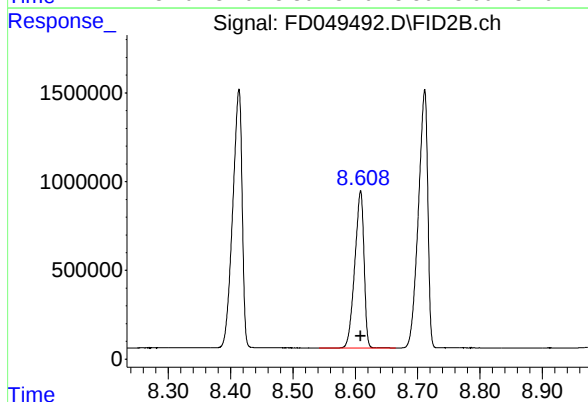
R.T.: 8.413 min
Delta R.T.: 0.000 min
Response: 15315201
Conc: 99.82 ug/ml

Instrument :

FID_D

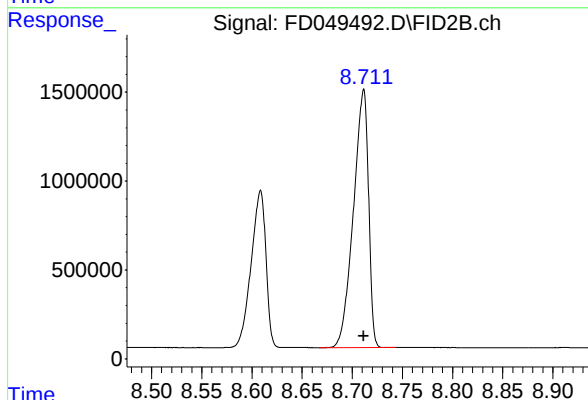
ClientSampleId :

100 PPM AROMATIC HC STD1



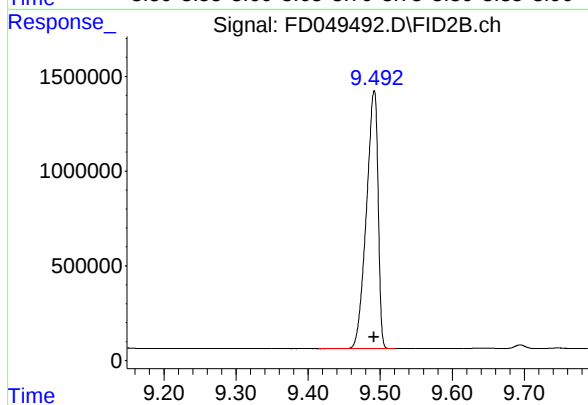
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.609 min
Delta R.T.: 0.000 min
Response: 9070361
Conc: 101.08 ug/ml



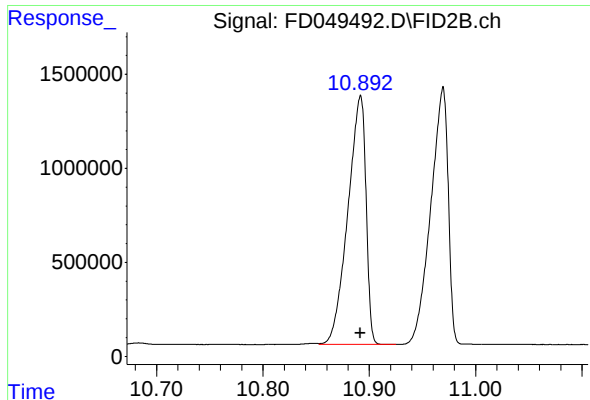
#7 Acenaphthene (C15.5)

R.T.: 8.711 min
Delta R.T.: 0.000 min
Response: 15220833
Conc: 100.78 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.492 min
Delta R.T.: 0.000 min
Response: 15383073
Conc: 99.91 ug/ml



#9 Phenanthrene (C19.36)

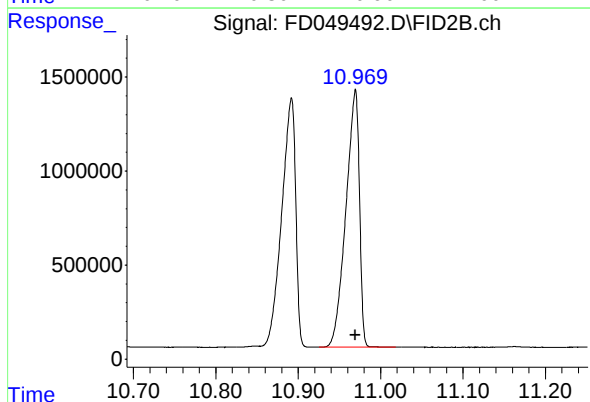
R.T.: 10.892 min
Delta R.T.: 0.000 min
Response: 15648623
Conc: 98.62 ug/ml

Instrument :

FID_D

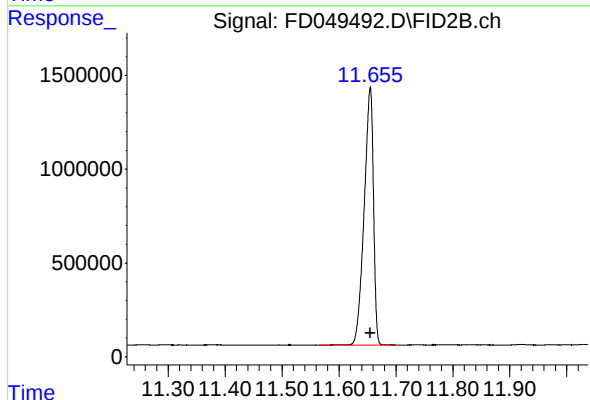
ClientSampleId :

100 PPM AROMATIC HC STD1



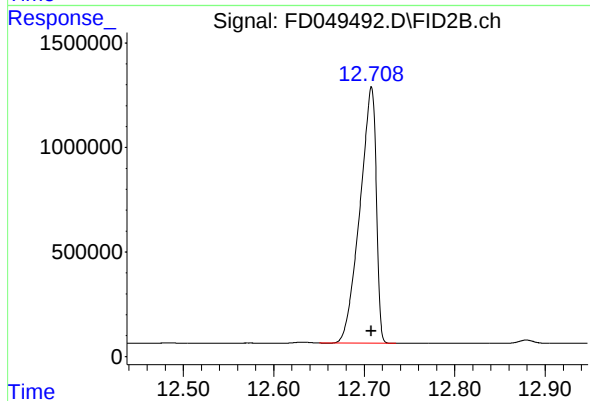
#10 Anthracene (C19.43)

R.T.: 10.969 min
Delta R.T.: 0.000 min
Response: 15593266
Conc: 99.11 ug/ml



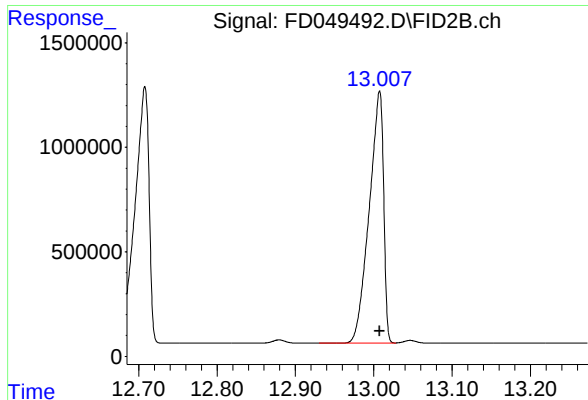
#11 ortho-Terphenyl (SURR)

R.T.: 11.655 min
Delta R.T.: 0.000 min
Response: 15530269
Conc: 98.64 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.708 min
Delta R.T.: 0.000 min
Response: 15390927
Conc: 97.85 ug/ml



#13 Pyrene (C20.8)

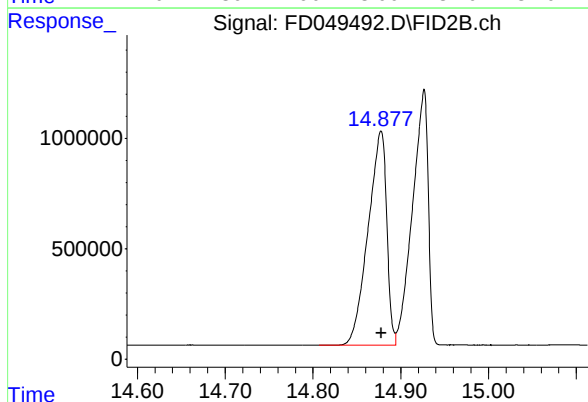
R.T.: 13.007 min
Delta R.T.: 0.000 min
Response: 15345851
Conc: 97.74 ug/ml

Instrument :

FID_D

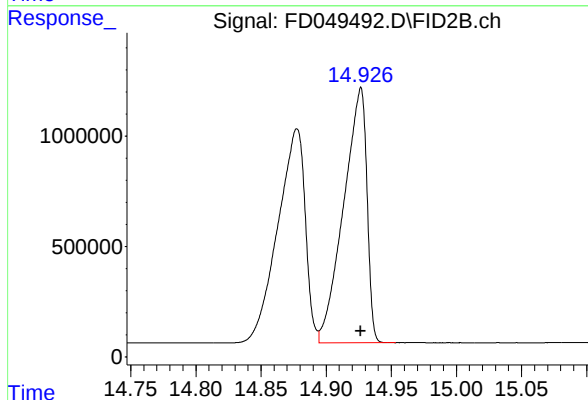
ClientSampleId :

100 PPM AROMATIC HC STD1



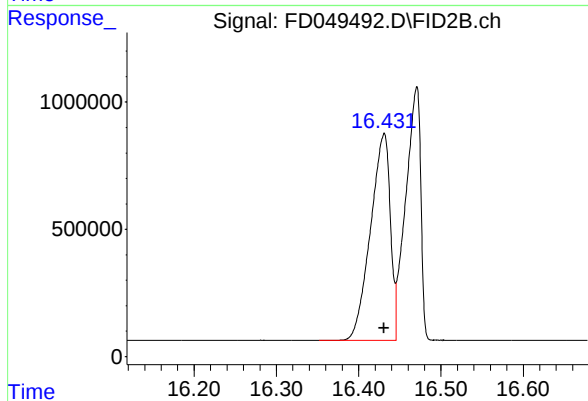
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.878 min
Delta R.T.: 0.000 min
Response: 14256967
Conc: 97.34 ug/ml



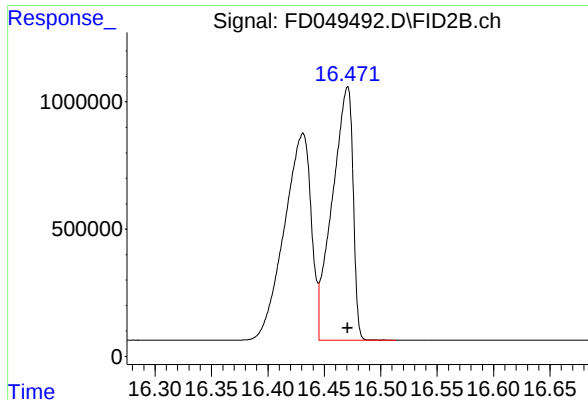
#15 Chrysene (C27.41)

R.T.: 14.926 min
Delta R.T.: 0.000 min
Response: 14339025
Conc: 97.21 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.431 min
Delta R.T.: 0.000 min
Response: 13552247
Conc: 97.39 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

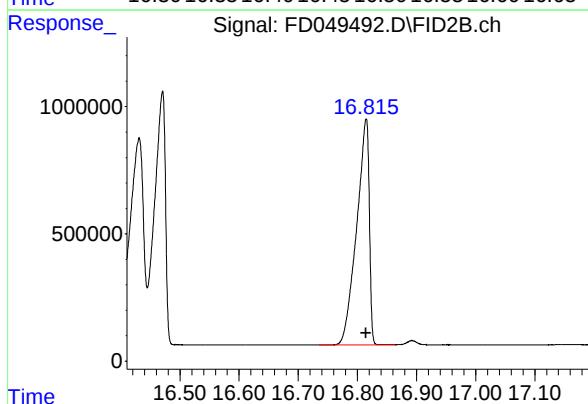
R.T.: 16.470 min
Delta R.T.: 0.000 min
Response: 1266658
Conc: 97.18 ug/ml

Instrument :

FID_D

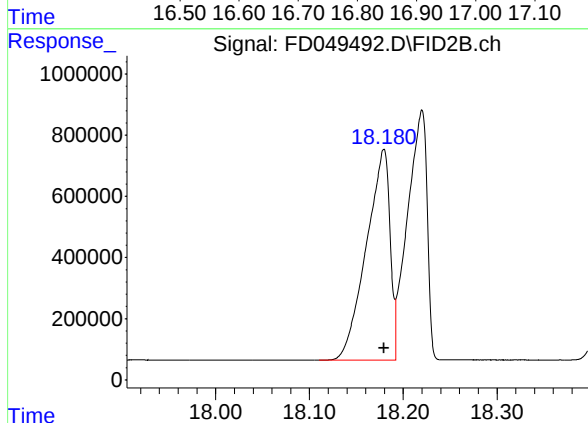
ClientSampleId :

100 PPM AROMATIC HC STD1



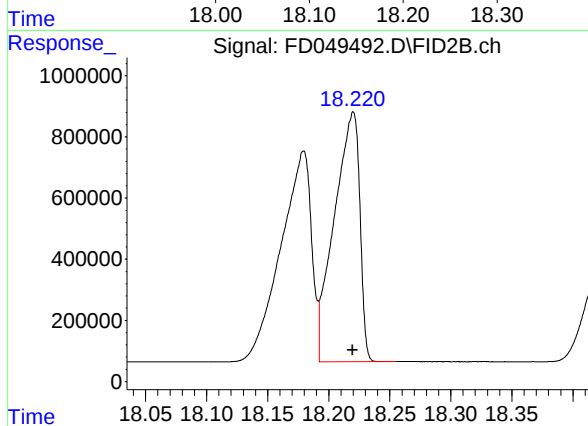
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.815 min
Delta R.T.: 0.000 min
Response: 13124309
Conc: 97.11 ug/ml



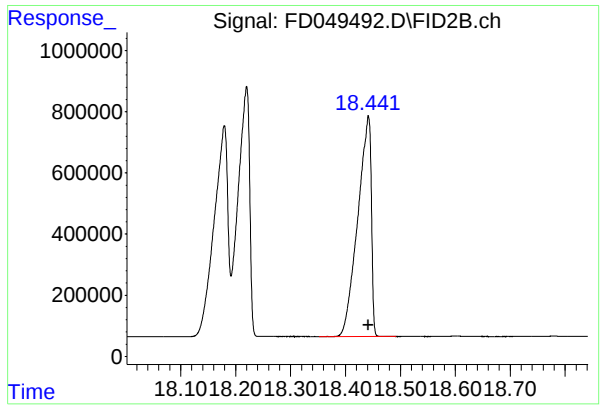
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.179 min
Delta R.T.: 0.000 min
Response: 12080043
Conc: 99.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.220 min
Delta R.T.: 0.000 min
Response: 11842648
Conc: 96.31 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.442 min
Delta R.T.: 0.000 min
Response: 12355459
Conc: 97.46 ug/ml

Instrument :

FID_D

ClientSampleId :

100 PPM AROMATIC HC STD1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
 Data File : FD049493.D
 Signal(s) : FID2B.ch
 Acq On : 18 Jun 2025 11:58
 Operator : YP/AJ
 Sample : 50 PPM AROMATIC HC STD2
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 50 PPM AROMATIC HC STD2

Integration File: autoint1.e
 Quant Time: Jun 18 13:10:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 13:06:40 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...	7.737	6089272	48.730 ug/ml
Spiked Amount 50.000		Recovery =	97.46%
6) S 2-Fluorobiphenyl (SURR)	8.603	4340800	48.904 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	97.81%
11) S ortho-Terphenyl (SURR)	11.648	7578385	48.740 ug/ml
Spiked Amount 50.000		Recovery =	97.48%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.530	5703290	49.293 ug/ml
2) T Naphthalene (C11.7)	6.074	6622569	49.156 ug/ml
3) T 2-Methylnaphthalene (...)	7.128	6947245	49.009 ug/ml
5) T Acenaphthylene (C15.06)	8.407	7399108	48.802 ug/ml
7) T Acenaphthene (C15.5)	8.704	7312424	48.932 ug/ml
8) T Fluorene (C16.55)	9.485	7438668	48.863 ug/ml
9) T Phenanthrene (C19.36)	10.884	7689139	48.961 ug/ml
10) T Anthracene (C19.43)	10.960	7597949	48.849 ug/ml
12) T Fluoranthene (C21.85)	12.699	7654270	49.100 ug/ml
13) T Pyrene (C20.8)	12.998	7652040	49.151 ug/ml
14) T Benzo[a]anthracene (C...	14.870	7191201	49.395 ug/ml
15) T Chrysene (C27.41)	14.914	7244024	49.404 ug/ml
16) T benzo[b]fluoranthene ...	16.420	6852542	49.495 ug/ml
17) T Bnezo[k]fluoranthene ...	16.456	6463615	49.573 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.801	6656992	49.504 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.165	5956686	49.205 ug/ml
20) T Dibenz[a,h]anthracene...	18.205	6131323	49.630 ug/ml
21) T Benzo[g,h,i]perylene ...	18.425	6216795	49.355 ug/ml

(f)=RT Delta > 1/2 Window

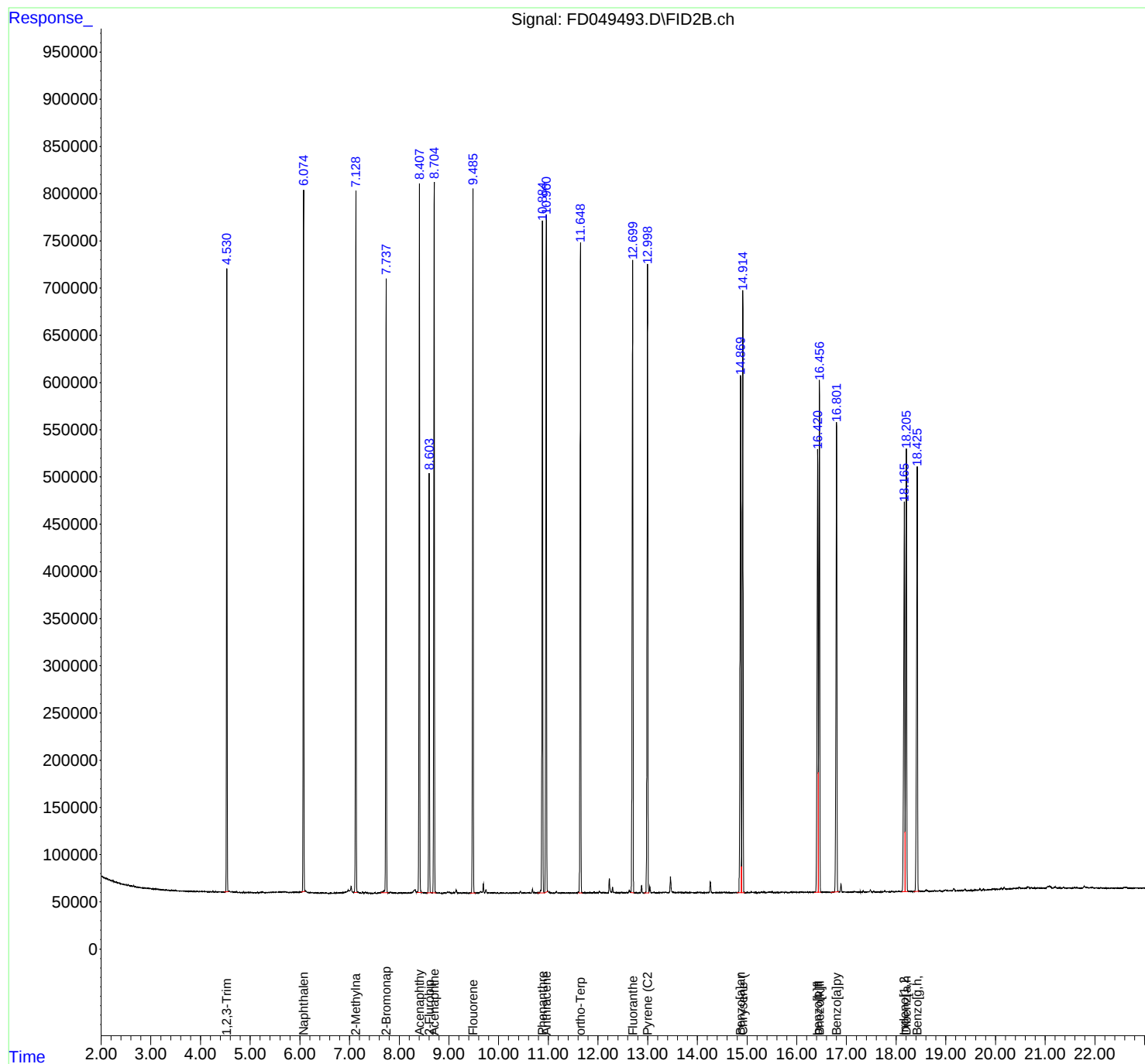
(m)=manual int.

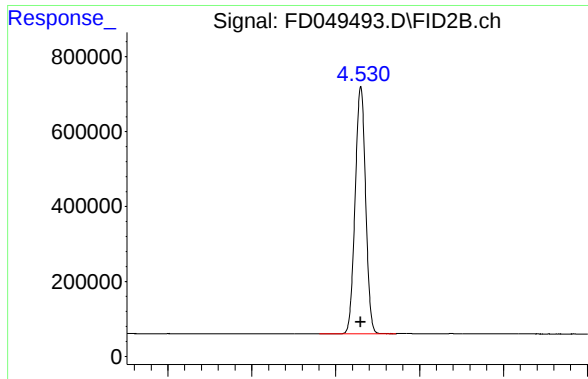
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
Data File : FD049493.D
Signal(s) : FID2B.ch
Acq On : 18 Jun 2025 11:58
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Jun 18 13:10:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 13:06:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

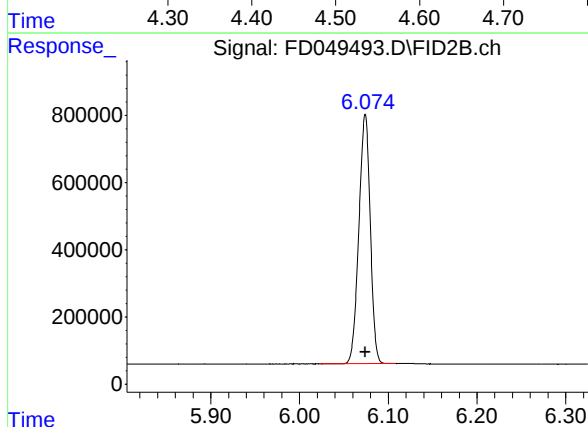




#1 1,2,3-Trimethylbenzene (C10.1)

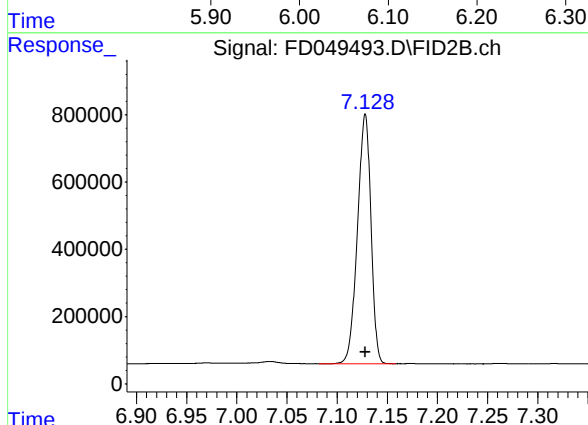
R.T.: 4.530 min
Delta R.T.: 0.000 min
Response: 5703290
Conc: 49.29 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



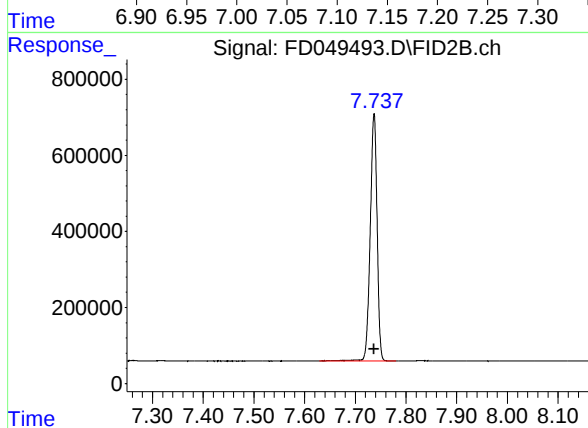
#2 Naphthalene (C11.7)

R.T.: 6.074 min
Delta R.T.: 0.000 min
Response: 6622569
Conc: 49.16 ug/ml



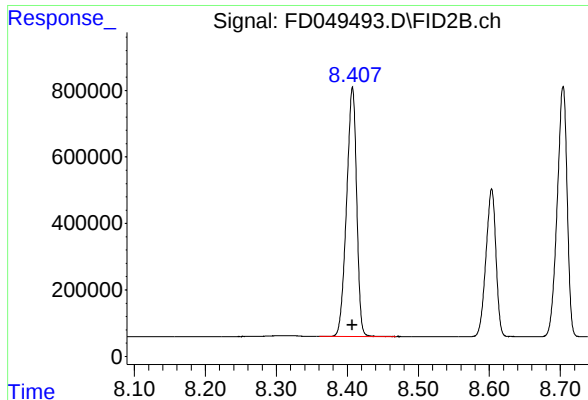
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.128 min
Delta R.T.: 0.000 min
Response: 6947245
Conc: 49.01 ug/ml



#4 2-Bromonaphthalene (SURR)

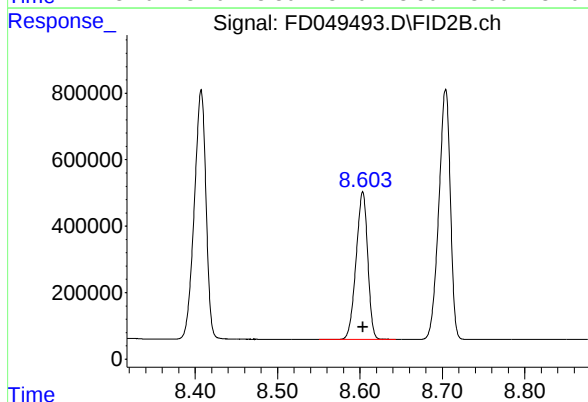
R.T.: 7.737 min
Delta R.T.: 0.000 min
Response: 6089272
Conc: 48.73 ug/ml



#5 Acenaphthylene (C15.06)

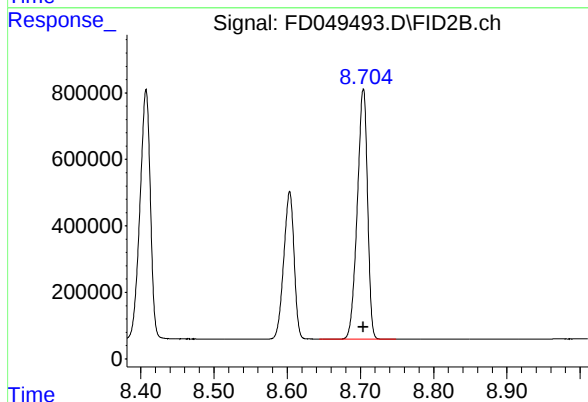
R.T.: 8.407 min
Delta R.T.: 0.000 min
Response: 7399108
Conc: 48.80 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



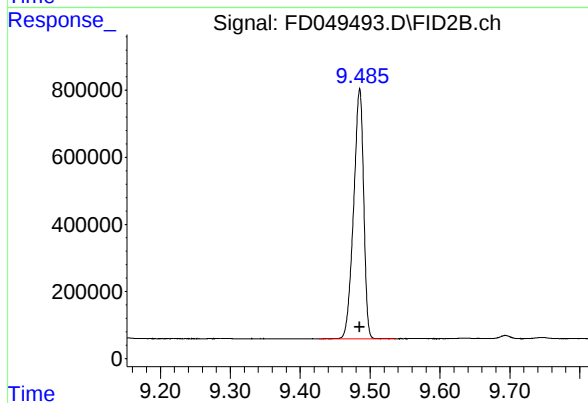
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.603 min
Delta R.T.: 0.000 min
Response: 4340800
Conc: 48.90 ug/ml



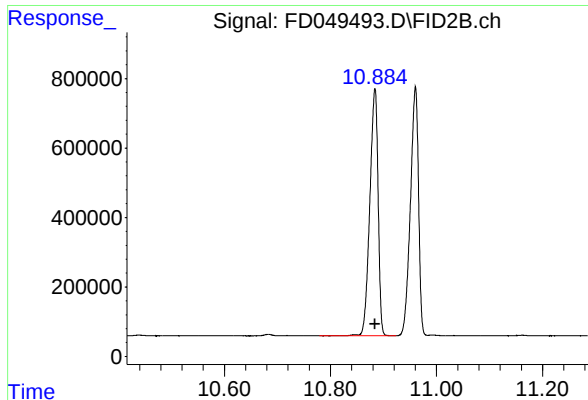
#7 Acenaphthene (C15.5)

R.T.: 8.704 min
Delta R.T.: 0.000 min
Response: 7312424
Conc: 48.93 ug/ml



#8 Flouorene (C16.55)

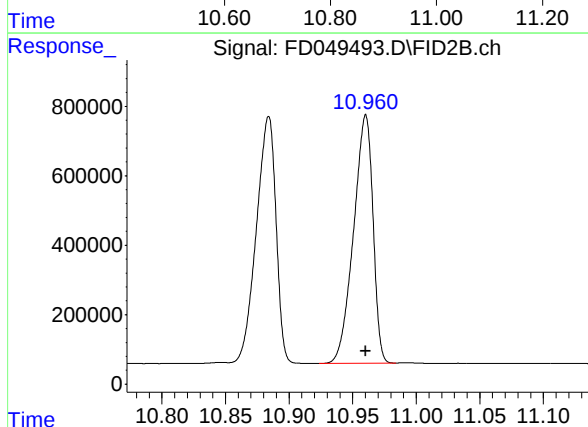
R.T.: 9.485 min
Delta R.T.: 0.000 min
Response: 7438668
Conc: 48.86 ug/ml



#9 Phenanthrene (C19.36)

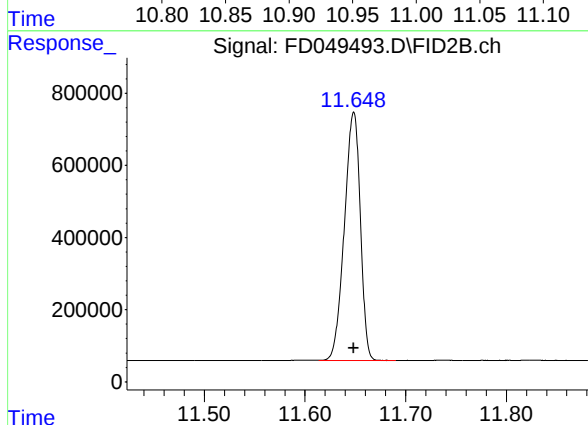
R.T.: 10.884 min
Delta R.T.: 0.000 min
Response: 7689139
Conc: 48.96 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



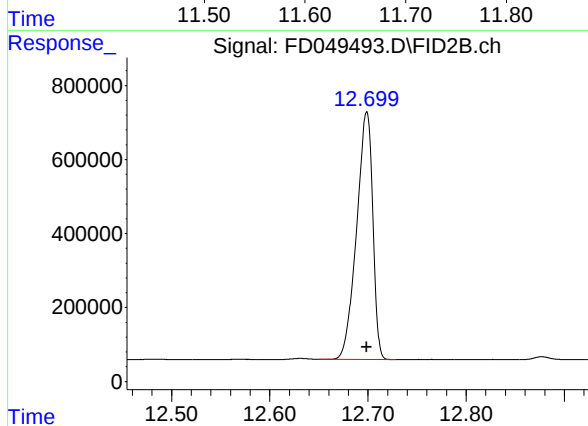
#10 Anthracene (C19.43)

R.T.: 10.960 min
Delta R.T.: 0.000 min
Response: 7597949
Conc: 48.85 ug/ml



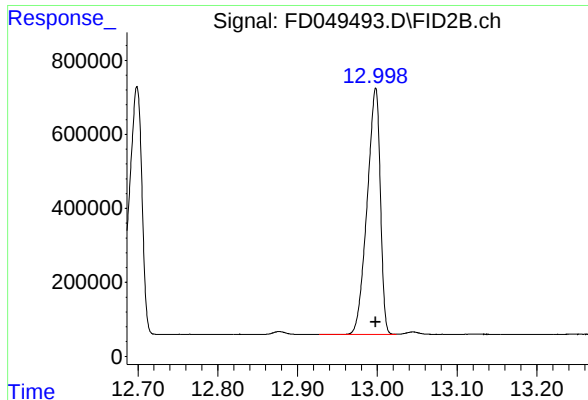
#11 ortho-Terphenyl (SURRE)

R.T.: 11.648 min
Delta R.T.: 0.000 min
Response: 7578385
Conc: 48.74 ug/ml



#12 Fluoranthene (C21.85)

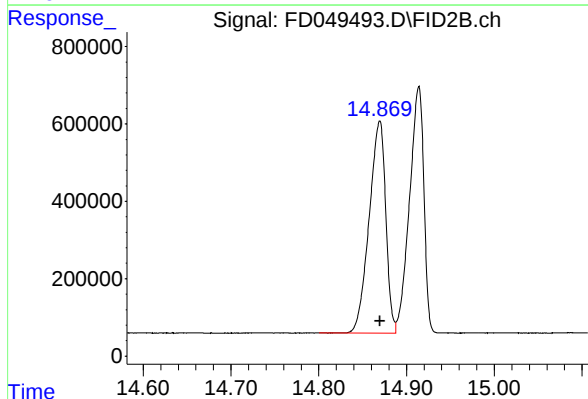
R.T.: 12.699 min
Delta R.T.: 0.000 min
Response: 7654270
Conc: 49.10 ug/ml



#13 Pyrene (C20.8)

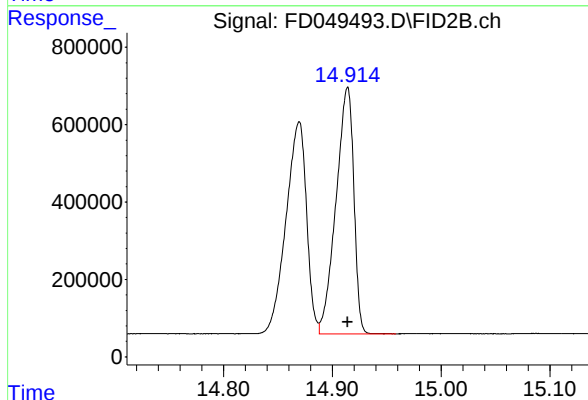
R.T.: 12.998 min
Delta R.T.: 0.000 min
Response: 7652040
Conc: 49.15 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



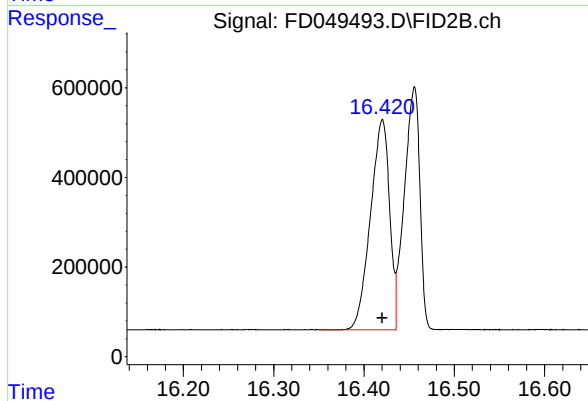
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.870 min
Delta R.T.: 0.000 min
Response: 7191201
Conc: 49.40 ug/ml



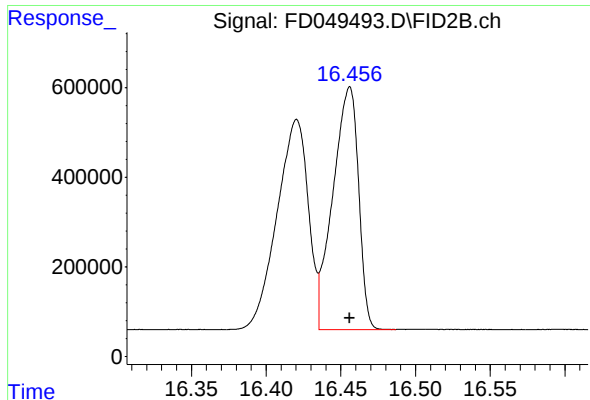
#15 Chrysene (C27.41)

R.T.: 14.914 min
Delta R.T.: 0.000 min
Response: 7244024
Conc: 49.40 ug/ml



#16 benzo[b]fluoranthene (C30.41)

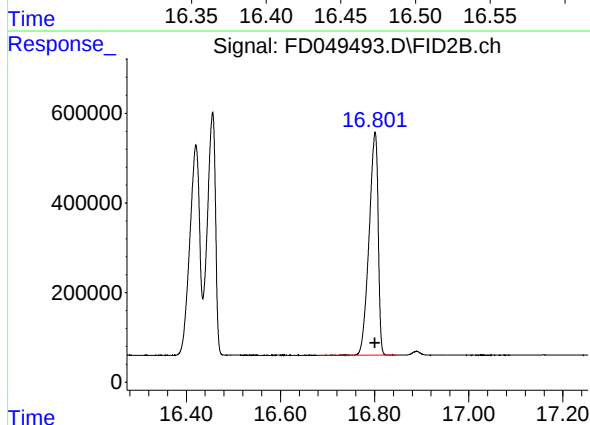
R.T.: 16.420 min
Delta R.T.: 0.000 min
Response: 6852542
Conc: 49.49 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

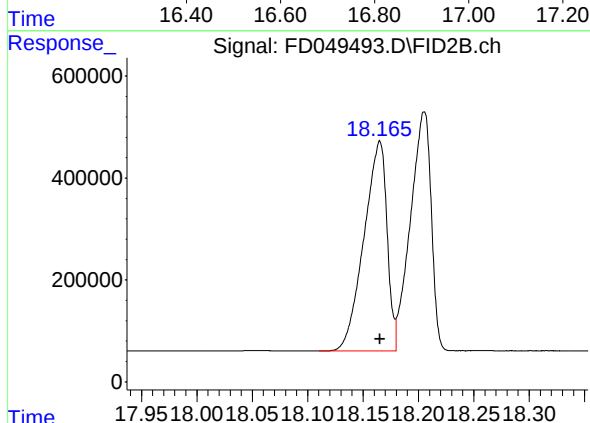
R.T.: 16.456 min
Delta R.T.: 0.000 min
Response: 6463615
Conc: 49.57 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



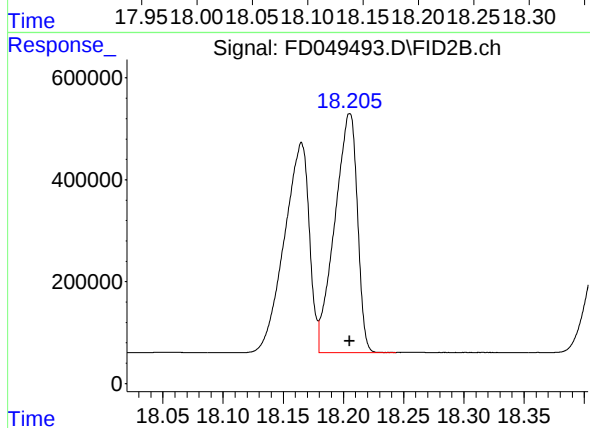
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.801 min
Delta R.T.: 0.000 min
Response: 6656992
Conc: 49.50 ug/ml



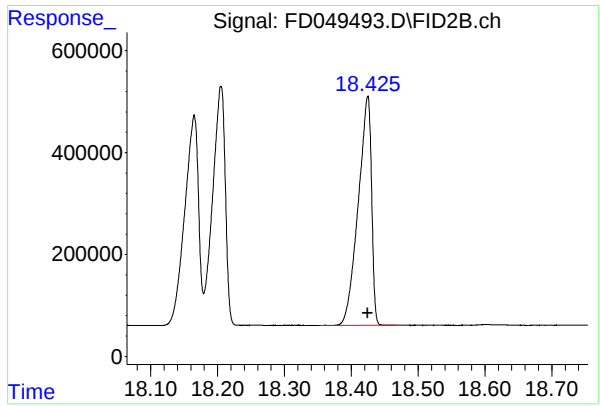
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.165 min
Delta R.T.: 0.000 min
Response: 5956686
Conc: 49.21 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.205 min
Delta R.T.: 0.000 min
Response: 6131323
Conc: 49.63 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.425 min
Delta R.T.: 0.000 min
Response: 6216795
Conc: 49.35 ug/ml

Instrument :

FID_D

ClientSampleId :

50 PPM AROMATIC HC STD2

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
 Data File : FD049494.D
 Signal(s) : FID2B.ch
 Acq On : 18 Jun 2025 12:39
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD3
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD3

Integration File: autoint1.e
 Quant Time: Jun 18 13:06:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 13:06:40 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...	7.736	2512167	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
6) S 2-Fluorobiphenyl (SURR)	8.601	1775279	20.000 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	40.00%
11) S ortho-Terphenyl (SURR)	11.646	3191768	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.530	2292006	20.000 ug/ml
2) T Naphthalene (C11.7)	6.073	2656165	20.000 ug/ml
3) T 2-Methylnaphthalene (...)	7.126	2804620	20.000 ug/ml
5) T Acenaphthylene (C15.06)	8.405	3074169	20.000 ug/ml
7) T Acenaphthene (C15.5)	8.701	2997274	20.000 ug/ml
8) T Fluorene (C16.55)	9.481	3082096	20.000 ug/ml
9) T Phenanthrene (C19.36)	10.880	3217385	20.000 ug/ml
10) T Anthracene (C19.43)	10.955	3174468	20.000 ug/ml
12) T Fluoranthene (C21.85)	12.693	3213505	20.000 ug/ml
13) T Pyrene (C20.8)	12.991	3211070	20.000 ug/ml
14) T Benzo[a]anthracene (C...	14.863	3007187	20.000 ug/ml
15) T Chrysene (C27.41)	14.905	3032347	20.000 ug/ml
16) T benzo[b]fluoranthene ...	16.413	2855550	20.000 ug/ml
17) T Bnezo[k]fluoranthene ...	16.445	2704394	20.000 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.792	2780829	20.000 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.155	2464813	20.000 ug/ml
20) T Dibenz[a,h]anthracene...	18.195	2591426	20.000 ug/ml
21) T Benzo[g,h,i]perylene ...	18.411	2599902	20.000 ug/ml

(f)=RT Delta > 1/2 Window

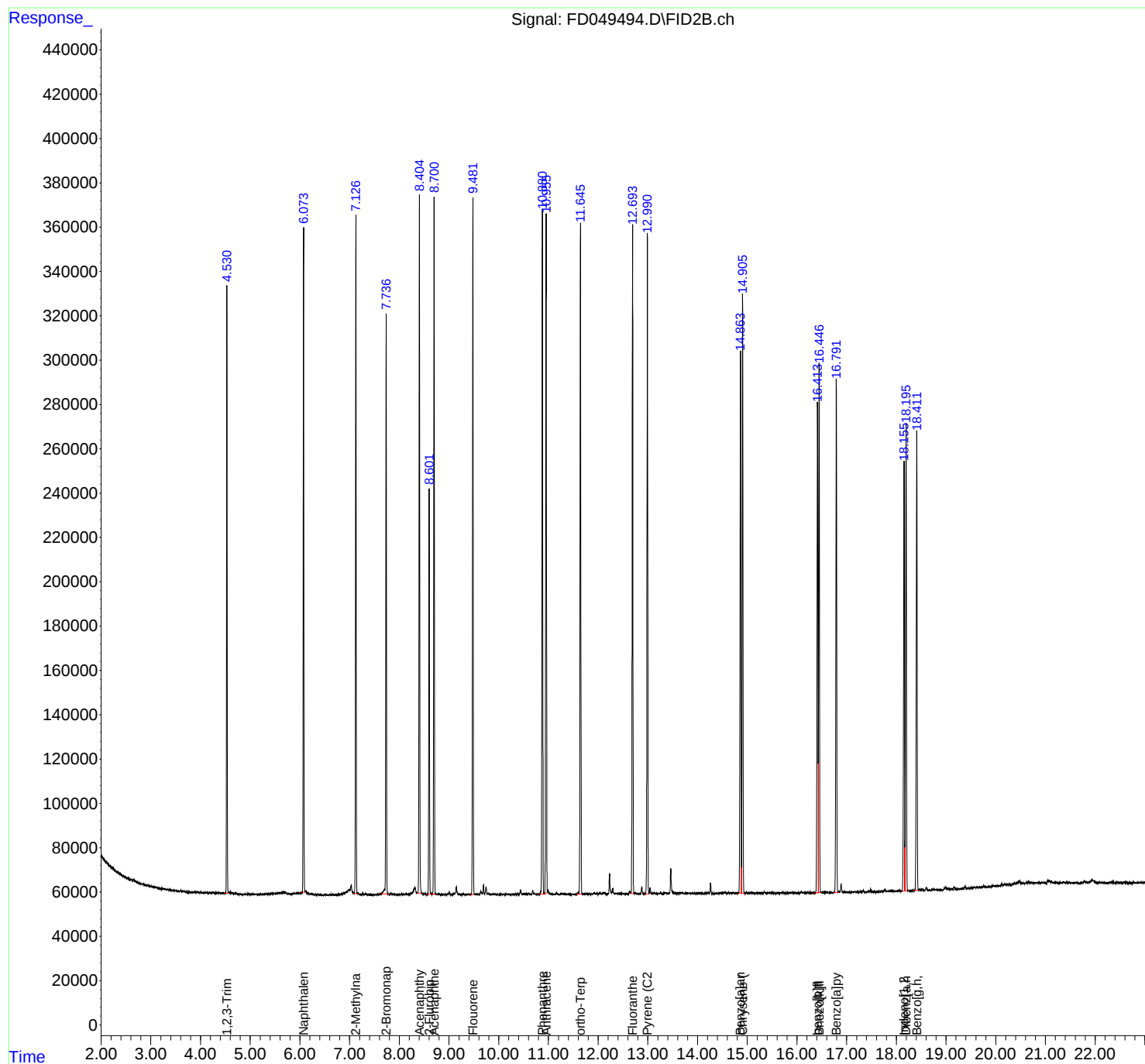
(m)=manual int.

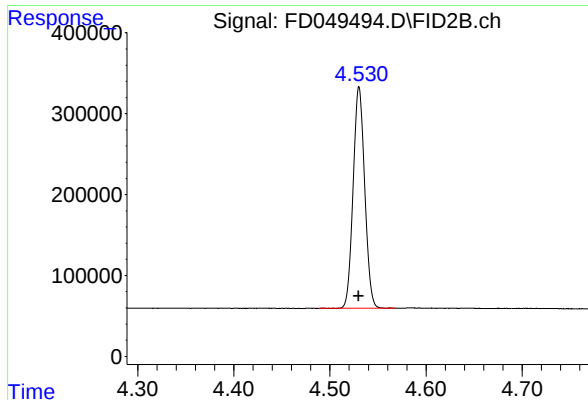
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
Data File : FD049494.D
Signal(s) : FID2B.ch
Acq On : 18 Jun 2025 12:39
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Jun 18 13:06:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 13:06:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

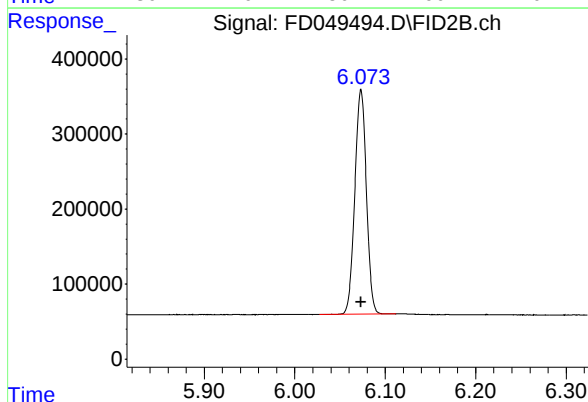




#1 1,2,3-Trimethylbenzene (C10.1)

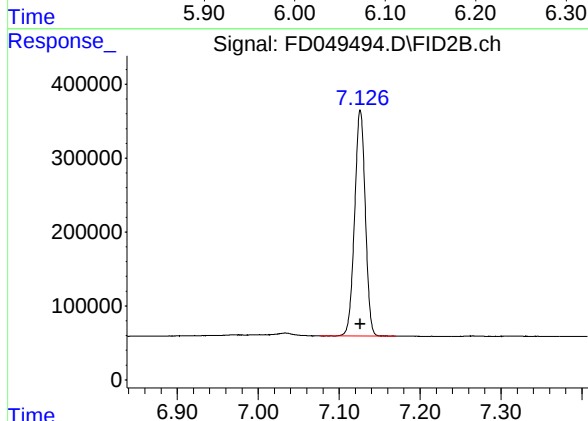
R.T.: 4.530 min
Delta R.T.: 0.000 min
Response: 2292006
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



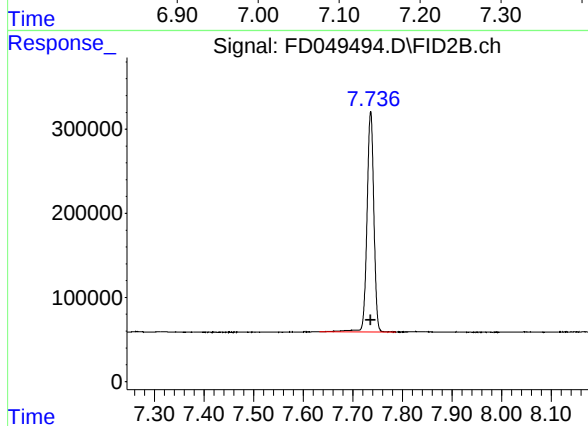
#2 Naphthalene (C11.7)

R.T.: 6.073 min
Delta R.T.: 0.000 min
Response: 2656165
Conc: 20.00 ug/ml



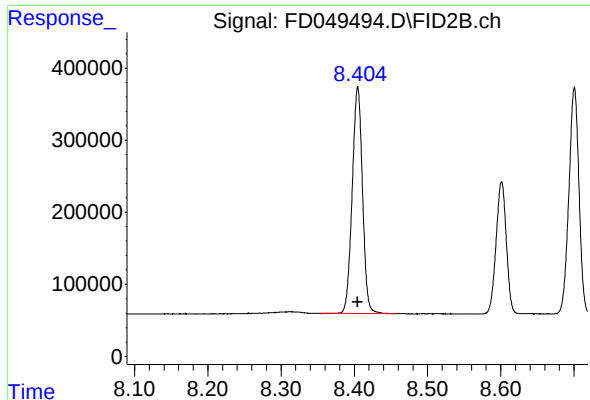
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.126 min
Delta R.T.: 0.000 min
Response: 2804620
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

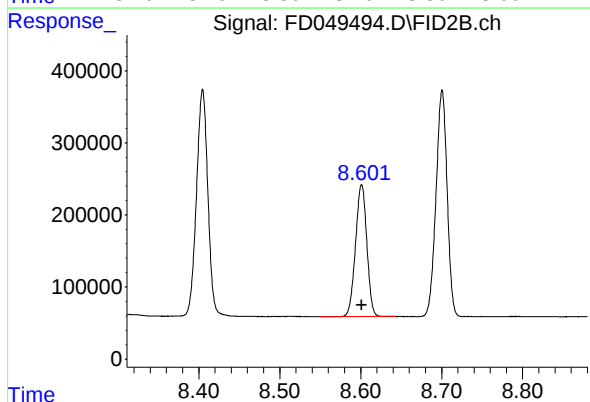
R.T.: 7.736 min
Delta R.T.: 0.000 min
Response: 2512167
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

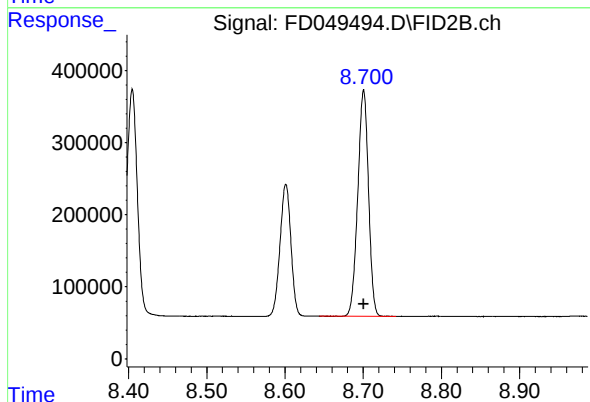
R.T.: 8.405 min
Delta R.T.: 0.000 min
Response: 3074169
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



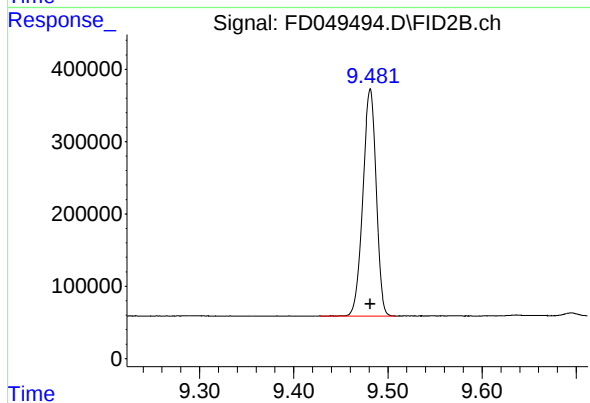
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.601 min
Delta R.T.: 0.000 min
Response: 1775279
Conc: 20.00 ug/ml



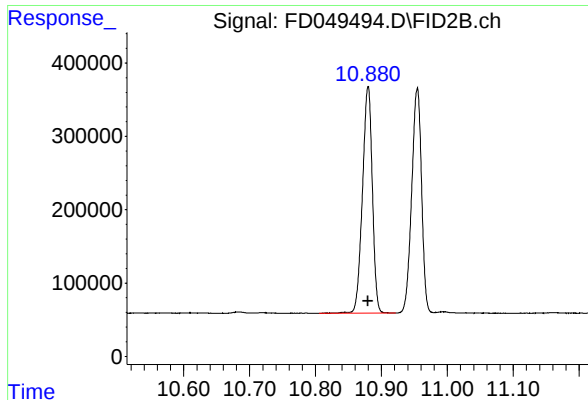
#7 Acenaphthene (C15.5)

R.T.: 8.701 min
Delta R.T.: 0.000 min
Response: 2997274
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

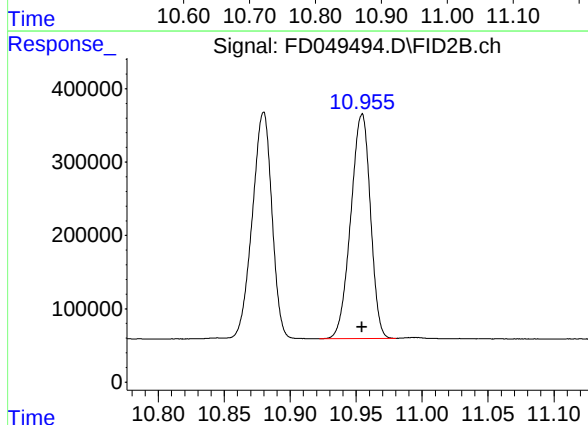
R.T.: 9.481 min
Delta R.T.: 0.000 min
Response: 3082096
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

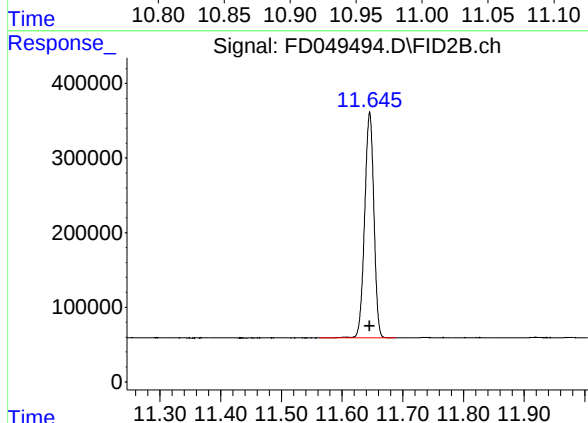
R.T.: 10.880 min
Delta R.T.: 0.000 min
Response: 3217385
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



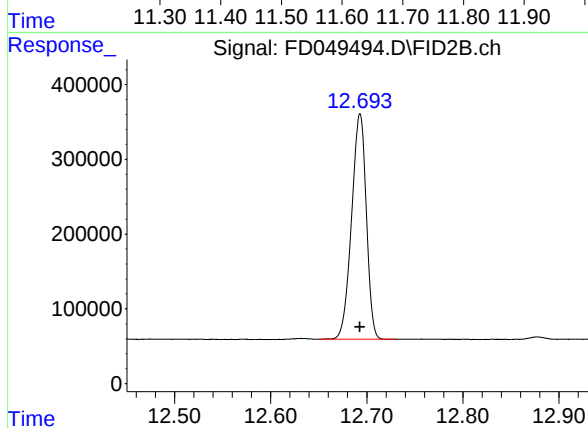
#10 Anthracene (C19.43)

R.T.: 10.955 min
Delta R.T.: 0.000 min
Response: 3174468
Conc: 20.00 ug/ml



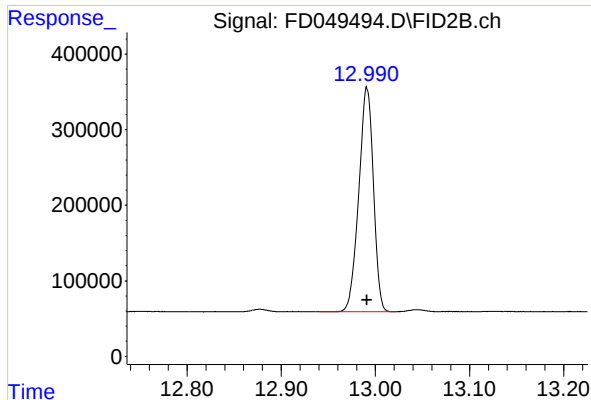
#11 ortho-Terphenyl (SURRE)

R.T.: 11.646 min
Delta R.T.: 0.000 min
Response: 3191768
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

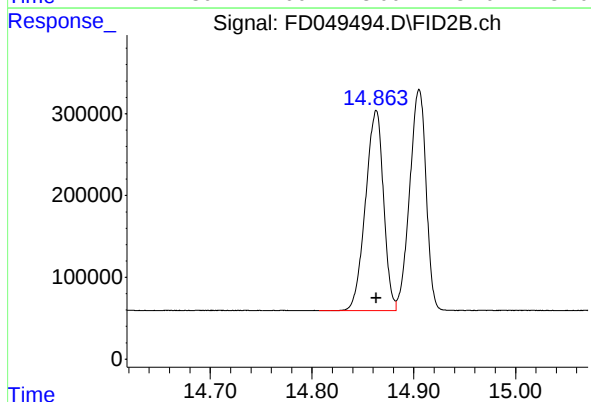
R.T.: 12.693 min
Delta R.T.: 0.000 min
Response: 3213505
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

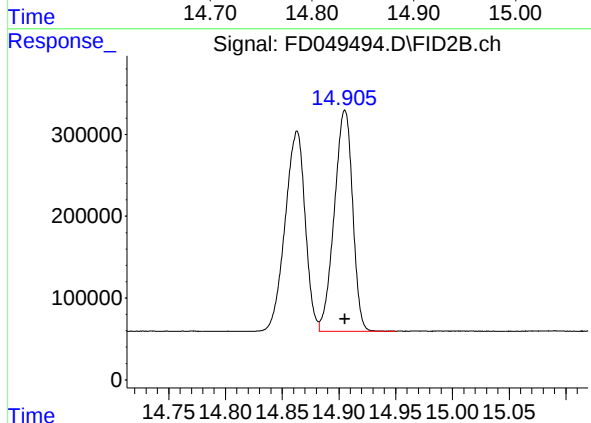
R.T.: 12.991 min
Delta R.T.: 0.000 min
Response: 3211070
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



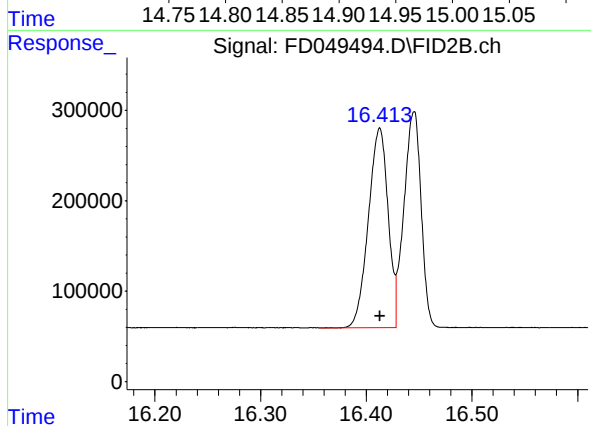
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.863 min
Delta R.T.: 0.000 min
Response: 3007187
Conc: 20.00 ug/ml



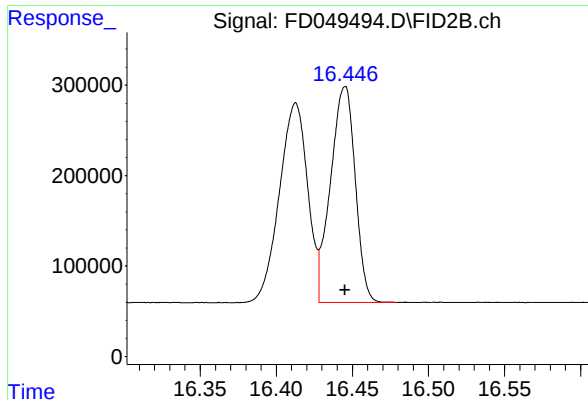
#15 Chrysene (C27.41)

R.T.: 14.905 min
Delta R.T.: 0.000 min
Response: 3032347
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

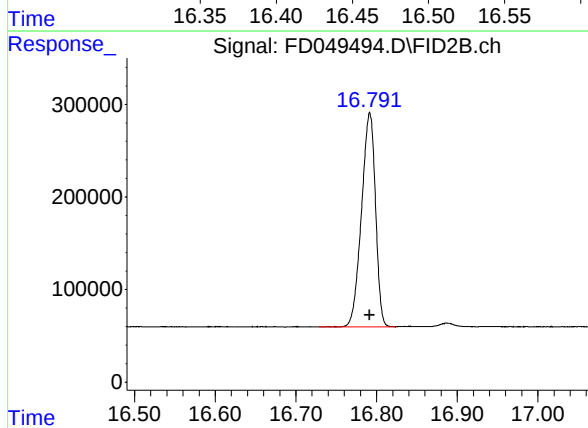
R.T.: 16.413 min
Delta R.T.: 0.000 min
Response: 2855550
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

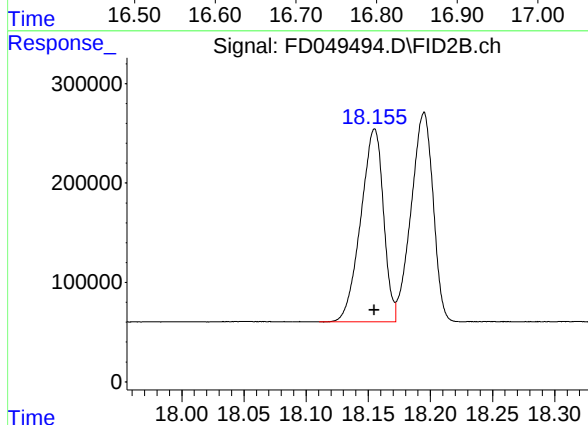
R.T.: 16.445 min
Delta R.T.: 0.000 min
Response: 2704394
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



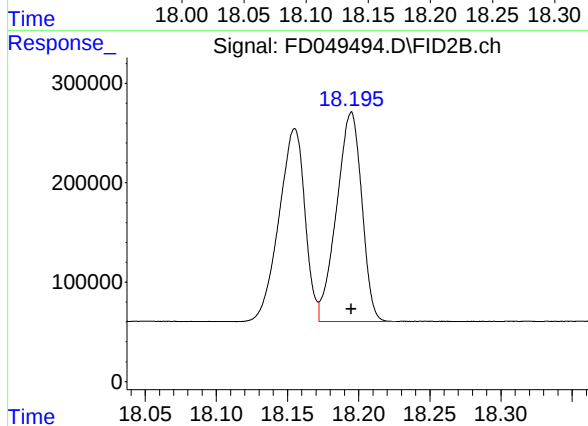
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.792 min
Delta R.T.: 0.000 min
Response: 2780829
Conc: 20.00 ug/ml



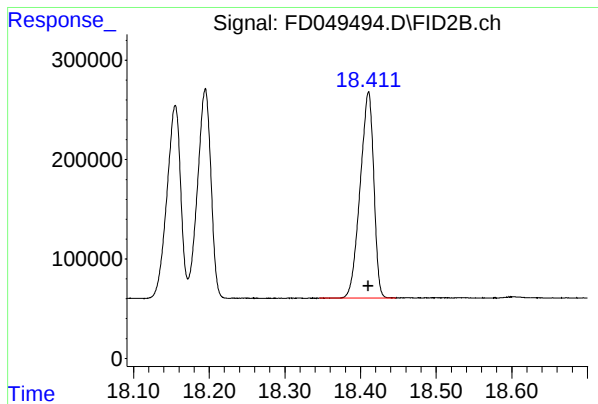
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.155 min
Delta R.T.: 0.000 min
Response: 2464813
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.195 min
Delta R.T.: 0.000 min
Response: 2591426
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.411 min
Delta R.T.: 0.000 min
Response: 2599902
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
 Data File : FD049495.D
 Signal(s) : FID2B.ch
 Acq On : 18 Jun 2025 13:20
 Operator : YP/AJ
 Sample : 10 PPM AROMATIC HC STD4
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 10 PPM AROMATIC HC STD4

Integration File: autoint1.e
 Quant Time: Jun 18 13:43:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 13:43:32 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...	7.735	1334646	10.502 ug/ml
Spiked Amount 50.000		Recovery =	21.00%
6) S 2-Fluorobiphenyl (SURR)	8.599	917966	10.254 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	20.51%
11) S ortho-Terphenyl (SURR)	11.643	1649655	10.450 ug/ml
Spiked Amount 50.000		Recovery =	20.90%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.530	1200497	10.279 ug/ml
2) T Naphthalene (C11.7)	6.073	1378011	10.170 ug/ml
3) T 2-Methylnaphthalene (...)	7.125	1451436	10.178 ug/ml
5) T Acenaphthylene (C15.06)	8.403	1638009	10.591 ug/ml
7) T Acenaphthene (C15.5)	8.699	1548094	10.267 ug/ml
8) T Fluorene (C16.55)	9.479	1600814	10.382 ug/ml
9) T Phenanthrene (C19.36)	10.877	1668057	10.459 ug/ml
10) T Anthracene (C19.43)	10.951	1640730	10.406 ug/ml
12) T Fluoranthene (C21.85)	12.690	1663751	10.496 ug/ml
13) T Pyrene (C20.8)	12.988	1661242	10.495 ug/ml
14) T Benzo[a]anthracene (C...	14.858	1556351	10.509 ug/ml
15) T Chrysene (C27.41)	14.901	1570813	10.525 ug/ml
16) T benzo[b]fluoranthene ...	16.409	1481283	10.515 ug/ml
17) T Bnezo[k]fluoranthene ...	16.440	1401756	10.553 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.787	1435755	10.499 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.150	1270931	10.369 ug/ml
20) T Dibenz[a,h]anthracene...	18.191	1349680	10.678 ug/ml
21) T Benzo[g,h,i]perylene ...	18.405	1339114	10.466 ug/ml

(f)=RT Delta > 1/2 Window

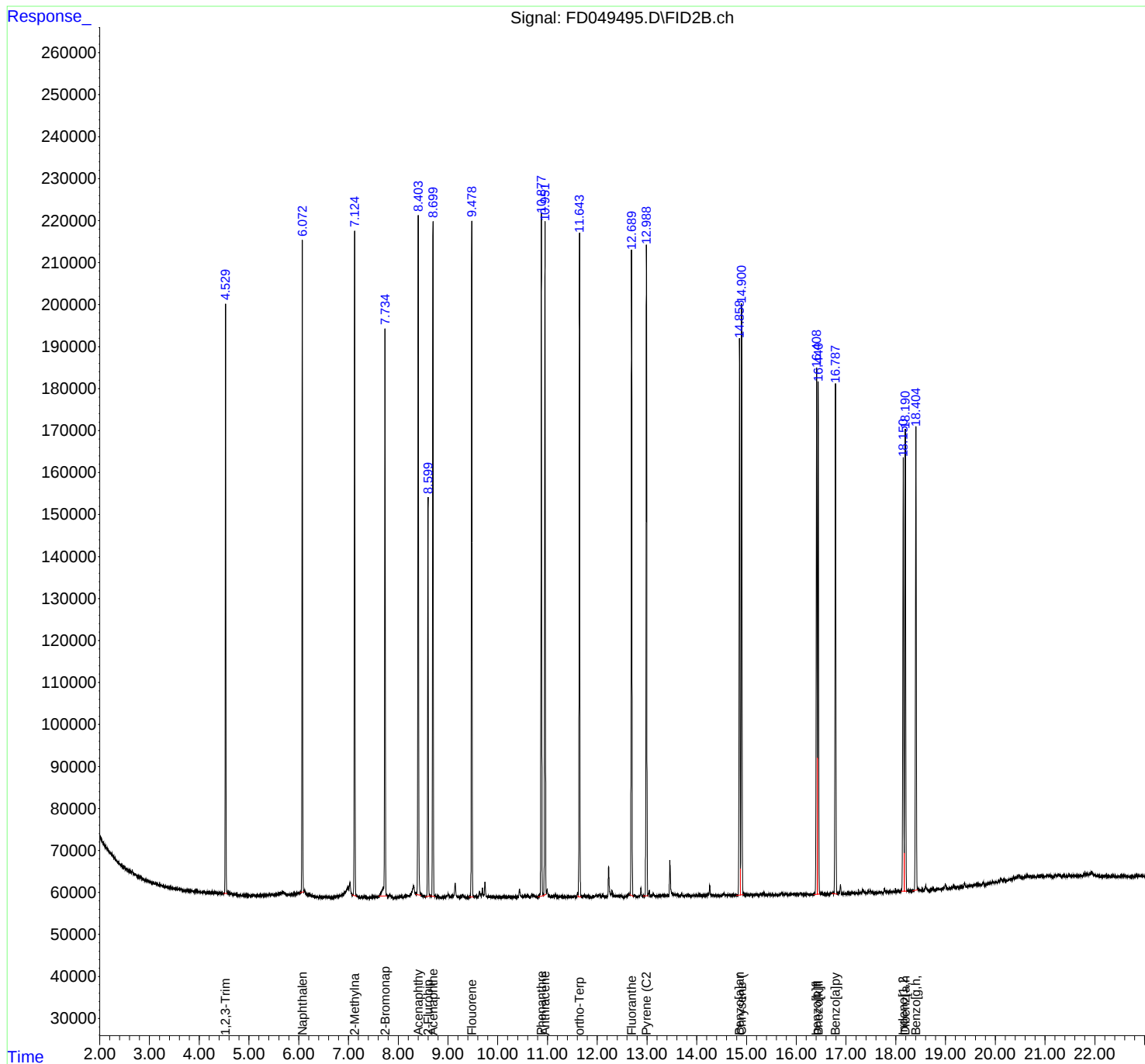
(m)=manual int.

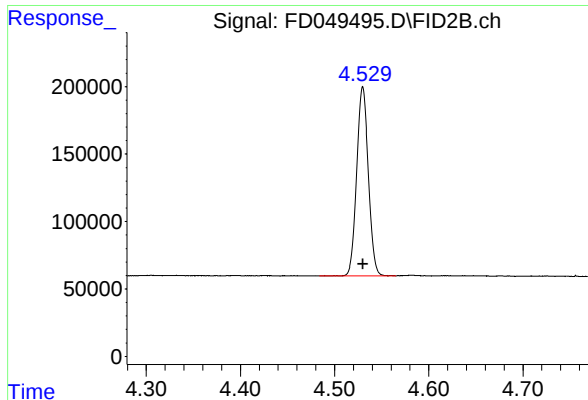
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
Data File : FD049495.D
Signal(s) : FID2B.ch
Acq On : 18 Jun 2025 13:20
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Jun 18 13:43:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 13:43:32 2025
Response via : Initial Calibration
Integrator: ChemStation

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

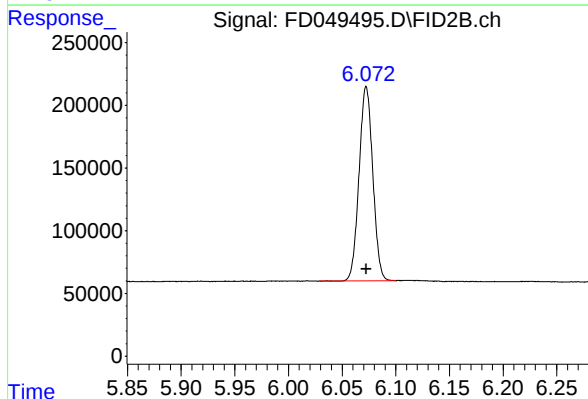




#1 1,2,3-Trimethylbenzene (C10.1)

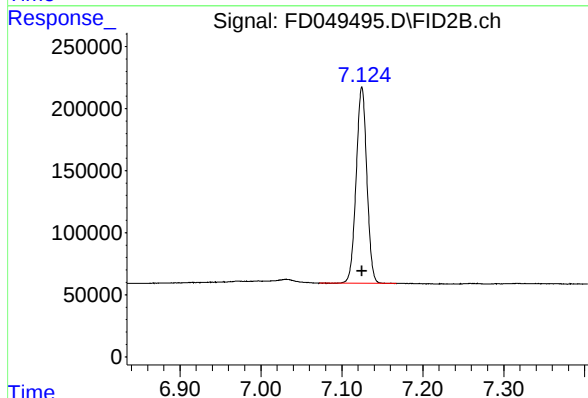
R.T.: 4.530 min
Delta R.T.: 0.000 min
Response: 1200497
Conc: 10.28 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



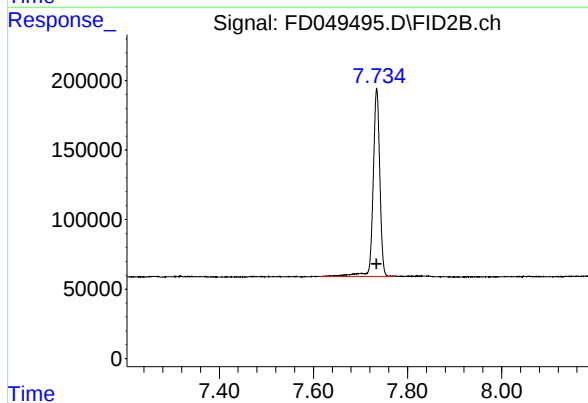
#2 Naphthalene (C11.7)

R.T.: 6.073 min
Delta R.T.: 0.000 min
Response: 1378011
Conc: 10.17 ug/ml



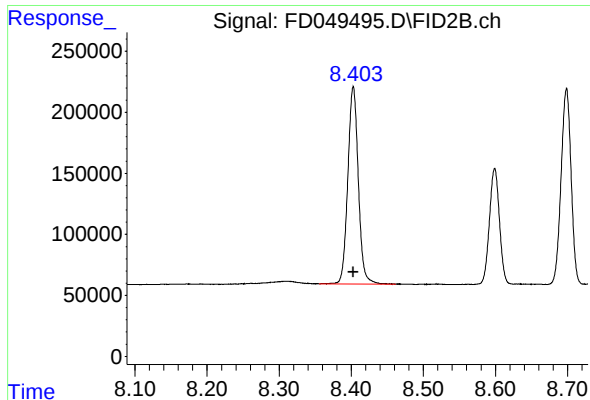
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.125 min
Delta R.T.: 0.000 min
Response: 1451436
Conc: 10.18 ug/ml



#4 2-Bromonaphthalene (SURR)

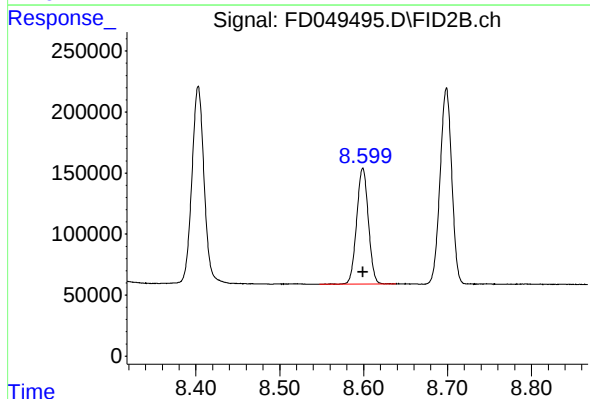
R.T.: 7.735 min
Delta R.T.: 0.000 min
Response: 1334646
Conc: 10.50 ug/ml



#5 Acenaphthylene (C15.06)

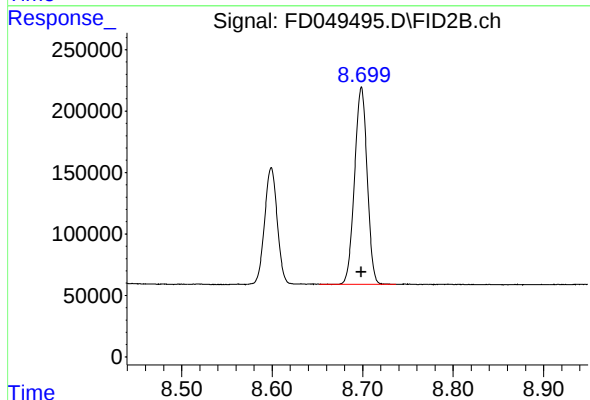
R.T.: 8.403 min
Delta R.T.: 0.000 min
Response: 1638009
Conc: 10.59 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



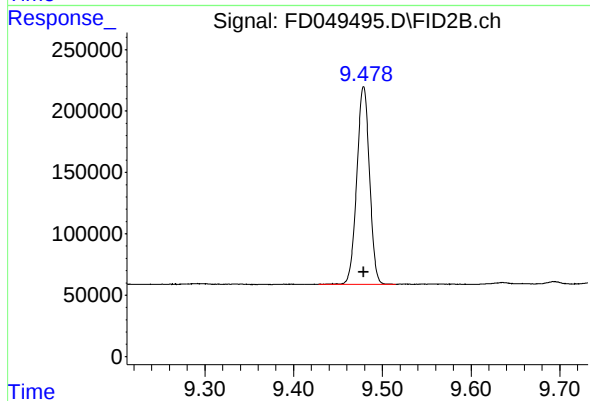
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.599 min
Delta R.T.: 0.000 min
Response: 917966
Conc: 10.25 ug/ml



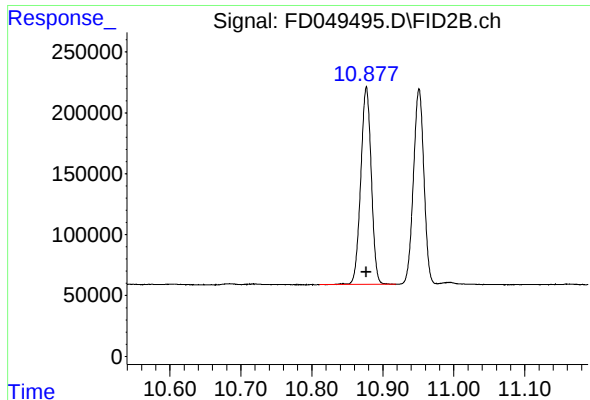
#7 Acenaphthene (C15.5)

R.T.: 8.699 min
Delta R.T.: 0.000 min
Response: 1548094
Conc: 10.27 ug/ml



#8 Fluorene (C16.55)

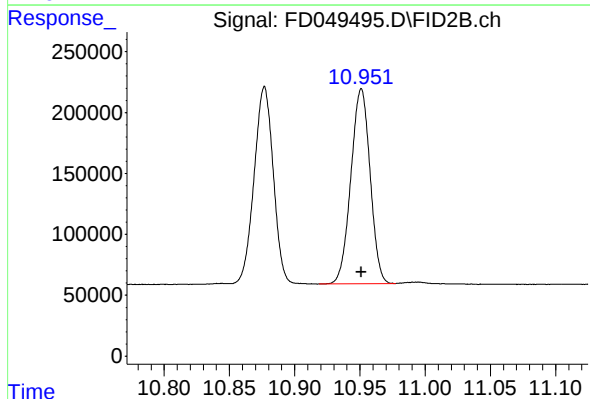
R.T.: 9.479 min
Delta R.T.: 0.000 min
Response: 1600814
Conc: 10.38 ug/ml



#9 Phenanthrene (C19.36)

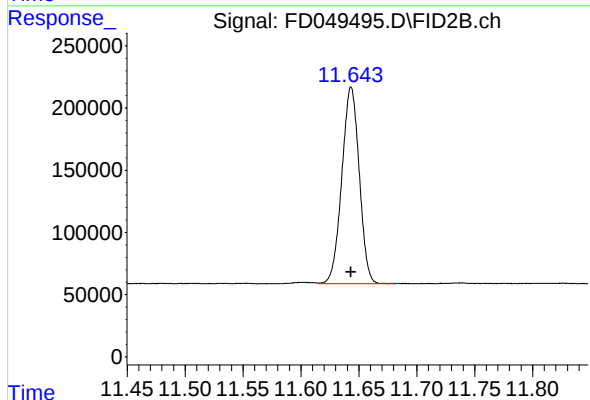
R.T.: 10.877 min
Delta R.T.: 0.000 min
Response: 1668057
Conc: 10.46 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



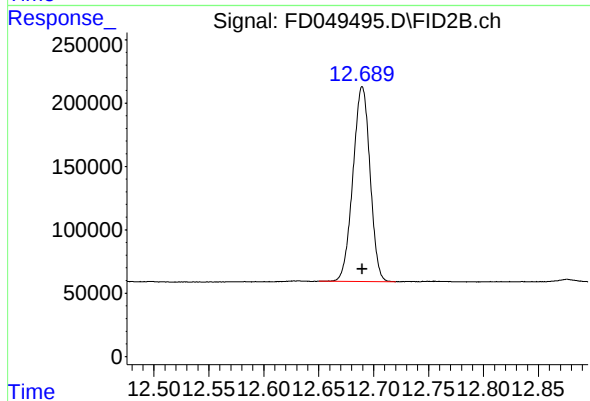
#10 Anthracene (C19.43)

R.T.: 10.951 min
Delta R.T.: 0.000 min
Response: 1640730
Conc: 10.41 ug/ml



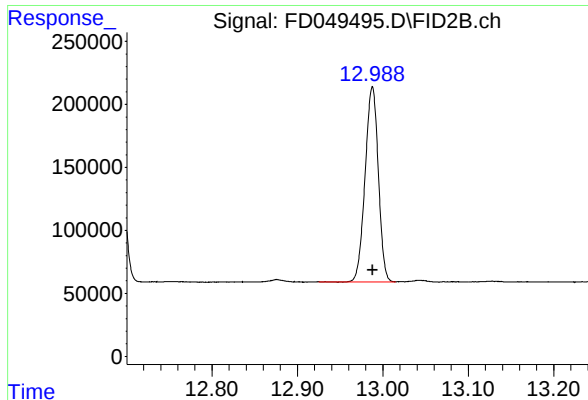
#11 ortho-Terphenyl (SURRE)

R.T.: 11.643 min
Delta R.T.: 0.000 min
Response: 1649655
Conc: 10.45 ug/ml



#12 Fluoranthene (C21.85)

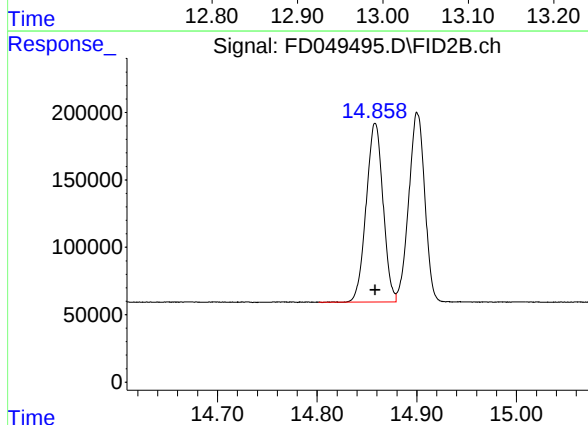
R.T.: 12.690 min
Delta R.T.: 0.000 min
Response: 1663751
Conc: 10.50 ug/ml



#13 Pyrene (C20.8)

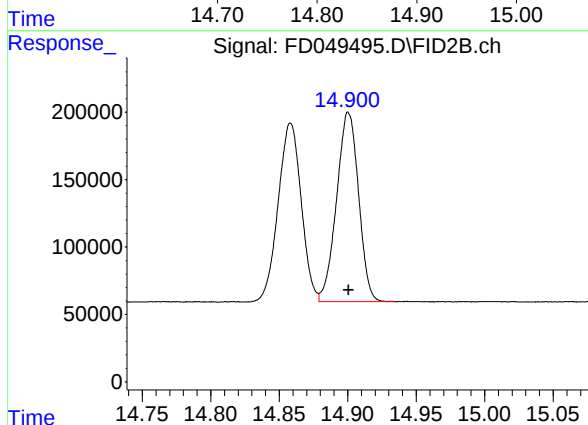
R.T.: 12.988 min
Delta R.T.: 0.000 min
Response: 1661242
Conc: 10.49 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



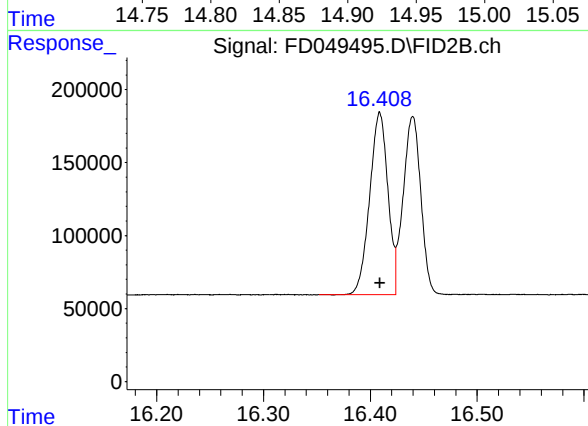
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.858 min
Delta R.T.: 0.000 min
Response: 1556351
Conc: 10.51 ug/ml



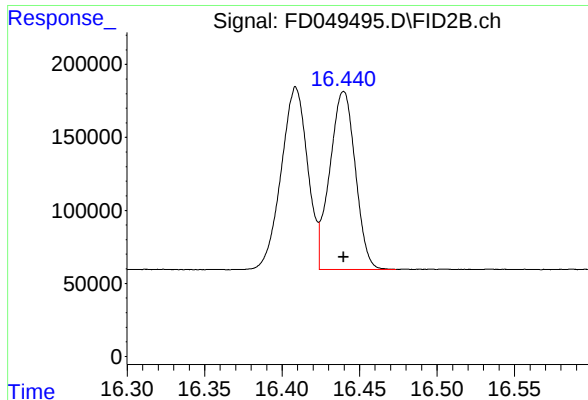
#15 Chrysene (C27.41)

R.T.: 14.901 min
Delta R.T.: 0.000 min
Response: 1570813
Conc: 10.53 ug/ml



#16 benzo[b]fluoranthene (C30.41)

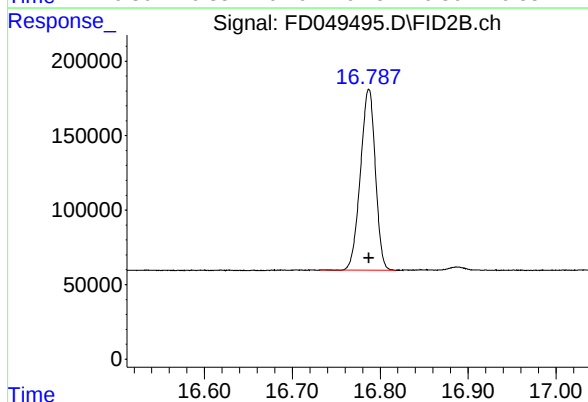
R.T.: 16.409 min
Delta R.T.: 0.000 min
Response: 1481283
Conc: 10.52 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

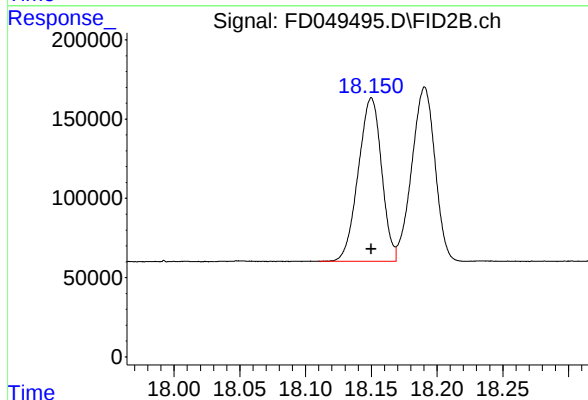
R.T.: 16.440 min
Delta R.T.: 0.000 min
Response: 1401756
Conc: 10.55 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



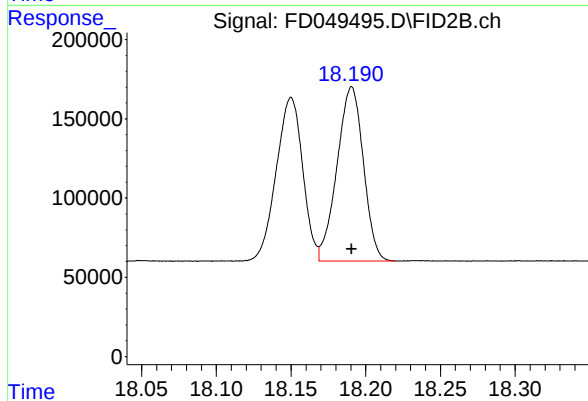
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.787 min
Delta R.T.: 0.000 min
Response: 1435755
Conc: 10.50 ug/ml



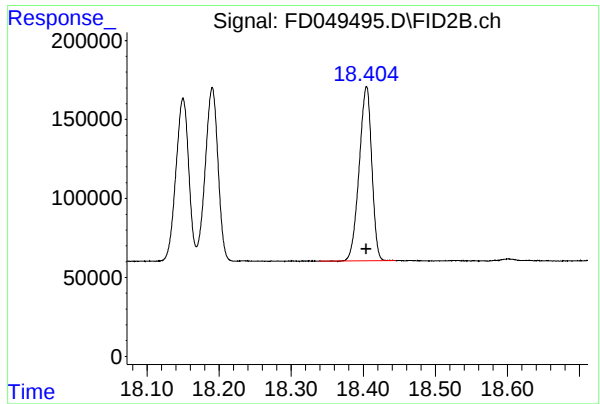
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.150 min
Delta R.T.: 0.000 min
Response: 1270931
Conc: 10.37 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.191 min
Delta R.T.: 0.000 min
Response: 1349680
Conc: 10.68 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.405 min
Delta R.T.: 0.000 min
Response: 1339114
Conc: 10.47 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
 Data File : FD049496.D
 Signal(s) : FID2B.ch
 Acq On : 18 Jun 2025 14:45
 Operator : YP/AJ
 Sample : 5 PPM AROMATIC HC STD5
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 5 PPM AROMATIC HC STD5

Integration File: autoint1.e
 Quant Time: Jun 18 15:16:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 13:44:12 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...	7.735	645915	5.083 ug/ml
Spiked Amount 50.000		Recovery =	10.17%
6) S 2-Fluorobiphenyl (SURR)	8.599	429350	4.796 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	9.59%
11) S ortho-Terphenyl (SURR)	11.643	807564	5.116 ug/ml
Spiked Amount 50.000		Recovery =	10.23%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.531	567765	4.861 ug/ml
2) T Naphthalene (C11.7)	6.073	645777	4.766 ug/ml
3) T 2-Methylnaphthalene (...)	7.125	680113	4.769 ug/ml
5) T Acenaphthylene (C15.06)	8.403	815201	5.271 ug/ml
7) T Acenaphthene (C15.5)	8.698	729990	4.841 ug/ml
8) T Fluorene (C16.55)	9.478	761978	4.942 ug/ml
9) T Phenanthrene (C19.36)	10.876	794338	4.981 ug/ml
10) T Anthracene (C19.43)	10.950	771653	4.894 ug/ml
12) T Fluoranthene (C21.85)	12.689	788335	4.973 ug/ml
13) T Pyrene (C20.8)	12.987	789374	4.987 ug/ml
14) T Benzo[a]anthracene (C...	14.858	727599	4.913 ug/ml
15) T Chrysene (C27.41)	14.899	741535	4.969 ug/ml
16) T benzo[b]fluoranthene ...	16.407	695435	4.937 ug/ml
17) T Bnezo[k]fluoranthene ...	16.438	663769	4.997 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.786	682853	4.993 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.148	609479	4.973 ug/ml
20) T Dibenz[a,h]anthracene...	18.189	673629	5.329 ug/ml
21) T Benzo[g,h,i]perylene ...	18.402	636723	4.976 ug/ml

(f)=RT Delta > 1/2 Window

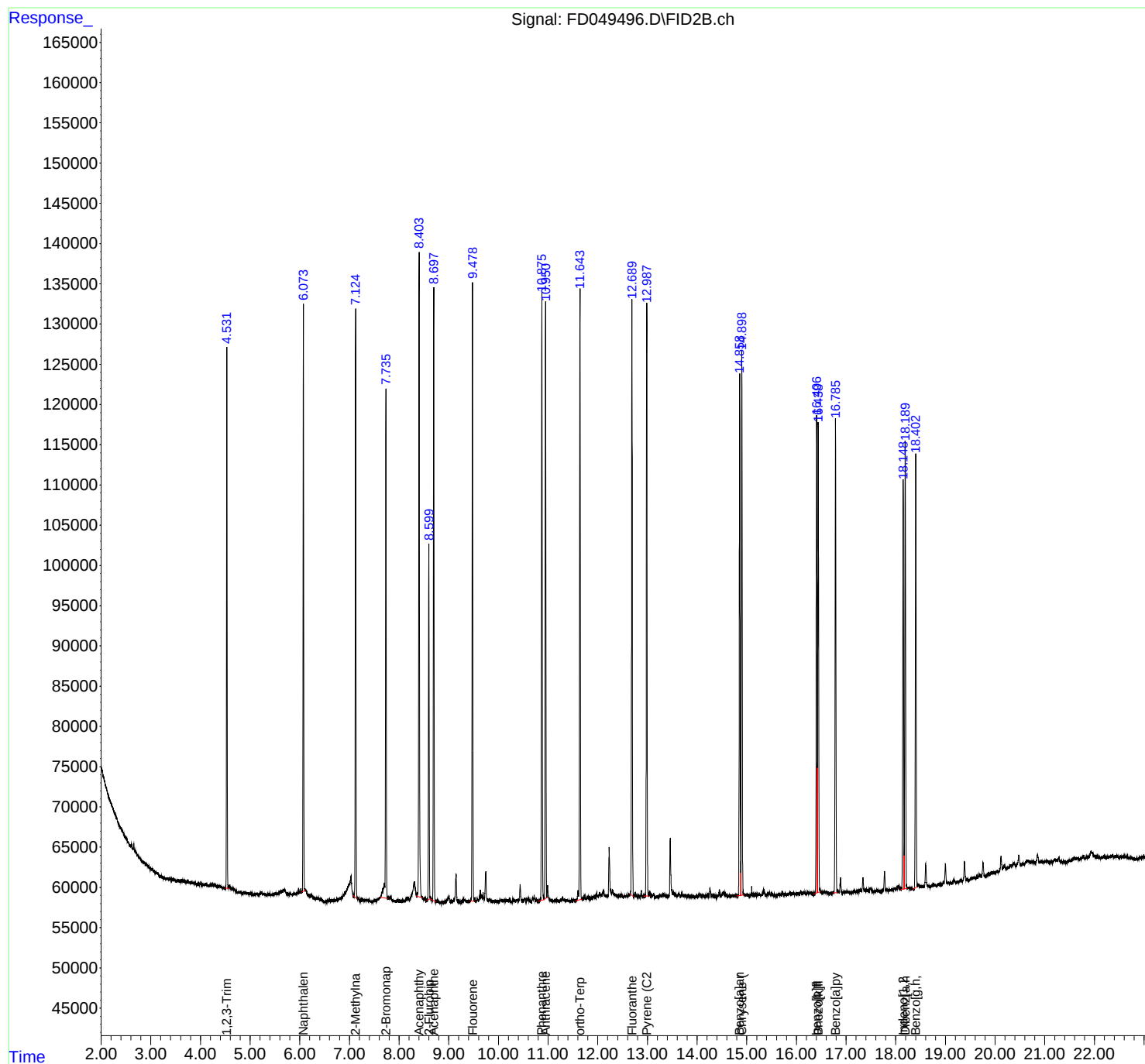
(m)=manual int.

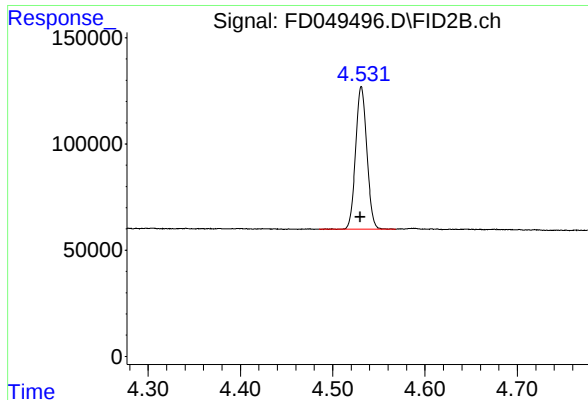
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
Data File : FD049496.D
Signal(s) : FID2B.ch
Acq On : 18 Jun 2025 14:45
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Jun 18 15:16:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 13:44:12 2025
Response via : Initial Calibration
Integrator: ChemStation

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

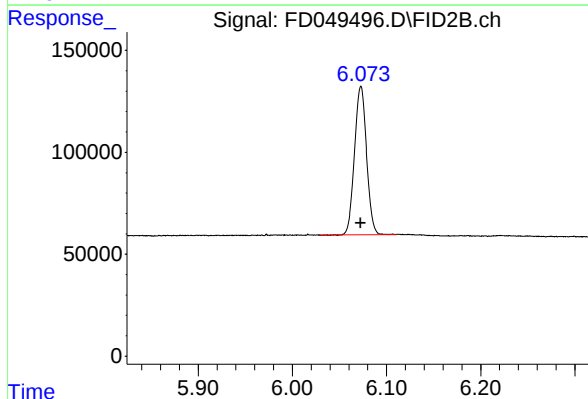




#1 1,2,3-Trimethylbenzene (C10.1)

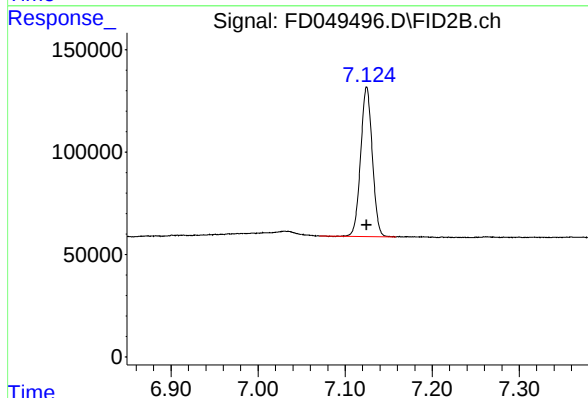
R.T.: 4.531 min
Delta R.T.: 0.001 min
Response: 567765
Conc: 4.86 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



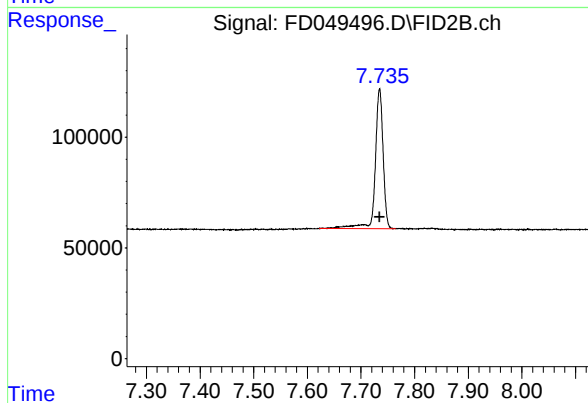
#2 Naphthalene (C11.7)

R.T.: 6.073 min
Delta R.T.: 0.000 min
Response: 645777
Conc: 4.77 ug/ml



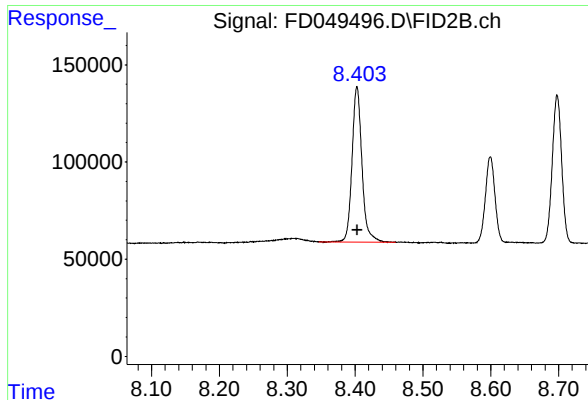
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.125 min
Delta R.T.: 0.000 min
Response: 680113
Conc: 4.77 ug/ml



#4 2-Bromonaphthalene (SURR)

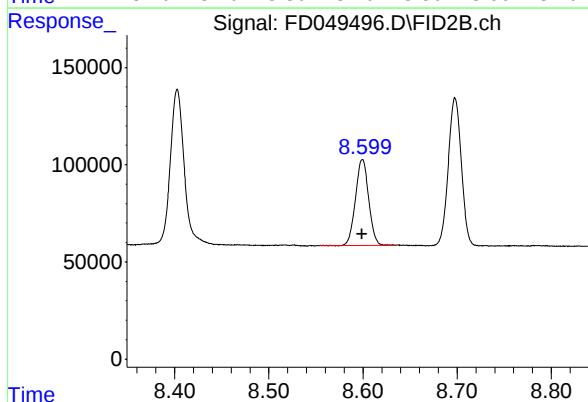
R.T.: 7.735 min
Delta R.T.: 0.000 min
Response: 645915
Conc: 5.08 ug/ml



#5 Acenaphthylene (C15.06)

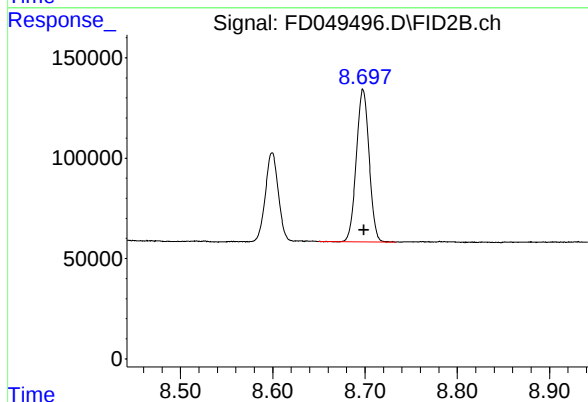
R.T.: 8.403 min
Delta R.T.: 0.000 min
Response: 815201
Conc: 5.27 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



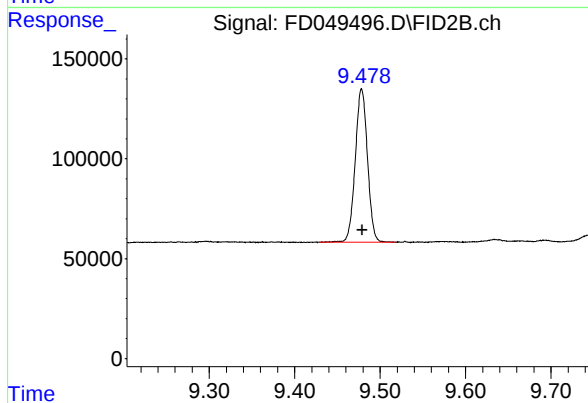
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.599 min
Delta R.T.: 0.000 min
Response: 429350
Conc: 4.80 ug/ml



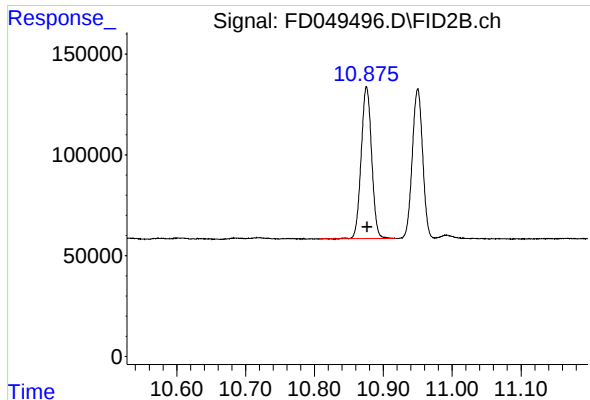
#7 Acenaphthene (C15.5)

R.T.: 8.698 min
Delta R.T.: 0.000 min
Response: 729990
Conc: 4.84 ug/ml



#8 Flouorene (C16.55)

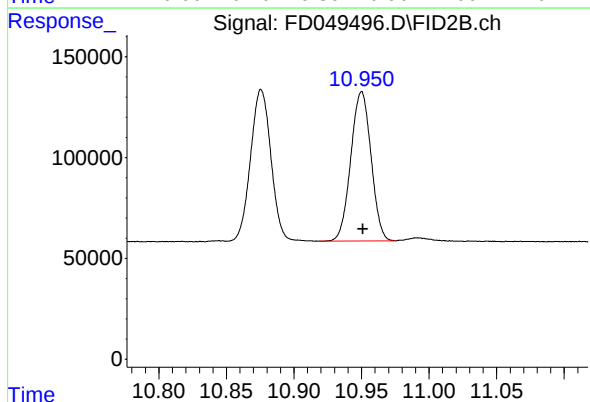
R.T.: 9.478 min
Delta R.T.: 0.000 min
Response: 761978
Conc: 4.94 ug/ml



#9 Phenanthrene (C19.36)

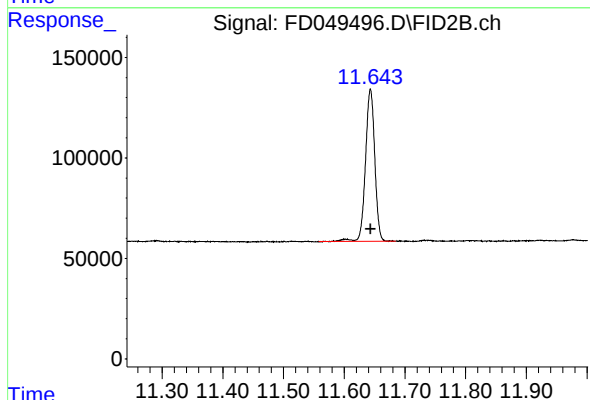
R.T.: 10.876 min
Delta R.T.: -0.001 min
Response: 794338
Conc: 4.98 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



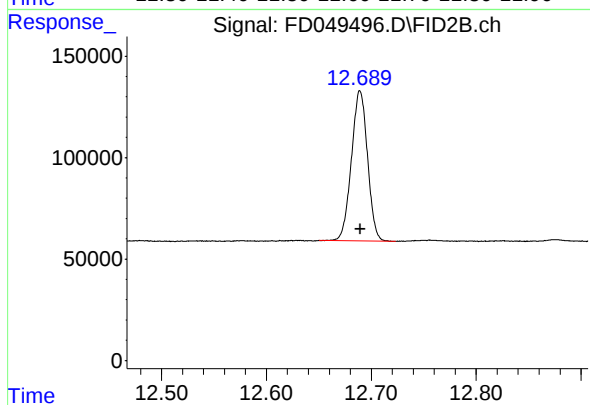
#10 Anthracene (C19.43)

R.T.: 10.950 min
Delta R.T.: -0.001 min
Response: 771653
Conc: 4.89 ug/ml



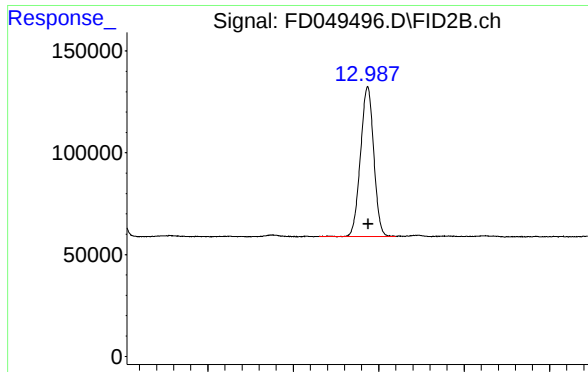
#11 ortho-Terphenyl (SURR)

R.T.: 11.643 min
Delta R.T.: 0.000 min
Response: 807564
Conc: 5.12 ug/ml



#12 Fluoranthene (C21.85)

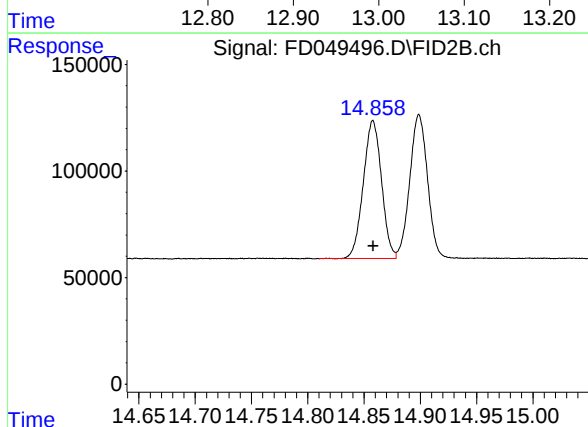
R.T.: 12.689 min
Delta R.T.: 0.000 min
Response: 788335
Conc: 4.97 ug/ml



#13 Pyrene (C20.8)

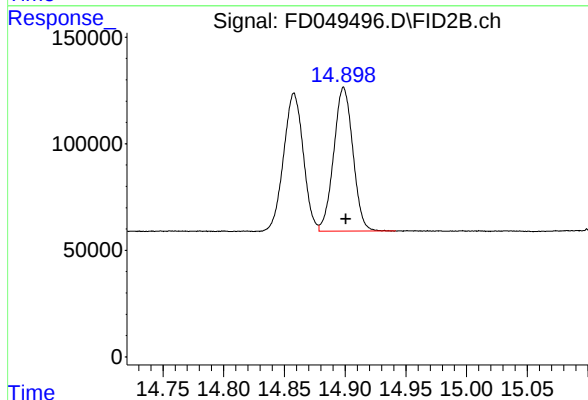
R.T.: 12.987 min
Delta R.T.: 0.000 min
Response: 789374
Conc: 4.99 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



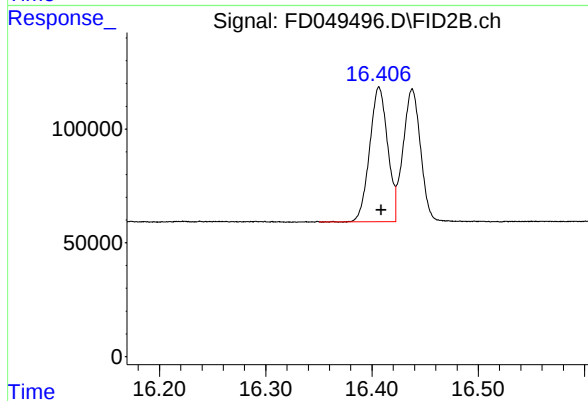
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.858 min
Delta R.T.: 0.000 min
Response: 727599
Conc: 4.91 ug/ml



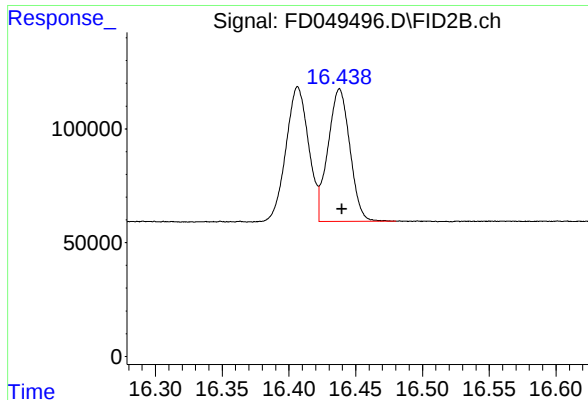
#15 Chrysene (C27.41)

R.T.: 14.899 min
Delta R.T.: -0.002 min
Response: 741535
Conc: 4.97 ug/ml



#16 benzo[b]fluoranthene (C30.41)

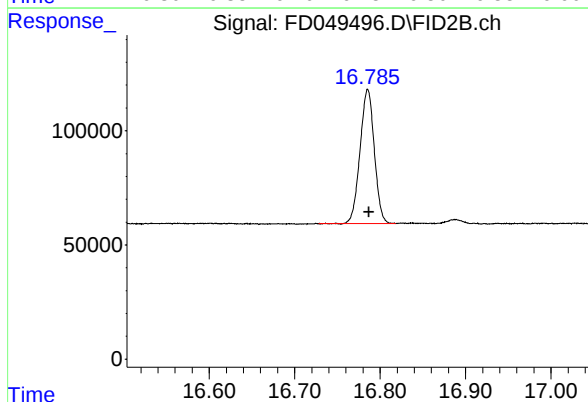
R.T.: 16.407 min
Delta R.T.: -0.002 min
Response: 695435
Conc: 4.94 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

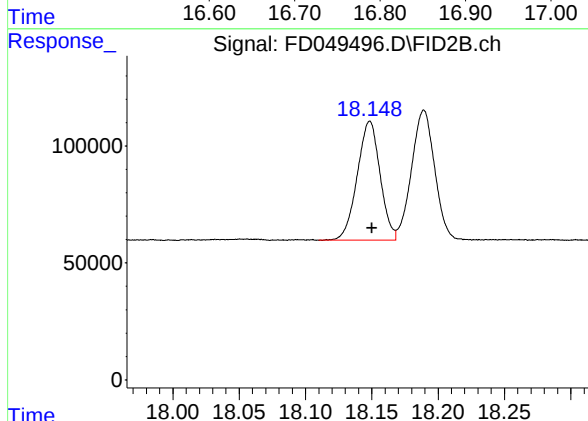
R.T.: 16.438 min
Delta R.T.: -0.002 min
Response: 663769
Conc: 5.00 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



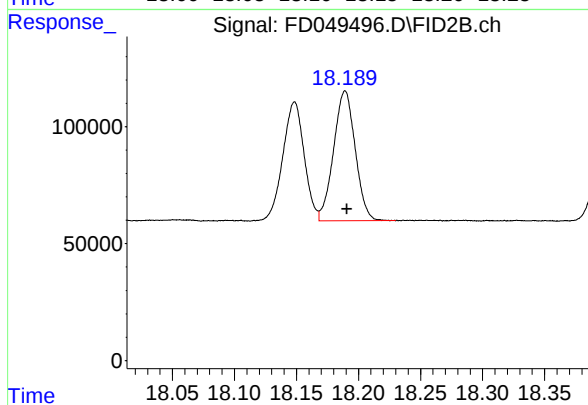
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.786 min
Delta R.T.: -0.002 min
Response: 682853
Conc: 4.99 ug/ml



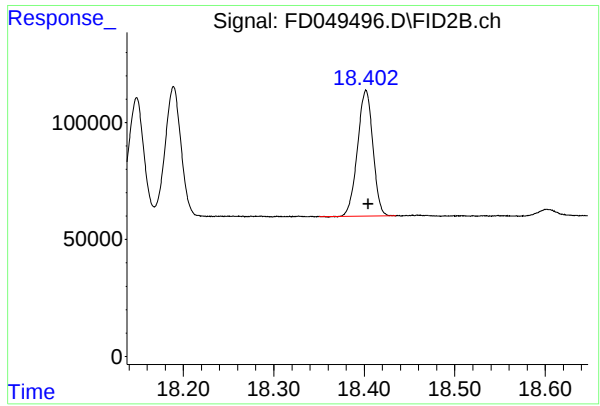
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.148 min
Delta R.T.: -0.002 min
Response: 609479
Conc: 4.97 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.189 min
Delta R.T.: -0.001 min
Response: 673629
Conc: 5.33 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.402 min
Delta R.T.: -0.003 min
Response: 636723
Conc: 4.98 ug/ml

Instrument :

FID_D

ClientSampleId :

5 PPM AROMATIC HC STD5

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
 Data File : FD049497.D
 Signal(s) : FID2B.ch
 Acq On : 18 Jun 2025 15:28
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD ICV
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Jun 18 16:14:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 15:23:20 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...	7.735	2514291	19.719 ug/ml
Spiked Amount 50.000		Recovery =	39.44%
6) S 2-Fluorobiphenyl (SURR)	8.600	1796897	20.238 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	40.48%
11) S ortho-Terphenyl (SURR)	11.645	3183393	20.073 ug/ml
Spiked Amount 50.000		Recovery =	40.15%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.530	2340364	20.151 ug/ml
2) T Naphthalene (C11.7)	6.073	2703465	20.141 ug/ml
3) T 2-Methylnaphthalene (...)	7.125	2847225	20.152 ug/ml
5) T Acenaphthylene (C15.06)	8.404	3111156	19.900 ug/ml
7) T Acenaphthene (C15.5)	8.700	3023357	20.179 ug/ml
8) T Fluorene (C16.55)	9.480	3099980	20.151 ug/ml
9) T Phenanthrene (C19.36)	10.879	3214775	20.173 ug/ml
10) T Anthracene (C19.43)	10.953	3164271	20.154 ug/ml
12) T Fluoranthene (C21.85)	12.692	3206127	20.248 ug/ml
13) T Pyrene (C20.8)	12.991	3206834	20.269 ug/ml
14) T Benzo[a]anthracene (C...	14.862	3016203	20.438 ug/ml
15) T Chrysene (C27.41)	14.905	3042411	20.411 ug/ml
16) T benzo[b]fluoranthene ...	16.412	2887507	20.550 ug/ml
17) T Bnezo[k]fluoranthene ...	16.444	2727136	20.533 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.791	2809773	20.552 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.154	2494786	20.377 ug/ml
20) T Dibenz[a,h]anthracene...	18.196	2624859	20.497 ug/ml
21) T Benzo[g,h,i]perylene ...	18.411	2630799	20.581 ug/ml

(f)=RT Delta > 1/2 Window

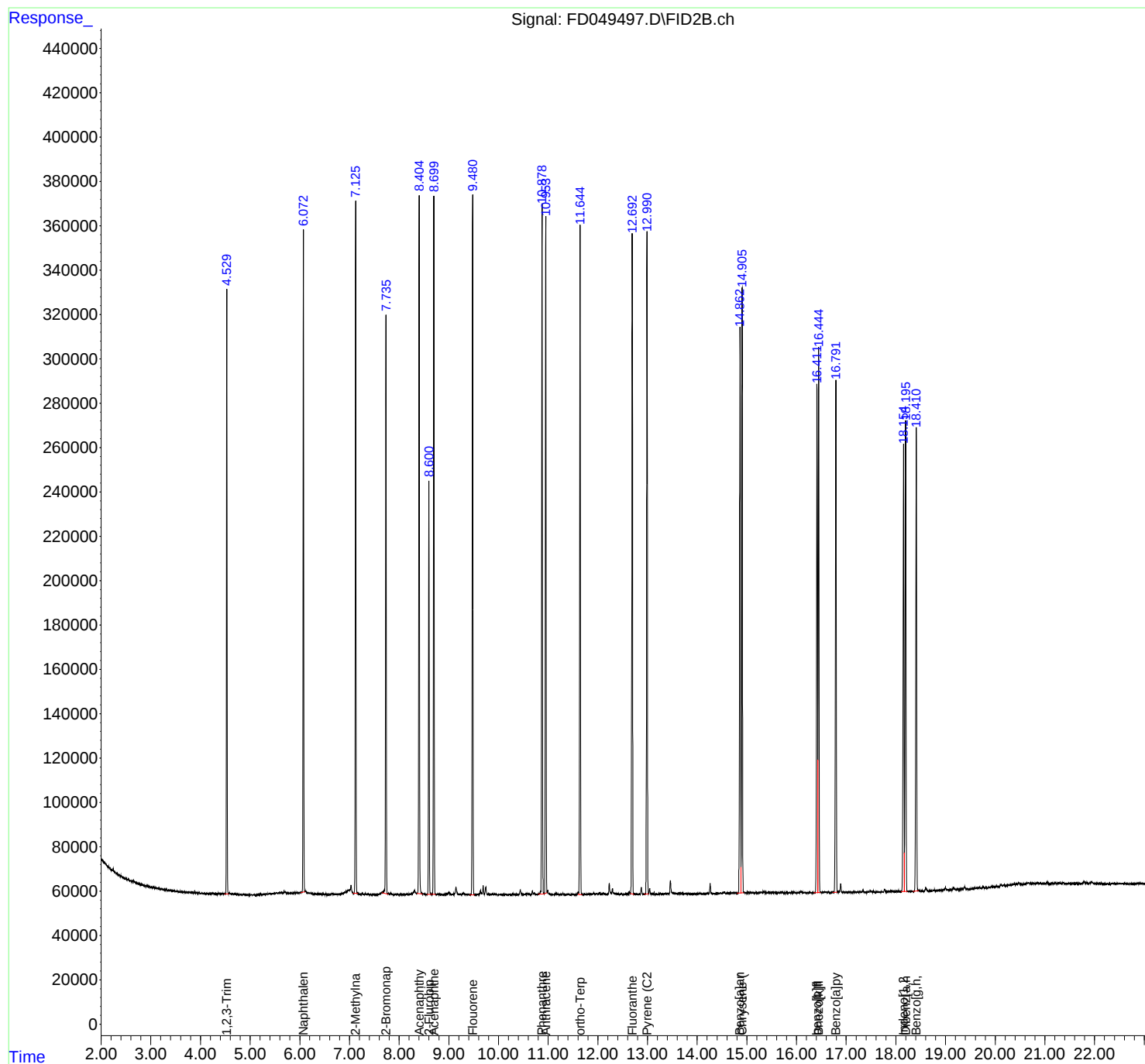
(m)=manual int.

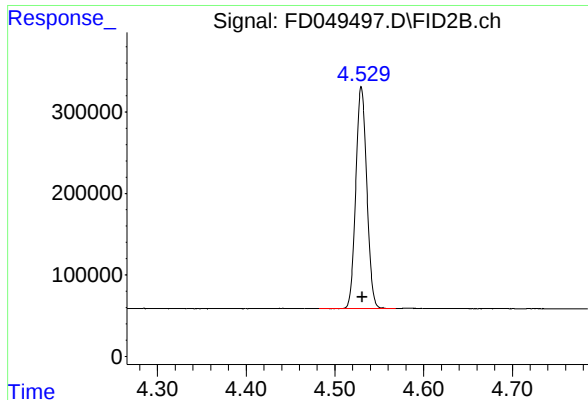
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD061825AR\
Data File : FD049497.D
Signal(s) : FID2B.ch
Acq On : 18 Jun 2025 15:28
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jun 18 16:14:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 15:23:20 2025
Response via : Initial Calibration
Integrator: ChemStation

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

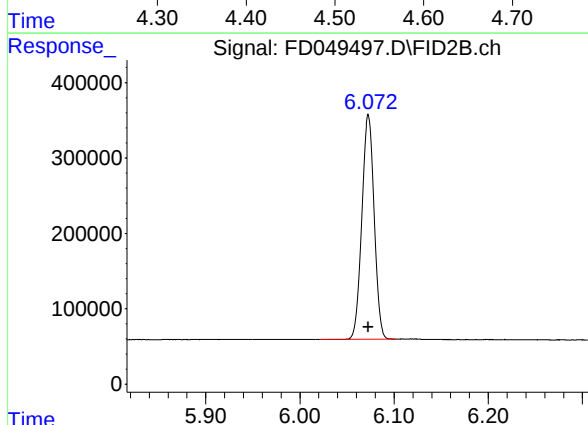




#1 1,2,3-Trimethylbenzene (C10.1)

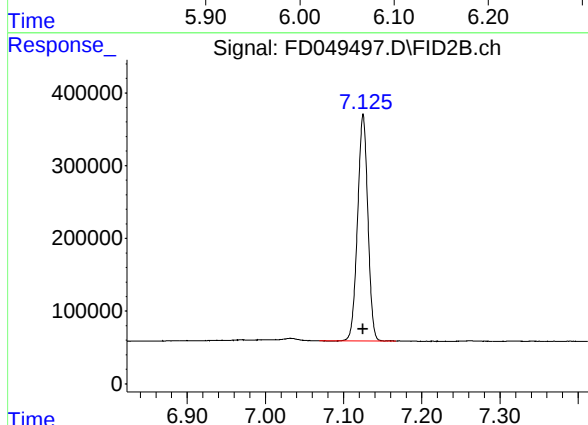
R.T.: 4.530 min
Delta R.T.: -0.001 min
Response: 2340364
Conc: 20.15 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



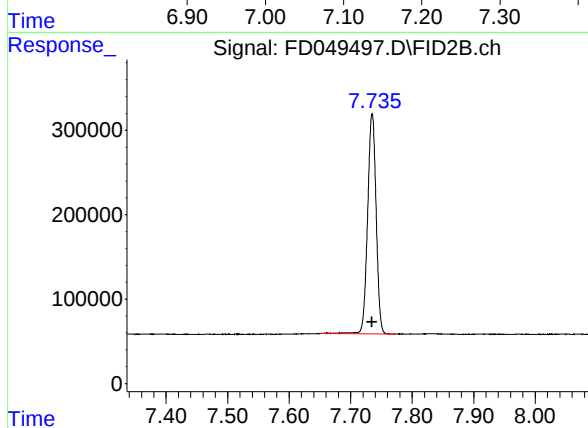
#2 Naphthalene (C11.7)

R.T.: 6.073 min
Delta R.T.: 0.000 min
Response: 2703465
Conc: 20.14 ug/ml



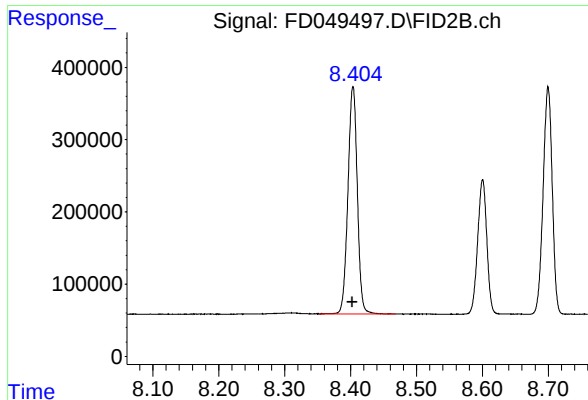
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.125 min
Delta R.T.: 0.000 min
Response: 2847225
Conc: 20.15 ug/ml



#4 2-Bromonaphthalene (SURR)

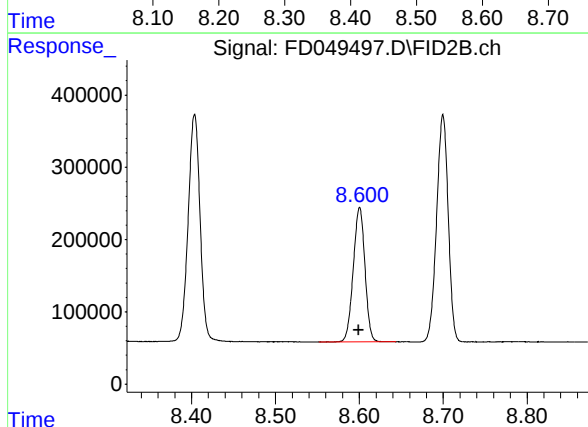
R.T.: 7.735 min
Delta R.T.: 0.000 min
Response: 2514291
Conc: 19.72 ug/ml



#5 Acenaphthylene (C15.06)

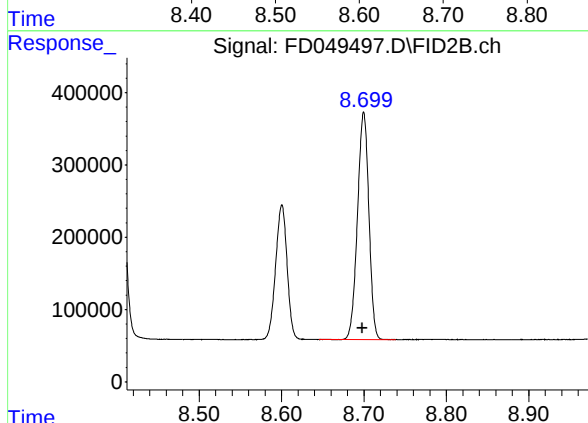
R.T.: 8.404 min
Delta R.T.: 0.000 min
Response: 3111156
Conc: 19.90 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



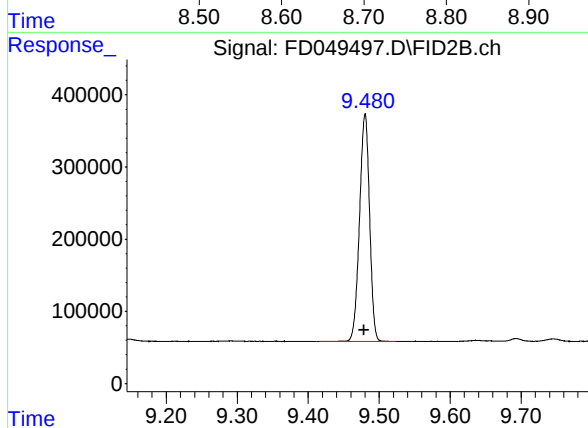
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.600 min
Delta R.T.: 0.001 min
Response: 1796897
Conc: 20.24 ug/ml



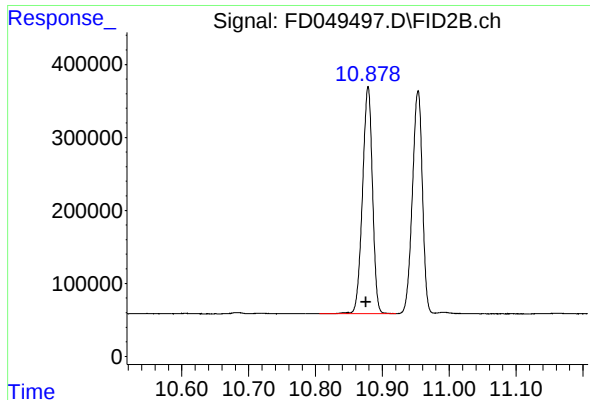
#7 Acenaphthene (C15.5)

R.T.: 8.700 min
Delta R.T.: 0.002 min
Response: 3023357
Conc: 20.18 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.480 min
Delta R.T.: 0.002 min
Response: 3099980
Conc: 20.15 ug/ml



#9 Phenanthrene (C19.36)

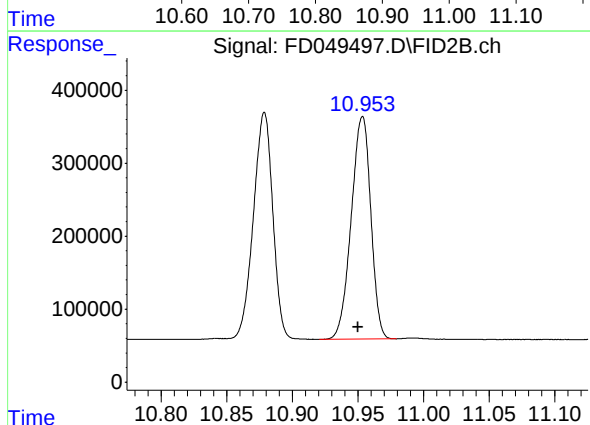
R.T.: 10.879 min
Delta R.T.: 0.003 min
Response: 3214775
Conc: 20.17 ug/ml

Instrument :

FID_D

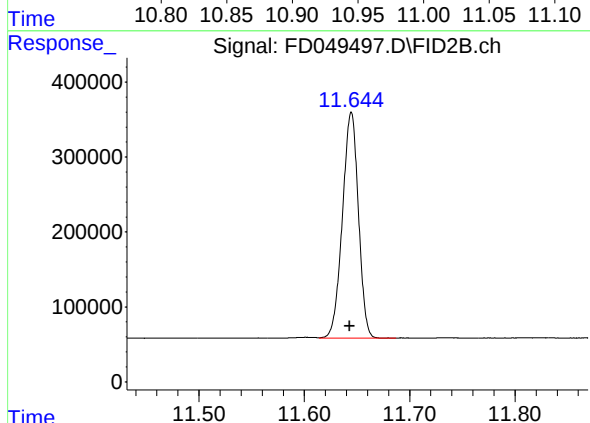
ClientSampleId :

20 PPM AROMATIC HC STD ICV



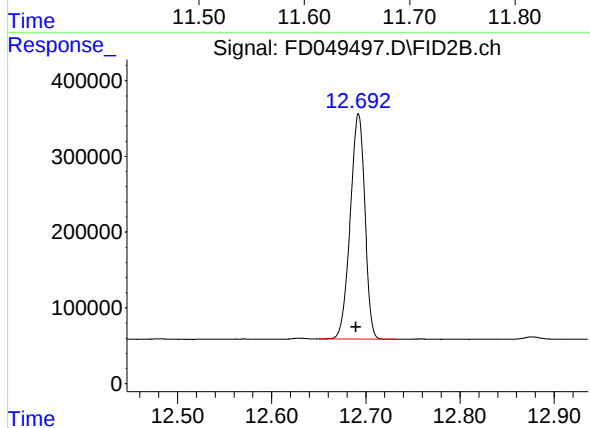
#10 Anthracene (C19.43)

R.T.: 10.953 min
Delta R.T.: 0.003 min
Response: 3164271
Conc: 20.15 ug/ml



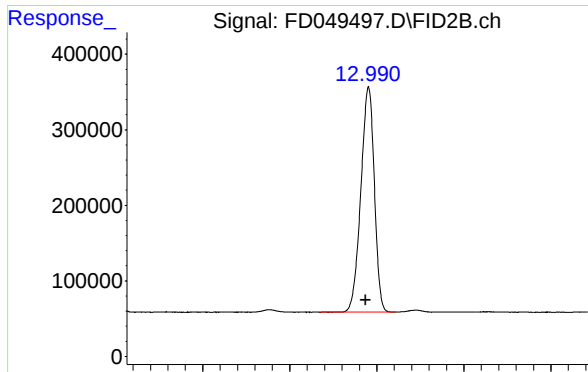
#11 ortho-Terphenyl (SURR)

R.T.: 11.645 min
Delta R.T.: 0.001 min
Response: 3183393
Conc: 20.07 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.692 min
Delta R.T.: 0.003 min
Response: 3206127
Conc: 20.25 ug/ml



#13 Pyrene (C20.8)

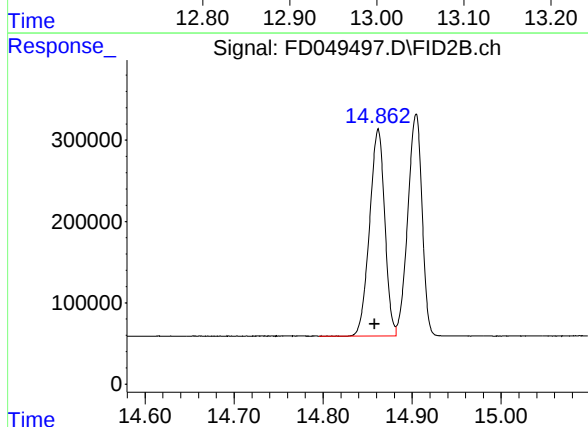
R.T.: 12.991 min
Delta R.T.: 0.003 min
Response: 3206834
Conc: 20.27 ug/ml

Instrument :

FID_D

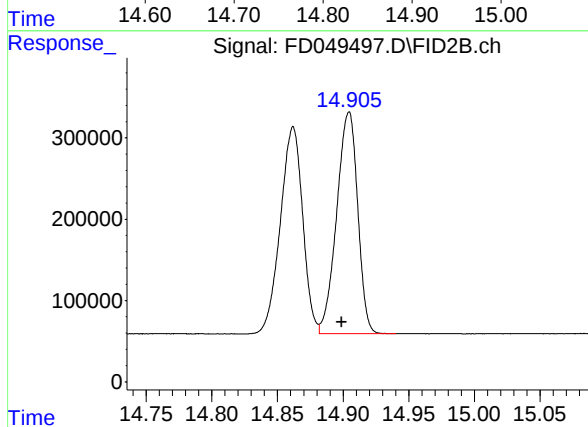
ClientSampleId :

20 PPM AROMATIC HC STD ICV



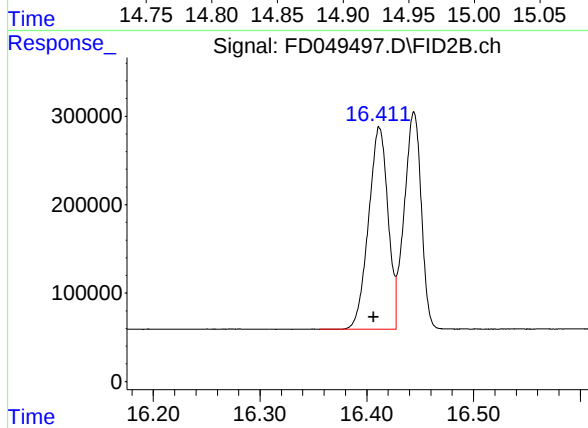
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.862 min
Delta R.T.: 0.004 min
Response: 3016203
Conc: 20.44 ug/ml



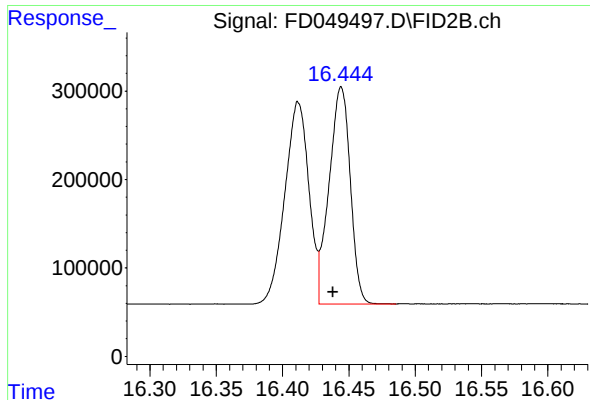
#15 Chrysene (C27.41)

R.T.: 14.905 min
Delta R.T.: 0.006 min
Response: 3042411
Conc: 20.41 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.412 min
Delta R.T.: 0.005 min
Response: 2887507
Conc: 20.55 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

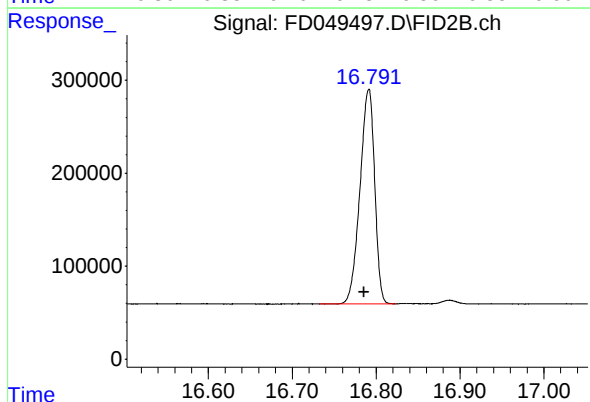
R.T.: 16.444 min
Delta R.T.: 0.006 min
Response: 2727136
Conc: 20.53 ug/ml

Instrument :

FID_D

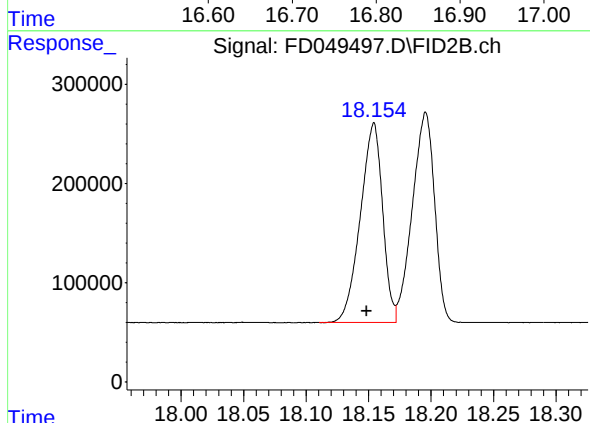
ClientSampleId :

20 PPM AROMATIC HC STD ICV



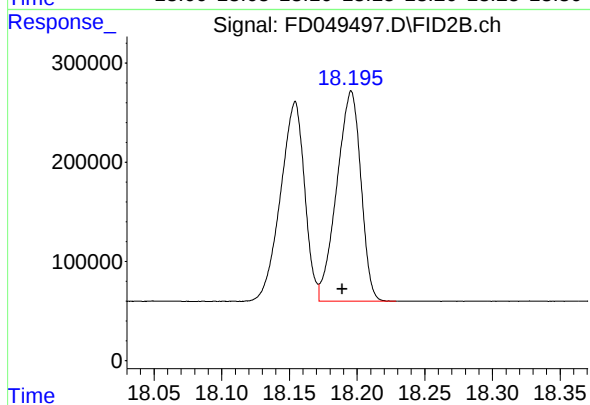
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.791 min
Delta R.T.: 0.006 min
Response: 2809773
Conc: 20.55 ug/ml



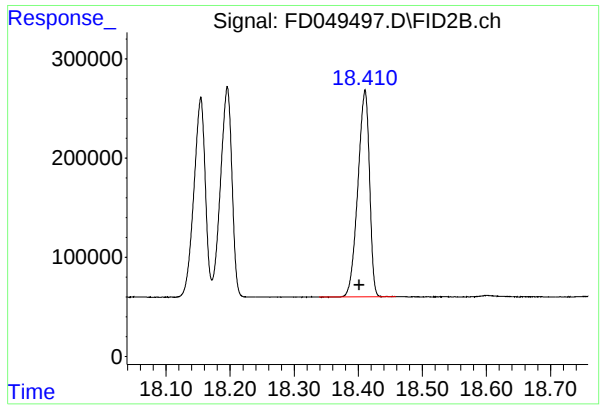
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.154 min
Delta R.T.: 0.006 min
Response: 2494786
Conc: 20.38 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.196 min
Delta R.T.: 0.006 min
Response: 2624859
Conc: 20.50 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.411 min
Delta R.T.: 0.009 min
Response: 2630799
Conc: 20.58 ug/ml

Instrument :

FID_D

ClientSampleId :

20 PPM AROMATIC HC STD ICV

Continuing Calibration Report for SequenceID : FC062525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC069277.D

Aliphatic C9-C12	8858286.000	60.000	3.306	6.605	147638.100	146679.627	-0.653
Aliphatic C12-C16	6280070.000	40.000	6.606	10.009	157001.750	159210.532	1.387
Aliphatic C16-C21	8934077.000	60.000	10.010	13.380	148901.283	154434.323	3.583
Aliphatic C21-C28	10815098.000	80.000	13.381	17.044	135188.725	133966.368	-0.912
Aliphatic C28-C40	12065799.000	120.000	17.045	22.027	100548.325	92124.417	-9.144
Aliphatic EPH	46953330.000	360.000	3.306	22.027	130425.917	128354.160	-1.614

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	25 Jun 2025 09:59
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069277.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.306	6.605	8858286.000	60.000	ug/ml
Aliphatic C12-C16	6.606	10.009	6280070.000	40.000	ug/ml
Aliphatic C16-C21	10.010	13.380	8934077.000	60.000	ug/ml
Aliphatic C21-C28	13.381	17.044	10815098.000	80.000	ug/ml
Aliphatic C28-C40	17.045	22.027	12065799.000	120.000	ug/ml
Aliphatic EPH	3.306	22.027	46953330.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
 Data File : FC069277.D
 Signal(s) : FID1A.ch
 Acq On : 25 Jun 2025 09:59
 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

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/26/2025
 Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
 Quant Time: Jun 26 05:16:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 14:24:27 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)	11.677	3548939	20.543 ug/ml
Spiked Amount 50.000		Recovery =	41.09%
12) S 1-chlorooctadecane (S...	13.112	2691907	20.605 ug/ml
Spiked Amount 50.000		Recovery =	41.21%
Target Compounds			
1) T n-Nonane (C9)	3.406	2832388	19.916 ug/ml
2) T n-Decane (C10)	4.479	2957194	20.200 ug/ml
3) T A~Naphthalene (C11.7)	6.074	3248955	20.193 ug/ml
4) T n-Dodecane (C12)	6.505	3068704	20.266 ug/ml
5) T A~2-methylnaphthalene...	7.134	3270511	20.667 ug/ml
6) T n-Tetradecane (C14)	8.304	3121204	20.136 ug/ml
7) T n-Hexadecane (C16)	9.909	3158866	19.330 ug/ml
8) T n-Octadecane (C18)	11.354	3096150	18.963 ug/ml
10) T n-Eicosane (C20)	12.666	2958040	19.379 ug/ml
11) T n-Heneicosane (C21)	13.280	2879887	19.539 ug/ml
13) T n-Docosane (C22)	13.867	2823893	19.626 ug/ml
14) T n-Tetracosane (C24)	14.972	2742626	19.884 ug/ml
15) T n-Hexacosane (C26)	15.994	2639506	20.192 ug/ml
16) T n-Octacosane (C28)	16.944	2609073	21.155 ug/mlm
17) T n-Tricontane (C30)	17.833	2704814	22.752 ug/ml
18) T n-Dotriacontane (C32)	18.668	2674645	24.462 ug/ml
19) T n-Tetratriacontane (C34)	19.453	2341356	24.246 ug/ml
20) T n-Hexatriacontane (C36)	20.195	1878717	22.797 ug/ml
21) T n-Octatriacontane (C38)	20.961	1367451	18.298 ug/ml
22) T n-Tetracontane (C40)	21.927	1098816	15.516 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069277.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 09:59
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

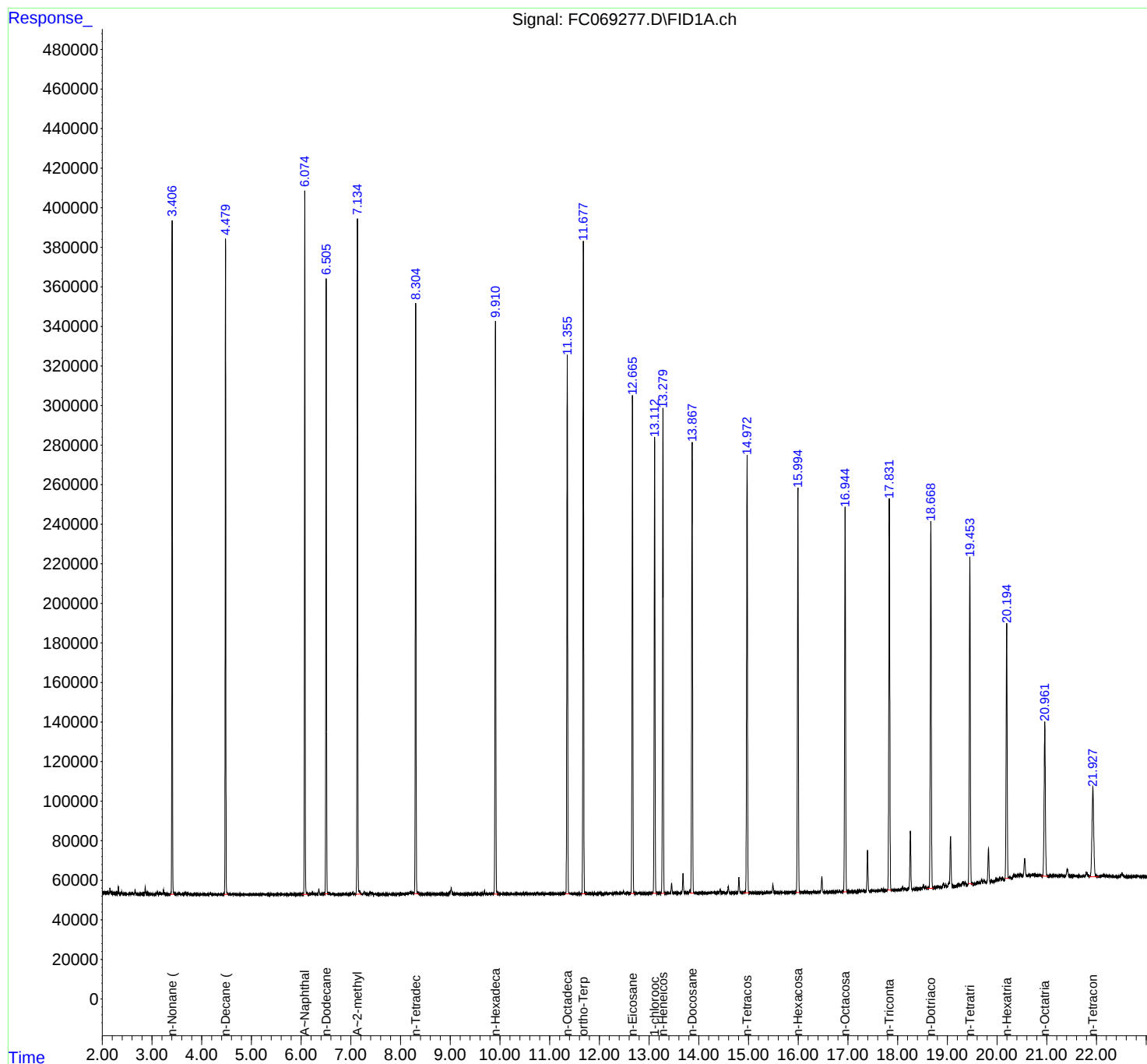
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:16:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 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

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD
Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06252
Data File : FC069277.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 09:59
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.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	3.406	3.367	3.447	BV	341820	2832388	79.81%	4.747%
2	4.479	4.448	4.537	BB	333183	2957194	83.33%	4.956%
3	6.074	6.023	6.143	BB	357111	3248955	91.55%	5.445%
4	6.505	6.465	6.548	BB	311248	3068704	86.47%	5.143%
5	7.134	7.093	7.212	BB	339860	3270511	92.15%	5.481%
6	8.304	8.268	8.378	BB	299145	3121204	87.95%	5.231%
7	9.909	9.868	9.973	BB	290795	3158866	89.01%	5.294%
8	11.354	11.313	11.400	BB	271701	3096150	87.24%	5.189%
9	11.677	11.640	11.737	BB	329063	3548939	100.00%	5.947%
10	12.666	12.625	12.713	BB	251822	2958040	83.35%	4.957%
11	13.112	13.067	13.160	BB	230561	2691907	75.85%	4.511%
12	13.280	13.235	13.325	BB	245757	2879887	81.15%	4.826%
13	13.867	13.831	13.908	VB	228096	2823893	79.57%	4.732%
14	14.972	14.900	15.017	BB	220629	2742626	77.28%	4.596%
15	15.994	15.950	16.033	BB	203847	2639506	74.37%	4.423%
16	16.944	16.798	16.985	BB	192352	2620445	73.84%	4.391%
17	17.833	17.800	17.878	BB	195563	2704814	76.21%	4.533%
18	18.668	18.595	18.732	BB	185730	2674645	75.36%	4.482%
19	19.453	19.420	19.518	BB	165708	2341356	65.97%	3.924%
20	20.195	20.160	20.232	BV	129336	1878717	52.94%	3.148%
21	20.961	20.883	21.028	BB	77806	1367451	38.53%	2.292%
22	21.927	21.880	22.003	BB	44767	1045061	29.45%	1.751%
Sum of corrected areas:						59671258		

Aliphatic EPH 061825.M Thu Jun 26 05:34:40 2025

Continuing Calibration Report for SequenceID : FC062525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC069286.D

Aliphatic C9-C12	8996087.000	60.000	3.306	6.605	149934.783	146679.627	-2.219
Aliphatic C12-C16	6473761.000	40.000	6.606	10.009	161844.025	159210.532	-1.654
Aliphatic C16-C21	9199380.000	60.000	10.010	13.380	153323.000	154434.323	0.720
Aliphatic C21-C28	11016234.000	80.000	13.381	17.044	137702.925	133966.368	-2.789
Aliphatic C28-C40	12362137.000	120.000	17.045	22.027	103017.808	92124.417	-11.825
Aliphatic EPH	48047599.000	360.000	3.306	22.027	133465.553	128354.160	-3.982

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	25 Jun 2025 17:18
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069286.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.306	6.605	8996087.000	60.000	ug/ml
Aliphatic C12-C16	6.606	10.009	6473761.000	40.000	ug/ml
Aliphatic C16-C21	10.010	13.380	9199380.000	60.000	ug/ml
Aliphatic C21-C28	13.381	17.044	11016234.000	80.000	ug/ml
Aliphatic C28-C40	17.045	22.027	12362137.000	120.000	ug/ml
Aliphatic EPH	3.306	22.027	48047599.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
 Data File : FC069286.D
 Signal(s) : FID1A.ch
 Acq On : 25 Jun 2025 17:18
 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

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/26/2025
 Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
 Quant Time: Jun 26 05:18:48 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 14:24:27 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)	11.677	3639159	21.065 ug/ml
Spiked Amount 50.000		Recovery =	42.13%
12) S 1-chlorooctadecane (S...	13.112	2760807	21.133 ug/ml
Spiked Amount 50.000		Recovery =	42.27%
Target Compounds			
1) T n-Nonane (C9)	3.407	2872280	20.196 ug/ml
2) T n-Decane (C10)	4.480	2997377	20.475 ug/ml
3) T A~Naphthalene (C11.7)	6.074	3305048	20.542 ug/ml
4) T n-Dodecane (C12)	6.505	3126430	20.647 ug/ml
5) T A~2-methylnaphthalene...	7.134	3339375	21.102 ug/ml
6) T n-Tetradecane (C14)	8.304	3215017	20.741 ug/ml
7) T n-Hexadecane (C16)	9.909	3258744	19.941 ug/ml
8) T n-Octadecane (C18)	11.354	3195761	19.573 ug/ml
10) T n-Eicosane (C20)	12.666	3043168	19.937 ug/ml
11) T n-Heneicosane (C21)	13.279	2960451	20.085 ug/ml
13) T n-Docosane (C22)	13.866	2896661	20.132 ug/ml
14) T n-Tetracosane (C24)	14.971	2795423	20.267 ug/ml
15) T n-Hexacosane (C26)	15.994	2680095	20.502 ug/ml
16) T n-Octacosane (C28)	16.945	2644055	21.439 ug/ml
17) T n-Tricontane (C30)	17.836	2767737	23.281 ug/ml
18) T n-Dotriacontane (C32)	18.669	2739507	25.056 ug/ml
19) T n-Tetratriacontane (C34)	19.454	2402067	24.875 ug/ml
20) T n-Hexatriacontane (C36)	20.194	1928106	23.396 ug/ml
21) T n-Octatriacontane (C38)	20.962	1404161	18.790 ug/ml
22) T n-Tetracontane (C40)	21.926	1120559	15.824 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069286.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 17:18
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

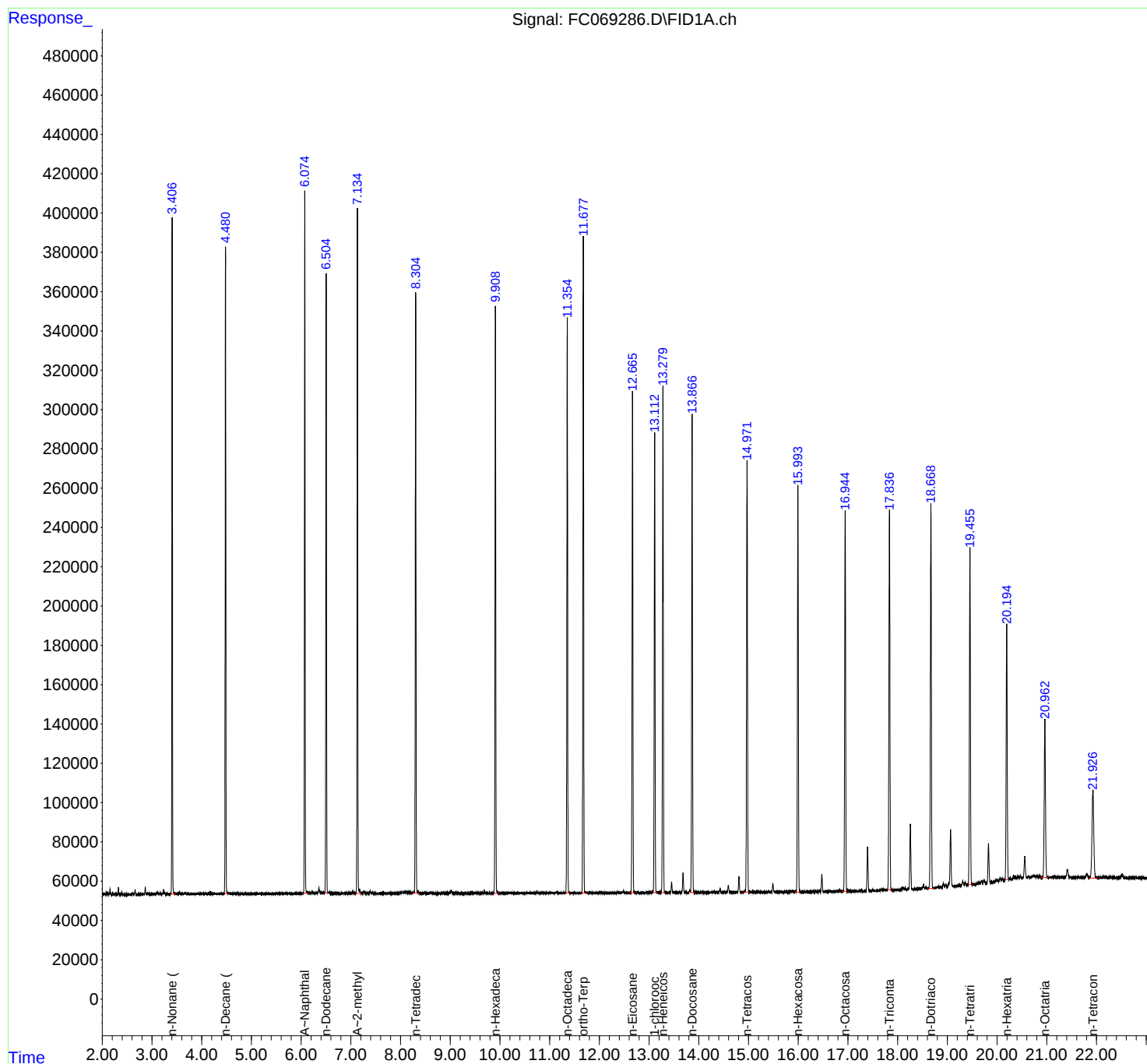
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:18:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rtres

Instrument :
FID_C
LabSampleId :
20 PPM ALIPHATIC HC STD
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06252
Data File : FC069286.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 17:18
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 061825.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	3.407	3.367	3.475	BB	344320	2872280	78.93%	4.705%
2	4.480	4.449	4.534	BB	330427	2997377	82.36%	4.910%
3	6.074	6.034	6.142	BB	357403	3305048	90.82%	5.414%
4	6.505	6.465	6.540	BB	314873	3126430	85.91%	5.122%
5	7.134	7.090	7.207	BB	347691	3339375	91.76%	5.470%
6	8.304	8.242	8.377	BB	304020	3215017	88.35%	5.267%
7	9.909	9.862	9.974	BB	298384	3258744	89.55%	5.338%
8	11.354	11.310	11.409	BB	292801	3195761	87.82%	5.235%
9	11.677	11.635	11.747	BB	335160	3639159	100.00%	5.962%
10	12.666	12.600	12.715	BB	254602	3043168	83.62%	4.985%
11	13.112	13.065	13.155	BB	233613	2760807	75.86%	4.523%
12	13.279	13.234	13.324	BB	257511	2960451	81.35%	4.850%
13	13.866	13.832	13.920	VB	242525	2896661	79.60%	4.745%
14	14.971	14.884	15.022	BB	218387	2795423	76.82%	4.579%
15	15.994	15.929	16.047	BB	206006	2680095	73.65%	4.390%
16	16.945	16.887	16.982	BB	193078	2644055	72.66%	4.331%
17	17.836	17.800	17.879	BB	192488	2767737	76.05%	4.534%
18	18.669	18.592	18.725	BB	195974	2739507	75.28%	4.488%
19	19.454	19.420	19.515	BB	169964	2402067	66.01%	3.935%
20	20.194	20.160	20.232	BV	130156	1928106	52.98%	3.159%
21	20.962	20.885	21.029	BB	80438	1404161	38.58%	2.300%
22	21.928	21.880	22.012	BB	44242	1072856	29.48%	1.758%
Sum of corrected areas:						61044283		

Aliphatic EPH 061825.M Thu Jun 26 05:37:02 2025

Continuing Calibration Report for SequenceID : FD062525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FD049513.D

Aromatic C10-C12	5665606.000	40.000	4.429	6.172	141640.150	125184.053	-13.146
Aromatic C12-C16	9434962.000	60.000	6.173	8.800	157249.367	149149.572	-5.431
Aromatic C16-C21	13095172.000	80.000	8.801	13.090	163689.650	157103.395	-4.192
Aromatic C21-C36	27968135.000	180.000	13.091	18.510	155378.528	138149.872	-12.471
Aromatic EPH	56163875.000	360.000	4.429	18.510	156010.764	142754.403	-9.286

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	25 Jun 2025 09:59
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049513.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.429	6.172	5665606.000	40.000	ug/ml
Aromatic C12-C16	6.173	8.800	9434962.000	60.000	ug/ml
Aromatic C16-C21	8.801	13.090	13095172.000	80.000	ug/ml
Aromatic C21-C36	13.091	18.510	27968135.000	180.000	ug/ml
Aromatic EPH	4.429	18.510	56163875.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
 Data File : FD049513.D
 Signal(s) : FID2B.ch
 Acq On : 25 Jun 2025 09:59
 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 06/26/2025
 Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
 Quant Time: Jun 26 05:36:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 15:23:20 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...	7.735	2758580	21.635 ug/ml
Spiked Amount 50.000		Recovery =	43.27%
6) S 2-Fluorobiphenyl (SURR)	8.600	1976697	22.263 ug/mlm
Spiked Amount 50.000 Range 0 - 131		Recovery =	44.53%
11) S ortho-Terphenyl (SURR)	11.644	3415416	21.536 ug/ml
Spiked Amount 50.000		Recovery =	43.07%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.529	2673240	23.017 ug/ml
2) T Naphthalene (C11.7)	6.072	2992366	22.293 ug/ml
3) T 2-Methylnaphthalene (...)	7.125	3009673	21.302 ug/ml
5) T Acenaphthylene (C15.06)	8.404	3235039	20.693 ug/ml
7) T Acenaphthene (C15.5)	8.700	3190250	21.293 ug/ml
8) T Flouorene (C16.55)	9.481	3349564	21.773 ug/ml
9) T Phenanthrene (C19.36)	10.879	3448282	21.638 ug/ml
10) T Anthracene (C19.43)	10.952	2744689	17.482 ug/ml
12) T Fluoranthene (C21.85)	12.692	3514523	22.196 ug/ml
13) T Pyrene (C20.8)	12.990	3552637	22.455 ug/ml
14) T Benzo[a]anthracene (C...	14.861	3292014	22.306 ug/ml
15) T Chrysene (C27.41)	14.903	3362277	22.557 ug/ml
16) T benzo[b]fluoranthene ...	16.411	3208512	22.834 ug/ml
17) T Bnezo[k]fluoranthene ...	16.444	3141069	23.649 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.790	2818497	20.616 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.154	2673279	21.835 ug/ml
20) T Dibenz[a,h]anthracene...	18.194	3152660	24.618 ug/ml
21) T Benzo[g,h,i]perylene ...	18.410	2805304	21.946 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049513.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 09:59
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

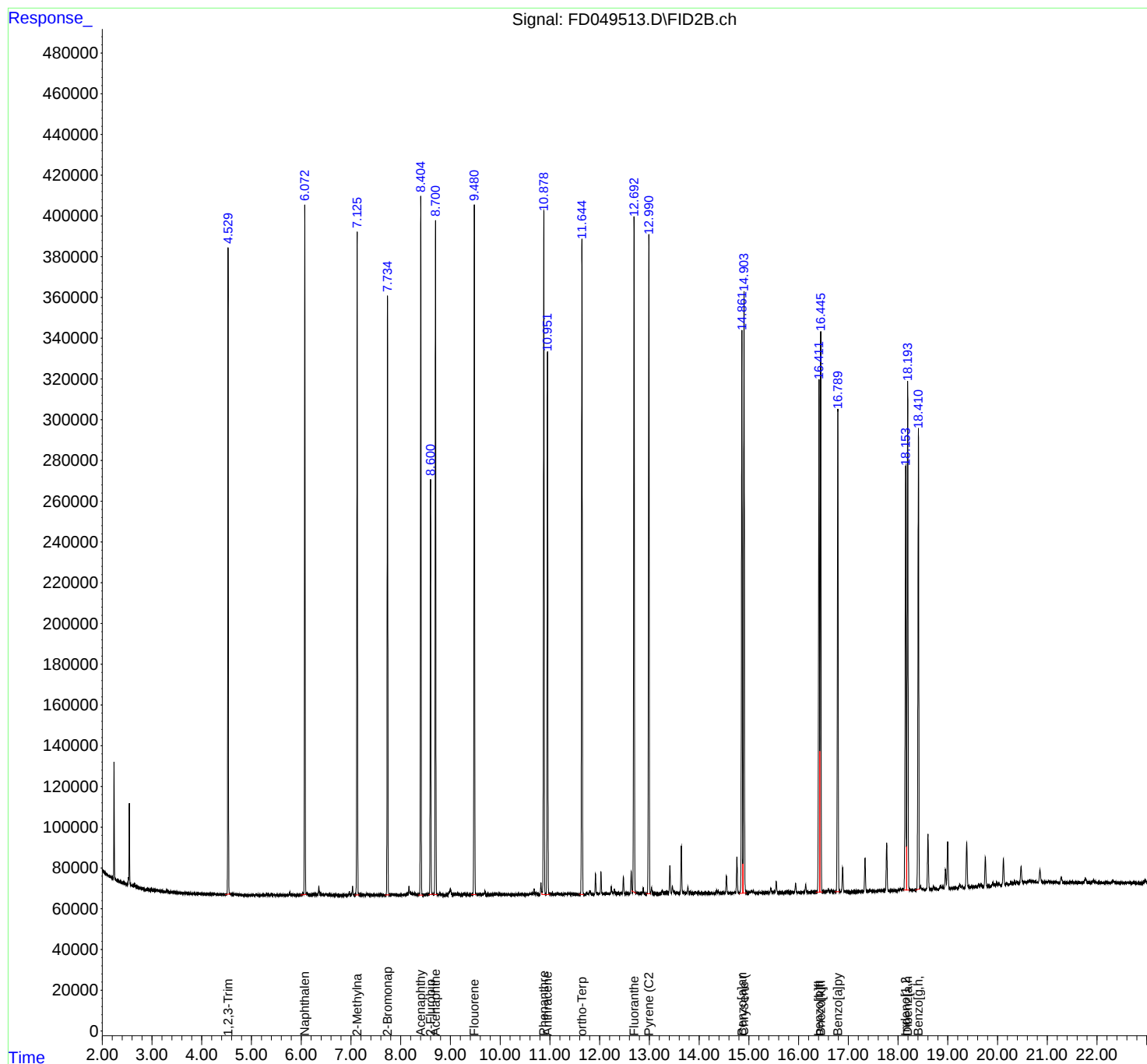
Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:36:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 15:23:20 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 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD06252
Data File : FD049513.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 09:59
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 061825.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	4.529	4.478	4.570	BB	316400	2673240	75.25%	4.157%
2	6.072	5.988	6.108	BV	337562	2992366	84.23%	4.653%
3	7.125	7.072	7.165	BB	324858	3009673	84.72%	4.680%
4	7.735	7.678	7.775	BB	293646	2758580	77.65%	4.290%
5	8.404	8.350	8.450	BB	342314	3235039	91.06%	5.031%
6	8.600	8.510	8.640	BB	203373	1967816	55.39%	3.060%
7	8.700	8.652	8.737	BB	330436	3190250	89.80%	4.961%
8	9.481	9.423	9.517	BB	337593	3349564	94.28%	5.209%
9	10.879	10.838	10.922	VV	334921	3448282	97.06%	5.362%
10	10.952	10.922	11.003	PB	266155	2744689	77.26%	4.268%
11	11.644	11.590	11.682	BB	319883	3415416	96.14%	5.311%
12	12.692	12.650	12.732	BB	330738	3514523	98.93%	5.465%
13	12.990	12.930	13.020	BV	322982	3552637	100.00%	5.525%
14	14.861	14.803	14.880	PV	275955	3292014	92.66%	5.119%
15	14.903	14.880	14.952	VB	294966	3362277	94.64%	5.229%
16	16.411	16.350	16.427	BV	251055	3208512	90.31%	4.989%
17	16.444	16.427	16.483	VB	275949	3141069	88.42%	4.885%
18	16.790	16.732	16.822	BB	236065	2818497	79.34%	4.383%
19	18.154	18.110	18.171	BV	208119	2673279	75.25%	4.157%
20	18.194	18.171	18.235	VB	249365	3152660	88.74%	4.903%
21	18.410	18.342	18.438	BV	225881	2805304	78.96%	4.362%
Sum of corrected areas:						64305686		

Aromatic EPH 061825.M Thu Jun 26 06:03:12 2025

Continuing Calibration Report for SequenceID : FD062525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FD049522.D

Aromatic C10-C12	5218863.000	40.000	4.429	6.172	130471.575	125184.053	-4.224
Aromatic C12-C16	8755996.000	60.000	6.173	8.800	145933.267	149149.572	2.156
Aromatic C16-C21	12149667.000	80.000	8.801	13.090	151870.838	157103.395	3.331
Aromatic C21-C36	26102751.000	180.000	13.091	18.510	145015.283	138149.872	-4.970
Aromatic EPH	52227277.000	360.000	4.429	18.510	145075.769	142754.403	-1.626

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	25 Jun 2025 17:18
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049522.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.429	6.172	5218863.000	40.000	ug/ml
Aromatic C12-C16	6.173	8.800	8755996.000	60.000	ug/ml
Aromatic C16-C21	8.801	13.090	12149667.000	80.000	ug/ml
Aromatic C21-C36	13.091	18.510	26102751.000	180.000	ug/ml
Aromatic EPH	4.429	18.510	52227277.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
 Data File : FD049522.D
 Signal(s) : FID2B.ch
 Acq On : 25 Jun 2025 17:18
 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 06/26/2025
 Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
 Quant Time: Jun 26 05:37:58 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 15:23:20 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...	7.735	2553799	20.029 ug/ml
Spiked Amount 50.000		Recovery =	40.06%
6) S 2-Fluorobiphenyl (SURR)	8.599	1845361	20.783 ug/mlm
Spiked Amount 50.000 Range 0 - 131		Recovery =	41.57%
11) S ortho-Terphenyl (SURR)	11.645	3185364	20.086 ug/ml
Spiked Amount 50.000		Recovery =	40.17%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.529	2457597	21.160 ug/ml
2) T Naphthalene (C11.7)	6.072	2761266	20.572 ug/ml
3) T 2-Methylnaphthalene (...)	7.125	2788688	19.738 ug/ml
5) T Acenaphthylene (C15.06)	8.404	3006017	19.228 ug/ml
7) T Acenaphthene (C15.5)	8.699	2961291	19.765 ug/ml
8) T Flouorene (C16.55)	9.480	3121340	20.290 ug/ml
9) T Phenanthrene (C19.36)	10.878	3187557	20.002 ug/ml
10) T Anthracene (C19.43)	10.952	2535730	16.151 ug/ml
12) T Fluoranthene (C21.85)	12.692	3271092	20.658 ug/ml
13) T Pyrene (C20.8)	12.990	3305040	20.890 ug/ml
14) T Benzo[a]anthracene (C...	14.862	3061786	20.746 ug/ml
15) T Chrysene (C27.41)	14.905	3135084	21.033 ug/ml
16) T benzo[b]fluoranthene ...	16.412	2987765	21.263 ug/ml
17) T Bnezo[k]fluoranthene ...	16.445	2924122	22.016 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.790	2623709	19.191 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.154	2491662	20.351 ug/ml
20) T Dibenz[a,h]anthracene...	18.194	2997436	23.406 ug/ml
21) T Benzo[g,h,i]perylene ...	18.409	2610095	20.419 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049522.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 17:18
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

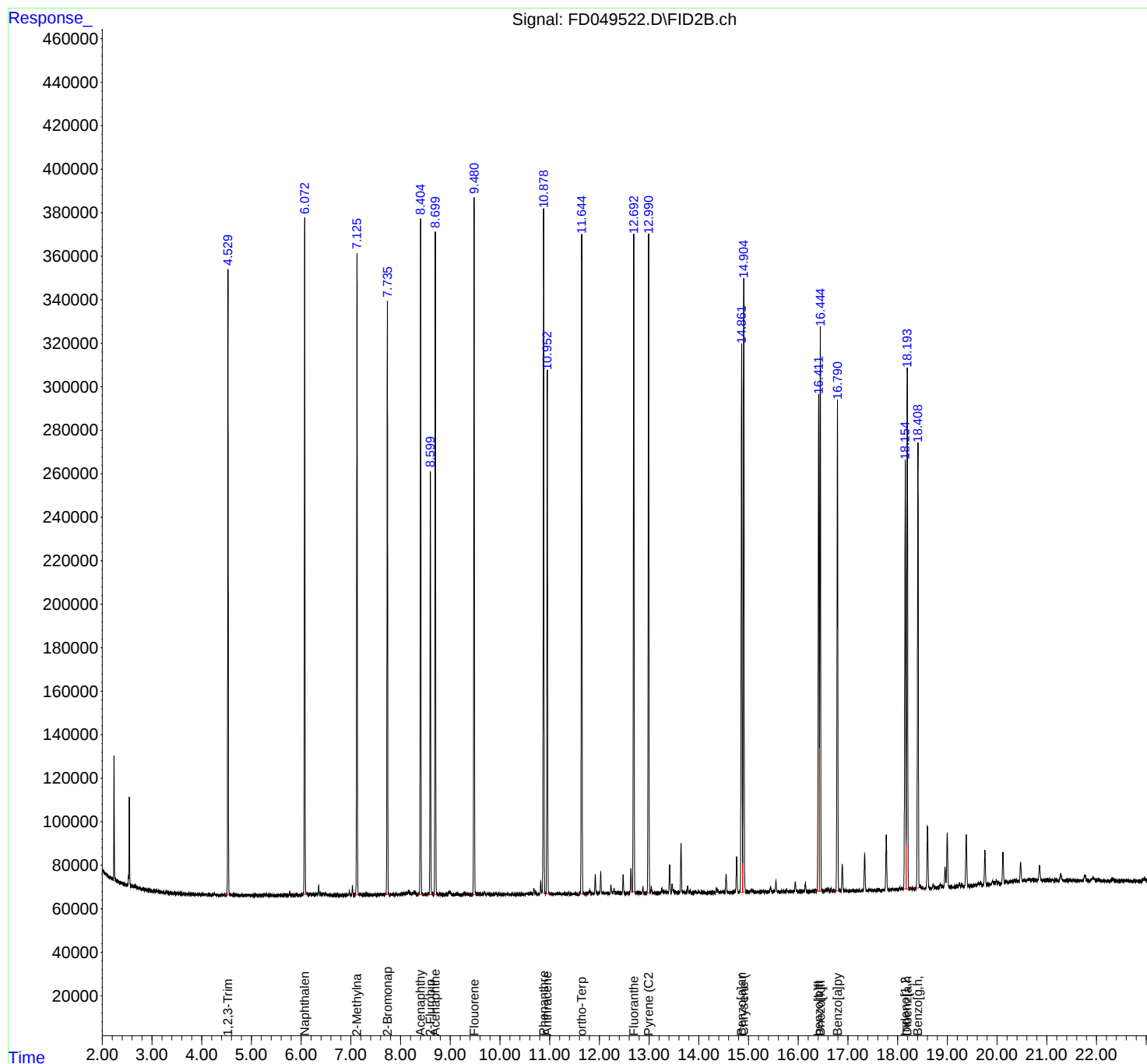
Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:37:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 15:23:20 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 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD06252
Data File : FD049522.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 17:18
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 061825.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	4.529	4.477	4.559	BB	287565	2457597	74.36%	4.110%
2	6.072	6.020	6.104	BB	311008	2761266	83.55%	4.617%
3	7.125	7.064	7.162	BB	294879	2788688	84.38%	4.663%
4	7.735	7.685	7.780	BB	273110	2553799	77.27%	4.270%
5	8.404	8.354	8.459	BB	310836	3006017	90.95%	5.027%
6	8.600	8.517	8.630	BB	193719	1836042	55.55%	3.070%
7	8.699	8.650	8.742	BB	304321	2961291	89.60%	4.952%
8	9.480	9.430	9.529	BB	320113	3121340	94.44%	5.219%
9	10.878	10.849	10.920	BB	314407	3187557	96.45%	5.330%
10	10.952	10.920	10.995	BB	240340	2535730	76.72%	4.240%
11	11.645	11.584	11.677	BV	302416	3185364	96.38%	5.326%
12	12.692	12.650	12.730	BB	301908	3271092	98.97%	5.470%
13	12.990	12.937	13.019	BV	302807	3305040	100.00%	5.527%
14	14.862	14.804	14.882	BV	252290	3061786	92.64%	5.120%
15	14.905	14.882	14.955	VB	282604	3135084	94.86%	5.242%
16	16.412	16.340	16.427	BV	228538	2987765	90.40%	4.996%
17	16.445	16.427	16.479	VB	258956	2924122	88.47%	4.890%
18	16.790	16.725	16.820	BB	225586	2623709	79.39%	4.387%
19	18.154	18.110	18.171	BV	197216	2491662	75.39%	4.166%
20	18.194	18.171	18.227	VB	238805	2997436	90.69%	5.012%
21	18.409	18.337	18.435	BV	204846	2610095	78.97%	4.365%
Sum of corrected areas:						59802478		

Aromatic EPH 061825.M Thu Jun 26 06:06:15 2025



QC SAMPLE DATA

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	PB168603BL	SDG No.:	Q2392
Lab Sample ID:	PB168603BL	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
06/24/25 13:45	06/25/25 10:41	PB168603

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	1	0.14	1.00	mg/kg	FC069278.D
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	1	0.11	0.67	mg/kg	FC069278.D
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	1	0.13	1.00	mg/kg	FC069278.D
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	1	0.53	1.33	mg/kg	FC069278.D
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC069278.D
Aromatic C10-C12	Aromatic C10-C12	0.12	U	1	0.12	0.67	mg/kg	FD049514.D
Aromatic C12-C16	Aromatic C12-C16	0.23	U	1	0.23	1.00	mg/kg	FD049514.D
Aromatic C16-C21	Aromatic C16-C21	0.40	U	1	0.40	1.67	mg/kg	FD049514.D
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1	1.19	2.66	mg/kg	FD049514.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	1.94	U		1.94	6.00	mg/kg	
Total EPH	Total EPH	4.03	U		4.03	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

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	PB168603BL	SDG No.:	Q2392
Lab Sample ID:	PB168603BL	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
FC069278.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.6		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168603BL	Acq On:	25 Jun 2025 10:41
Client Sample ID:	PB168603BL	Operator:	YP/AJ
Data file:	FC069278.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	3.306	6.605	0	0	300	ug/ml
Aliphatic C12-C16	6.606	10.009	0	0	200	ug/ml
Aliphatic C16-C21	10.010	13.380	0	0	300	ug/ml
Aliphatic C21-C28	13.381	17.044	0	0	400	ug/ml
Aliphatic C28-C40	17.045	22.027	0	0	600	ug/ml
Aliphatic EPH	3.306	22.027	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.113	13.113	4122933	31.56		ug/ml
Aliphatic C9-C28	3.306	17.044	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069278.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 10:41
Operator : YP/AJ
Sample : PB168603BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168603BL

Integration File: autoint1.e
Quant Time: Jun 26 05:16:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 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...	13.113	4122933	31.559 ug/ml
Spiked Amount 50.000		Recovery =	63.12%

Target Compounds

(f)=RT Delta > 1/2 Window

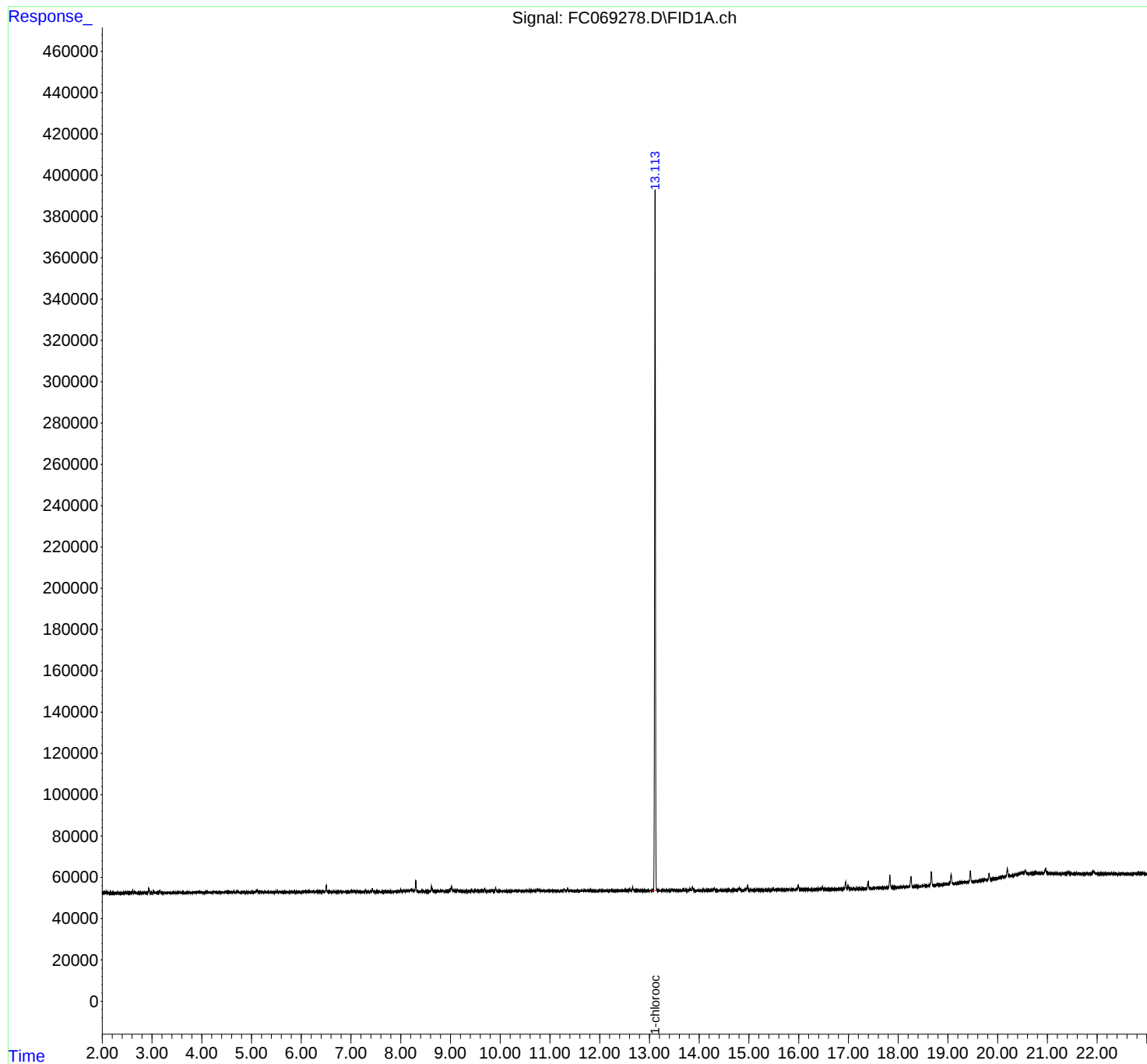
(m)=manual int.

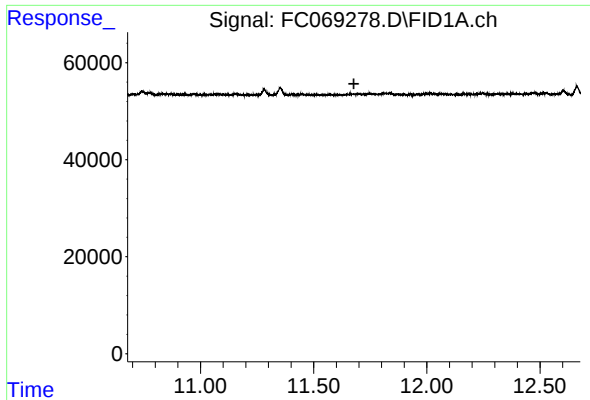
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069278.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 10:41
Operator : YP/AJ
Sample : PB168603BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB168603BL

Integration File: autoint1.e
Quant Time: Jun 26 05:16:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

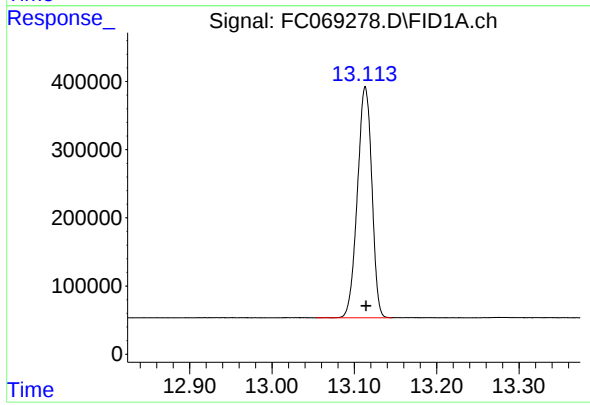




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 11.678 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB168603BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.113 min
Delta R.T.: 0.000 min
Response: 4122933
Conc: 31.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069278.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 10:41
Sample : PB168603BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.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	13.113	13.054	13.145	BB	339011	4122933	100.00%	100.000%
Sum of corrected areas:						4122933		

Aliphatic EPH 061825.M Thu Jun 26 05:34:57 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	PB168603BL	SDG No.:	Q2392
Lab Sample ID:	PB168603BL	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
FD049514.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.12	U	0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.23	U	0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.40	U	0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.0		40 - 140	112%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	57.0		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.7		40 - 140	99%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB168603BL	Acq On:	25 Jun 2025 10:41
Client Sample ID:	PB168603BL	Operator:	YP/AJ
Data file:	FD049514.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	4.429	6.172	0	0	200	ug/ml
Aromatic C12-C16	6.173	8.800	0	0	300	ug/ml
Aromatic C16-C21	8.801	13.090	0	0	500	ug/ml
Aromatic C21-C36	13.091	18.510	0	0	800	ug/ml
Aromatic EPH	4.429	18.510	0	0		ug/ml
ortho-Terphenyl (SURR)	11.648	11.648	7888514	49.74		ug/ml
2-Bromonaphthalene (SURR)	7.737	7.737	7136189	55.97		ug/ml
2-Fluorobiphenyl (SURR)	8.603	8.603	5056456	56.95		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
 Data File : FD049514.D
 Signal(s) : FID2B.ch
 Acq On : 25 Jun 2025 10:41
 Operator : YP/AJ
 Sample : PB168603BL
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 PB168603BL

Integration File: autoint1.e
 Quant Time: Jun 26 05:36:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 15:23:20 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...	7.737	7136189	55.968 ug/ml
Spiked Amount 50.000		Recovery =	111.94%
6) S 2-Fluorobiphenyl (SURR)	8.603	5056456	56.948 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	113.90%
11) S ortho-Terphenyl (SURR)	11.648	7888514	49.742 ug/ml
Spiked Amount 50.000		Recovery =	99.48%

Target Compounds

(f)=RT Delta > 1/2 Window

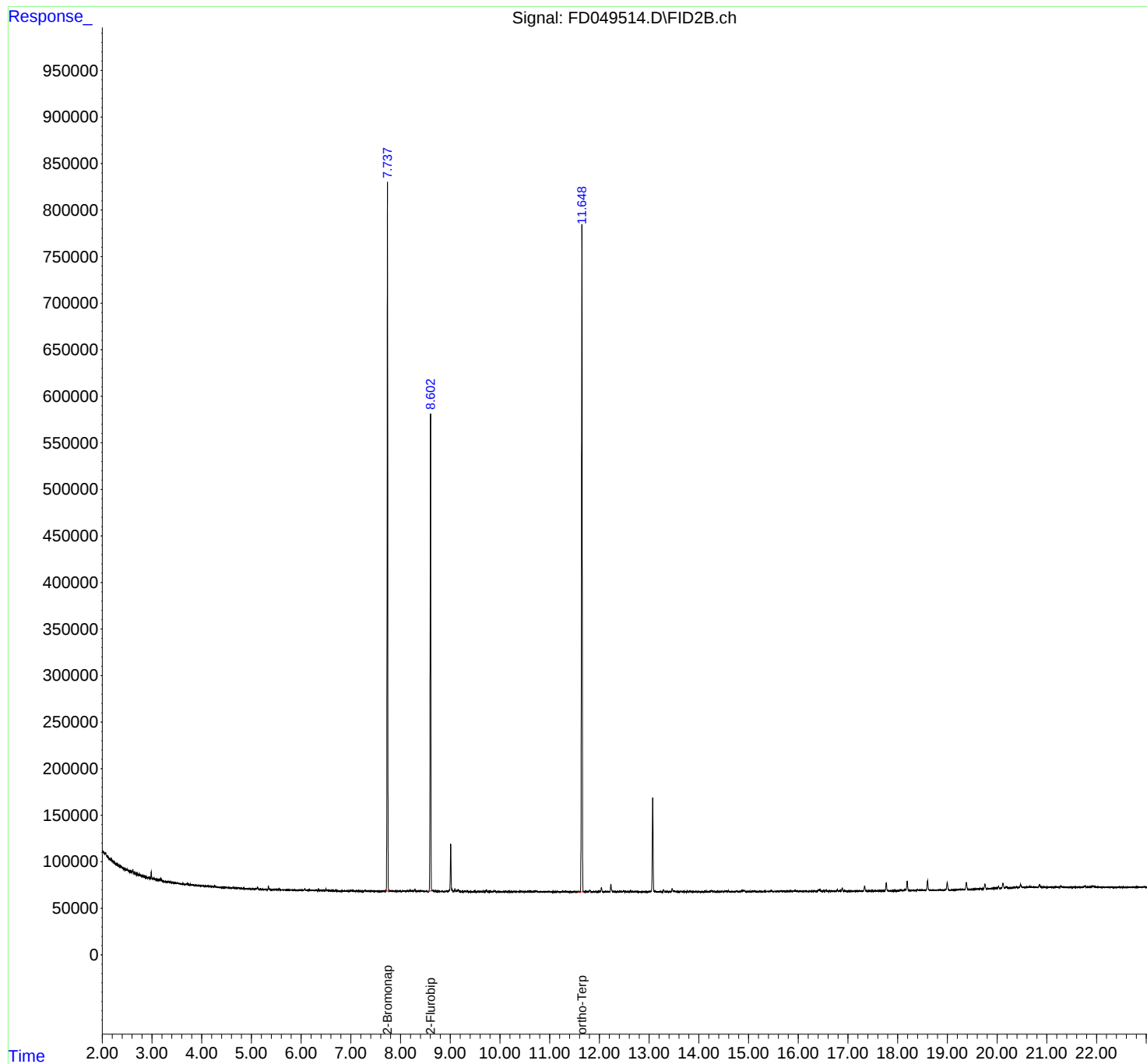
(m)=manual int.

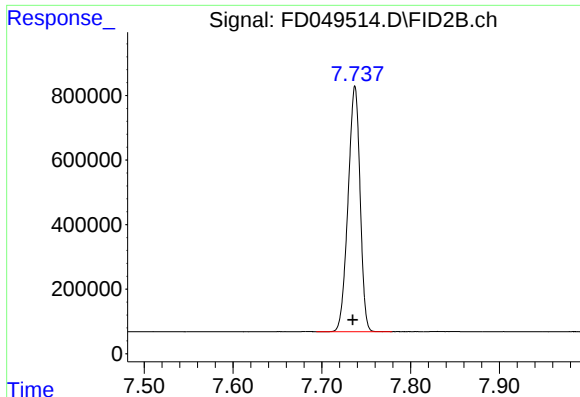
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049514.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 10:41
Operator : YP/AJ
Sample : PB168603BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168603BL

Integration File: autoint1.e
Quant Time: Jun 26 05:36:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 15:23:20 2025
Response via : Initial Calibration
Integrator: ChemStation

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

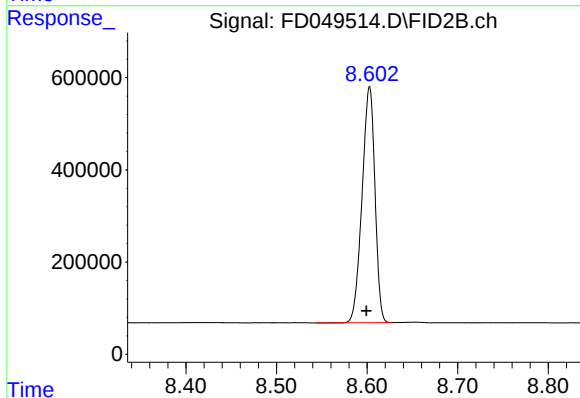




#4 2-Bromonaphthalene (SURR)

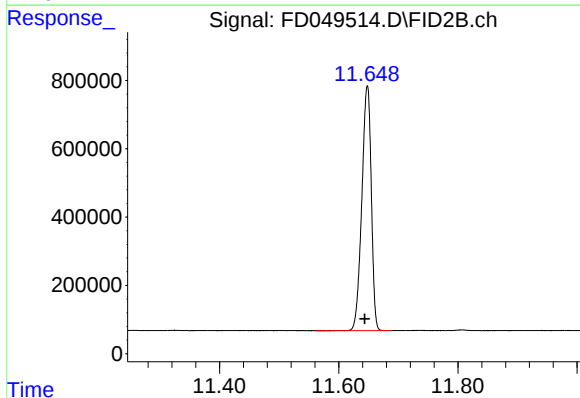
R.T.: 7.737 min
Delta R.T.: 0.003 min
Response: 7136189
Conc: 55.97 ug/ml

Instrument :
FID_D
ClientSampleId :
PB168603BL



#6 2-Fluorobiphenyl (SURR)

R.T.: 8.603 min
Delta R.T.: 0.003 min
Response: 5056456
Conc: 56.95 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.648 min
Delta R.T.: 0.005 min
Response: 7888514
Conc: 49.74 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049514.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 10:41
Sample : PB168603BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.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	7.737	7.694	7.779	BB	761125	7136189	90.46%	35.537%
2	8.603	8.544	8.627	BV	512089	5056456	64.10%	25.180%
3	11.648	11.562	11.689	BB	718251	7888514	100.00%	39.283%
Sum of corrected areas:							20081158	

Aromatic EPH 061825.M Thu Jun 26 06:03:33 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	PB168603BS	SDG No.:	Q2392
Lab Sample ID:	PB168603BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/24/25 13:45	06/25/25 11:24	PB168603

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.41		1	0.14	1.00	mg/kg	FC069279.D
Aliphatic C12-C16	Aliphatic C12-C16	5.67		1	0.11	0.67	mg/kg	FC069279.D
Aliphatic C16-C21	Aliphatic C16-C21	9.29		1	0.13	1.00	mg/kg	FC069279.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.53	1.33	mg/kg	FC069279.D
Aliphatic C28-C40	Aliphatic C28-C40	22.0		1	1.18	2.00	mg/kg	FC069279.D
Aromatic C10-C12	Aromatic C10-C12	5.12		1	0.12	0.67	mg/kg	FD049515.D
Aromatic C12-C16	Aromatic C12-C16	8.26		1	0.23	1.00	mg/kg	FD049515.D
Aromatic C16-C21	Aromatic C16-C21	15.3		1	0.40	1.67	mg/kg	FD049515.D
Aromatic C21-C36	Aromatic C21-C36	25.9		1	1.19	2.67	mg/kg	FD049515.D
Total AliphaticEPH	Total AliphaticEPH	56.3			2.09	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	54.6			1.94	6.01	mg/kg	
Total EPH	Total EPH	111			4.03	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

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	PB168603BS	SDG No.:	Q2392
Lab Sample ID:	PB168603BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069279.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.41		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.67		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.29		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.0		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.6		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168603BS	Acq On:	25 Jun 2025 11:24
Client Sample ID:	PB168603BS	Operator:	YP/AJ
Data file:	FC069279.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	3.306	6.605	14103567	96.152	300	ug/ml
Aliphatic C12-C16	6.606	10.009	13549344	85.103	200	ug/ml
Aliphatic C16-C21	10.010	13.380	21519535	139.344	300	ug/ml
Aliphatic C21-C28	13.381	17.044	26001089	194.087	400	ug/ml
Aliphatic C28-C40	17.045	22.027	30384666	329.822	600	ug/ml
Aliphatic EPH	3.306	22.027	105558201	844.509		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.115	13.115	5832829	44.65		ug/ml
Aliphatic C9-C28	3.306	17.044	75173535	514.686	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
 Data File : FC069279.D
 Signal(s) : FID1A.ch
 Acq On : 25 Jun 2025 11:24
 Operator : YP/AJ
 Sample : PB168603BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB168603BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/26/2025
 Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
 Quant Time: Jun 26 05:16:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 14:24:27 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...	13.115	5832829	44.647 ug/ml
Spiked Amount 50.000		Recovery =	89.29%
Target Compounds			
1) T n-Nonane (C9)	3.410	3513752	24.707 ug/ml
2) T n-Decane (C10)	4.482	4713620	32.198 ug/ml
4) T n-Dodecane (C12)	6.507	5876195	38.806 ug/ml
6) T n-Tetradecane (C14)	8.307	6605503	42.615 ug/ml
7) T n-Hexadecane (C16)	9.912	6943841	42.492 ug/ml
8) T n-Octadecane (C18)	11.357	7025927	43.032 ug/ml
10) T n-Eicosane (C20)	12.669	7424858	48.643 ug/ml
11) T n-Heneicosane (C21)	13.283	7068750	47.959 ug/ml
13) T n-Docosane (C22)	13.870	6951037	48.311 ug/ml
14) T n-Tetracosane (C24)	14.974	6676145	48.402 ug/ml
15) T n-Hexacosane (C26)	15.996	6344751	48.536 ug/ml
16) T n-Octacosane (C28)	16.948	6029156	48.887 ug/ml
17) T n-Tricontane (C30)	17.837	5785895	48.669 ug/ml
18) T n-Dotriacontane (C32)	18.671	5501737	50.319 ug/ml
19) T n-Tetratriacontane (C34)	19.456	5164855	53.485 ug/ml
20) T n-Hexatriacontane (C36)	20.197	4821815	58.508 ug/ml
21) T n-Octatriacontane (C38)	20.965	4669635	62.486 ug/ml
22) T n-Tetracontane (C40)	21.927	4549438	64.243 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069279.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 11:24
Operator : YP/AJ
Sample : PB168603BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

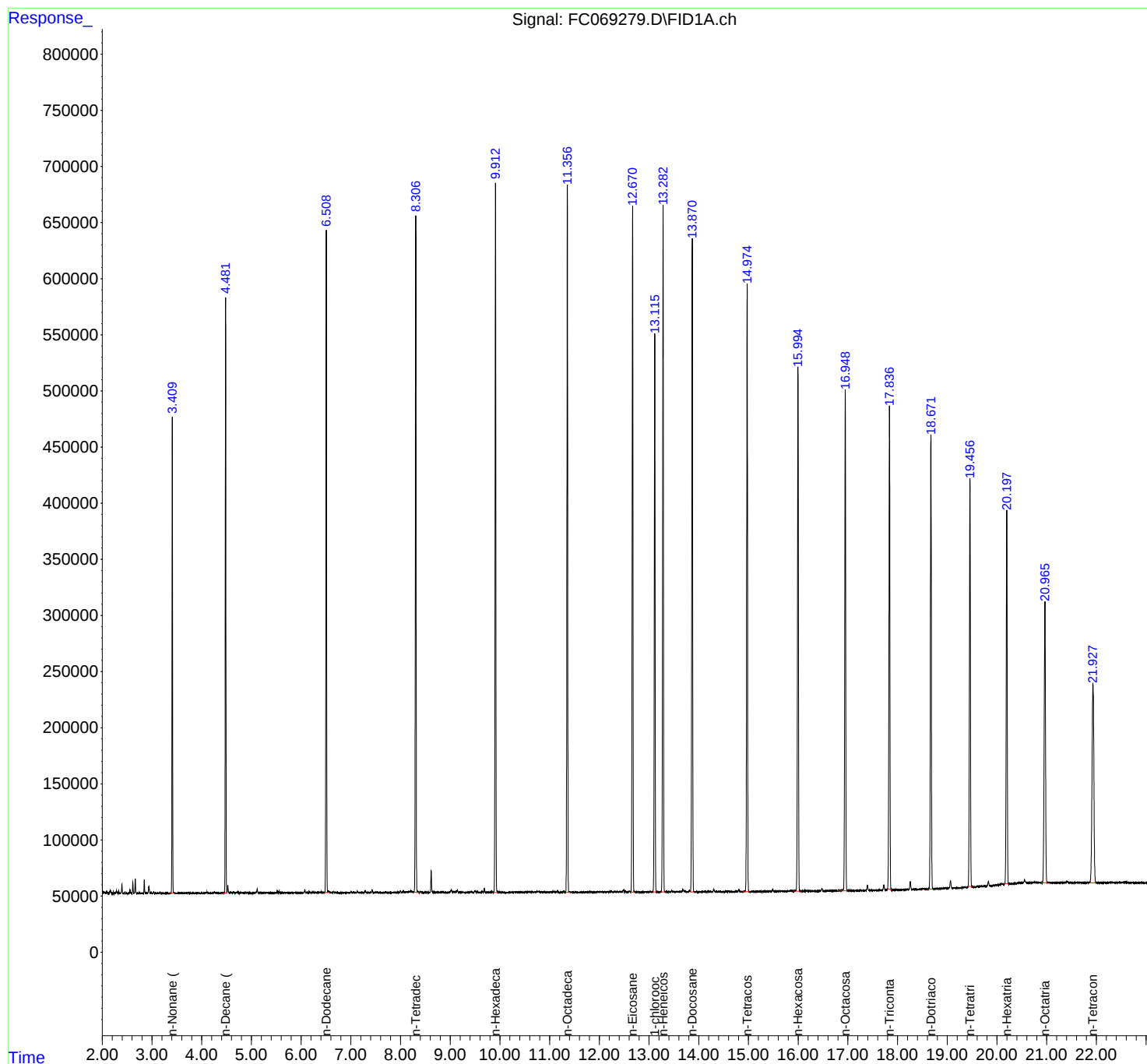
Instrument :
FID_C
ClientSampleId :
PB168603BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:16:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 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

Instrument :

FID_C

ClientSampleId :

PB168603BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06252
Data File : FC069279.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 11:24
Sample : PB168603BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.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	3.410	3.350	3.457	BB	423930	3513752	47.32%	3.154%
2	4.482	4.425	4.510	BV	530580	4713620	63.48%	4.232%
3	6.507	6.467	6.577	BB	586996	5876195	79.14%	5.275%
4	8.307	8.270	8.379	BV	602800	6605503	88.96%	5.930%
5	9.912	9.869	9.965	BB	633539	6943841	93.52%	6.234%
6	11.357	11.310	11.410	BB	627880	7025927	94.63%	6.307%
7	12.669	12.629	12.710	PB	609651	7424858	100.00%	6.666%
8	13.115	13.075	13.147	BB	498899	5832829	78.56%	5.236%
9	13.283	13.232	13.322	BB	609931	7068750	95.20%	6.346%
10	13.870	13.830	13.915	VB	583392	6951037	93.62%	6.240%
11	14.974	14.884	15.019	BB	539304	6676145	89.92%	5.993%
12	15.996	15.914	16.055	BB	459391	6344751	85.45%	5.696%
13	16.948	16.787	17.000	BB	446587	6029156	81.20%	5.413%
14	17.837	17.800	17.885	BB	429921	5785895	77.93%	5.194%
15	18.671	18.595	18.719	BB	400277	5501737	74.10%	4.939%
16	19.456	19.420	19.512	BB	358339	5164855	69.56%	4.637%
17	20.197	20.160	20.239	BB	332100	4821815	64.94%	4.329%
18	20.965	20.885	21.029	BB	250390	4669635	62.89%	4.192%
19	21.931	21.880	22.004	BB	175269	4440729	59.81%	3.987%

Sum of corrected areas: 111391028

Aliphatic EPH 061825.M Thu Jun 26 05:35:26 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	PB168603BS	SDG No.:	Q2392
Lab Sample ID:	PB168603BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049515.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.12		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.26		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.3		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	25.9		1.19	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.0		40 - 140	106%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	53.0		40 - 140	106%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.9		40 - 140	88%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB168603BS	Acq On:	25 Jun 2025 11:24
Client Sample ID:	PB168603BS	Operator:	YP/AJ
Data file:	FD049515.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	4.429	6.172	9617079	76.824	200	ug/ml
Aromatic C12-C16	6.173	8.800	18493101	123.99	300	ug/ml
Aromatic C16-C21	8.801	13.090	36085887	229.695	500	ug/ml
Aromatic C21-C36	13.091	18.510	53791016	389.367	800	ug/ml
Aromatic EPH	4.429	18.510	117987083	819.876		ug/ml
ortho-Terphenyl (SURR)	11.647	11.647	6968496	43.94		ug/ml
2-Bromonaphthalene (SURR)	7.738	7.738	6755714	52.98		ug/ml
2-Fluorobiphenyl (SURR)	8.603	8.603	4701831	52.95		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
 Data File : FD049515.D
 Signal(s) : FID2B.ch
 Acq On : 25 Jun 2025 11:24
 Operator : YP/AJ
 Sample : PB168603BS
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 PB168603BS

Integration File: autoint1.e
 Quant Time: Jun 26 05:36:26 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 15:23:20 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...	7.738	6755714	52.984 ug/ml
Spiked Amount 50.000		Recovery =	105.97%
6) S 2-Fluorobiphenyl (SURR)	8.603	4701831	52.954 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	105.91%
11) S ortho-Terphenyl (SURR)	11.647	6968496	43.941 ug/ml
Spiked Amount 50.000		Recovery =	87.88%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.530	4253335	36.622 ug/ml
2) T Naphthalene (C11.7)	6.074	5363744	39.960 ug/ml
3) T 2-Methylnaphthalene (...)	7.127	5386041	38.121 ug/ml
5) T Acenaphthylene (C15.06)	8.406	6502780	41.595 ug/ml
7) T Acenaphthene (C15.5)	8.703	6604280	44.080 ug/ml
8) T Flouorene (C16.55)	9.484	7064746	45.924 ug/ml
9) T Phenanthrene (C19.36)	10.883	7289122	45.739 ug/ml
10) T Anthracene (C19.43)	10.958	6866833	43.737 ug/ml
12) T Fluoranthene (C21.85)	12.697	7457401	47.097 ug/ml
13) T Pyrene (C20.8)	12.996	7407785	46.822 ug/ml
14) T Benzo[a]anthracene (C...	14.867	7217052	48.902 ug/ml
15) T Chrysene (C27.41)	14.913	7749313	51.990 ug/ml
16) T benzo[b]fluoranthene ...	16.419	6954383	49.493 ug/ml
17) T Bnezo[k]fluoranthene ...	16.455	6825596	51.391 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.799	6514720	47.652 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.165	6602098	53.924 ug/ml
20) T Dibenz[a,h]anthracene...	18.203	5963445	46.566 ug/ml
21) T Benzo[g,h,i]perylene ...	18.422	5964409	46.660 ug/ml

(f)=RT Delta > 1/2 Window

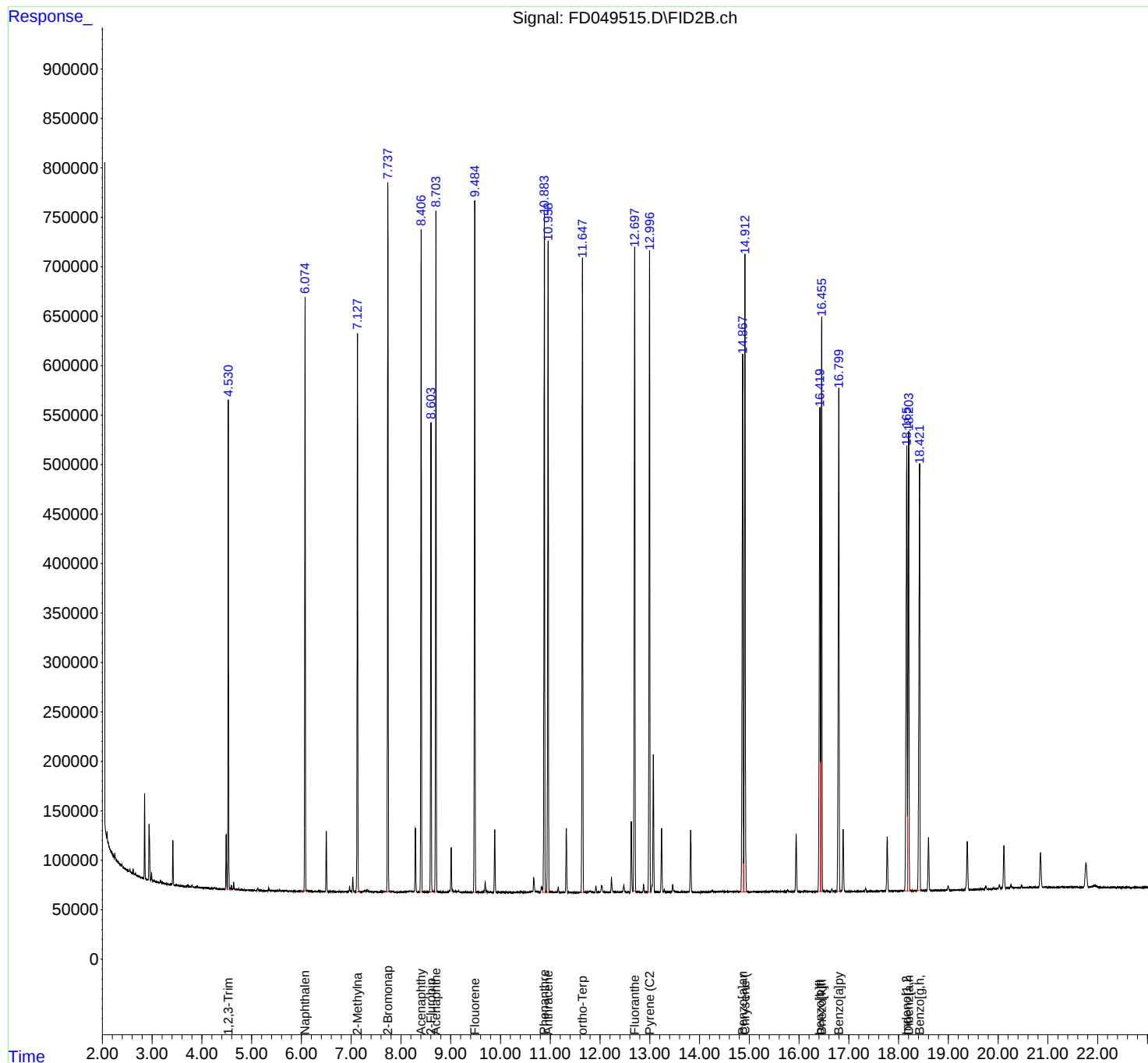
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049515.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 11:24
Operator : YP/AJ
Sample : PB168603BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168603BS

Integration File: autoint1.e
Quant Time: Jun 26 05:36:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 15:23:20 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\FD062525AR\
 Data File : FD049515.D
 Signal(s) : FID2B.ch
 Acq On : 25 Jun 2025 11:24
 Sample : PB168603BS
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.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	4.530	4.508	4.575	VV	494897	4253335	54.89%	3.118%
2	6.074	5.975	6.110	BV	599316	5363744	69.22%	3.932%
3	7.127	7.077	7.185	BB	563321	5386041	69.50%	3.948%
4	7.738	7.649	7.780	BB	714814	6755714	87.18%	4.952%
5	8.406	8.345	8.460	BB	671425	6502780	83.91%	4.767%
6	8.603	8.554	8.644	BB	474037	4701831	60.67%	3.447%
7	8.703	8.647	8.737	BB	688041	6604280	85.22%	4.841%
8	9.484	9.432	9.510	BB	698242	7064746	91.17%	5.179%
9	10.883	10.851	10.917	VV	686193	7289122	94.06%	5.343%
10	10.958	10.917	11.012	PB	659504	6866833	88.61%	5.034%
11	11.647	11.589	11.690	BB	640569	6968496	89.92%	5.108%
12	12.697	12.650	12.735	BB	652012	7457401	96.23%	5.467%
13	12.996	12.939	13.020	BV	648232	7407785	95.59%	5.430%
14	14.867	14.799	14.886	BV	543496	7217052	93.13%	5.291%
15	14.913	14.886	14.972	VB	646475	7749313	100.00%	5.681%
16	16.419	16.345	16.434	BV	487927	6954383	89.74%	5.098%
17	16.455	16.434	16.484	VV	580915	6825596	88.08%	5.004%
18	16.799	16.727	16.837	BB	509929	6514720	84.07%	4.776%
19	18.165	18.110	18.179	BV	451475	6602098	85.20%	4.840%
20	18.203	18.179	18.254	VB	466420	5963445	76.95%	4.372%
21	18.422	18.349	18.457	BB	432029	5964409	76.97%	4.372%
Sum of corrected areas:						136413124		

Aromatic EPH 061825.M Thu Jun 26 06:04:24 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	PB168603BSD	SDG No.:	Q2392
Lab Sample ID:	PB168603BSD	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
06/24/25 13:45	06/25/25 12:06	PB168603

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	6.36		1	0.14	1.00	mg/kg FC069280.D
Aliphatic C12-C16	Aliphatic C12-C16	5.64		1	0.11	0.67	mg/kg FC069280.D
Aliphatic C16-C21	Aliphatic C16-C21	9.20		1	0.13	1.00	mg/kg FC069280.D
Aliphatic C21-C28	Aliphatic C21-C28	12.8		1	0.53	1.33	mg/kg FC069280.D
Aliphatic C28-C40	Aliphatic C28-C40	22.1		1	1.18	2.00	mg/kg FC069280.D
Aromatic C10-C12	Aromatic C10-C12	5.07		1	0.12	0.67	mg/kg FD049516.D
Aromatic C12-C16	Aromatic C12-C16	8.21		1	0.23	1.00	mg/kg FD049516.D
Aromatic C16-C21	Aromatic C16-C21	15.2		1	0.40	1.67	mg/kg FD049516.D
Aromatic C21-C36	Aromatic C21-C36	25.8		1	1.19	2.66	mg/kg FD049516.D
Total AliphaticEPH	Total AliphaticEPH	56.1			2.09	5.99	mg/kg
Total AromaticEPH	Total AromaticEPH	54.3			1.94	6.00	mg/kg
Total EPH	Total EPH	110			4.03	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

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	PB168603BSD	SDG No.:	Q2392
Lab Sample ID:	PB168603BSD	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
FC069280.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.36		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.64		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.20		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.8		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.1		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.3		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168603BSD	Acq On:	25 Jun 2025 12:06
Client Sample ID:	PB168603BSD	Operator:	YP/AJ
Data file:	FC069280.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	3.306	6.605	13997782	95.431	300	ug/ml
Aliphatic C12-C16	6.606	10.009	13475026	84.637	200	ug/ml
Aliphatic C16-C21	10.010	13.380	21339336	138.177	300	ug/ml
Aliphatic C21-C28	13.381	17.044	25843819	192.913	400	ug/ml
Aliphatic C28-C40	17.045	22.027	30587863	332.028	600	ug/ml
Aliphatic EPH	3.306	22.027	105243826	843.185		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.115	13.115	5781203	44.25		ug/ml
Aliphatic C9-C28	3.306	17.044	74655963	511.158	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
 Data File : FC069280.D
 Signal(s) : FID1A.ch
 Acq On : 25 Jun 2025 12:06
 Operator : YP/AJ
 Sample : PB168603BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB168603BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/26/2025
 Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
 Quant Time: Jun 26 05:17:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 14:24:27 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...	13.115	5781203	44.252 ug/ml
Spiked Amount 50.000		Recovery =	88.50%
Target Compounds			
1) T n-Nonane (C9)	3.409	3481292	24.478 ug/ml
2) T n-Decane (C10)	4.481	4687477	32.019 ug/ml
4) T n-Dodecane (C12)	6.507	5829013	38.494 ug/ml
6) T n-Tetradecane (C14)	8.307	6582194	42.464 ug/ml
7) T n-Hexadecane (C16)	9.912	6892832	42.180 ug/ml
8) T n-Octadecane (C18)	11.357	6971114	42.697 ug/ml
10) T n-Eicosane (C20)	12.669	7361238	48.226 ug/ml
11) T n-Heneicosane (C21)	13.283	7006984	47.540 ug/ml
13) T n-Docosane (C22)	13.870	6894004	47.914 ug/ml
14) T n-Tetracosane (C24)	14.974	6621786	48.008 ug/ml
15) T n-Hexacosane (C26)	15.996	6303680	48.222 ug/ml
16) T n-Octacosane (C28)	16.948	6024349	48.848 ug/ml
17) T n-Tricontane (C30)	17.837	5812207	48.890 ug/ml
18) T n-Dotriacontane (C32)	18.671	5544833	50.713 ug/ml
19) T n-Tetratriacontane (C34)	19.456	5214801	54.002 ug/ml
20) T n-Hexatriacontane (C36)	20.198	4859898	58.970 ug/ml
21) T n-Octatriacontane (C38)	20.966	4694734	62.822 ug/ml
22) T n-Tetracontane (C40)	21.933	4575903	64.617 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069280.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 12:06
Operator : YP/AJ
Sample : PB168603BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

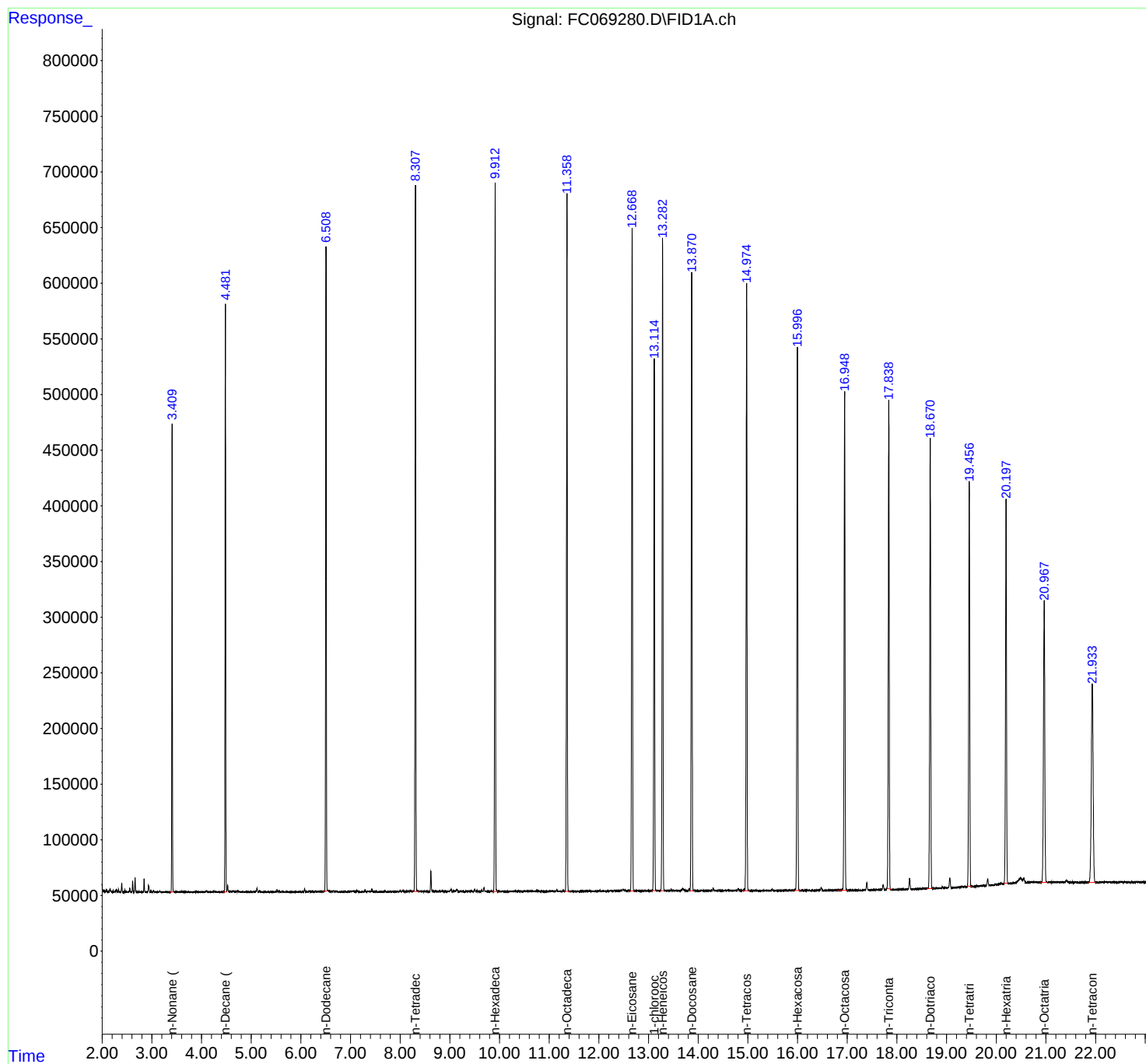
Instrument :
FID_C
ClientSampleId :
PB168603BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:17:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 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

Instrument :

FID_C

ClientSampleId :

PB168603BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06252
Data File : FC069280.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 12:06
Sample : PB168603BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.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	3.409	3.359	3.452	BB	420173	3481292	47.29%	3.136%
2	4.481	4.427	4.508	BV	530045	4687477	63.68%	4.222%
3	6.507	6.444	6.555	BB	573787	5829013	79.19%	5.250%
4	8.307	8.247	8.377	BV	632082	6582194	89.42%	5.929%
5	9.912	9.860	9.969	BB	633657	6892832	93.64%	6.208%
6	11.357	11.310	11.414	BB	620865	6971114	94.70%	6.279%
7	12.670	12.632	12.714	PB	597252	7361238	100.00%	6.630%
8	13.115	13.074	13.157	BB	474893	5781203	78.54%	5.207%
9	13.283	13.237	13.315	BB	585312	7006984	95.19%	6.311%
10	13.870	13.830	13.914	VB	556222	6894004	93.65%	6.209%
11	14.974	14.889	15.034	BB	542663	6621786	89.95%	5.964%
12	15.996	15.927	16.059	BB	488780	6303680	85.63%	5.678%
13	16.948	16.799	17.005	BB	444235	6024349	81.84%	5.426%
14	17.837	17.800	17.890	BB	436891	5812207	78.96%	5.235%
15	18.671	18.600	18.717	BB	404285	5544833	75.32%	4.994%
16	19.456	19.420	19.510	BB	358555	5214801	70.84%	4.697%
17	20.198	20.160	20.239	BB	344950	4859898	66.02%	4.377%
18	20.966	20.889	21.034	BB	253561	4694734	63.78%	4.229%
19	21.933	21.880	22.024	BB	176678	4461390	60.61%	4.018%
Sum of corrected areas:						111025030		

Aliphatic EPH 061825.M Thu Jun 26 05:36:02 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	PB168603BSD	SDG No.:	Q2392
Lab Sample ID:	PB168603BSD	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
FD049516.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.07		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.21		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.2		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	25.8		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.8		40 - 140	106%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	52.6		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.6		40 - 140	87%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB168603BSD	Acq On:	25 Jun 2025 12:06
Client Sample ID:	PB168603BSD	Operator:	YP/AJ
Data file:	FD049516.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	4.429	6.172	9530992	76.136	200	ug/ml
Aromatic C12-C16	6.173	8.800	18389141	123.293	300	ug/ml
Aromatic C16-C21	8.801	13.090	35766343	227.661	500	ug/ml
Aromatic C21-C36	13.091	18.510	53445370	386.865	800	ug/ml
Aromatic EPH	4.429	18.510	117131846	813.955		ug/ml
ortho-Terphenyl (SURR)	11.647	11.647	6916975	43.62		ug/ml
2-Bromonaphthalene (SURR)	7.737	7.737	6729422	52.78		ug/ml
2-Fluorobiphenyl (SURR)	8.603	8.603	4673746	52.64		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
 Data File : FD049516.D
 Signal(s) : FID2B.ch
 Acq On : 25 Jun 2025 12:06
 Operator : YP/AJ
 Sample : PB168603BSD
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 PB168603BSD

Integration File: autoint1.e
 Quant Time: Jun 26 05:36:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 15:23:20 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...	7.737	6729422	52.778 ug/ml
Spiked Amount 50.000		Recovery =	105.56%
6) S 2-Fluorobiphenyl (SURR)	8.603	4673746	52.638 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	105.28%
11) S ortho-Terphenyl (SURR)	11.647	6916975	43.616 ug/ml
Spiked Amount 50.000		Recovery =	87.23%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.530	4182696	36.014 ug/ml
2) T Naphthalene (C11.7)	6.074	5348296	39.845 ug/ml
3) T 2-Methylnaphthalene (...)	7.127	5347481	37.849 ug/ml
5) T Acenaphthylene (C15.06)	8.406	6469014	41.379 ug/ml
7) T Acenaphthene (C15.5)	8.703	6572646	43.869 ug/ml
8) T Fluorene (C16.55)	9.484	7012929	45.587 ug/ml
9) T Phenanthrene (C19.36)	10.883	7226537	45.347 ug/ml
10) T Anthracene (C19.43)	10.958	6800309	43.313 ug/ml
12) T Fluoranthene (C21.85)	12.698	7383415	46.629 ug/ml
13) T Pyrene (C20.8)	12.996	7343153	46.414 ug/ml
14) T Benzo[a]anthracene (C...	14.868	7152602	48.465 ug/ml
15) T Chrysene (C27.41)	14.912	7681459	51.534 ug/ml
16) T benzo[b]fluoranthene ...	16.418	6896012	49.077 ug/ml
17) T Bnezo[k]fluoranthene ...	16.454	6780909	51.054 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.799	6466676	47.301 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.165	6569034	53.654 ug/ml
20) T Dibenz[a,h]anthracene...	18.203	5954329	46.495 ug/ml
21) T Benzo[g,h,i]perylene ...	18.420	5944349	46.503 ug/ml

(f)=RT Delta > 1/2 Window

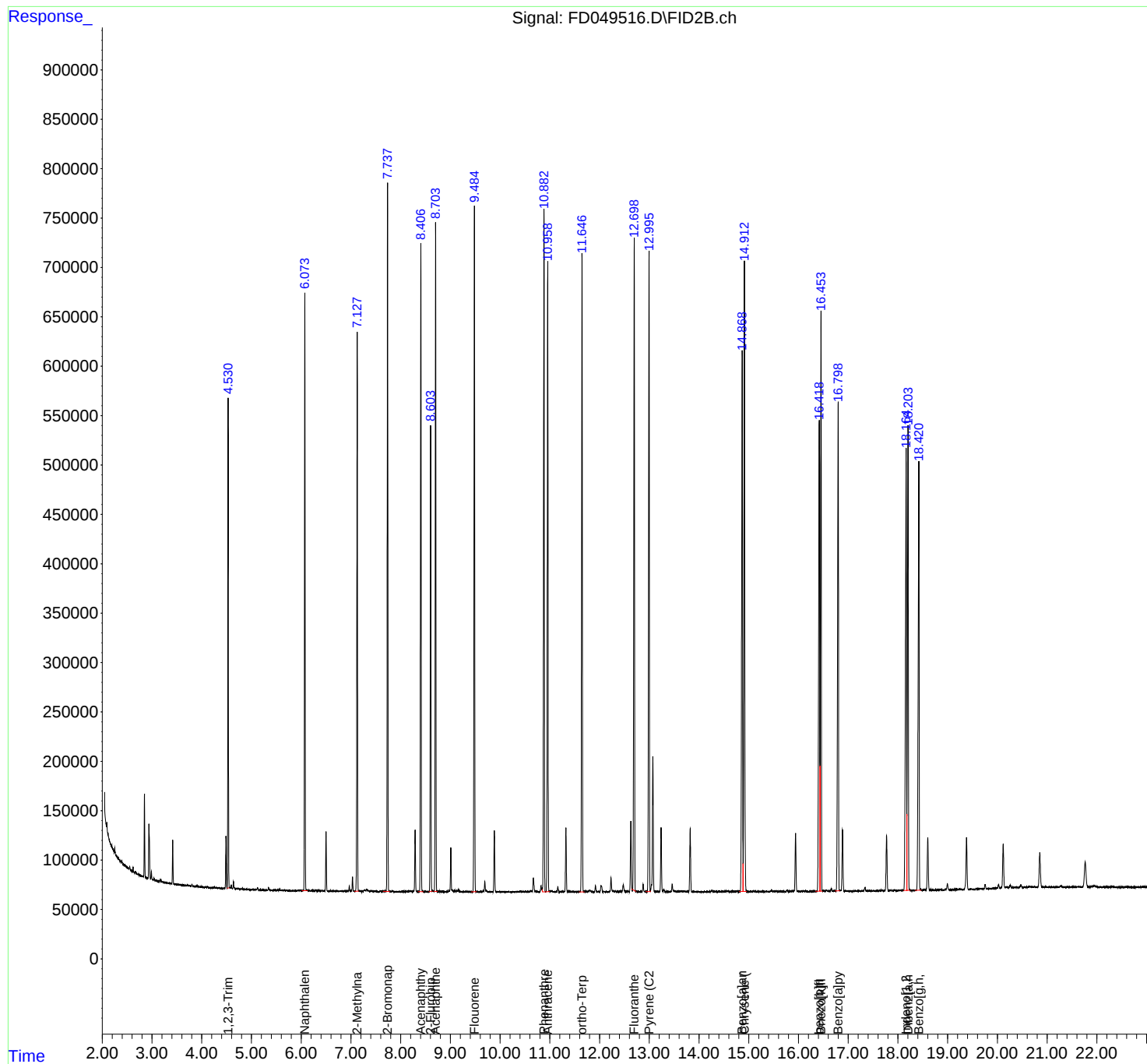
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049516.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 12:06
Operator : YP/AJ
Sample : PB168603BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB168603BSD

Integration File: autoint1.e
Quant Time: Jun 26 05:36:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 15:23:20 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\FD062525AR\
Data File : FD049516.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 12:06
Sample : PB168603BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.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	4.530	4.508	4.555	PV	496137	4182696	54.45%	3.088%
2	6.074	6.014	6.132	BB	604355	5348296	69.63%	3.948%
3	7.127	7.072	7.159	BB	566096	5347481	69.62%	3.948%
4	7.737	7.650	7.785	BB	717346	6729422	87.61%	4.968%
5	8.406	8.350	8.460	BB	656234	6469014	84.22%	4.776%
6	8.603	8.564	8.640	BV	472498	4673746	60.84%	3.450%
7	8.703	8.670	8.742	BB	678374	6572646	85.57%	4.852%
8	9.484	9.419	9.525	BB	693375	7012929	91.30%	5.177%
9	10.883	10.851	10.919	VV	689062	7226537	94.08%	5.335%
10	10.958	10.919	11.000	PB	641695	6800309	88.53%	5.020%
11	11.647	11.587	11.697	BV	646856	6916975	90.05%	5.107%
12	12.698	12.650	12.732	BB	663044	7383415	96.12%	5.451%
13	12.996	12.927	13.022	BV	647753	7343153	95.60%	5.421%
14	14.868	14.804	14.886	BV	549614	7152602	93.12%	5.281%
15	14.912	14.886	14.960	VB	635132	7681459	100.00%	5.671%
16	16.418	16.344	16.433	BV	477745	6896012	89.77%	5.091%
17	16.454	16.433	16.482	VV	587772	6780909	88.28%	5.006%
18	16.799	16.735	16.835	BB	495982	6466676	84.19%	4.774%
19	18.165	18.110	18.179	BV	448094	6569034	85.52%	4.850%
20	18.203	18.179	18.254	VB	471449	5954329	77.52%	4.396%
21	18.420	18.337	18.472	BB	433204	5944349	77.39%	4.389%
Sum of corrected areas:						135451992		

Aromatic EPH 061825.M Thu Jun 26 06:05:23 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	S-1MS	SDG No.:	Q2392
Lab Sample ID:	Q2392-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
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
06/24/25 13:45	06/25/25 14:14	PB168603

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	5.46		1	0.15	1.08	mg/kg FC069283.D
Aliphatic C12-C16	Aliphatic C12-C16	5.02		1	0.12	0.72	mg/kg FC069283.D
Aliphatic C16-C21	Aliphatic C16-C21	9.75		1	0.14	1.08	mg/kg FC069283.D
Aliphatic C21-C28	Aliphatic C21-C28	10.2		1	0.57	1.45	mg/kg FC069283.D
Aliphatic C28-C40	Aliphatic C28-C40	19.9		1	1.28	2.17	mg/kg FC069283.D
Aromatic C10-C12	Aromatic C10-C12	6.12		1	0.13	0.72	mg/kg FD049519.D
Aromatic C12-C16	Aromatic C12-C16	9.91		1	0.25	1.08	mg/kg FD049519.D
Aromatic C16-C21	Aromatic C16-C21	21.8		1	0.43	1.81	mg/kg FD049519.D
Aromatic C21-C36	Aromatic C21-C36	34.6		1	1.29	2.89	mg/kg FD049519.D
Total AliphaticEPH	Total AliphaticEPH	50.3			2.27	6.50	mg/kg
Total AromaticEPH	Total AromaticEPH	72.4			2.10	6.50	mg/kg
Total EPH	Total EPH	123			4.37	13.0	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

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	S-1MS	SDG No.:	Q2392
Lab Sample ID:	Q2392-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
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
FC069283.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.46		0.15	1.08	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.02		0.12	0.72	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.75		0.14	1.08	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.2		0.57	1.45	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.9		1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.0		40 - 140	68%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2392-01MS	Acq On:	25 Jun 2025 14:14
Client Sample ID:	S-1MS	Operator:	YP/AJ
Data file:	FC069283.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	3.306	6.605	11081974	75.552	300	ug/ml
Aliphatic C12-C16	6.606	10.009	11062049	69.481	200	ug/ml
Aliphatic C16-C21	10.010	13.380	20841499	134.954	300	ug/ml
Aliphatic C21-C28	13.381	17.044	18965734	141.571	400	ug/ml
Aliphatic C28-C40	17.045	22.027	25392861	275.637	600	ug/ml
Aliphatic EPH	3.306	22.027	87344117	697.194		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.113	13.113	4440516	33.99		ug/ml
Aliphatic C9-C28	3.306	17.044	61951256	421.558	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
 Data File : FC069283.D
 Signal(s) : FID1A.ch
 Acq On : 25 Jun 2025 14:14
 Operator : YP/AJ
 Sample : Q2392-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :

FID_C

ClientSampleId :

S-1MS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e

Quant Time: Jun 26 05:17:54 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M

Quant Title : GC Extractables

Qlast Update : Wed Jun 18 14:24:27 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...	13.113	4440516	33.990 ug/ml
Spiked Amount 50.000		Recovery =	67.98%
Target Compounds			
1) T n-Nonane (C9)	3.410	2685697	18.884 ug/ml
2) T n-Decane (C10)	4.481	3328922	22.739 ug/ml
4) T n-Dodecane (C12)	6.506	3864852	25.523 ug/ml
6) T n-Tetradecane (C14)	8.305	4426494	28.557 ug/ml
7) T n-Hexadecane (C16)	9.910	5014697	30.687 ug/mlm
8) T n-Octadecane (C18)	11.355	5212345	31.925 ug/ml
10) T n-Eicosane (C20)	12.667	5258445	34.450 ug/ml
11) T n-Heneicosane (C21)	13.280	4962671	33.670 ug/ml
13) T n-Docosane (C22)	13.867	4861604	33.789 ug/ml
14) T n-Tetracosane (C24)	14.972	4674380	33.889 ug/ml
15) T n-Hexacosane (C26)	15.995	4415786	33.780 ug/ml
16) T n-Octacosane (C28)	16.946	4157058	33.707 ug/ml
17) T n-Tricontane (C30)	17.834	3974321	33.430 ug/ml
18) T n-Dotriacontane (C32)	18.669	3847897	35.193 ug/ml
19) T n-Tetratriacontane (C34)	19.456	3756137	38.897 ug/ml
20) T n-Hexatriacontane (C36)	20.196	3677618	44.625 ug/ml
21) T n-Octatriacontane (C38)	20.966	3727202	49.875 ug/ml
22) T n-Tetracontane (C40)	21.936	3673590	51.875 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069283.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 14:14
Operator : YP/AJ
Sample : Q2392-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

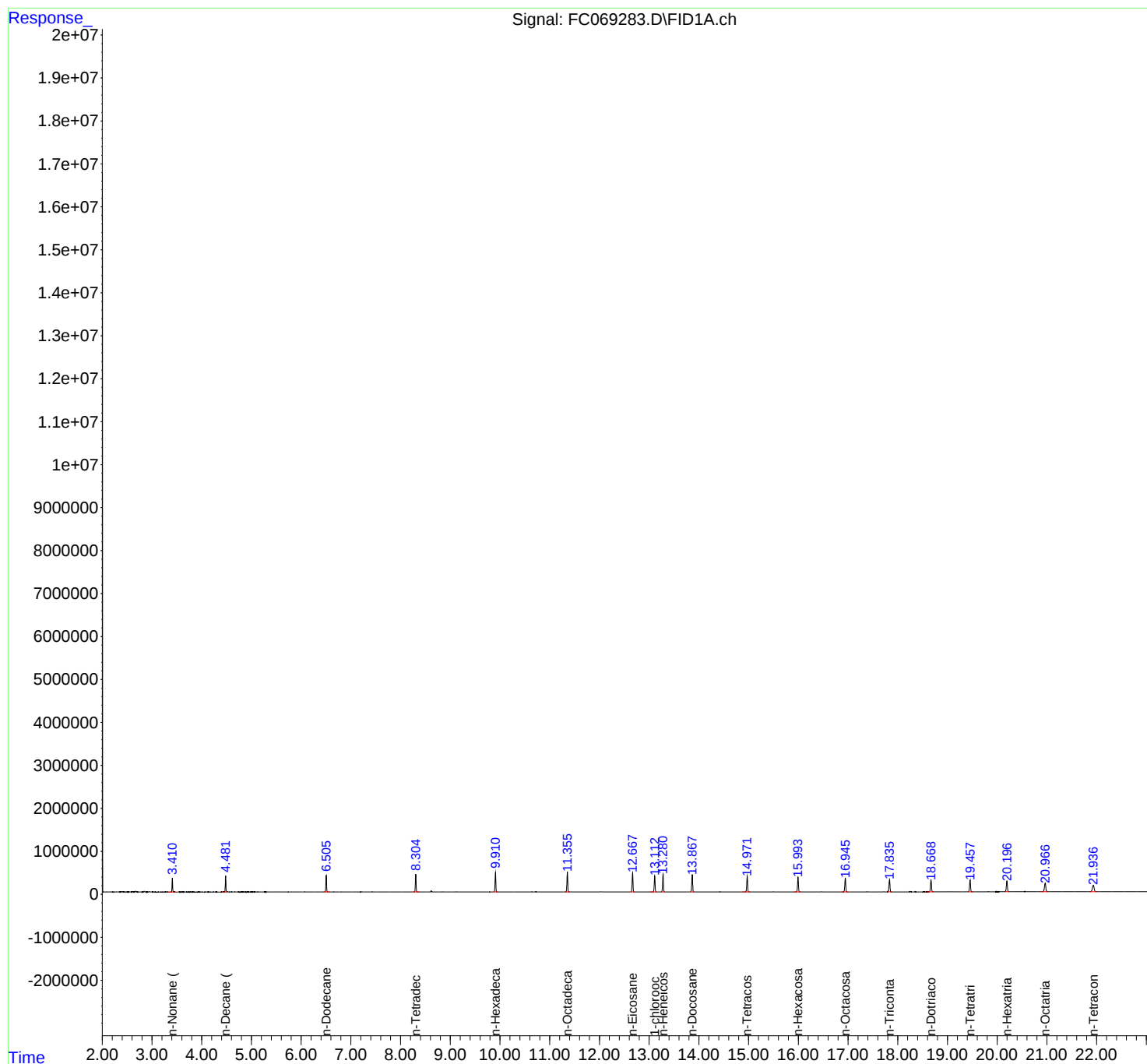
Instrument :
FID_C
ClientSampleId :
S-1MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:17:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rters

Instrument :

FID_C

ClientSampleId :

S-1MS

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06252
Data File : FC069283.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 14:14
Sample : Q2392-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.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	3.204	3.247	BV	353	4129	0.08%	0.005%
2	3.259	3.247	3.280	VV	337	3489	0.07%	0.004%
3	3.308	3.280	3.338	VV	225	3777	0.07%	0.004%
4	3.358	3.338	3.379	PV	391	3388	0.06%	0.004%
5	3.410	3.379	3.489	VV	323509	2697398	51.23%	3.088%
6	3.539	3.489	3.551	VV	560	9154	0.17%	0.010%
7	3.562	3.551	3.578	VV	374	4609	0.09%	0.005%
8	3.610	3.578	3.661	VV	564	15867	0.30%	0.018%
9	3.684	3.661	3.707	VV	897	14346	0.27%	0.016%
10	3.733	3.707	3.771	VV	538	13191	0.25%	0.015%
11	3.786	3.771	3.808	VV	986	12811	0.24%	0.015%
12	3.819	3.808	3.834	VV	344	4095	0.08%	0.005%
13	3.857	3.834	3.874	VV	899	10224	0.19%	0.012%
14	3.881	3.874	3.893	VV	295	2391	0.05%	0.003%
15	3.908	3.893	3.941	VV	676	9545	0.18%	0.011%
16	3.957	3.941	3.973	VV	589	5790	0.11%	0.007%
17	3.995	3.973	4.051	VV	839	14886	0.28%	0.017%
18	4.080	4.051	4.094	PV	1117	14108	0.27%	0.016%
19	4.109	4.094	4.134	VV	1480	16261	0.31%	0.019%
20	4.144	4.134	4.157	VV	376	3500	0.07%	0.004%
21	4.177	4.157	4.204	VV	798	8355	0.16%	0.010%
22	4.250	4.204	4.275	VV	1069	20690	0.39%	0.024%
23	4.288	4.275	4.374	VV	447	11727	0.22%	0.013%
24	4.398	4.374	4.420	VV	292	5199	0.10%	0.006%
25	4.436	4.420	4.451	VV	318	4413	0.08%	0.005%
26	4.481	4.451	4.508	VV	375001	3336356	63.37%	3.819%
27	4.526	4.508	4.565	VV	11591	117728	2.24%	0.135%
28	4.588	4.565	4.614	VV	1009	16856	0.32%	0.019%
29	4.650	4.614	4.669	VV	1256	26229	0.50%	0.030%
30	4.706	4.669	4.719	VV	1304	21219	0.40%	0.024%
31	4.736	4.719	4.755	VV	3327	33508	0.64%	0.038%
32	4.767	4.755	4.781	VV	744	8263	0.16%	0.009%
33	4.790	4.781	4.804	VV	390	4743	0.09%	0.005%
34	4.814	4.804	4.828	VV	382	3986	0.08%	0.005%
35	4.857	4.828	4.876	VV	551	9195	0.17%	0.011%
36	4.897	4.876	4.918	VV	609	9895	0.19%	0.011%

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37	4.960	4.918	4.984	VV	959	16365	0.31%	0.019%
38	5.008	4.984	5.022	VV	320	5782		
39	5.039	5.022	5.061	VV	460	7645		
40	5.117	5.061	5.148	VV	4043	58980		
41	5.173	5.148	5.191	VV	1094	19126		
42	5.225	5.191	5.251	VV	786	19231		
43	5.253	5.251	5.264	VV	382	2412	0.05%	0.003%
44	5.323	5.264	5.352	VV	506	19925	0.38%	0.023%
45	5.358	5.352	5.370	VV	478	4527	0.09%	0.005%
46	5.385	5.370	5.400	VV	486	7892	0.15%	0.009%
47	5.416	5.400	5.430	VV	501	7995	0.15%	0.009%
48	5.442	5.430	5.477	VV	505	12085	0.23%	0.014%
49	5.489	5.477	5.497	VV	485	4994	0.09%	0.006%
50	5.520	5.497	5.540	VV	3971	46492	0.88%	0.053%
51	5.561	5.540	5.584	VV	1796	26629	0.51%	0.030%
52	5.616	5.584	5.634	VV	670	16388	0.31%	0.019%
53	5.648	5.634	5.668	VV	487	9193	0.17%	0.011%
54	5.708	5.668	5.741	VV	1117	28412	0.54%	0.033%
55	5.770	5.741	5.788	VV	659	13715	0.26%	0.016%
56	5.808	5.788	5.843	VV	970	22745	0.43%	0.026%
57	5.865	5.843	5.908	VV	532	17560	0.33%	0.020%
58	5.935	5.908	5.954	VV	530	11749	0.22%	0.013%
59	5.978	5.954	6.001	VV	497	11747	0.22%	0.013%
60	6.076	6.001	6.103	VV	6557	90789	1.72%	0.104%
61	6.119	6.103	6.141	VV	979	16056	0.30%	0.018%
62	6.163	6.141	6.196	VV	1631	32890	0.62%	0.038%
63	6.224	6.196	6.241	VV	1156	22280	0.42%	0.026%
64	6.296	6.241	6.331	VV	1007	39271	0.75%	0.045%
65	6.355	6.331	6.366	VV	782	14602	0.28%	0.017%
66	6.390	6.366	6.403	VV	841	16167	0.31%	0.019%
67	6.438	6.403	6.473	VV	1036	36565	0.69%	0.042%
68	6.505	6.473	6.577	VV	386527	3912101	74.31%	4.479%
69	6.591	6.577	6.610	VV	1035	15961	0.30%	0.018%
70	6.622	6.610	6.633	VV	825	9931	0.19%	0.011%
71	6.654	6.633	6.676	VV	3271	41300	0.78%	0.047%
72	6.691	6.676	6.714	VV	842	15668	0.30%	0.018%
73	6.727	6.714	6.744	VV	904	11625	0.22%	0.013%
74	6.781	6.744	6.806	VV	493	14301	0.27%	0.016%
75	6.831	6.806	6.853	VV	847	14932	0.28%	0.017%
76	6.870	6.853	6.888	VV	529	9249	0.18%	0.011%
77	6.900	6.888	6.927	VV	568	10482	0.20%	0.012%
78	6.948	6.927	6.979	VV	943	18149	0.34%	0.021%
79	7.002	6.979	7.034	VV	1169	26405	0.50%	0.030%
80	7.061	7.034	7.091	VV	980	26386	0.50%	0.030%
81	7.132	7.091	7.155	VV	3075	50047	0.95%	0.057%
82	7.165	7.155	7.184	VV	672	9240	0.18%	0.011%
83	7.208	7.184	7.251	VV	3842	50978	0.97%	0.058%
84	7.291	7.251	7.328	VV	2514	40144	0.76%	0.046%
85	7.349	7.328	7.378	VV	558	12683	0.24%	0.015%
86	7.395	7.378	7.408	VV	825	11165	0.21%	0.013%
87	7.430	7.408	7.460	VV	4534	53635	1.02%	0.061%
88	7.497	7.460	7.509	VV	671	14321	0.27%	0.016%
89	7.521	7.509	7.539	VV	773	10122	0.19%	0.012%

Instrument :

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S-1MS

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90	7.553	7.539	7.577	VV	425	8435	0.16%	0.010%
91	7.602	7.577	7.638	VV	638	14669		
92	7.646	7.638	7.671	VV	348	5203		
93	7.694	7.671	7.713	VV	1066	14790		
94	7.732	7.713	7.760	VV	484	11635		
95	7.776	7.760	7.824	VV	676	14301		
96	7.829	7.824	7.834	VV	298	1545	0.03%	0.002%
97	7.873	7.834	7.899	VV	658	18050	0.34%	0.021%
98	7.911	7.899	7.934	VV	487	8017	0.15%	0.009%
99	7.953	7.934	7.971	VV	522	7585	0.14%	0.009%
100	7.998	7.971	8.030	VV	2439	34700	0.66%	0.040%
101	8.054	8.030	8.076	VV	1549	23233	0.44%	0.027%
102	8.124	8.076	8.144	VV	2841	46804	0.89%	0.054%
103	8.158	8.144	8.188	VV	937	21630	0.41%	0.025%
104	8.208	8.188	8.250	VV	1264	30001	0.57%	0.034%
105	8.305	8.250	8.377	VV	417364	4455950	84.64%	5.101%
106	8.413	8.377	8.432	VV	855	19512	0.37%	0.022%
107	8.472	8.432	8.517	VV	1084	31047	0.59%	0.036%
108	8.537	8.517	8.561	VV	689	11162	0.21%	0.013%
109	8.575	8.561	8.586	VV	252	3334	0.06%	0.004%
110	8.616	8.586	8.645	VV	28257	294835	5.60%	0.338%
111	8.658	8.645	8.686	VV	1080	18551	0.35%	0.021%
112	8.714	8.686	8.739	VV	1195	20842	0.40%	0.024%
113	8.767	8.739	8.788	VV	989	18856	0.36%	0.022%
114	8.797	8.788	8.811	VV	685	8197	0.16%	0.009%
115	8.841	8.811	8.879	VV	4662	69215	1.31%	0.079%
116	8.896	8.879	8.942	VV	558	14734	0.28%	0.017%
117	8.960	8.942	8.975	VV	485	7248	0.14%	0.008%
118	9.024	8.975	9.047	VV	2507	50896	0.97%	0.058%
119	9.064	9.047	9.096	VV	1096	22708	0.43%	0.026%
120	9.127	9.096	9.197	VV	4506	89721	1.70%	0.103%
121	9.216	9.197	9.237	VV	633	9514	0.18%	0.011%
122	9.265	9.237	9.293	VV	441	8069	0.15%	0.009%
123	9.322	9.293	9.330	VV	221	3481	0.07%	0.004%
124	9.354	9.330	9.396	VV	410	11604	0.22%	0.013%
125	9.429	9.396	9.473	VV	681	17819	0.34%	0.020%
126	9.500	9.473	9.562	VV	2058	53186	1.01%	0.061%
127	9.581	9.562	9.610	VV	554	11259	0.21%	0.013%
128	9.635	9.610	9.660	VV	968	15605	0.30%	0.018%
129	9.687	9.660	9.724	VV	2519	30420	0.58%	0.035%
130	9.749	9.724	9.771	VV	201	3773	0.07%	0.004%
131	9.827	9.771	9.873	VV	617	16745	0.32%	0.019%
132	9.910	9.873	9.962	VV	458833	5022336	95.40%	5.750%
133	9.994	9.962	10.006	VV	474	10069	0.19%	0.012%
134	10.015	10.006	10.071	VV	487	10004	0.19%	0.011%
135	10.081	10.071	10.108	VV	256	2160	0.04%	0.002%
136	10.132	10.108	10.169	VV	133	3127	0.06%	0.004%
137	10.184	10.169	10.201	VV	258	3343	0.06%	0.004%
138	10.233	10.201	10.244	VV	406	6021	0.11%	0.007%
139	10.250	10.244	10.267	VV	245	3554	0.07%	0.004%
140	10.297	10.267	10.322	VV	2628	38039	0.72%	0.044%
141	10.342	10.322	10.360	VV	599	9578	0.18%	0.011%

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S-1MS

Manual IntegrationsAPPROVED

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					rters			
142	10.386	10.360	10.424	VV	624	13377	0.25%	0.015%
143	10.440	10.424	10.484	VV	480	8532		
144	10.511	10.484	10.521	VV	440	6707		
145	10.545	10.521	10.557	VV	593	10594		
146	10.575	10.557	10.611	VV	1069	20866		
147	10.647	10.611	10.688	VV	4561	63734		
148	10.720	10.688	10.754	VV	6670	105204	2.00%	0.120%
149	10.775	10.754	10.814	VV	1375	29036	0.55%	0.033%
150	10.819	10.814	10.824	VV	342	1624	0.03%	0.002%
151	10.839	10.824	10.884	VV	359	10268	0.20%	0.012%
152	10.902	10.884	10.921	VV	317	4663	0.09%	0.005%
153	10.936	10.921	10.944	VV	283	3061	0.06%	0.004%
154	10.971	10.944	11.008	VV	600	14405	0.27%	0.016%
155	11.044	11.008	11.061	VV	815	18862	0.36%	0.022%
156	11.075	11.061	11.091	VV	662	9118	0.17%	0.010%
157	11.102	11.091	11.123	VV	531	7328	0.14%	0.008%
158	11.155	11.123	11.194	VV	1680	23388	0.44%	0.027%
159	11.202	11.194	11.211	VV	181	1417	0.03%	0.002%
160	11.228	11.211	11.254	VV	206	4379	0.08%	0.005%
161	11.282	11.254	11.310	VV	1569	21412	0.41%	0.025%
162	11.355	11.310	11.407	VV	471384	5222988	99.21%	5.979%
163	11.443	11.407	11.525	VV	1483	30753	0.58%	0.035%
164	11.559	11.525	11.581	PV	143	2726	0.05%	0.003%
165	11.592	11.581	11.618	VV	132	1976	0.04%	0.002%
166	11.665	11.618	11.691	VV	328	10321	0.20%	0.012%
167	11.708	11.691	11.724	VV	386	5763	0.11%	0.007%
168	11.744	11.724	11.772	VV	934	15537	0.30%	0.018%
169	11.808	11.772	11.864	VV	522	17540	0.33%	0.020%
170	11.873	11.864	11.891	VV	213	2450	0.05%	0.003%
171	11.923	11.891	11.941	VV	299	7837	0.15%	0.009%
172	11.957	11.941	11.974	VV	803	11430	0.22%	0.013%
173	12.021	11.974	12.054	VV	4570	74629	1.42%	0.085%
174	12.068	12.054	12.092	VV	465	7972	0.15%	0.009%
175	12.116	12.092	12.140	VV	349	7568	0.14%	0.009%
176	12.159	12.140	12.168	VV	406	5343	0.10%	0.006%
177	12.179	12.168	12.207	VV	382	6716	0.13%	0.008%
178	12.243	12.207	12.274	VV	1005	23203	0.44%	0.027%
179	12.311	12.274	12.341	VV	646	15986	0.30%	0.018%
180	12.357	12.341	12.378	VV	664	9523	0.18%	0.011%
181	12.434	12.378	12.457	VV	945	24028	0.46%	0.028%
182	12.489	12.457	12.505	VV	1738	29830	0.57%	0.034%
183	12.525	12.505	12.560	VV	1891	33074	0.63%	0.038%
184	12.602	12.560	12.626	VV	1497	27233	0.52%	0.031%
185	12.667	12.626	12.706	VV	445219	5264771	100.00%	6.027%
186	12.722	12.706	12.764	VV	347	9399	0.18%	0.011%
187	12.782	12.764	12.792	VV	269	3695	0.07%	0.004%
188	12.808	12.792	12.854	VV	222	4034	0.08%	0.005%
189	12.934	12.854	12.978	PV	492	15769	0.30%	0.018%
190	12.986	12.978	13.008	VV	228	2506	0.05%	0.003%
191	13.061	13.008	13.072	VV	814	15474	0.29%	0.018%
192	13.112	13.072	13.151	VV	374166	4452548	84.57%	5.097%
193	13.161	13.151	13.188	VV	568	10708	0.20%	0.012%
194	13.220	13.188	13.240	VV	914	17226	0.33%	0.020%

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S-1MS

Manual IntegrationsAPPROVED

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195	13.280	13.240	13.318	VV	417489	4978008	94.55%	5.699%	
196	13.325	13.318	13.401	VV	475	19134			
197	13.407	13.401	13.431	VV	321	4429			
198	13.444	13.431	13.460	VV	309	4391			
199	13.502	13.460	13.518	VV	650	15775			
200	13.547	13.518	13.603	VV	818	28650			
201	13.623	13.603	13.636	VV	517	8108	0.15%	0.009%	
202	13.656	13.636	13.675	VV	994	15985	0.30%	0.018%	
203	13.704	13.675	13.752	VV	1731	39459	0.75%	0.045%	
204	13.812	13.752	13.829	VV	1536	33834	0.64%	0.039%	
205	13.867	13.829	13.906	VV	406690	4880375	92.70%	5.587%	
206	13.919	13.906	13.939	VV	624	9048	0.17%	0.010%	
207	13.952	13.939	13.980	VV	392	7694	0.15%	0.009%	
208	14.011	13.980	14.048	VV	531	14729	0.28%	0.017%	
209	14.100	14.048	14.120	VV	553	18046	0.34%	0.021%	
210	14.130	14.120	14.175	VV	439	11910	0.23%	0.014%	
211	14.194	14.175	14.214	VV	370	7479	0.14%	0.009%	
212	14.256	14.214	14.270	VV	716	17814	0.34%	0.020%	
213	14.299	14.270	14.344	VV	1643	36014	0.68%	0.041%	
214	14.380	14.344	14.398	VV	668	14609	0.28%	0.017%	
215	14.426	14.398	14.455	VV	3435	48323	0.92%	0.055%	
216	14.494	14.455	14.535	VV	480	17217	0.33%	0.020%	
217	14.571	14.535	14.611	VV	548	19379	0.37%	0.022%	
218	14.634	14.611	14.652	VV	471	9798	0.19%	0.011%	
219	14.684	14.652	14.698	VV	529	10990	0.21%	0.013%	
220	14.713	14.698	14.731	VV	491	8386	0.16%	0.010%	
221	14.744	14.731	14.759	VV	517	7594	0.14%	0.009%	
222	14.780	14.759	14.798	VV	701	12856	0.24%	0.015%	
223	14.824	14.798	14.843	VV	722	14692	0.28%	0.017%	
224	14.854	14.843	14.881	VV	567	8334	0.16%	0.010%	
225	14.923	14.881	14.934	VV	1216	19073	0.36%	0.022%	
226	14.972	14.934	15.090	VV	367159	4682679	88.94%	5.361%	
227	15.140	15.090	15.185	PV	342	11985	0.23%	0.014%	
228	15.193	15.185	15.203	VV	207	2208	0.04%	0.003%	
229	15.218	15.203	15.251	VV	204	4468	0.08%	0.005%	
230	15.310	15.251	15.344	VV	541	17007	0.32%	0.019%	
231	15.360	15.344	15.384	VV	408	7203	0.14%	0.008%	
232	15.400	15.384	15.414	VV	288	4390	0.08%	0.005%	
233	15.448	15.414	15.463	VV	473	9455	0.18%	0.011%	
234	15.490	15.463	15.521	VV	3714	52948	1.01%	0.061%	
235	15.541	15.521	15.610	VV	326	10355	0.20%	0.012%	
236	15.634	15.610	15.649	VV	241	3879	0.07%	0.004%	
237	15.670	15.649	15.694	VV	356	7424	0.14%	0.008%	
238	15.719	15.694	15.765	VV	316	9928	0.19%	0.011%	
239	15.815	15.765	15.902	VV	778	34951	0.66%	0.040%	
240	15.995	15.902	16.110	VV	346119	4432266	84.19%	5.074%	
241	16.162	16.110	16.184	PV	358	8571	0.16%	0.010%	
242	16.217	16.184	16.264	VV	421	11733	0.22%	0.013%	
243	16.301	16.264	16.331	VV	458	10698	0.20%	0.012%	
244	16.355	16.331	16.366	VV	360	5421	0.10%	0.006%	
245	16.377	16.366	16.405	VV	331	5130	0.10%	0.006%	
246	16.438	16.405	16.447	VV	348	6007	0.11%	0.007%	

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S-1MS

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				rters				
247	16.476	16.447	16.539	VV	3668	54544	1.04%	0.062%
248	16.648	16.539	16.680	PV	374	15869		
249	16.752	16.680	16.761	VV	378	13717		
250	16.775	16.761	16.794	VV	409	6267		
251	16.825	16.794	16.861	VV	544	14276		
252	16.946	16.861	17.018	VV	315322	4177364	79	
253	17.068	17.018	17.084	VV	427	13077	0.25%	0.015%
254	17.097	17.084	17.128	VV	432	7052	0.13%	0.008%
255	17.135	17.128	17.151	VV	281	2897	0.06%	0.003%
256	17.169	17.151	17.181	VV	241	3686	0.07%	0.004%
257	17.201	17.181	17.215	VV	373	5273	0.10%	0.006%
258	17.234	17.215	17.258	VV	289	5185	0.10%	0.006%
259	17.264	17.258	17.291	VV	265	4160	0.08%	0.005%
260	17.328	17.291	17.348	VV	502	12021	0.23%	0.014%
261	17.394	17.348	17.460	VV	3780	63527	1.21%	0.073%
262	17.529	17.460	17.562	PV	525	17966	0.34%	0.021%
263	17.570	17.562	17.591	VV	263	4112	0.08%	0.005%
264	17.608	17.591	17.619	VV	286	4337	0.08%	0.005%
265	17.624	17.619	17.636	VV	274	2477	0.05%	0.003%
266	17.681	17.636	17.694	VV	320	8233	0.16%	0.009%
267	17.723	17.694	17.757	VV	3284	52656	1.00%	0.060%
268	17.834	17.757	17.900	VV	285475	4039694	76.73%	4.625%
269	17.921	17.900	17.940	VV	256	4305	0.08%	0.005%
270	17.988	17.940	18.062	VV	691	19139	0.36%	0.022%
271	18.108	18.062	18.126	PV	374	8344	0.16%	0.010%
272	18.134	18.126	18.168	VV	237	4183	0.08%	0.005%
273	18.255	18.168	18.301	VV	3718	60736	1.15%	0.070%
274	18.356	18.301	18.381	PV	566	11665	0.22%	0.013%
275	18.387	18.381	18.409	VV	243	2895	0.05%	0.003%
276	18.420	18.409	18.442	VV	175	2039	0.04%	0.002%
277	18.517	18.442	18.537	VV	345	8684	0.16%	0.010%
278	18.563	18.537	18.582	VV	335	6126	0.12%	0.007%
279	18.669	18.582	18.731	VV	276337	3853018	73.18%	4.411%
280	18.781	18.731	18.805	VV	327	8589	0.16%	0.010%
281	18.835	18.805	18.891	VV	341	12361	0.23%	0.014%
282	18.971	18.891	18.988	VV	188	7839	0.15%	0.009%
283	19.065	18.988	19.131	VV	3497	64608	1.23%	0.074%
284	19.181	19.131	19.211	VV	380	11967	0.23%	0.014%
285	19.263	19.211	19.283	VV	410	14516	0.28%	0.017%
286	19.313	19.283	19.331	VV	466	9944	0.19%	0.011%
287	19.455	19.331	19.523	VV	266255	3825796	72.67%	4.380%
288	19.610	19.523	19.634	VV	684	38911	0.74%	0.045%
289	19.690	19.634	19.710	VV	816	32030	0.61%	0.037%
290	19.827	19.710	19.864	VV	2703	105311	2.00%	0.121%
291	20.099	19.864	20.134	VV	2097	222102	4.22%	0.254%
292	20.196	20.134	20.241	VV	249199	3814297	72.45%	4.367%
293	20.502	20.241	20.521	VV	2537	382341	7.26%	0.438%
294	20.556	20.521	20.606	VV	3783	141797	2.69%	0.162%
295	20.660	20.606	20.678	VV	2293	97516	1.85%	0.112%
296	20.746	20.678	20.848	VV	2313	219825	4.18%	0.252%
297	20.861	20.848	20.908	VV	1970	67690	1.29%	0.077%
298	20.965	20.908	21.048	VV	200631	3871324	73.53%	4.432%
299	21.069	21.048	21.181	VV	1687	124871	2.37%	0.143%

Instrument :

FID_C

ClientSampleId :

S-1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

					rters			
300	21.202	21.181	21.274	VV	1448	76062		
301	21.305	21.274	21.358	VV	1287	62898		
302	21.415	21.358	21.519	VV	1877	121111		
303	21.539	21.519	21.571	VV	992	29469		
304	21.590	21.571	21.648	VV	866	37826		
305	21.677	21.648	21.714	VV	706	27180		
306	21.732	21.714	21.844	VV	621	41707	0.79%	0.048%
307	21.934	21.844	22.048	VV	149753	3695486	70.19%	4.231%
Sum of corrected areas:						87351736		

Instrument :
FID_C
ClientSampleId :
S-1MS

Manual IntegrationsAPPROVED
Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Aliphatic EPH 061825.M Thu Jun 26 05:40:16 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	S-1MS	SDG No.:	Q2392
Lab Sample ID:	Q2392-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
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
FD049519.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.12		0.13	0.72	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.91		0.25	1.08	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.8		0.43	1.81	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.6		1.29	2.89	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.7		40 - 140	113%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	54.6		40 - 140	109%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.1		40 - 140	64%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2392-01MS	Acq On:	25 Jun 2025 14:14
Client Sample ID:	S-1MS	Operator:	YP/AJ
Data file:	FD049519.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	4.429	6.172	10607693	84.737	200	ug/ml
Aromatic C12-C16	6.173	8.800	20458684	137.169	300	ug/ml
Aromatic C16-C21	8.801	13.090	47375296	301.555	500	ug/ml
Aromatic C21-C36	13.091	18.510	66105215	478.504	800	ug/ml
Aromatic EPH	4.429	18.510	144546888	1000		ug/ml
ortho-Terphenyl (SURR)	11.645	11.645	5085132	32.07		ug/ml
2-Bromonaphthalene (SURR)	7.738	7.738	7224223	56.66		ug/ml
2-Fluorobiphenyl (SURR)	8.604	8.604	4851178	54.64		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
 Data File : FD049519.D
 Signal(s) : FID2B.ch
 Acq On : 25 Jun 2025 14:14
 Operator : YP/AJ
 Sample : Q2392-01MS
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :

FID_D

ClientSampleId :

S-1MS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e

Quant Time: Jun 26 05:37:16 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M

Quant Title : GC Extractables

QLast Update : Wed Jun 18 15:23:20 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...	7.738	7224223	56.658 ug/ml
Spiked Amount 50.000		Recovery =	113.32%
6) S 2-Fluorobiphenyl (SURR)	8.604	4851178	54.637 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	109.27%
11) S ortho-Terphenyl (SURR)	11.645	5085132	32.065 ug/ml
Spiked Amount 50.000		Recovery =	64.13%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.532	4178265	35.976 ug/ml
2) T Naphthalene (C11.7)	6.073	5122514	38.163 ug/ml
3) T 2-Methylnaphthalene (...)	7.127	5199241	36.799 ug/ml
5) T Acenaphthylene (C15.06)	8.406	6291340	40.242 ug/ml
7) T Acenaphthene (C15.5)	8.703	6364326	42.478 ug/ml
8) T Flouorene (C16.55)	9.484	6968792	45.300 ug/ml
9) T Phenanthrene (C19.36)	10.882	7625238	47.848 ug/ml
10) T Anthracene (C19.43)	10.958	7588818	48.335 ug/ml
12) T Fluoranthene (C21.85)	12.697	7952507	50.223 ug/ml
13) T Pyrene (C20.8)	12.996	8056791	50.925 ug/ml
14) T Benzo[a]anthracene (C...	14.868	7754212	52.542 ug/ml
15) T Chrysene (C27.41)	14.913	8541766	57.306 ug/ml
16) T benzo[b]fluoranthene ...	16.420	7347076	52.287 ug/ml
17) T Bnezo[k]fluoranthene ...	16.456	7243643	54.538 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.800	7045323	51.533 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.166	7385767	60.325 ug/mlm
20) T Dibenz[a,h]anthracene...	18.205	6619334	51.688 ug/mlm
21) T Benzo[g,h,i]perylene ...	18.424	6489790	50.770 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049519.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 14:14
Operator : YP/AJ
Sample : Q2392-01MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

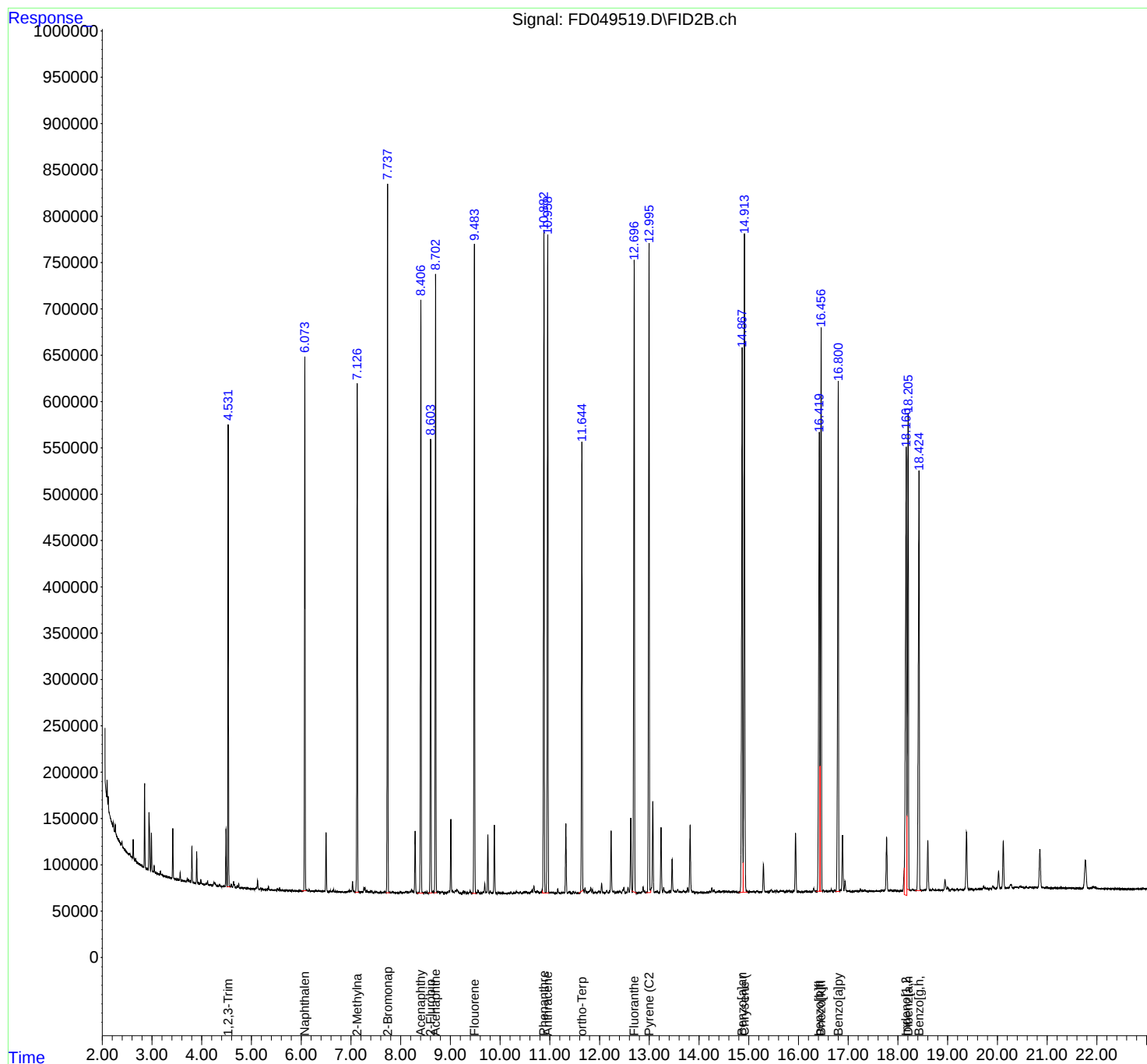
Instrument :
FID_D
ClientSampleId :
S-1MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:37:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 15:23:20 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :

FID_D

ClientSampleId :

S-1MS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD06252
Data File : FD049519.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 14:14
Sample : Q2392-01MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.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	4.360	4.345	4.402	PV	2466	26151	0.31%	0.016%
2	4.420	4.402	4.425	PV	296	2547	0.03%	0.002%
3	4.442	4.425	4.462	VV	689	9667	0.11%	0.006%
4	4.489	4.462	4.509	VV	62596	550962	6.43%	0.338%
5	4.532	4.509	4.556	VV	499431	4186799	48.87%	2.570%
6	4.564	4.556	4.579	VV	1400	13432	0.16%	0.008%
7	4.595	4.579	4.618	VV	3695	40600	0.47%	0.025%
8	4.640	4.618	4.652	VV	6738	67700	0.79%	0.042%
9	4.657	4.652	4.687	VV	3543	33108	0.39%	0.020%
10	4.692	4.687	4.697	VV	512	2518	0.03%	0.002%
11	4.713	4.697	4.728	VV	2835	28183	0.33%	0.017%
12	4.743	4.728	4.769	VV	5063	45742	0.53%	0.028%
13	4.794	4.777	4.812	VV	1219	10766	0.13%	0.007%
14	4.824	4.812	4.839	VV	787	7788	0.09%	0.005%
15	4.863	4.839	4.886	VV	916	15485	0.18%	0.010%
16	4.913	4.886	4.924	PV	611	8194	0.10%	0.005%
17	4.931	4.924	4.954	VV	787	8746	0.10%	0.005%
18	4.962	4.954	4.988	VV	409	3150	0.04%	0.002%
19	4.997	4.988	5.005	PV	211	1246	0.01%	0.001%
20	5.010	5.005	5.017	VV	303	1077	0.01%	0.001%
21	5.045	5.032	5.063	VV	531	4820	0.06%	0.003%
22	5.096	5.063	5.106	PV	2143	22466	0.26%	0.014%
23	5.123	5.106	5.154	VV	9666	104226	1.22%	0.064%
24	5.181	5.154	5.198	VV	1825	21361	0.25%	0.013%
25	5.212	5.198	5.217	VV	539	4628	0.05%	0.003%
26	5.225	5.217	5.248	VV	571	6153	0.07%	0.004%
27	5.262	5.248	5.282	VV	285	3772	0.04%	0.002%
28	5.315	5.282	5.325	PV	739	8392	0.10%	0.005%
29	5.342	5.325	5.383	VV	3872	41593	0.49%	0.026%
30	5.402	5.383	5.424	VV	629	8664	0.10%	0.005%
31	5.428	5.424	5.444	VV	327	1912	0.02%	0.001%
32	5.480	5.444	5.505	VV	491	10388	0.12%	0.006%
33	5.523	5.505	5.542	VV	2100	22228	0.26%	0.014%
34	5.565	5.542	5.588	VV	3365	35481	0.41%	0.022%
35	5.593	5.588	5.606	VV	471	3868	0.05%	0.002%
36	5.621	5.606	5.648	VV	864	10638	0.12%	0.007%

					retention			
37	5.664	5.648	5.675	PV	279	2597	0.03%	0.002%
38	5.685	5.675	5.698	VV	379	4101	0.03%	0.002%
39	5.707	5.698	5.729	VV	576	7088	0.03%	0.002%
40	5.733	5.729	5.753	VV	257	2691	0.03%	0.002%
41	5.768	5.753	5.784	VV	442	5364	0.03%	0.002%
42	5.814	5.794	5.847	VV	483	9781	0.03%	0.002%
43	5.864	5.847	5.883	VV	420	5980	0.07%	0.004%
44	5.889	5.883	5.895	VV	311	1797	0.02%	0.001%
45	5.899	5.895	5.925	VV	426	2887	0.03%	0.002%
46	5.931	5.925	5.937	VV	289	1376	0.02%	0.001%
47	5.951	5.937	5.969	VV	509	6654	0.08%	0.004%
48	5.979	5.969	6.000	VV	583	5744	0.07%	0.004%
49	6.027	6.000	6.036	VV	562	8429	0.10%	0.005%
50	6.073	6.036	6.106	VV	576883	5150239	60.12%	3.162%
51	6.118	6.106	6.145	VV	1560	18388	0.21%	0.011%
52	6.161	6.145	6.198	VV	2349	28824	0.34%	0.018%
53	6.223	6.198	6.259	VV	922	18647	0.22%	0.011%
54	6.296	6.259	6.325	VV	1157	27233	0.32%	0.017%
55	6.329	6.325	6.334	VV	700	3307	0.04%	0.002%
56	6.349	6.334	6.373	VV	1457	20537	0.24%	0.013%
57	6.401	6.373	6.412	VV	655	12368	0.14%	0.008%
58	6.417	6.412	6.421	VV	638	3412	0.04%	0.002%
59	6.426	6.421	6.443	VV	733	7153	0.08%	0.004%
60	6.458	6.443	6.474	VV	872	13796	0.16%	0.008%
61	6.501	6.474	6.567	VV	64090	633824	7.40%	0.389%
62	6.585	6.567	6.604	VV	1524	15033	0.18%	0.009%
63	6.620	6.604	6.635	VV	1201	13197	0.15%	0.008%
64	6.650	6.635	6.669	VV	2900	30495	0.36%	0.019%
65	6.683	6.669	6.709	VV	1001	14199	0.17%	0.009%
66	6.722	6.709	6.750	VV	1520	16402	0.19%	0.010%
67	6.766	6.750	6.774	VV	403	3668	0.04%	0.002%
68	6.783	6.774	6.800	VV	366	3471	0.04%	0.002%
69	6.809	6.800	6.815	VV	333	2323	0.03%	0.001%
70	6.827	6.815	6.853	VV	555	7966	0.09%	0.005%
71	6.877	6.853	6.892	PV	565	8087	0.09%	0.005%
72	6.902	6.892	6.920	VV	497	6428	0.08%	0.004%
73	6.943	6.920	6.955	VV	1672	19938	0.23%	0.012%
74	6.969	6.955	6.982	VV	3067	31417	0.37%	0.019%
75	6.997	6.982	7.010	VV	2319	28284	0.33%	0.017%
76	7.034	7.010	7.089	VV	12053	156381	1.83%	0.096%
77	7.127	7.089	7.159	VV	549648	5217321	60.90%	3.203%
78	7.175	7.159	7.188	VV	726	10263	0.12%	0.006%
79	7.202	7.188	7.219	VV	1043	13369	0.16%	0.008%
80	7.229	7.219	7.243	VV	796	9355	0.11%	0.006%
81	7.261	7.243	7.272	VV	5522	54694	0.64%	0.034%
82	7.284	7.272	7.302	VV	5459	59531	0.69%	0.037%
83	7.316	7.302	7.332	VV	2215	26051	0.30%	0.016%
84	7.342	7.332	7.357	VV	1710	17552	0.20%	0.011%
85	7.361	7.357	7.373	VV	934	6970	0.08%	0.004%
86	7.392	7.373	7.403	VV	1787	20941	0.24%	0.013%
87	7.419	7.403	7.444	VV	2321	29610	0.35%	0.018%
88	7.487	7.444	7.502	VV	1332	24938	0.29%	0.015%
89	7.514	7.502	7.540	VV	1695	19274	0.22%	0.012%

Instrument :

FID_D

ClientSampleId :

S-1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

90	7.554	7.540	7.569	VV	419	5234	0.06%	0.003%
91	7.572	7.569	7.590	VV	353	3974		
92	7.598	7.590	7.618	VV	932	10201		
93	7.652	7.618	7.667	VV	683	15745		
94	7.684	7.667	7.706	VV	2162	24745		
95	7.738	7.706	7.796	VV	763799	7243214	84	
96	7.805	7.796	7.813	VV	505	4308	0.05%	0.003%
97	7.848	7.813	7.870	VV	1520	30488	0.36%	0.019%
98	7.875	7.870	7.900	VV	532	7130	0.08%	0.004%
99	7.905	7.900	7.930	VV	444	5079	0.06%	0.003%
100	7.941	7.930	7.968	PV	522	5489	0.06%	0.003%
101	7.987	7.968	8.006	VV	1517	19075	0.22%	0.012%
102	8.014	8.006	8.034	VV	925	11336	0.13%	0.007%
103	8.037	8.034	8.057	VV	465	6024	0.07%	0.004%
104	8.076	8.057	8.087	VV	783	10259	0.12%	0.006%
105	8.116	8.087	8.151	VV	1942	46781	0.55%	0.029%
106	8.189	8.151	8.203	VV	1352	34254	0.40%	0.021%
107	8.220	8.203	8.235	VV	4561	50601	0.59%	0.031%
108	8.247	8.235	8.264	VV	2948	32523	0.38%	0.020%
109	8.291	8.264	8.319	VV	67430	697510	8.14%	0.428%
110	8.325	8.319	8.333	VV	606	3685	0.04%	0.002%
111	8.337	8.333	8.342	VV	430	1979	0.02%	0.001%
112	8.345	8.342	8.358	VV	369	3700	0.04%	0.002%
113	8.406	8.358	8.467	VV	641486	6306026	73.61%	3.871%
114	8.492	8.467	8.507	VV	1402	20539	0.24%	0.013%
115	8.527	8.507	8.558	VV	1258	21863	0.26%	0.013%
116	8.604	8.558	8.630	VV	489929	4868114	56.83%	2.988%
117	8.652	8.630	8.670	VV	1958	31951	0.37%	0.020%
118	8.703	8.670	8.730	VV	668594	6389400	74.58%	3.922%
119	8.749	8.730	8.766	VV	2027	33035	0.39%	0.020%
120	8.776	8.766	8.790	VV	1543	18315	0.21%	0.011%
121	8.801	8.790	8.809	VV	1249	11835	0.14%	0.007%
122	8.827	8.809	8.873	VV	1716	42603	0.50%	0.026%
123	8.892	8.873	8.917	VV	1069	18148	0.21%	0.011%
124	8.942	8.917	8.954	VV	1534	22838	0.27%	0.014%
125	8.970	8.954	8.985	VV	3155	39187	0.46%	0.024%
126	9.010	8.985	9.032	VV	80259	796677	9.30%	0.489%
127	9.040	9.032	9.077	VV	2742	51948	0.61%	0.032%
128	9.105	9.077	9.119	VV	3621	62281	0.73%	0.038%
129	9.130	9.119	9.181	VV	4218	95275	1.11%	0.058%
130	9.198	9.181	9.223	VV	937	10060	0.12%	0.006%
131	9.260	9.223	9.278	PV	2817	38162	0.45%	0.023%
132	9.293	9.278	9.318	VV	2159	27169	0.32%	0.017%
133	9.333	9.318	9.365	VV	817	15615	0.18%	0.010%
134	9.396	9.365	9.437	VV	3104	55310	0.65%	0.034%
135	9.441	9.437	9.450	VV	610	4742	0.06%	0.003%
136	9.484	9.450	9.530	VV	700931	6980906	81.49%	4.285%
137	9.558	9.530	9.590	VV	3139	49681	0.58%	0.030%
138	9.614	9.590	9.620	VV	775	8887	0.10%	0.005%
139	9.626	9.620	9.641	VV	738	7815	0.09%	0.005%
140	9.659	9.641	9.672	VV	1977	24906	0.29%	0.015%
141	9.692	9.672	9.713	VV	10915	122792	1.43%	0.075%

Instrument :

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ClientSampleId :

S-1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

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				rters				
142	9.723	9.713	9.732	VV	1693	16210	0.19%	0.010%
143	9.754	9.732	9.779	VV	63162	631035		
144	9.801	9.779	9.845	VV	2935	49658		
145	9.852	9.845	9.857	VV	750	4606		
146	9.885	9.857	9.945	VV	74116	802416		
147	9.963	9.945	9.977	VV	1643	18229		
148	9.994	9.977	10.024	VV	934	19031	0.22%	0.012%
149	10.060	10.024	10.110	VV	1139	22124	0.26%	0.014%
150	10.113	10.110	10.132	VV	196	1787	0.02%	0.001%
151	10.163	10.144	10.187	PV	929	12149	0.14%	0.007%
152	10.217	10.187	10.242	VV	1917	30043	0.35%	0.018%
153	10.248	10.242	10.254	VV	495	2889	0.03%	0.002%
154	10.276	10.254	10.300	VV	1057	18810	0.22%	0.012%
155	10.324	10.300	10.340	VV	2205	31934	0.37%	0.020%
156	10.353	10.340	10.384	VV	1709	28246	0.33%	0.017%
157	10.406	10.384	10.428	VV	2404	34392	0.40%	0.021%
158	10.446	10.428	10.451	VV	625	6433	0.08%	0.004%
159	10.472	10.451	10.498	VV	1869	35503	0.41%	0.022%
160	10.526	10.498	10.561	VV	2144	51468	0.60%	0.032%
161	10.576	10.561	10.590	VV	1363	16580	0.19%	0.010%
162	10.621	10.590	10.625	VV	1917	29117	0.34%	0.018%
163	10.644	10.625	10.658	VV	3958	52114	0.61%	0.032%
164	10.680	10.658	10.714	VV	8073	133908	1.56%	0.082%
165	10.753	10.714	10.769	VV	2772	66865	0.78%	0.041%
166	10.777	10.769	10.791	VV	1813	18841	0.22%	0.012%
167	10.816	10.791	10.828	VV	1547	25203	0.29%	0.015%
168	10.845	10.828	10.850	VV	3941	35457	0.41%	0.022%
169	10.882	10.850	10.921	VV	717006	7654092	89.35%	4.699%
170	10.958	10.921	10.987	VV	711353	7620805	88.96%	4.678%
171	11.002	10.987	11.015	VV	1175	19154	0.22%	0.012%
172	11.026	11.015	11.039	VV	1320	16739	0.20%	0.010%
173	11.053	11.039	11.088	VV	1561	30796	0.36%	0.019%
174	11.093	11.088	11.112	VV	889	6310	0.07%	0.004%
175	11.126	11.112	11.141	VV	615	8224	0.10%	0.005%
176	11.160	11.141	11.205	VV	5227	67609	0.79%	0.042%
177	11.253	11.205	11.282	VV	1399	37609	0.44%	0.023%
178	11.285	11.282	11.293	VV	877	5198	0.06%	0.003%
179	11.322	11.293	11.354	VV	75255	845202	9.87%	0.519%
180	11.382	11.354	11.392	VV	1555	26300	0.31%	0.016%
181	11.404	11.392	11.445	VV	1593	27066	0.32%	0.017%
182	11.475	11.445	11.494	VV	2249	29220	0.34%	0.018%
183	11.519	11.494	11.545	VV	1438	21764	0.25%	0.013%
184	11.565	11.545	11.582	VV	865	10582	0.12%	0.006%
185	11.645	11.582	11.670	PV	487933	5186587	60.54%	3.184%
186	11.676	11.670	11.691	VV	4122	36479	0.43%	0.022%
187	11.707	11.691	11.727	VV	6145	75851	0.89%	0.047%
188	11.736	11.727	11.762	VV	1724	27667	0.32%	0.017%
189	11.824	11.762	11.840	VV	5996	126027	1.47%	0.077%
190	11.856	11.840	11.885	VV	4375	56899	0.66%	0.035%
191	11.893	11.885	11.902	VV	749	5457	0.06%	0.003%
192	11.924	11.902	11.944	VV	1208	21894	0.26%	0.013%
193	11.990	11.944	12.008	VV	2517	57979	0.68%	0.036%
194	12.041	12.008	12.071	VV	10804	144295	1.68%	0.089%

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S-1MS

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					rters							
195	12.084	12.071	12.102	VV	993	13138	0.15%	0.008%				
196	12.145	12.102	12.179	VV	3265	57573						
197	12.232	12.179	12.272	VV	67577	806297						
198	12.288	12.272	12.310	VV	1927	33095						
199	12.328	12.310	12.334	VV	1037	12533						
200	12.349	12.334	12.367	VV	1478	23277						
201	12.371	12.367	12.384	VV	1368	13015	0.15%	0.008%				
202	12.400	12.384	12.432	VV	1951	43995	0.51%	0.027%				
203	12.489	12.432	12.517	VV	6237	136056	1.59%	0.084%				
204	12.522	12.517	12.528	VV	732	4467	0.05%	0.003%				
205	12.572	12.528	12.595	VV	6262	102186	1.19%	0.063%				
206	12.628	12.595	12.660	VV	81334	997687	11.65%	0.612%				
207	12.697	12.660	12.743	VV	683109	8011520	93.52%	4.918%				
208	12.788	12.743	12.806	VV	649	11579	0.14%	0.007%				
209	12.813	12.806	12.827	VV	461	4978	0.06%	0.003%				
210	12.848	12.827	12.859	VV	1481	17742	0.21%	0.011%				
211	12.876	12.859	12.895	VV	6781	79899	0.93%	0.049%				
212	12.904	12.895	12.940	VV	1954	33068	0.39%	0.020%				
213	12.949	12.940	12.955	VV	1096	7973	0.09%	0.005%				
214	12.996	12.955	13.029	VV	699311	8076723	94.28%	4.958%				
215	13.043	13.029	13.046	VV	5793	49695	0.58%	0.031%				
216	13.071	13.046	13.104	VV	98637	1177697	13.75%	0.723%				
217	13.121	13.104	13.139	VV	1447	24026	0.28%	0.015%				
218	13.157	13.139	13.182	VV	1801	32146	0.38%	0.020%				
219	13.184	13.182	13.202	VV	590	5214	0.06%	0.003%				
220	13.237	13.202	13.272	VV	70902	865541	10.10%	0.531%				
221	13.289	13.272	13.307	VV	5693	72359	0.84%	0.044%				
222	13.314	13.307	13.342	VV	2023	25456	0.30%	0.016%				
223	13.355	13.342	13.362	VV	543	5699	0.07%	0.003%				
224	13.381	13.362	13.393	VV	1347	16950	0.20%	0.010%				
225	13.412	13.393	13.427	VV	1749	24190	0.28%	0.015%				
226	13.459	13.427	13.512	VV	36564	461183	5.38%	0.283%				
227	13.515	13.512	13.522	VV	1546	8715	0.10%	0.005%				
228	13.534	13.522	13.551	VV	1800	26078	0.30%	0.016%				
229	13.571	13.551	13.599	VV	3788	65478	0.76%	0.040%				
230	13.607	13.599	13.623	VV	1160	14399	0.17%	0.009%				
231	13.641	13.623	13.656	VV	1532	22480	0.26%	0.014%				
232	13.684	13.656	13.706	VV	2094	42381	0.49%	0.026%				
233	13.717	13.706	13.733	VV	1489	18942	0.22%	0.012%				
234	13.773	13.733	13.793	VV	5150	83528	0.98%	0.051%				
235	13.822	13.793	13.870	VV	72998	911645	10.64%	0.560%				
236	13.889	13.870	13.927	VV	1925	28044	0.33%	0.017%				
237	13.950	13.927	13.976	VV	786	12011	0.14%	0.007%				
238	13.981	13.976	14.010	PV	322	3613	0.04%	0.002%				
239	14.035	14.010	14.049	VV	421	6873	0.08%	0.004%				
240	14.050	14.049	14.067	VV	431	2812	0.03%	0.002%				
241	14.073	14.067	14.087	VV	319	2808	0.03%	0.002%				
242	14.094	14.087	14.112	VV	269	2108	0.02%	0.001%				
243	14.117	14.112	14.138	VV	186	1609	0.02%	0.001%				
244	14.156	14.138	14.175	VV	681	6044	0.07%	0.004%				
245	14.187	14.175	14.192	VV	439	3213	0.04%	0.002%				
246	14.211	14.192	14.232	VV	1437	20611	0.24%	0.013%				

Instrument :

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S-1MS

0.15% 0.008%

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						Instrument :	
						FID_D	
						ClientSampleId :	
						S-1MS	
rteres						0.90%	0.047%
247	14.258	14.232	14.282	VV	5325	77354	
248	14.301	14.282	14.335	VV	3158	51753	
249	14.355	14.335	14.364	VV	591	8778	
250	14.383	14.364	14.398	VV	1651	23887	
251	14.409	14.398	14.437	VV	1352	23707	
252	14.447	14.437	14.455	VV	676	6012	
253	14.484	14.455	14.502	VV	1823	36621	0.43%
254	14.513	14.502	14.530	VV	1225	15795	0.18%
255	14.547	14.530	14.565	VV	1712	26148	0.31%
256	14.574	14.565	14.584	VV	963	9749	0.11%
257	14.602	14.584	14.630	VV	1261	22451	0.26%
258	14.640	14.630	14.650	VV	684	6411	0.07%
259	14.667	14.650	14.689	VV	1085	19429	0.23%
260	14.703	14.689	14.720	VV	1209	18082	0.21%
261	14.733	14.720	14.750	VV	1062	16170	0.19%
262	14.753	14.750	14.782	VV	816	9521	0.11%
263	14.789	14.782	14.797	VV	231	1198	0.01%
264	14.868	14.797	14.886	VV	583240	7766800	90.66%
265	14.913	14.886	14.980	VV	712480	8566708	100.00%
266	14.984	14.980	15.005	VV	741	9945	0.12%
267	15.014	15.005	15.040	VV	910	14519	0.17%
268	15.046	15.040	15.064	VV	665	7941	0.09%
269	15.098	15.064	15.137	VV	1270	29464	0.34%
270	15.163	15.137	15.175	VV	1318	22298	0.26%
271	15.180	15.175	15.202	VV	1092	12325	0.14%
272	15.212	15.202	15.238	VV	692	10332	0.12%
273	15.242	15.238	15.251	VV	377	2861	0.03%
274	15.295	15.251	15.367	VV	30560	416451	4.86%
275	15.372	15.367	15.387	VV	705	7417	0.09%
276	15.401	15.387	15.405	VV	653	5928	0.07%
277	15.456	15.405	15.479	VV	2440	56318	0.66%
278	15.496	15.479	15.503	VV	874	11105	0.13%
279	15.526	15.503	15.547	VV	2459	34532	0.40%
280	15.564	15.547	15.599	VV	1997	31284	0.37%
281	15.651	15.599	15.685	VV	1698	55346	0.65%
282	15.697	15.685	15.733	VV	1357	24931	0.29%
283	15.767	15.733	15.784	VV	1490	27362	0.32%
284	15.814	15.784	15.836	VV	1842	37582	0.44%
285	15.848	15.836	15.877	VV	818	15037	0.18%
286	15.902	15.877	15.912	VV	1425	21222	0.25%
287	15.941	15.912	15.985	VV	63678	827202	9.66%
288	15.998	15.985	16.020	VV	799	11385	0.13%
289	16.028	16.020	16.044	VV	283	2689	0.03%
290	16.057	16.051	16.074	VV	156	1101	0.01%
291	16.082	16.074	16.087	VV	305	1425	0.02%
292	16.142	16.100	16.180	PV	1146	28819	0.34%
293	16.197	16.180	16.207	VV	616	7904	0.09%
294	16.227	16.207	16.250	VV	813	13425	0.16%
295	16.275	16.250	16.280	PV	533	5237	0.06%
296	16.306	16.280	16.367	VV	3926	75891	0.89%
297	16.420	16.367	16.435	VV	495945	7379986	86.15%
298	16.456	16.435	16.484	VV	610639	7270218	84.87%
299	16.502	16.484	16.530	VV	2272	34067	0.40%

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300	16.552	16.530	16.595	VV	1269	28434	0.33%	0.017%
301	16.616	16.595	16.642	VV	1020	18074		
302	16.660	16.642	16.687	VV	2422	31610		
303	16.728	16.687	16.751	VV	2136	41443		
304	16.800	16.751	16.827	VV	549964	7062597	82.10%	4.574%
305	16.851	16.827	16.855	VV	1813	22353		
306	16.886	16.855	16.914	VV	61098	829311	9.68%	0.509%
307	16.937	16.914	16.983	VV	11547	168206	1.96%	0.103%
308	16.989	16.983	16.992	VV	738	2910	0.03%	0.002%
309	16.995	16.992	17.008	VV	734	5775	0.07%	0.004%
310	17.025	17.008	17.031	VV	740	8507	0.10%	0.005%
311	17.033	17.031	17.061	VV	618	5803	0.07%	0.004%
312	17.067	17.061	17.087	VV	341	3198	0.04%	0.002%
313	17.119	17.097	17.123	VV	475	3674	0.04%	0.002%
314	17.149	17.123	17.165	VV	794	14890	0.17%	0.009%
315	17.173	17.165	17.195	VV	648	8670	0.10%	0.005%
316	17.205	17.195	17.216	VV	478	4271	0.05%	0.003%
317	17.245	17.216	17.265	VV	2218	35470	0.41%	0.022%
318	17.283	17.265	17.308	VV	1317	21559	0.25%	0.013%
319	17.334	17.308	17.385	VV	1883	36148	0.42%	0.022%
320	17.407	17.385	17.414	VV	354	3559	0.04%	0.002%
321	17.448	17.414	17.469	VV	838	18192	0.21%	0.011%
322	17.488	17.469	17.519	VV	576	10804	0.13%	0.007%
323	17.531	17.519	17.551	VV	444	5699	0.07%	0.003%
324	17.567	17.551	17.574	VV	753	6246	0.07%	0.004%
325	17.577	17.574	17.584	VV	548	2883	0.03%	0.002%
326	17.590	17.584	17.597	VV	377	2275	0.03%	0.001%
327	17.602	17.597	17.617	VV	333	3359	0.04%	0.002%
328	17.640	17.617	17.647	VV	581	7804	0.09%	0.005%
329	17.662	17.647	17.683	VV	1115	17221	0.20%	0.011%
330	17.695	17.683	17.710	VV	1005	14146	0.17%	0.009%
331	17.772	17.710	17.807	VV	58205	813418	9.50%	0.499%
332	17.818	17.807	17.837	VV	847	12332	0.14%	0.008%
333	17.861	17.837	17.905	VV	1533	33796	0.39%	0.021%
334	17.947	17.905	17.972	VV	1087	24706	0.29%	0.015%
335	17.990	17.972	18.032	VV	590	13024	0.15%	0.008%
336	18.058	18.032	18.081	PV	772	13960	0.16%	0.009%
337	18.087	18.081	18.090	VV	315	1285	0.02%	0.001%
338	18.166	18.090	18.181	VV	479784	7451631	86.98%	4.574%
339	18.205	18.181	18.261	VV	515991	6690799	78.10%	4.107%
340	18.289	18.261	18.306	VV	1752	29295	0.34%	0.018%
341	18.319	18.306	18.341	VV	1194	16250	0.19%	0.010%
342	18.354	18.341	18.359	VV	478	4576	0.05%	0.003%
343	18.424	18.359	18.482	VV	452214	6513763	76.04%	3.999%
344	18.487	18.482	18.490	VV	403	1919	0.02%	0.001%
345	18.495	18.490	18.504	VV	419	3091	0.04%	0.002%
346	18.515	18.504	18.521	VV	598	5317	0.06%	0.003%
347	18.541	18.521	18.559	VV	1259	20910	0.24%	0.013%
348	18.601	18.559	18.664	VV	54174	770531	8.99%	0.473%
349	18.701	18.664	18.731	VV	1585	27969	0.33%	0.017%
350	18.762	18.731	18.799	VV	788	17390	0.20%	0.011%
351	18.802	18.799	18.819	VV	528	4758	0.06%	0.003%

Instrument :

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S-1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

					rt	Area	Area%
352	18.829	18.819	18.855	VV	329	4862	0.06%
353	18.871	18.855	18.884	VV	557	6418	0.003%
354	18.887	18.884	18.911	VV	604	3471	0.003%
355	18.946	18.911	18.980	PV	10834	163426	2.00%

Sum of corrected areas: 1628

Instrument :
FID_D
ClientSampleId :
S-1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Aromatic EPH 061825.M Thu Jun 26 06:08:10 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	S-1MSD	SDG No.:	Q2392
Lab Sample ID:	Q2392-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
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
06/24/25 13:45	06/25/25 14:59	PB168603

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	5.40		1	0.15	1.08	mg/kg FC069284.D
Aliphatic C12-C16	Aliphatic C12-C16	4.98		1	0.12	0.72	mg/kg FC069284.D
Aliphatic C16-C21	Aliphatic C16-C21	7.63		1	0.14	1.08	mg/kg FC069284.D
Aliphatic C21-C28	Aliphatic C21-C28	10.1		1	0.57	1.44	mg/kg FC069284.D
Aliphatic C28-C40	Aliphatic C28-C40	19.9		1	1.28	2.16	mg/kg FC069284.D
Aromatic C10-C12	Aromatic C10-C12	6.06		1	0.13	0.72	mg/kg FD049520.D
Aromatic C12-C16	Aromatic C12-C16	9.78		1	0.25	1.08	mg/kg FD049520.D
Aromatic C16-C21	Aromatic C16-C21	24.0		1	0.43	1.80	mg/kg FD049520.D
Aromatic C21-C36	Aromatic C21-C36	34.7		1	1.29	2.88	mg/kg FD049520.D
Total AliphaticEPH	Total AliphaticEPH	48.0			2.26	6.48	mg/kg
Total AromaticEPH	Total AromaticEPH	74.5			2.10	6.48	mg/kg
Total EPH	Total EPH	123			4.37	13.0	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

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	S-1MSD	SDG No.:	Q2392
Lab Sample ID:	Q2392-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
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
FC069284.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.40		0.15	1.08	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.98		0.12	0.72	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	7.63		0.14	1.08	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.1		0.57	1.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.9		1.28	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.5		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2392-01MSD	Acq On:	25 Jun 2025 14:59
Client Sample ID:	S-1MSD	Operator:	YP/AJ
Data file:	FC069284.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	3.306	6.605	10986436	74.901	300	ug/ml
Aliphatic C12-C16	6.606	10.009	10992279	69.042	200	ug/ml
Aliphatic C16-C21	10.010	13.380	16330319	105.743	300	ug/ml
Aliphatic C21-C28	13.381	17.044	18801494	140.345	400	ug/ml
Aliphatic C28-C40	17.045	22.027	25363788	275.321	600	ug/ml
Aliphatic EPH	3.306	22.027	82474316	665.352		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.112	13.112	4118544	31.53		ug/ml
Aliphatic C9-C28	3.306	17.044	57110528	390.031	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
 Data File : FC069284.D
 Signal(s) : FID1A.ch
 Acq On : 25 Jun 2025 14:59
 Operator : YP/AJ
 Sample : Q2392-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 S-1MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/26/2025
 Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
 Quant Time: Jun 26 05:18:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 14:24:27 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...	13.112	4118544	31.525 ug/ml
Spiked Amount 50.000		Recovery =	63.05%
Target Compounds			
1) T n-Nonane (C9)	3.404	2726294	19.170 ug/ml
2) T n-Decane (C10)	4.478	3370237	23.021 ug/ml
4) T n-Dodecane (C12)	6.504	3915395	25.857 ug/ml
6) T n-Tetradecane (C14)	8.304	4470030	28.838 ug/ml
7) T n-Hexadecane (C16)	9.909	5053199	30.922 ug/ml
8) T n-Octadecane (C18)	11.354	5207965	31.898 ug/ml
10) T n-Eicosane (C20)	12.666	5221456	34.208 ug/ml
11) T n-Heneicosane (C21)	13.280	4920529	33.384 ug/ml
13) T n-Docosane (C22)	13.867	4819610	33.497 ug/ml
14) T n-Tetracosane (C24)	14.972	4639240	33.634 ug/ml
15) T n-Hexacosane (C26)	15.995	4390178	33.584 ug/mlm
16) T n-Octacosane (C28)	16.946	4154944	33.690 ug/ml
17) T n-Tricontane (C30)	17.835	3981412	33.490 ug/ml
18) T n-Dotriacontane (C32)	18.669	3842454	35.143 ug/ml
19) T n-Tetratriacontane (C34)	19.454	3752165	38.856 ug/ml
20) T n-Hexatriacontane (C36)	20.197	3665298	44.475 ug/ml
21) T n-Octatriacontane (C38)	20.964	3708681	49.627 ug/ml
22) T n-Tetracontane (C40)	21.934	3648819	51.525 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC062525AL\
Data File : FC069284.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 14:59
Operator : YP/AJ
Sample : Q2392-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

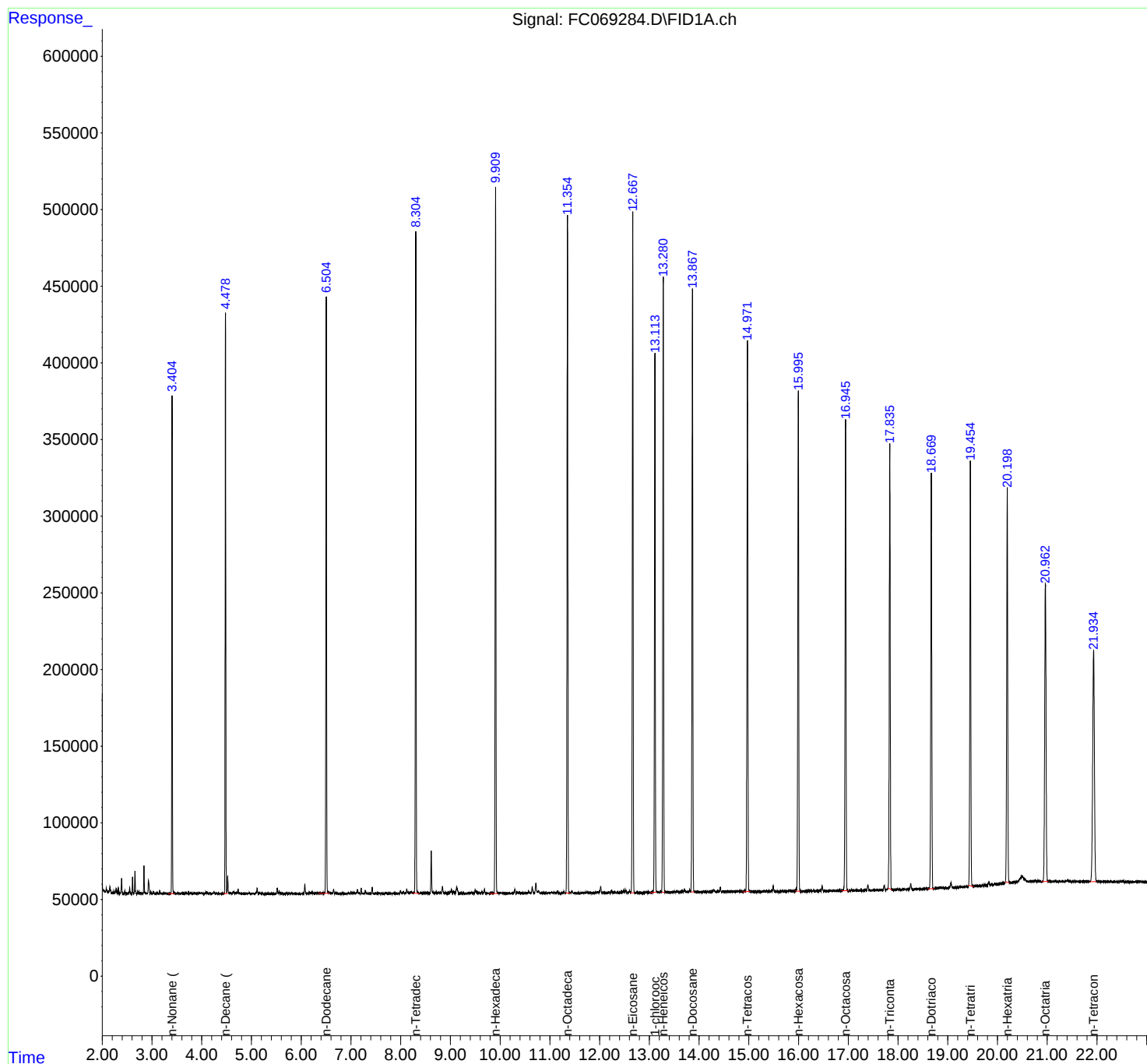
Instrument :
FID_C
ClientSampleId :
S-1MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:18:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 14:24:27 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

Instrument :

FID_C

ClientSampleId :

S-1MSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC06252
Data File : FC069284.D
Signal(s) : FID1A.ch
Acq On : 25 Jun 2025 14:59
Sample : Q2392-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 061825.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	3.228	3.204	3.241	BV	350	4664	0.09%	0.005%
2	3.252	3.241	3.274	VV	279	3166	0.06%	0.004%
3	3.301	3.274	3.341	VV	224	3389	0.06%	0.004%
4	3.352	3.341	3.370	PV	281	2366	0.05%	0.003%
5	3.404	3.370	3.491	VV	325117	2738223	52.37%	3.161%
6	3.532	3.491	3.549	VV	545	9917	0.19%	0.011%
7	3.557	3.549	3.571	VV	407	3564	0.07%	0.004%
8	3.604	3.571	3.658	VV	509	14140	0.27%	0.016%
9	3.679	3.658	3.701	VV	870	12070	0.23%	0.014%
10	3.730	3.701	3.756	VV	530	10632	0.20%	0.012%
11	3.780	3.756	3.805	VV	958	13966	0.27%	0.016%
12	3.814	3.805	3.831	VV	258	3064	0.06%	0.004%
13	3.852	3.831	3.886	VV	900	12125	0.23%	0.014%
14	3.902	3.886	3.935	VV	620	9299	0.18%	0.011%
15	3.951	3.935	3.967	PV	637	5982	0.11%	0.007%
16	3.991	3.967	4.044	VV	926	15807	0.30%	0.018%
17	4.076	4.044	4.090	VV	1087	15114	0.29%	0.017%
18	4.104	4.090	4.131	VV	1562	17760	0.34%	0.021%
19	4.140	4.131	4.154	VV	406	4112	0.08%	0.005%
20	4.173	4.154	4.206	VV	762	9951	0.19%	0.011%
21	4.245	4.206	4.271	VV	1133	21162	0.40%	0.024%
22	4.286	4.271	4.310	VV	482	7713	0.15%	0.009%
23	4.321	4.310	4.360	VV	301	5090	0.10%	0.006%
24	4.399	4.360	4.418	VV	333	7543	0.14%	0.009%
25	4.435	4.418	4.447	VV	314	4447	0.09%	0.005%
26	4.478	4.447	4.504	VV	378656	3379163	64.63%	3.902%
27	4.522	4.504	4.562	VV	11952	120125	2.30%	0.139%
28	4.584	4.562	4.614	VV	1093	15713	0.30%	0.018%
29	4.645	4.614	4.666	VV	1336	25922	0.50%	0.030%
30	4.702	4.666	4.715	VV	1302	20517	0.39%	0.024%
31	4.732	4.715	4.751	VV	3335	33573	0.64%	0.039%
32	4.763	4.751	4.801	VV	733	12442	0.24%	0.014%
33	4.811	4.801	4.834	VV	426	5593	0.11%	0.006%
34	4.854	4.834	4.873	VV	474	7516	0.14%	0.009%
35	4.894	4.873	4.918	VV	562	8446	0.16%	0.010%
36	4.928	4.918	4.940	VV	314	3539	0.07%	0.004%

37	4.956	4.940	4.984	VV	918	11284	0.22%	0.013%
38	5.004	4.984	5.017	VV	241	4144	0.06%	0.003%
39	5.035	5.017	5.060	VV	420	6189	0.07%	0.004%
40	5.113	5.060	5.144	PV	3988	53689	0.74%	0.036%
41	5.170	5.144	5.187	VV	1012	15539	0.16%	0.008%
42	5.221	5.187	5.242	VV	676	12751	0.10%	0.005%
43	5.251	5.242	5.264	VV	164	1608	0.03%	0.002%
44	5.279	5.264	5.286	PV	122	1126	0.02%	0.001%
45	5.331	5.286	5.371	VV	387	13610	0.26%	0.016%
46	5.392	5.371	5.403	VV	325	5182	0.10%	0.006%
47	5.413	5.403	5.426	VV	345	3498	0.07%	0.004%
48	5.441	5.426	5.459	VV	283	4254	0.08%	0.005%
49	5.517	5.459	5.536	VV	3796	44312	0.85%	0.051%
50	5.558	5.536	5.579	VV	1508	20524	0.39%	0.024%
51	5.592	5.579	5.600	VV	334	3139	0.06%	0.004%
52	5.614	5.600	5.636	VV	393	6015	0.12%	0.007%
53	5.655	5.636	5.670	VV	295	4180	0.08%	0.005%
54	5.705	5.670	5.748	VV	846	15623	0.30%	0.018%
55	5.764	5.748	5.780	VV	429	4655	0.09%	0.005%
56	5.806	5.780	5.841	VV	732	13719	0.26%	0.016%
57	5.865	5.841	5.888	VV	291	5770	0.11%	0.007%
58	5.896	5.888	5.905	VV	206	1832	0.04%	0.002%
59	5.933	5.905	5.958	VV	285	5571	0.11%	0.006%
60	5.976	5.958	5.991	VV	231	3085	0.06%	0.004%
61	6.021	5.991	6.033	VV	333	5751	0.11%	0.007%
62	6.073	6.033	6.099	VV	6199	69814	1.34%	0.081%
63	6.118	6.099	6.141	VV	675	11037	0.21%	0.013%
64	6.161	6.141	6.204	VV	1425	25687	0.49%	0.030%
65	6.222	6.204	6.251	VV	917	15183	0.29%	0.018%
66	6.295	6.251	6.333	VV	756	25321	0.48%	0.029%
67	6.342	6.333	6.369	VV	562	10183	0.19%	0.012%
68	6.386	6.369	6.403	VV	648	11262	0.22%	0.013%
69	6.432	6.403	6.454	VV	777	19414	0.37%	0.022%
70	6.504	6.454	6.574	VV	391364	3942517	75.40%	4.552%
71	6.586	6.574	6.608	VV	803	12372	0.24%	0.014%
72	6.621	6.608	6.631	VV	602	6262	0.12%	0.007%
73	6.651	6.631	6.673	VV	3052	35593	0.68%	0.041%
74	6.687	6.673	6.708	VV	589	9411	0.18%	0.011%
75	6.725	6.708	6.755	VV	598	9360	0.18%	0.011%
76	6.776	6.755	6.798	VV	249	3790	0.07%	0.004%
77	6.829	6.798	6.852	VV	585	8639	0.17%	0.010%
78	6.865	6.852	6.881	VV	206	3116	0.06%	0.004%
79	6.899	6.881	6.919	VV	279	4614	0.09%	0.005%
80	6.946	6.919	6.976	VV	705	10950	0.21%	0.013%
81	7.000	6.976	7.030	VV	960	17824	0.34%	0.021%
82	7.058	7.030	7.090	VV	846	19796	0.38%	0.023%
83	7.131	7.090	7.154	VV	3030	43680	0.84%	0.050%
84	7.164	7.154	7.184	VV	523	6143	0.12%	0.007%
85	7.207	7.184	7.252	VV	3730	43494	0.83%	0.050%
86	7.289	7.252	7.322	VV	2382	31422	0.60%	0.036%
87	7.348	7.322	7.374	VV	305	7162	0.14%	0.008%
88	7.394	7.374	7.406	VV	586	7507	0.14%	0.009%
89	7.428	7.406	7.457	VV	4282	46989	0.90%	0.054%

Instrument :

FID_C

ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

90	7.493	7.457	7.505	VV	473	8886	0.17%	0.010%
91	7.520	7.505	7.538	VV	574	7446		
92	7.554	7.538	7.581	VV	311	5228		
93	7.601	7.581	7.634	VV	405	8096		
94	7.638	7.634	7.667	VV	179	2062		
95	7.692	7.667	7.714	PV	1034	11621		
96	7.729	7.714	7.755	VV	381	8126	0.16%	0.009%
97	7.773	7.755	7.811	VV	618	10321	0.20%	0.012%
98	7.866	7.811	7.898	VV	562	16856	0.32%	0.019%
99	7.914	7.898	7.938	VV	372	5919	0.11%	0.007%
100	7.952	7.938	7.964	VV	409	4627	0.09%	0.005%
101	7.996	7.964	8.021	VV	2380	31299	0.60%	0.036%
102	8.053	8.021	8.074	VV	1459	23204	0.44%	0.027%
103	8.086	8.074	8.097	VV	592	6633	0.13%	0.008%
104	8.123	8.097	8.144	VV	2788	38670	0.74%	0.045%
105	8.161	8.144	8.185	VV	799	18009	0.34%	0.021%
106	8.208	8.185	8.243	VV	1222	27113	0.52%	0.031%
107	8.304	8.243	8.375	VV	434584	4499736	86.06%	5.195%
108	8.412	8.375	8.437	VV	824	20549	0.39%	0.024%
109	8.471	8.437	8.517	VV	1024	26846	0.51%	0.031%
110	8.533	8.517	8.566	VV	696	11052	0.21%	0.013%
111	8.614	8.566	8.648	VV	28145	300464	5.75%	0.347%
112	8.660	8.648	8.691	VV	1015	18017	0.34%	0.021%
113	8.712	8.691	8.738	VV	1188	19234	0.37%	0.022%
114	8.766	8.738	8.782	VV	1115	17714	0.34%	0.020%
115	8.796	8.782	8.818	VV	681	12606	0.24%	0.015%
116	8.840	8.818	8.880	VV	4713	67047	1.28%	0.077%
117	8.895	8.880	8.940	VV	556	12872	0.25%	0.015%
118	8.961	8.940	8.974	VV	505	7698	0.15%	0.009%
119	9.021	8.974	9.046	VV	2586	53824	1.03%	0.062%
120	9.063	9.046	9.095	VV	1145	23139	0.44%	0.027%
121	9.125	9.095	9.196	VV	4598	91666	1.75%	0.106%
122	9.216	9.196	9.238	VV	690	10185	0.19%	0.012%
123	9.263	9.238	9.298	VV	466	7845	0.15%	0.009%
124	9.314	9.298	9.327	VV	241	2492	0.05%	0.003%
125	9.349	9.327	9.394	VV	387	10496	0.20%	0.012%
126	9.428	9.394	9.470	VV	717	17598	0.34%	0.020%
127	9.499	9.470	9.561	VV	2039	55740	1.07%	0.064%
128	9.576	9.561	9.607	VV	606	12139	0.23%	0.014%
129	9.633	9.607	9.661	VV	963	18180	0.35%	0.021%
130	9.685	9.661	9.710	VV	2586	31545	0.60%	0.036%
131	9.742	9.710	9.764	VV	226	5550	0.11%	0.006%
132	9.780	9.764	9.790	VV	156	1772	0.03%	0.002%
133	9.826	9.790	9.866	VV	620	14887	0.28%	0.017%
134	9.909	9.866	9.962	VV	457887	5053134	96.64%	5.834%
135	9.989	9.962	10.044	VV	507	18384	0.35%	0.021%
136	10.055	10.044	10.063	VV	208	2114	0.04%	0.002%
137	10.078	10.063	10.106	VV	277	3524	0.07%	0.004%
138	10.121	10.106	10.146	PV	156	2021	0.04%	0.002%
139	10.184	10.146	10.202	VV	241	4633	0.09%	0.005%
140	10.230	10.202	10.248	VV	380	7293	0.14%	0.008%
141	10.255	10.248	10.264	VV	356	2710	0.05%	0.003%

Instrument :

FID_C

ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

					rters			
142	10.296	10.264	10.322	VV	2636	39246	0.75%	0.045%
143	10.340	10.322	10.364	VV	684	11306		
144	10.383	10.364	10.412	VV	704	13473		
145	10.438	10.412	10.477	VV	605	12192		
146	10.510	10.477	10.521	VV	529	9166		
147	10.542	10.521	10.556	VV	642	10955		
148	10.573	10.556	10.610	VV	1136	22549	0.43%	0.026%
149	10.646	10.610	10.688	VV	4575	65311	1.25%	0.075%
150	10.719	10.688	10.752	VV	6774	106088	2.03%	0.122%
151	10.774	10.752	10.811	VV	1512	31451	0.60%	0.036%
152	10.862	10.811	10.880	VV	386	13547	0.26%	0.016%
153	10.898	10.880	10.921	VV	325	6276	0.12%	0.007%
154	10.936	10.921	10.947	VV	359	4268	0.08%	0.005%
155	10.971	10.947	11.001	VV	634	15407	0.29%	0.018%
156	11.019	11.001	11.029	VV	681	8531	0.16%	0.010%
157	11.043	11.029	11.058	VV	823	11122	0.21%	0.013%
158	11.073	11.058	11.090	VV	696	10212	0.20%	0.012%
159	11.102	11.090	11.122	VV	569	7515	0.14%	0.009%
160	11.154	11.122	11.193	VV	1648	24775	0.47%	0.029%
161	11.281	11.193	11.311	VV	1503	30099	0.58%	0.035%
162	11.354	11.311	11.407	VV	442654	5221304	99.86%	6.028%
163	11.444	11.407	11.479	VV	1519	29477	0.56%	0.034%
164	11.495	11.479	11.521	VV	223	3732	0.07%	0.004%
165	11.578	11.521	11.611	PV	193	6824	0.13%	0.008%
166	11.674	11.611	11.688	VV	375	11558	0.22%	0.013%
167	11.707	11.688	11.722	VV	440	6669	0.13%	0.008%
168	11.744	11.722	11.772	VV	971	17117	0.33%	0.020%
169	11.785	11.772	11.794	VV	453	5068	0.10%	0.006%
170	11.808	11.794	11.821	VV	550	7039	0.13%	0.008%
171	11.834	11.821	11.855	VV	536	6830	0.13%	0.008%
172	11.871	11.855	11.885	VV	260	3360	0.06%	0.004%
173	11.917	11.885	11.931	VV	351	7416	0.14%	0.009%
174	11.956	11.931	11.976	VV	806	14292	0.27%	0.017%
175	12.021	11.976	12.051	VV	4616	71428	1.37%	0.082%
176	12.066	12.051	12.091	VV	473	8257	0.16%	0.010%
177	12.120	12.091	12.137	VV	387	7669	0.15%	0.009%
178	12.156	12.137	12.211	VV	436	13450	0.26%	0.016%
179	12.244	12.211	12.274	VV	1095	22608	0.43%	0.026%
180	12.311	12.274	12.334	VV	575	14645	0.28%	0.017%
181	12.357	12.334	12.381	VV	607	10008	0.19%	0.012%
182	12.399	12.381	12.414	VV	409	6721	0.13%	0.008%
183	12.435	12.414	12.461	VV	960	17214	0.33%	0.020%
184	12.488	12.461	12.504	VV	1763	27778	0.53%	0.032%
185	12.523	12.504	12.557	VV	1839	31633	0.60%	0.037%
186	12.601	12.557	12.628	VV	1546	26466	0.51%	0.031%
187	12.666	12.628	12.708	VV	445293	5228618	100.00%	6.037%
188	12.719	12.708	12.767	VV	352	8801	0.17%	0.010%
189	12.781	12.767	12.822	VV	270	4820	0.09%	0.006%
190	12.831	12.822	12.888	PV	70	1295	0.02%	0.001%
191	12.935	12.888	13.003	VV	459	13845	0.26%	0.016%
192	13.060	13.003	13.073	PV	687	13942	0.27%	0.016%
193	13.112	13.073	13.147	VV	352252	4126009	78.91%	4.764%
194	13.167	13.147	13.187	VV	529	10985	0.21%	0.013%

Instrument :

FID_C

ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

195	13.220	13.187	13.240	VV	826	16341	0.31%	0.019%
196	13.280	13.240	13.314	VV	405448	4933688	94.00%	5.001%
197	13.330	13.314	13.438	VV	495	23637	0.00%	0.001%
198	13.445	13.438	13.460	VV	281	3319	0.00%	0.001%
199	13.503	13.460	13.528	VV	597	17302	0.00%	0.001%
200	13.543	13.528	13.597	VV	691	22214	0.00%	0.001%
201	13.625	13.597	13.635	VV	497	8644	0.17%	0.010%
202	13.656	13.635	13.675	VV	959	15536	0.30%	0.018%
203	13.704	13.675	13.758	VV	1711	40709	0.78%	0.047%
204	13.812	13.758	13.831	VV	1574	30973	0.59%	0.036%
205	13.867	13.831	13.904	VV	395717	4836252	92.50%	5.584%
206	13.920	13.904	13.941	VV	514	9026	0.17%	0.010%
207	13.955	13.941	13.974	VV	342	6085	0.12%	0.007%
208	14.012	13.974	14.054	VV	447	14678	0.28%	0.017%
209	14.095	14.054	14.145	VV	495	19190	0.37%	0.022%
210	14.160	14.145	14.176	VV	360	5550	0.11%	0.006%
211	14.300	14.176	14.325	VV	1679	53478	1.02%	0.062%
212	14.336	14.325	14.344	VV	369	3884	0.07%	0.004%
213	14.377	14.344	14.399	VV	589	13922	0.27%	0.016%
214	14.427	14.399	14.468	VV	3337	47665	0.91%	0.055%
215	14.498	14.468	14.536	VV	381	12638	0.24%	0.015%
216	14.572	14.536	14.611	VV	485	16748	0.32%	0.019%
217	14.633	14.611	14.671	VV	449	12347	0.24%	0.014%
218	14.689	14.671	14.703	VV	421	7420	0.14%	0.009%
219	14.714	14.703	14.727	VV	465	5046	0.10%	0.006%
220	14.746	14.727	14.758	VV	414	6360	0.12%	0.007%
221	14.782	14.758	14.801	VV	618	12373	0.24%	0.014%
222	14.824	14.801	14.841	VV	610	11882	0.23%	0.014%
223	14.857	14.841	14.876	VV	443	6809	0.13%	0.008%
224	14.924	14.876	14.934	VV	1209	18445	0.35%	0.021%
225	14.972	14.934	15.048	VV	358586	4648209	88.90%	5.367%
226	15.057	15.048	15.128	VV	256	5869	0.11%	0.007%
227	15.146	15.128	15.211	VV	305	9726	0.19%	0.011%
228	15.222	15.211	15.274	VV	202	4326	0.08%	0.005%
229	15.307	15.274	15.348	VV	574	13830	0.26%	0.016%
230	15.359	15.348	15.381	VV	438	5855	0.11%	0.007%
231	15.391	15.381	15.401	VV	235	2367	0.05%	0.003%
232	15.406	15.401	15.422	VV	239	2381	0.05%	0.003%
233	15.446	15.422	15.463	VV	493	7123	0.14%	0.008%
234	15.490	15.463	15.535	VV	3675	52749	1.01%	0.061%
235	15.547	15.535	15.591	VV	300	5644	0.11%	0.007%
236	15.639	15.591	15.649	VV	250	4350	0.08%	0.005%
237	15.671	15.649	15.695	VV	419	7377	0.14%	0.009%
238	15.710	15.695	15.740	VV	324	6190	0.12%	0.007%
239	15.755	15.740	15.774	VV	295	4582	0.09%	0.005%
240	15.814	15.774	15.906	VV	810	32135	0.61%	0.037%
241	15.921	15.906	15.934	VV	450	6171	0.12%	0.007%
242	15.995	15.934	16.080	VV	325407	4409037	84.33%	5.091%
243	16.097	16.080	16.108	VV	179	1993	0.04%	0.002%
244	16.125	16.108	16.144	VV	176	2358	0.05%	0.003%
245	16.165	16.144	16.184	PV	279	4014	0.08%	0.005%
246	16.233	16.184	16.261	VV	393	10837	0.21%	0.013%

Instrument :

FID_C

ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

Project Overview						Financials		Performance	
Project Details		Location		Status		Budget		Actuals	
ID	Name	Lat	Long	Type	Progress	Allocated	Spent	Variance	ROI
247	16.304	16.261	16.328	VV	525	10633	0.20%	0.012%	Manual Integration Reviewed By : Yogesh Supervised By : m
248	16.370	16.328	16.407	VV	352	11100	0.21%	0.013%	
249	16.438	16.407	16.449	VV	403	6525	0.22%	0.014%	
250	16.475	16.449	16.551	VV	3664	53623	0.23%	0.015%	
251	16.555	16.551	16.561	VV	99	409	0.24%	0.016%	
252	16.574	16.561	16.598	PV	117	2056	0.25%	0.017%	
253	16.638	16.598	16.674	VV	402	11826	0.23%	0.014%	
254	16.694	16.674	16.734	VV	320	9675	0.19%	0.011%	
255	16.777	16.734	16.790	VV	371	8968	0.17%	0.010%	
256	16.826	16.790	16.844	VV	470	11015	0.21%	0.013%	
257	16.868	16.844	16.877	VV	309	4645	0.09%	0.005%	
258	16.946	16.877	17.008	VV	307264	4165401	79.67%	4.809%	
259	17.083	17.008	17.136	VV	422	17707	0.34%	0.020%	
260	17.204	17.136	17.217	VV	298	8920	0.17%	0.010%	
261	17.227	17.217	17.268	VV	248	5334	0.10%	0.006%	
262	17.325	17.268	17.353	VV	490	13923	0.27%	0.016%	
263	17.394	17.353	17.464	VV	3802	61020	1.17%	0.070%	
264	17.530	17.464	17.558	PV	467	13436	0.26%	0.016%	
265	17.571	17.558	17.588	VV	266	3826	0.07%	0.004%	
266	17.605	17.588	17.645	VV	254	7360	0.14%	0.008%	
267	17.686	17.645	17.698	VV	286	7045	0.13%	0.008%	
268	17.724	17.698	17.752	VV	3374	49924	0.95%	0.058%	
269	17.835	17.752	17.905	VV	290340	4039106	77.25%	4.663%	
270	17.915	17.905	17.945	VV	229	4448	0.09%	0.005%	
271	17.990	17.945	18.062	VV	773	22090	0.42%	0.026%	
272	18.105	18.062	18.174	PV	470	14993	0.29%	0.017%	
273	18.256	18.174	18.311	VV	3780	60746	1.16%	0.070%	
274	18.357	18.311	18.408	PV	601	12390	0.24%	0.014%	
275	18.421	18.408	18.458	VV	146	2465	0.05%	0.003%	
276	18.521	18.458	18.532	PV	385	7406	0.14%	0.009%	
277	18.559	18.532	18.596	VV	284	8300	0.16%	0.010%	
278	18.669	18.596	18.735	VV	267248	3847322	73.58%	4.442%	
279	18.784	18.735	18.814	PV	325	8759	0.17%	0.010%	
280	18.865	18.814	18.900	VV	326	12541	0.24%	0.014%	
281	18.924	18.900	18.941	VV	260	4179	0.08%	0.005%	
282	18.965	18.941	18.981	VV	227	3038	0.06%	0.004%	
283	19.065	18.981	19.148	VV	3389	66660	1.27%	0.077%	
284	19.184	19.148	19.204	VV	458	8715	0.17%	0.010%	
285	19.243	19.204	19.268	VV	421	11424	0.22%	0.013%	
286	19.316	19.268	19.337	VV	433	14316	0.27%	0.017%	
287	19.363	19.337	19.401	VV	457	13408	0.26%	0.015%	
288	19.454	19.401	19.521	VV	277065	3804096	72.76%	4.392%	
289	19.566	19.521	19.579	VV	645	18345	0.35%	0.021%	
290	19.696	19.579	19.711	VV	843	51834	0.99%	0.060%	
291	19.828	19.711	19.854	VV	2678	97696	1.87%	0.113%	
292	19.883	19.854	19.895	VV	1037	24063	0.46%	0.028%	
293	20.019	19.895	20.031	VV	1350	93515	1.79%	0.108%	
294	20.096	20.031	20.124	VV	2009	89589	1.71%	0.103%	
295	20.197	20.124	20.239	VV	259773	3803940	72.75%	4.392%	
296	20.259	20.239	20.283	VV	2062	52933	1.01%	0.061%	
297	20.344	20.283	20.360	VV	2168	94035	1.80%	0.109%	
298	20.484	20.360	20.540	VV	5563	404137	7.73%	0.467%	
299	20.555	20.540	20.614	VV	4037	128785	2.46%	0.149%	

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

300	20.705	20.614	20.723	VV	2198	140745	2.69%	0.163%
301	20.750	20.723	20.794	VV	2342	91803		
302	20.808	20.794	20.904	VV	2029	121760		
303	20.964	20.904	21.029	VV	194921	3831351	73	
304	21.039	21.029	21.053	VV	1634	22913	0	
305	21.070	21.053	21.104	VV	1582	47989	0	
306	21.117	21.104	21.129	VV	1484	21024	0.40%	0.024%
307	21.147	21.129	21.201	VV	1531	61831	1.18%	0.071%
308	21.210	21.201	21.240	VV	1394	29603	0.57%	0.034%
309	21.250	21.240	21.280	VV	1275	29276	0.56%	0.034%
310	21.301	21.280	21.344	VV	1270	45541	0.87%	0.053%
311	21.358	21.344	21.371	VV	1072	16974	0.32%	0.020%
312	21.413	21.371	21.492	VV	1762	86889	1.66%	0.100%
313	21.499	21.492	21.507	VV	857	7560	0.14%	0.009%
314	21.557	21.507	21.585	VV	894	39603	0.76%	0.046%
315	21.624	21.585	21.661	VV	843	33088	0.63%	0.038%
316	21.674	21.661	21.688	VV	633	9205	0.18%	0.011%
317	21.695	21.688	21.714	VV	607	8697	0.17%	0.010%
318	21.723	21.714	21.741	VV	576	8017	0.15%	0.009%
319	21.762	21.741	21.784	VV	509	11319	0.22%	0.013%
320	21.797	21.784	21.842	VV	480	13164	0.25%	0.015%
321	21.932	21.842	22.054	VV	151424	3671667	70.22%	4.239%
Sum of corrected areas:						86611547		

Instrument :

FID_C

ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

Aliphatic EPH 061825.M Thu Jun 26 05:40:41 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Thomas McGoven	Date Received:	
Client Sample ID:	S-1MSD	SDG No.:	Q2392
Lab Sample ID:	Q2392-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049520.D	1	06/24/25	06/25/25	PB168603

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.06		0.13	0.72	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.78		0.25	1.08	mg/kg
Aromatic C16-C21	Aromatic C16-C21	24.0		0.43	1.80	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.7		1.29	2.88	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.9		40 - 140	112%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	54.1		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.9		40 - 140	64%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2392-01MSD	Acq On:	25 Jun 2025 14:59
Client Sample ID:	S-1MSD	Operator:	YP/AJ
Data file:	FD049520.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	4.429	6.172	10510995	83.964	200	ug/ml
Aromatic C12-C16	6.173	8.800	20226413	135.612	300	ug/ml
Aromatic C16-C21	8.801	13.090	52279921	332.774	500	ug/ml
Aromatic C21-C36	13.091	18.510	66490528	481.293	800	ug/ml
Aromatic EPH	4.429	18.510	149507857	1030		ug/ml
ortho-Terphenyl (SURR)	11.645	11.645	5057632	31.89		ug/ml
2-Bromonaphthalene (SURR)	7.735	7.735	7127886	55.9		ug/ml
2-Fluorobiphenyl (SURR)	8.601	8.601	4804133	54.11		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
 Data File : FD049520.D
 Signal(s) : FID2B.ch
 Acq On : 25 Jun 2025 14:59
 Operator : YP/AJ
 Sample : Q2392-01MSD
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 S-1MSD

Manual Integrations
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Reviewed By :Yogesh Patel 06/26/2025
 Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
 Quant Time: Jun 26 05:37:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
 Quant Title : GC Extractables
 QLast Update : Wed Jun 18 15:23:20 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...	7.735	7127886	55.903 ug/ml
Spiked Amount 50.000		Recovery =	111.81%
6) S 2-Fluorobiphenyl (SURR)	8.601	4804133	54.107 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	108.21%
11) S ortho-Terphenyl (SURR)	11.645	5057632	31.892 ug/ml
Spiked Amount 50.000		Recovery =	63.78%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.527	4114303	35.425 ug/ml
2) T Naphthalene (C11.7)	6.071	5056443	37.671 ug/ml
3) T 2-Methylnaphthalene (...)	7.124	5127294	36.290 ug/ml
5) T Acenaphthylene (C15.06)	8.404	6213446	39.744 ug/ml
7) T Acenaphthene (C15.5)	8.701	6290327	41.984 ug/ml
8) T Flouorene (C16.55)	9.482	6898835	44.845 ug/ml
9) T Phenanthrene (C19.36)	10.882	7580493	47.568 ug/ml
10) T Anthracene (C19.43)	10.957	7546332	48.065 ug/ml
12) T Fluoranthene (C21.85)	12.697	7950806	50.213 ug/ml
13) T Pyrene (C20.8)	12.996	8057103	50.927 ug/ml
14) T Benzo[a]anthracene (C...	14.868	7784737	52.749 ug/ml
15) T Chrysene (C27.41)	14.914	8572901	57.515 ug/ml
16) T benzo[b]fluoranthene ...	16.419	7390653	52.598 ug/ml
17) T Bnezo[k]fluoranthene ...	16.456	7292085	54.903 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.801	7086314	51.833 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.169	7301121	59.634 ug/mlm
20) T Dibenz[a,h]anthracene...	18.206	6675082	52.123 ug/mlm
21) T Benzo[g,h,i]perylene ...	18.425	6513793	50.957 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD062525AR\
Data File : FD049520.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 14:59
Operator : YP/AJ
Sample : Q2392-01MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

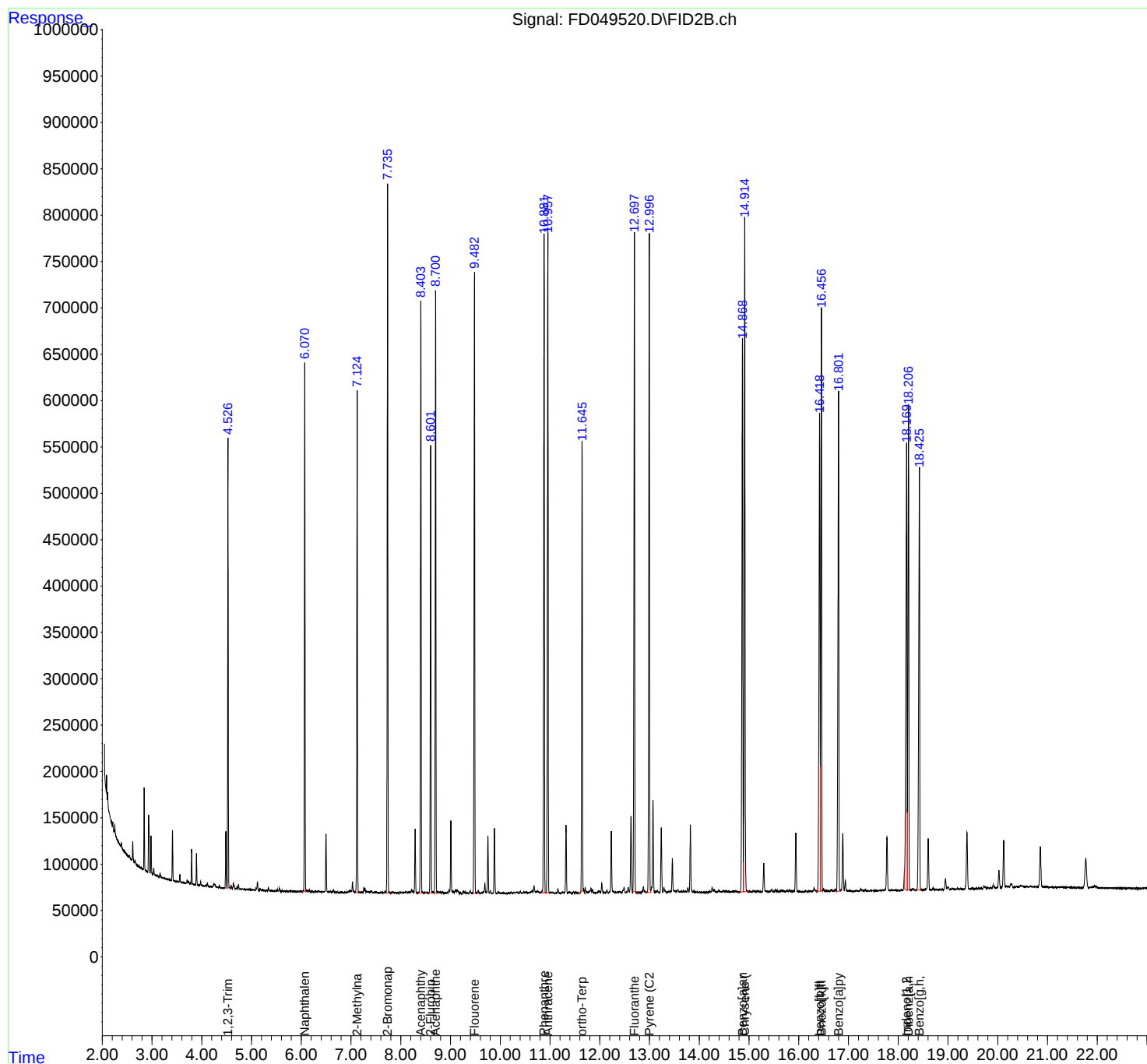
Instrument :
FID_D
ClientSampleId :
S-1MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/26/2025
Supervised By :mohammad ahmed 06/27/2025

Integration File: autoint1.e
Quant Time: Jun 26 05:37:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.M
Quant Title : GC Extractables
QLast Update : Wed Jun 18 15:23:20 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :

FID_D

ClientSampleId :

S-1MSD

Area Percent Report

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rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD06252
Data File : FD049520.D
Signal(s) : FID2B.ch
Acq On : 25 Jun 2025 14:59
Sample : Q2392-01MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 061825.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	4.355	4.336	4.404	PV	2691	25320	0.29%	0.016%
2	4.416	4.404	4.426	PV	253	2093	0.02%	0.001%
3	4.440	4.426	4.461	VV	532	6416	0.07%	0.004%
4	4.484	4.461	4.505	VV	61298	539456	6.26%	0.332%
5	4.527	4.505	4.552	VV	485787	4134668	47.99%	2.544%
6	4.558	4.552	4.573	VV	1368	12359	0.14%	0.008%
7	4.591	4.573	4.614	VV	3506	37345	0.43%	0.023%
8	4.636	4.614	4.647	VV	6484	63888	0.74%	0.039%
9	4.652	4.647	4.677	VV	3386	29113	0.34%	0.018%
10	4.689	4.677	4.693	VV	474	3722	0.04%	0.002%
11	4.709	4.693	4.723	VV	2970	27991	0.32%	0.017%
12	4.739	4.723	4.762	VV	5037	45939	0.53%	0.028%
13	4.789	4.762	4.806	PV	1085	10460	0.12%	0.006%
14	4.820	4.806	4.847	VV	941	11325	0.13%	0.007%
15	4.857	4.847	4.892	VV	943	9701	0.11%	0.006%
16	4.904	4.892	4.918	PV	328	2659	0.03%	0.002%
17	4.927	4.918	4.951	VV	719	7911	0.09%	0.005%
18	4.959	4.951	4.976	VV	405	3841	0.04%	0.002%
19	4.982	4.976	5.014	VV	421	6970	0.08%	0.004%
20	5.040	5.014	5.063	VV	755	10444	0.12%	0.006%
21	5.092	5.063	5.102	VV	2164	23434	0.27%	0.014%
22	5.119	5.102	5.150	VV	9550	108062	1.25%	0.066%
23	5.175	5.150	5.195	VV	2031	25225	0.29%	0.016%
24	5.214	5.195	5.250	VV	856	19651	0.23%	0.012%
25	5.257	5.250	5.271	VV	461	4145	0.05%	0.003%
26	5.283	5.271	5.289	PV	345	2301	0.03%	0.001%
27	5.308	5.289	5.323	VV	847	11469	0.13%	0.007%
28	5.339	5.323	5.379	VV	3975	45639	0.53%	0.028%
29	5.392	5.379	5.404	VV	580	6616	0.08%	0.004%
30	5.411	5.404	5.433	VV	411	5656	0.07%	0.003%
31	5.444	5.440	5.450	VV	276	1255	0.01%	0.001%
32	5.470	5.450	5.475	VV	557	4241	0.05%	0.003%
33	5.488	5.475	5.505	VV	688	8023	0.09%	0.005%
34	5.520	5.505	5.541	VV	1813	21618	0.25%	0.013%
35	5.562	5.541	5.582	VV	3572	35187	0.41%	0.022%
36	5.595	5.582	5.602	VV	463	3585	0.04%	0.002%

					retention			
37	5.616	5.602	5.639	VV	808	9208	0.11%	0.006%
38	5.649	5.639	5.655	PV	308	1645		
39	5.662	5.655	5.670	VV	295	2258		
40	5.675	5.670	5.690	VV	384	3284		
41	5.707	5.690	5.742	VV	571	9337		
42	5.766	5.742	5.782	VV	621	7743		
43	5.810	5.782	5.844	VV	751	13630	0.16%	0.008%
44	5.860	5.844	5.899	VV	521	9420	0.11%	0.006%
45	5.906	5.899	5.920	VV	353	2592	0.03%	0.002%
46	5.923	5.920	5.936	VV	258	2254	0.03%	0.001%
47	5.946	5.936	5.958	VV	348	3358	0.04%	0.002%
48	5.974	5.958	5.997	VV	642	8631	0.10%	0.005%
49	6.007	5.997	6.030	VV	538	7645	0.09%	0.005%
50	6.071	6.030	6.103	VV	570357	5087556	59.05%	3.130%
51	6.116	6.103	6.135	VV	1492	20028	0.23%	0.012%
52	6.158	6.135	6.185	VV	2419	32091	0.37%	0.020%
53	6.196	6.185	6.204	VV	519	5151	0.06%	0.003%
54	6.220	6.204	6.244	VV	1157	15888	0.18%	0.010%
55	6.246	6.244	6.249	VV	379	1020	0.01%	0.001%
56	6.291	6.249	6.312	VV	1011	22853	0.27%	0.014%
57	6.347	6.312	6.364	VV	1434	25233	0.29%	0.016%
58	6.374	6.364	6.380	VV	578	4920	0.06%	0.003%
59	6.383	6.380	6.405	VV	619	6640	0.08%	0.004%
60	6.438	6.405	6.469	VV	721	23002	0.27%	0.014%
61	6.498	6.469	6.566	VV	62872	632889	7.35%	0.389%
62	6.584	6.566	6.601	VV	1404	16677	0.19%	0.010%
63	6.617	6.601	6.631	VV	1065	12550	0.15%	0.008%
64	6.648	6.631	6.668	VV	2861	31093	0.36%	0.019%
65	6.682	6.668	6.704	VV	688	8855	0.10%	0.005%
66	6.720	6.704	6.745	PV	1478	14187	0.16%	0.009%
67	6.754	6.745	6.769	VV	200	1846	0.02%	0.001%
68	6.782	6.769	6.802	VV	287	3620	0.04%	0.002%
69	6.822	6.802	6.842	PV	516	6288	0.07%	0.004%
70	6.867	6.842	6.916	VV	678	16670	0.19%	0.010%
71	6.940	6.916	6.954	VV	1547	18285	0.21%	0.011%
72	6.966	6.954	6.979	VV	2891	28044	0.33%	0.017%
73	6.994	6.979	7.008	VV	2124	28256	0.33%	0.017%
74	7.031	7.008	7.085	VV	12052	151477	1.76%	0.093%
75	7.124	7.085	7.185	VV	541499	5157418	59.86%	3.173%
76	7.201	7.185	7.219	VV	1103	13958	0.16%	0.009%
77	7.226	7.219	7.238	VV	651	6926	0.08%	0.004%
78	7.259	7.238	7.270	VV	5331	52838	0.61%	0.033%
79	7.281	7.270	7.300	VV	5217	57713	0.67%	0.036%
80	7.314	7.300	7.328	VV	2280	26268	0.30%	0.016%
81	7.339	7.328	7.371	VV	1708	25303	0.29%	0.016%
82	7.388	7.371	7.402	VV	1604	18603	0.22%	0.011%
83	7.416	7.402	7.440	VV	2318	28954	0.34%	0.018%
84	7.484	7.440	7.500	VV	1353	25998	0.30%	0.016%
85	7.511	7.500	7.547	VV	1551	17062	0.20%	0.010%
86	7.598	7.547	7.625	VV	875	17773	0.21%	0.011%
87	7.648	7.625	7.667	VV	812	14963	0.17%	0.009%
88	7.682	7.667	7.702	VV	2115	25075	0.29%	0.015%
89	7.735	7.702	7.799	VV	766913	7150743	83.00%	4.399%

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90	7.844	7.799	7.894	VV	1572	36700	0.43%	0.023%
91	7.901	7.894	7.922	VV	382	3874		
92	7.941	7.922	7.958	PV	606	6170		
93	7.986	7.958	8.030	VV	1425	31830		
94	8.045	8.030	8.060	VV	814	11165		
95	8.112	8.060	8.150	VV	1830	57116		
96	8.191	8.150	8.200	VV	1196	30916	0.36%	0.019%
97	8.217	8.200	8.232	VV	4341	50200	0.58%	0.031%
98	8.245	8.232	8.262	VV	2861	33605	0.39%	0.021%
99	8.289	8.262	8.355	VV	69289	712524	8.27%	0.438%
100	8.404	8.355	8.465	VV	639344	6243030	72.46%	3.841%
101	8.489	8.465	8.505	VV	1376	19844	0.23%	0.012%
102	8.522	8.505	8.554	VV	1332	19056	0.22%	0.012%
103	8.601	8.554	8.631	PV	482868	4821941	55.97%	2.967%
104	8.650	8.631	8.669	VV	1896	29391	0.34%	0.018%
105	8.700	8.669	8.727	VV	650766	6315234	73.30%	3.885%
106	8.746	8.727	8.765	VV	1990	32682	0.38%	0.020%
107	8.775	8.765	8.788	VV	1486	15921	0.18%	0.010%
108	8.798	8.788	8.810	VV	1170	12859	0.15%	0.008%
109	8.826	8.810	8.870	VV	1734	35240	0.41%	0.022%
110	8.889	8.870	8.921	VV	896	17296	0.20%	0.011%
111	8.938	8.921	8.951	VV	1437	16220	0.19%	0.010%
112	8.969	8.951	8.984	VV	3168	38691	0.45%	0.024%
113	9.007	8.984	9.075	VV	78811	830452	9.64%	0.511%
114	9.102	9.075	9.115	VV	3519	58259	0.68%	0.036%
115	9.128	9.115	9.181	VV	4229	98582	1.14%	0.061%
116	9.196	9.181	9.223	VV	1010	10851	0.13%	0.007%
117	9.259	9.223	9.275	PV	2719	35965	0.42%	0.022%
118	9.291	9.275	9.313	VV	2325	26824	0.31%	0.017%
119	9.335	9.313	9.362	VV	840	15672	0.18%	0.010%
120	9.395	9.362	9.425	VV	3236	47907	0.56%	0.029%
121	9.482	9.425	9.529	VV	671811	6921910	80.34%	4.259%
122	9.557	9.529	9.595	VV	3216	50876	0.59%	0.031%
123	9.614	9.595	9.625	VV	677	9795	0.11%	0.006%
124	9.632	9.625	9.640	VV	750	5700	0.07%	0.004%
125	9.657	9.640	9.670	VV	2048	27317	0.32%	0.017%
126	9.691	9.670	9.712	VV	10945	123998	1.44%	0.076%
127	9.753	9.712	9.779	VV	61997	643437	7.47%	0.396%
128	9.799	9.779	9.836	VV	2773	46724	0.54%	0.029%
129	9.883	9.836	9.937	VV	70492	801577	9.30%	0.493%
130	9.961	9.937	9.985	VV	1615	27357	0.32%	0.017%
131	9.993	9.985	10.027	VV	885	12637	0.15%	0.008%
132	10.059	10.027	10.091	VV	1143	20980	0.24%	0.013%
133	10.099	10.091	10.139	VV	363	6426	0.07%	0.004%
134	10.162	10.139	10.180	PV	1030	13642	0.16%	0.008%
135	10.217	10.180	10.254	VV	2126	37942	0.44%	0.023%
136	10.278	10.254	10.296	VV	1277	19898	0.23%	0.012%
137	10.324	10.296	10.340	VV	1966	33098	0.38%	0.020%
138	10.351	10.340	10.382	VV	1686	26629	0.31%	0.016%
139	10.405	10.382	10.426	VV	2330	37479	0.44%	0.023%
140	10.471	10.426	10.502	VV	1654	43089	0.50%	0.027%
141	10.526	10.502	10.555	VV	2031	42388	0.49%	0.026%

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142	10.573	10.555	10.590	VV	1473	21279	0.25%	0.013%
143	10.642	10.590	10.657	VV	3876	80972	0.01%	0.001%
144	10.679	10.657	10.715	VV	7982	129523	0.01%	0.001%
145	10.752	10.715	10.770	VV	2797	67018	0.01%	0.001%
146	10.777	10.770	10.794	VV	1689	18034	0.01%	0.001%
147	10.814	10.794	10.826	VV	1587	22533	0.01%	0.001%
148	10.881	10.826	10.920	VV	714685	7641729	88.69%	4.702%
149	10.957	10.920	10.993	VV	712991	7579188	87.97%	4.663%
150	11.026	10.993	11.041	VV	1403	32367	0.38%	0.020%
151	11.053	11.041	11.094	VV	1272	25624	0.30%	0.016%
152	11.125	11.094	11.138	VV	723	13282	0.15%	0.008%
153	11.159	11.138	11.209	VV	5244	66674	0.77%	0.041%
154	11.254	11.209	11.290	VV	1367	41291	0.48%	0.025%
155	11.322	11.290	11.352	VV	73864	836444	9.71%	0.515%
156	11.383	11.352	11.390	VV	1563	24038	0.28%	0.015%
157	11.402	11.390	11.445	VV	1752	28204	0.33%	0.017%
158	11.474	11.445	11.494	PV	1948	26390	0.31%	0.016%
159	11.516	11.494	11.544	VV	1138	21695	0.25%	0.013%
160	11.563	11.544	11.584	VV	1139	14965	0.17%	0.009%
161	11.644	11.584	11.690	VV	486564	5186071	60.19%	3.191%
162	11.707	11.690	11.760	VV	6095	99406	1.15%	0.061%
163	11.773	11.760	11.783	VV	1716	19890	0.23%	0.012%
164	11.823	11.783	11.840	VV	5837	100037	1.16%	0.062%
165	11.855	11.840	11.884	VV	4334	56737	0.66%	0.035%
166	11.892	11.884	11.906	VV	855	8052	0.09%	0.005%
167	11.925	11.906	11.946	VV	1069	19287	0.22%	0.012%
168	11.989	11.946	12.009	VV	2392	54309	0.63%	0.033%
169	12.041	12.009	12.102	VV	10723	156431	1.82%	0.096%
170	12.145	12.102	12.172	VV	3329	55319	0.64%	0.034%
171	12.232	12.172	12.272	VV	66926	808362	9.38%	0.497%
172	12.280	12.272	12.309	VV	1937	31464	0.37%	0.019%
173	12.319	12.309	12.336	VV	1047	13446	0.16%	0.008%
174	12.373	12.336	12.385	VV	1259	31736	0.37%	0.020%
175	12.398	12.385	12.436	VV	1743	39967	0.46%	0.025%
176	12.489	12.436	12.530	VV	6273	142744	1.66%	0.088%
177	12.572	12.530	12.597	VV	6385	105779	1.23%	0.065%
178	12.628	12.597	12.658	VV	82629	991484	11.51%	0.610%
179	12.696	12.658	12.747	VV	711676	8018857	93.07%	4.934%
180	12.755	12.747	12.769	VV	540	6444	0.07%	0.004%
181	12.786	12.769	12.807	VV	955	13655	0.16%	0.008%
182	12.812	12.807	12.834	VV	490	6910	0.08%	0.004%
183	12.849	12.834	12.859	VV	1588	16158	0.19%	0.010%
184	12.876	12.859	12.895	VV	6539	79243	0.92%	0.049%
185	12.905	12.895	12.940	VV	2160	32241	0.37%	0.020%
186	12.995	12.940	13.026	VV	708071	8086059	93.85%	4.975%
187	13.071	13.026	13.101	VV	99634	1223725	14.20%	0.753%
188	13.123	13.101	13.140	VV	1573	28334	0.33%	0.017%
189	13.158	13.140	13.205	VV	1840	41134	0.48%	0.025%
190	13.237	13.205	13.270	VV	70130	860878	9.99%	0.530%
191	13.290	13.270	13.347	VV	5862	103834	1.21%	0.064%
192	13.380	13.347	13.395	VV	1362	23266	0.27%	0.014%
193	13.412	13.395	13.429	VV	1810	26860	0.31%	0.017%
194	13.460	13.429	13.515	VV	36802	469641	5.45%	0.289%

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195	13.533	13.515	13.552	VV	1945	35338	0.41%	0.022%				
196	13.572	13.552	13.623	VV	3731	81697						
197	13.640	13.623	13.657	VV	1810	25481						
198	13.686	13.657	13.705	VV	2233	42644						
199	13.718	13.705	13.733	VV	1583	19894						
200	13.772	13.733	13.794	VV	5147	86940						
201	13.823	13.794	13.871	VV	72868	910821	10.57%	0.560%				
202	13.889	13.871	13.932	VV	1860	30036	0.35%	0.018%				
203	13.948	13.932	13.979	VV	712	13056	0.15%	0.008%				
204	14.031	13.979	14.058	VV	601	15459	0.18%	0.010%				
205	14.068	14.058	14.116	VV	520	8127	0.09%	0.005%				
206	14.124	14.116	14.134	VV	279	1363	0.02%	0.001%				
207	14.157	14.134	14.174	PV	714	8665	0.10%	0.005%				
208	14.212	14.174	14.232	VV	1343	25210	0.29%	0.016%				
209	14.259	14.232	14.284	VV	5381	81952	0.95%	0.050%				
210	14.301	14.284	14.360	VV	3315	64572	0.75%	0.040%				
211	14.385	14.360	14.451	VV	1693	60432	0.70%	0.037%				
212	14.484	14.451	14.530	VV	1874	57447	0.67%	0.035%				
213	14.546	14.530	14.568	VV	1841	28026	0.33%	0.017%				
214	14.601	14.568	14.626	VV	1280	32102	0.37%	0.020%				
215	14.643	14.626	14.652	VV	683	9296	0.11%	0.006%				
216	14.665	14.652	14.687	VV	983	17457	0.20%	0.011%				
217	14.712	14.687	14.749	VV	1171	36654	0.43%	0.023%				
218	14.760	14.749	14.792	VV	921	14980	0.17%	0.009%				
219	14.867	14.792	14.887	VV	595481	7811338	90.66%	4.806%				
220	14.913	14.887	15.001	VV	728613	8615757	100.00%	5.301%				
221	15.017	15.001	15.043	VV	1099	20973	0.24%	0.013%				
222	15.097	15.043	15.124	VV	1330	40608	0.47%	0.025%				
223	15.159	15.124	15.203	VV	1371	43765	0.51%	0.027%				
224	15.218	15.203	15.262	VV	817	16960	0.20%	0.010%				
225	15.297	15.262	15.360	VV	31293	420359	4.88%	0.259%				
226	15.365	15.360	15.394	VV	824	12557	0.15%	0.008%				
227	15.407	15.394	15.415	VV	596	6973	0.08%	0.004%				
228	15.456	15.415	15.478	VV	2245	50142	0.58%	0.031%				
229	15.528	15.478	15.548	VV	2383	45460	0.53%	0.028%				
230	15.564	15.548	15.604	VV	1926	30932	0.36%	0.019%				
231	15.654	15.604	15.682	VV	1950	52072	0.60%	0.032%				
232	15.701	15.682	15.732	VV	1369	30261	0.35%	0.019%				
233	15.766	15.732	15.790	VV	1499	34684	0.40%	0.021%				
234	15.812	15.790	15.839	VV	1987	35760	0.42%	0.022%				
235	15.847	15.839	15.871	VV	886	11729	0.14%	0.007%				
236	15.901	15.871	15.914	VV	1543	22434	0.26%	0.014%				
237	15.942	15.914	15.982	VV	63748	833724	9.68%	0.513%				
238	15.998	15.982	16.018	VV	852	10974	0.13%	0.007%				
239	16.033	16.018	16.049	VV	350	4404	0.05%	0.003%				
240	16.061	16.049	16.074	PV	209	1888	0.02%	0.001%				
241	16.082	16.074	16.105	VV	246	3858	0.04%	0.002%				
242	16.140	16.105	16.180	VV	1115	26303	0.31%	0.016%				
243	16.229	16.180	16.265	VV	767	22346	0.26%	0.014%				
244	16.307	16.265	16.367	VV	3721	79258	0.92%	0.049%				
245	16.419	16.367	16.435	VV	517013	7438457	86.34%	4.576%				
246	16.456	16.435	16.483	VV	627364	7290912	84.62%	4.486%				

Instrument :

FID_D

ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025

				rters				
247	16.503	16.483	16.529	VV	2026	35408	0.41%	0.022%
248	16.552	16.529	16.592	VV	1436	30925		
249	16.618	16.592	16.640	VV	748	16779		
250	16.659	16.640	16.684	VV	2332	32371		
251	16.729	16.684	16.751	VV	2200	39447		
252	16.800	16.751	16.829	VV	540145	7097833	82	
253	16.886	16.829	16.914	VV	62576	850550	9.87%	0.523%
254	16.937	16.914	16.982	VV	11672	166486	1.93%	0.102%
255	17.020	16.982	17.099	VV	630	24071	0.28%	0.015%
256	17.147	17.099	17.204	VV	650	23552	0.27%	0.014%
257	17.245	17.204	17.267	VV	2257	39025	0.45%	0.024%
258	17.283	17.267	17.304	VV	1218	17842	0.21%	0.011%
259	17.335	17.304	17.356	VV	1842	29666	0.34%	0.018%
260	17.367	17.356	17.387	VV	459	5624	0.07%	0.003%
261	17.397	17.387	17.405	PV	366	2152	0.02%	0.001%
262	17.450	17.405	17.470	VV	745	17376	0.20%	0.011%
263	17.483	17.470	17.518	VV	598	10510	0.12%	0.006%
264	17.542	17.518	17.559	VV	441	6217	0.07%	0.004%
265	17.581	17.559	17.596	VV	472	6330	0.07%	0.004%
266	17.638	17.596	17.646	VV	506	10325	0.12%	0.006%
267	17.664	17.646	17.682	VV	950	16440	0.19%	0.010%
268	17.696	17.682	17.711	VV	972	13614	0.16%	0.008%
269	17.773	17.711	17.812	VV	57768	819428	9.51%	0.504%
270	17.863	17.812	17.909	VV	1094	32085	0.37%	0.020%
271	17.946	17.909	17.972	VV	983	21707	0.25%	0.013%
272	17.989	17.972	18.031	PV	404	8428	0.10%	0.005%
273	18.061	18.031	18.085	VV	629	9422	0.11%	0.006%
274	18.167	18.085	18.182	VV	477940	7501819	87.07%	4.615%
275	18.206	18.182	18.263	VV	522916	6731467	78.13%	4.142%
276	18.288	18.263	18.358	VV	1577	49495	0.57%	0.030%
277	18.424	18.358	18.497	VV	452334	6547650	76.00%	4.028%
278	18.542	18.497	18.560	VV	1268	29166	0.34%	0.018%
279	18.602	18.560	18.675	VV	55734	780768	9.06%	0.480%
280	18.703	18.675	18.735	PV	1442	27201	0.32%	0.017%
281	18.762	18.735	18.799	PV	766	12845	0.15%	0.008%
282	18.806	18.799	18.822	VV	279	3578	0.04%	0.002%
283	18.833	18.822	18.846	VV	536	3780	0.04%	0.002%
284	18.869	18.846	18.905	VV	522	9397	0.11%	0.006%
285	18.948	18.905	18.984	PV	11093	161418	1.87%	0.099%

Sum of corrected areas: 162536105

Aromatic EPH 061825.M Thu Jun 26 06:08:37 2025

Instrument :

FID_D

ClientSampleId :

S-1MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/26/2025

Supervised By :mohammad ahmed 06/27/2025



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

Manual Integration Report

Sequence:

FC061825AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

FC062525AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC069277.D	n-Octacosane (C28)	yogesh	6/26/2025 7:30:22 AM	 	 	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069277.D	n-Tetracontane (C40)	yogesh	6/26/2025 7:30:22 AM	 	 	Peak Integrated by Software
PB168603BS	FC069279.D	n-Tetracontane (C40)	yogesh	6/26/2025 7:30:20 AM	 	 	Peak Integrated by Software
PB168603BSD	FC069280.D	n-Tetracontane (C40)	yogesh	6/26/2025 7:30:24 AM	 	 	Peak Integrated by Software
Q2392-01MS	FC069283.D	n-Hexadecane (C16)	yogesh	6/26/2025 7:30:25 AM	 	 	Peak Integrated by Software
Q2392-01MS	FC069283.D	n-Tetracontane (C40)	yogesh	6/26/2025 7:30:25 AM	 	 	Peak Integrated by Software
Q2392-01MSD	FC069284.D	n-Hexacosane (C26)	yogesh	6/26/2025 7:30:28 AM	 	 	Peak Integrated by Software
Q2392-01MSD	FC069284.D	n-Tetracontane (C40)	yogesh	6/26/2025 7:30:28 AM	 	 	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069286.D	n-Tetracontane (C40)	yogesh	6/26/2025 7:30:30 AM	 	 	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FD061825AR

Instrument

FID_d

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

FD062525AR

Instrument

FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049513.D	2-Fluorobiphenyl (SURR)	yogesh	6/26/2025 7:29:58 AM	 	 	Peak Integrated by Software
Q2392-01MS	FD049519.D	Dibenz[a,h]anthracene (C30.36)	yogesh	6/26/2025 7:29:59 AM	 	 	Peak Integrated by Software
Q2392-01MS	FD049519.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	6/26/2025 7:29:59 AM	 	 	Peak Integrated by Software
Q2392-01MSD	FD049520.D	Dibenz[a,h]anthracene (C30.36)	yogesh	6/26/2025 7:30:00 AM	 	 	Peak Integrated by Software
Q2392-01MSD	FD049520.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	6/26/2025 7:30:00 AM	 	 	Peak Integrated by Software
20 PPM AROMATIC HC	FD049522.D	2-Fluorobiphenyl (SURR)	yogesh	6/26/2025 7:30:02 AM	 	 	Peak Integrated by Software

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC061825AL

Review By	yogesh	Review On	6/18/2025 1:05:10 PM
Supervise By	mohammad	Supervise On	6/20/2025 3:01:04 AM
SubDirectory	FC061825AL	HP Acquire Method	HP Processing Method FC061825AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069219.D	18 Jun 2025 09:57	YP/AJ	Ok
2	I.BLK	FC069220.D	18 Jun 2025 10:37	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC069221.D	18 Jun 2025 11:17	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC069222.D	18 Jun 2025 11:58	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC069223.D	18 Jun 2025 12:39	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC069224.D	18 Jun 2025 13:20	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC069225.D	18 Jun 2025 14:03	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC069226.D	18 Jun 2025 14:45	YP/AJ	Ok
9	I.BLK	FC069227.D	18 Jun 2025 15:28	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069228.D	18 Jun 2025 16:12	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC062525AL

Review By	yogesh	Review On	6/25/2025 10:54:21 AM
Supervise By		Supervise On	
SubDirectory	FC062525AL	HP Acquire Method	HP Processing Method FC061825AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069275.D	25 Jun 2025 08:37	YP/AJ	Ok
2	I.BLK	FC069276.D	25 Jun 2025 09:17	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069277.D	25 Jun 2025 09:59	YP/AJ	Ok,NS
4	PB168603BL	FC069278.D	25 Jun 2025 10:41	YP/AJ	Ok
5	PB168603BS	FC069279.D	25 Jun 2025 11:24	YP/AJ	Ok,NS
6	PB168603BSD	FC069280.D	25 Jun 2025 12:06	YP/AJ	Ok,NS
7	Q2392-01	FC069281.D	25 Jun 2025 12:48	YP/AJ	Ok
8	Q2392-01D	FC069282.D	25 Jun 2025 13:31	YP/AJ	Ok
9	Q2392-01MS	FC069283.D	25 Jun 2025 14:14	YP/AJ	Ok,NS
10	Q2392-01MSD	FC069284.D	25 Jun 2025 14:59	YP/AJ	Ok,NS
11	I.BLK	FC069285.D	25 Jun 2025 16:32	YP/AJ	Ok
12	20 PPM ALIPHATIC HC STD	FC069286.D	25 Jun 2025 17:18	YP/AJ	Ok,NS

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD061825AR

Review By	yogesh	Review On	6/18/2025 1:06:12 PM
Supervise By	mohammad	Supervise On	6/20/2025 3:01:16 AM
SubDirectory	FD061825AR	HP Acquire Method	HP Processing Method FD061825AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505		
CCC Internal Standard/PEM	PP24503		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24501,PP24506		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049490.D	18 Jun 2025 09:57	YP/AJ	Ok
2	I.BLK	FD049491.D	18 Jun 2025 10:37	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049492.D	18 Jun 2025 11:17	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD049493.D	18 Jun 2025 11:58	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049494.D	18 Jun 2025 12:39	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049495.D	18 Jun 2025 13:20	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049496.D	18 Jun 2025 14:45	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049497.D	18 Jun 2025 15:28	YP/AJ	Ok
9	I.BLK	FD049498.D	18 Jun 2025 16:12	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049499.D	18 Jun 2025 16:55	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD062525AR

Review By	yogesh	Review On	6/25/2025 10:55:19 AM
Supervise By		Supervise On	
SubDirectory	FD062525AR	HP Acquire Method	HP Processing Method FD061825AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505		
CCC Internal Standard/PEM	PP24503		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24501,PP24506		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049511.D	25 Jun 2025 08:37	YP/AJ	Ok
2	I.BLK	FD049512.D	25 Jun 2025 09:17	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049513.D	25 Jun 2025 09:59	YP/AJ	Ok,NS
4	PB168603BL	FD049514.D	25 Jun 2025 10:41	YP/AJ	Ok
5	PB168603BS	FD049515.D	25 Jun 2025 11:24	YP/AJ	Ok
6	PB168603BSD	FD049516.D	25 Jun 2025 12:06	YP/AJ	Ok
7	Q2392-01	FD049517.D	25 Jun 2025 12:48	YP/AJ	Ok
8	Q2392-01D	FD049518.D	25 Jun 2025 13:31	YP/AJ	Ok
9	Q2392-01MS	FD049519.D	25 Jun 2025 14:14	YP/AJ	Ok,NS
10	Q2392-01MSD	FD049520.D	25 Jun 2025 14:59	YP/AJ	Ok,NS
11	I.BLK	FD049521.D	25 Jun 2025 15:46	YP/AJ	Ok
12	20 PPM AROMATIC HC STD	FD049522.D	25 Jun 2025 17:18	YP/AJ	Ok,NS

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC061825AL

Review By	yogesh	Review On	6/18/2025 1:05:10 PM
Supervise By	mohammad	Supervise On	6/20/2025 3:01:04 AM
SubDirectory	FC061825AL	HP Acquire Method	HP Processing Method FC061825AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24176 PP24174,PP24179

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069219.D	18 Jun 2025 09:57		YP/AJ	Ok
2	I.BLK	I.BLK	FC069220.D	18 Jun 2025 10:37		YP/AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FC069221.D	18 Jun 2025 11:17		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC069222.D	18 Jun 2025 11:58		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069223.D	18 Jun 2025 12:39		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC069224.D	18 Jun 2025 13:20		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC069225.D	18 Jun 2025 14:03		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069226.D	18 Jun 2025 14:45		YP/AJ	Ok
9	I.BLK	I.BLK	FC069227.D	18 Jun 2025 15:28		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069228.D	18 Jun 2025 16:12		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC062525AL

Review By	yogesh	Review On	6/25/2025 10:54:21 AM
Supervise By		Supervise On	
SubDirectory	FC062525AL	HP Acquire Method	HP Processing Method FC061825AL
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	FC069275.D	25 Jun 2025 08:37		YP/AJ	Ok
2	I.BLK	I.BLK	FC069276.D	25 Jun 2025 09:17		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069277.D	25 Jun 2025 09:59		YP/AJ	Ok,NS
4	PB168603BL	PB168603BL	FC069278.D	25 Jun 2025 10:41		YP/AJ	Ok
5	PB168603BS	PB168603BS	FC069279.D	25 Jun 2025 11:24	naphthalene break down - 0.435, 2-methylnephthalene break down - 0.243	YP/AJ	Ok,NS
6	PB168603BSD	PB168603BSD	FC069280.D	25 Jun 2025 12:06	naphthalene break down - 0.442, 2-methylnephthalene break down - 0.260	YP/AJ	Ok,NS
7	Q2392-01	S-1	FC069281.D	25 Jun 2025 12:48		YP/AJ	Ok
8	Q2392-01D	Q2392-01D	FC069282.D	25 Jun 2025 13:31		YP/AJ	Ok
9	Q2392-01MS	S-1MS	FC069283.D	25 Jun 2025 14:14	FC069281.D	YP/AJ	Ok,NS
10	Q2392-01MSD	S-1MSD	FC069284.D	25 Jun 2025 14:59	FC069281.D!FC069283.D	YP/AJ	Ok,NS
11	I.BLK	I.BLK	FC069285.D	25 Jun 2025 16:32		YP/AJ	Ok
12	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069286.D	25 Jun 2025 17:18		YP/AJ	Ok,NS

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD061825AR

Review By	yogesh	Review On	6/18/2025 1:06:12 PM
Supervise By	mohammad	Supervise On	6/20/2025 3:01:16 AM
SubDirectory	FD061825AR	HP Acquire Method	HP Processing Method FD061825AR

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC Internal Standard/PEM	PP24503
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24501,PP24506

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049490.D	18 Jun 2025 09:57		YP/AJ	Ok
2	I.BLK	I.BLK	FD049491.D	18 Jun 2025 10:37		YP/AJ	Ok
3	100 PPM AROMATIC HC	100 PPM AROMATIC HC	FD049492.D	18 Jun 2025 11:17		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049493.D	18 Jun 2025 11:58		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049494.D	18 Jun 2025 12:39		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049495.D	18 Jun 2025 13:20		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049496.D	18 Jun 2025 14:45		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049497.D	18 Jun 2025 15:28		YP/AJ	Ok
9	I.BLK	I.BLK	FD049498.D	18 Jun 2025 16:12		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049499.D	18 Jun 2025 16:55		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD062525AR

Review By	yogesh	Review On	6/25/2025 10:55:19 AM
Supervise By		Supervise On	
SubDirectory	FD062525AR	HP Acquire Method	HP Processing Method FD061825AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505		
CCC	PP24503		
Internal Standard/PEM			
ICV/I.BLK	PP24501,PP24506		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049511.D	25 Jun 2025 08:37		YP/AJ	Ok
2	I.BLK	I.BLK	FD049512.D	25 Jun 2025 09:17		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049513.D	25 Jun 2025 09:59		YP/AJ	Ok,NS
4	PB168603BL	PB168603BL	FD049514.D	25 Jun 2025 10:41		YP/AJ	Ok
5	PB168603BS	PB168603BS	FD049515.D	25 Jun 2025 11:24	naphthalene break down - 0.435, 2-methylnephthalene break down - 0.243	YP/AJ	Ok
6	PB168603BSD	PB168603BSD	FD049516.D	25 Jun 2025 12:06	naphthalene break down - 0.442, 2-methylnephthalene break down - 0.260	YP/AJ	Ok
7	Q2392-01	S-1	FD049517.D	25 Jun 2025 12:48		YP/AJ	Ok
8	Q2392-01D	Q2392-01D	FD049518.D	25 Jun 2025 13:31		YP/AJ	Ok
9	Q2392-01MS	S-1MS	FD049519.D	25 Jun 2025 14:14	FD049517.D	YP/AJ	Ok,NS
10	Q2392-01MSD	S-1MSD	FD049520.D	25 Jun 2025 14:59	FD049517.D!FD049519.D	YP/AJ	Ok,NS
11	I.BLK	I.BLK	FD049521.D	25 Jun 2025 15:46		YP/AJ	Ok
12	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049522.D	25 Jun 2025 17:18		YP/AJ	Ok,NS

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/25/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 06/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 06/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB136243

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
Q2392-01	S-1	1	1.15	10.05	11.2	10.42	92.2	
Q2392-02	S-1A	2	1.18	10.49	11.67	10.97	93.3	
Q2393-01	PARK AVE -1	3	1.17	10.34	11.51	9.78	83.3	
Q2393-02	PARK AVE -1	4	1.15	10.07	11.22	9.4	81.9	
Q2393-03	PARK AVE -2	5	1.13	10.85	11.98	10.19	83.5	
Q2393-04	PARK AVE -2	6	1.19	10.26	11.45	9.55	81.5	
Q2393-05	PARK AVE -3	7	1.12	10.25	11.37	10.00	86.6	
Q2393-06	PARK AVE -3	8	1.15	10.84	11.99	10.5	86.3	
Q2393-07	PARK AVE -4	9	1.16	10.70	11.86	10.54	87.7	
Q2393-08	PARK AVE -4	10	1.19	9.86	11.05	9.84	87.7	
Q2393-09	PARK AVE -5	11	1.15	10.84	11.99	11.05	91.3	
Q2393-10	PARK AVE -5	12	1.15	9.95	11.1	9.95	88.4	
Q2393-11	PARK AVE -6	13	1.19	10.23	11.42	10.07	86.8	
Q2393-12	PARK AVE -6	14	1.17	10.52	11.69	10.4	87.7	
Q2394-01	MH-K/L	15	1.18	10.49	11.67	10.23	86.3	
Q2394-02	MH-K/L EPH	16	1.19	9.97	11.16	9.58	84.2	
Q2394-03	MH-K/L VOC	17	1.13	10.86	11.99	10.66	87.8	
Q2394-04	MH-K/L	18	1.18	10.49	11.67	10.23	86.3	
Q2396-01	245F53-1-1	19	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-02	245F53-1-2	20	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-03	LAW-25-1A	21	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-04	LAW-25-1B	22	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-05	LAW-25-2A	23	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-06	LAW-25-2B	24	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-07	LAW-25-3A	25	1.00	1.00	2.00	2.00	100.0	oilc
Q2396-08	LAW-25-3B	26	1.00	1.00	2.00	2.00	100.0	oilc
Q2398-01	M00-25-0169	27	1.00	1.00	2.00	2.00	100.0	oil sample
Q2398-03	M00-25-0179	28	1.19	10.07	11.26	7.63	64.0	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/25/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 06/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 06/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB136243

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
Q2398-04	M00-25-0179-E2	29	1.19	10.25	11.44	7.68	63.3	
Q2398-06	ARS20-0036	30	1.19	10.53	11.72	10.47	88.1	
Q2398-07	ARS20-0036-E2	31	1.12	10.77	11.89	10.9	90.8	
Q2399-01	TP-13	32	1.13	10.84	11.97	10.27	84.3	
Q2399-02	TP-13-EPH	33	1.19	10.36	11.55	9.96	84.7	
Q2399-03	TP-13-VOC	34	1.15	10.84	11.99	10.36	85.0	
Q2399-04	TP-13	35	1.13	10.84	11.97	10.27	84.3	
Q2399-05	EP-7	36	1.19	10.47	11.66	10.37	87.7	
Q2399-06	EP-7-EPH	37	1.19	10.47	11.66	10.33	87.3	
Q2399-07	EP-7-VOC	38	1.16	10.57	11.73	10.38	87.2	
Q2399-08	EP-13	39	1.19	10.47	11.66	10.37	87.7	
Q2400-01	B-156-SB01	40	1.17	10.58	11.75	10.11	84.5	
Q2400-02	B-134-SB01	41	1.19	10.00	11.19	9.49	83.0	
Q2403-03	LAW-25-0093	42	1.18	10.24	11.42	10.54	91.4	
Q2403-04	LAW-25-0093-E2	43	1.18	10.14	11.32	10.42	91.1	
Q2403-05	Concrete-062325	44	1.15	10.84	11.99	11.71	97.4	
Q2403-07	ARS 20-006	45	1.19	10.44	11.63	11.13	95.2	
Q2403-08	ARS020-0006-E2	46	1.18	10.64	11.82	11.09	93.1	
Q2405-01	MH-M/H	47	1.19	10.11	11.3	10.37	90.8	
Q2405-02	MH-M/N-EPH	48	1.19	10.01	11.2	10.15	89.5	
Q2405-03	MH-M/N-VOC	49	1.11	10.71	11.82	10.9	91.4	
Q2406-01	PUMPING-PLANT	50	1.00	1.00	2.00	2.00	100.0	oil sample
Q2409-02	COP-SOIL-PILE	51	1.18	10.58	11.76	11.38	96.4	
Q2410-01	TRE-25-0021	52	1.00	1.00	2.00	2.00	100.0	debris
Q2411-01	TRE-2002	53	1.00	1.00	2.00	2.00	100.0	wipe sample
Q2412-01	TR-05-062425	54	1.18	10.08	11.26	10.94	96.8	
Q2412-02	TR-05-062425-E2	55	1.16	10.28	11.44	11.23	98.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

136243

WorkList Name : %1-062425

WorkList ID : 190342

Department : Wet-Chemistry

Date : 06-24-2025 08:17:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2392-01	S-1	Solid	Percent Solids	Cool 4 deg C	EARTH03	A41	06/23/2025	Chemtech -SO
Q2392-02	S-1A	Solid	Percent Solids	Cool 4 deg C	EARTH03	A41	06/23/2025	Chemtech -SO
Q2393-01	PARK AVE -1	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-02	PARK AVE -1	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-03	PARK AVE -2	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-04	PARK AVE -2	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-05	PARK AVE -3	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-06	PARK AVE -3	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-07	PARK AVE -4	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-08	PARK AVE -4	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-09	PARK AVE -5	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-10	PARK AVE -5	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-11	PARK AVE -6	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2393-12	PARK AVE -6	Solid	Percent Solids	Cool 4 deg C	UNIO02	A22	06/23/2025	Chemtech -SO
Q2394-01	MH-K/L	Solid	Percent Solids	Cool 4 deg C	PSEG03	A21	06/23/2025	Chemtech -SO
Q2394-02	MH-K/L EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A21	06/23/2025	Chemtech -SO
Q2394-03	MH-K/L VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A21	06/23/2025	Chemtech -SO
Q2394-04	MH-K/L	Solid	Percent Solids	Cool 4 deg C	PSEG03	A21	06/23/2025	Chemtech -SO
Q2396-01	245F53-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-02	245F53-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-03	LAW-25-1A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO

Date/Time 06/24/25 15:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 06/24/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

136243

WorkList Name : %1-062425

WorkList ID : 190342

Department : Wet-Chemistry

Date : 06-24-2025 08:17:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2396-04	LAW-25-1B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-05	LAW-25-2A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-06	LAW-25-2B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-07	LAW-25-3A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2396-08	LAW-25-3B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A11	06/23/2025	Chemtech -SO
Q2398-01	M00-25-0169	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-03	M00-25-0179	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-04	M00-25-0179-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-06	ARS20-0036	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2398-07	ARS20-0036-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A33	06/23/2025	Chemtech -SO
Q2399-01	TP-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-02	TP-13-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-03	TP-13-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-04	TP-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-05	EP-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-06	EP-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-07	EP-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2399-08	EP-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	A41	06/23/2025	Chemtech -SO
Q2400-01	B-156-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	A42	06/23/2025	Chemtech -SO
Q2400-02	B-134-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	A42	06/23/2025	Chemtech -SO
Q2403-03	LAW-25-0093	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

136243

WorkList Name : %1-062425

WorkList ID : 190342

Department : Wet-Chemistry

Date : 06-24-2025 08:17:18

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2403-04	LAW-25-0093-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO
Q2403-05	Concrete-062325	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO
Q2403-07	ARS 20-006	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO
Q2403-08	ARS020-0006-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	A32	06/23/2025	Chemtech -SO
Q2405-01	MH-M/H	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2405-02	MH-M/N-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2405-03	MH-M/N-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2406-01	PUMPING-PLANT	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/23/2025	Chemtech -SO
Q2409-02	COP-SOIL-PILE	Solid	Percent Solids	Cool 4 deg C	COPP02	D51	06/24/2025	Chemtech -SO
Q2410-01	TRE-25-0021	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2411-01	TRE-2002	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	06/24/2025	Chemtech -SO
Q2412-01	TR-05-062425	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/24/2025	Chemtech -SO
Q2412-02	TR-05-062425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	06/24/2025	Chemtech -SO

Date/Time 06/24/25 15:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 06/24/25 17:20

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

SOP ID: MNJDEP-EPH-8

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: 06/24/2025

Extraction Start Time: 13:45

Extraction End Date: 06/25/2025

Extraction End Time: 09:45

Concentration By: EH

Supervisor By: RUPESH

Extraction Method: ☐ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24625
Surrogate	1.0ML	100 PPM	PP24652
Fractionation Surrogate	1.0ML	100 PPM	PP24647
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	EP2612
Baked Na2SO4	N/A	EP2622
Sand	N/A	E2865
Hexane	N/A	E3945
Methylene Chloride	N/A	E3943
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 # 2210443.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/25/25	RS (Ext Lab)	Y. P. K. H. 10
9:50	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

Concentration Date: 06/25/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168603BL	PB168603BL	EPH	30.02	N/A	ritesh	Evelyn	2			U2-1
PB168603BS	PB168603BS	EPH	30.01	N/A	ritesh	Evelyn	2			2
PB168603BSD	PB168603BSD	EPH	30.03	N/A	ritesh	Evelyn	2			3
Q2392-01	S-1	EPH	30.06	N/A	ritesh	Evelyn	2	B		4
Q2392-01DUP	S-1DUP	EPH	30.05	N/A	ritesh	Evelyn	2	B		5
Q2392-01MS	S-1MS	EPH	30.02	N/A	ritesh	Evelyn	2	B		6
Q2392-01MSD	S-1MSD	EPH	30.08	N/A	ritesh	Evelyn	2	B		U3-1

168605
131113

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2392 WorkList ID : 190361 Department : Extraction Date : 06-24-2025 13:37:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2392-01	S-1	Solid	EPH	Cool 4 deg C	EARTH03	A41	06/23/2025	NJEPH

Date/Time 6/24/25 13:40
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: RJ SM

Date/Time 6/24/25 13:55
Raw Sample Received by: RJ SM
Raw Sample Relinquished by: RJ (Ext Lab)



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Earth Engineering

ADDRESS: 4103 Commerce Ln

CITY West Berlin STATE: NJ ZIP:

ATTENTION: Frank Dougherty

PHONE: 856-768-1001 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Thomas McGovern

PROJECT NO.: LOCATION: NJ

PROJECT MANAGER: Frank Dougherty

e-mail: frankd@earthengineering.com

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: SciAid PO#:

ADDRESS:

CITY STATE: ZIP:

ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 3 DAYS*

HARDCOPY (DATA PACKAGE): DAYS*

EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)

☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP

☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B

+ Raw Data) ☐ Other

☐ EDD FORMAT

TCE/PAH
VO PORTION of
EPH
1 2 3 4 5 6 7 8 9

PRESERVATIVES

COMMENTS

← Specify Preservatives

A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	S-1	S-1	X	X	6/23/98	7:45	2	X		X							
2.	S-1A	1	X	X	6/23/98	7:25	1		X								
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>6/23/98 9:18</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.2</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	Comments: <u>IF G-1</u>
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 3. <u>[Signature]</u>	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2392	EARTH03	Order Date : 6/23/2025 10:03:33 AM	Project Mgr :
Client Name : Earth Engineering Inc.		Project Name : Thomas McGovern	Report Type : Results Only
Client Contact : Frank Dougherty, LSRP		Receive DateTime : 6/23/2025 9:18:00 AM	EDD Type : HAZ/EXCEL
Invoice Name : Earth Engineering Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Frank Dougherty, LSRP			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2392-02	S-1A	Solid	06/23/2025	07:25	VOC-TCLVOA-10	TCL+30/TAL	8260D		3 Bus. Days

Relinquished By :

Date / Time : 6/23/25 1145

Received By :

Date / Time : 06/23/25 11:45

Storage Area : VOA Refridgerator Room