

Cover Page

Order ID : Q2832

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number

Q2832-01
Q2832-02
Q2832-03
Q2832-04
Q2832-05
Q2832-06
Q2832-07
Q2832-08
Q2832-09
Q2832-10

Client Sample Number

TG-S01
TG-S01
TG-S02
TG-S02
TG-S03
TG-S03
TG-S04
TG-S04
TG-S05
TG-S05

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: 8/26/2025

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 #: Q2832

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 08/26/2025

LAB CHRONICLE

OrderID:	Q2832	OrderDate:	8/12/2025 9:37:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	J21,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2832-01	TG-S01	SOIL			08/11/25			08/12/25
			PCB	8082A		08/13/25	08/13/25	
			EPH	NJEPH		08/21/25	08/22/25	
			EPH	NJEPH		08/21/25	08/25/25	
Q2832-02	TG-S01	TCLP			08/11/25			08/12/25
			TCLP Herbicide	8151A		08/15/25	08/15/25	
			TCLP Pesticide	8081B		08/15/25	08/15/25	
Q2832-03	TG-S02	SOIL			08/11/25			08/12/25
			PCB	8082A		08/13/25	08/13/25	
			EPH	NJEPH		08/21/25	08/22/25	
			EPH	NJEPH		08/21/25	08/25/25	
Q2832-03DL	TG-S02DL	SOIL			08/11/25			08/12/25
			PCB	8082A		08/13/25	08/14/25	
Q2832-04	TG-S02	TCLP			08/11/25			08/12/25
			TCLP Herbicide	8151A		08/15/25	08/15/25	
			TCLP Pesticide	8081B		08/15/25	08/15/25	
Q2832-04RE	TG-S02RE	TCLP			08/11/25			08/12/25
			TCLP Herbicide	8151A		08/15/25	08/18/25	
Q2832-05	TG-S03	SOIL			08/11/25			08/12/25
			PCB	8082A		08/13/25	08/13/25	
			EPH	NJEPH		08/21/25	08/22/25	
			EPH	NJEPH		08/21/25	08/25/25	
Q2832-05DL	TG-S03DL	SOIL			08/11/25			08/12/25
			PCB	8082A		08/13/25	08/14/25	
Q2832-06	TG-S03	TCLP			08/11/25			08/12/25

LAB CHRONICLE

			TCLP Herbicide	8151A		08/15/25	08/15/25	
			TCLP Pesticide	8081B		08/15/25	08/15/25	
Q2832-06RE	TG-S03RE	TCLP			08/11/25			08/12/25
			TCLP Herbicide	8151A		08/15/25	08/18/25	
Q2832-07	TG-S04	SOIL			08/11/25			08/12/25
			PCB	8082A		08/13/25	08/13/25	
			EPH	NJEPH		08/21/25	08/22/25	
			EPH	NJEPH		08/21/25	08/25/25	
Q2832-07DL	TG-S04DL	SOIL			08/11/25			08/12/25
			PCB	8082A		08/13/25	08/14/25	
Q2832-08	TG-S04	TCLP			08/11/25			08/12/25
			TCLP Herbicide	8151A		08/15/25	08/15/25	
			TCLP Pesticide	8081B		08/15/25	08/15/25	
Q2832-08RE	TG-S04RE	TCLP			08/11/25			08/12/25
			TCLP Herbicide	8151A		08/15/25	08/18/25	
Q2832-09	TG-S05	SOIL			08/12/25			08/12/25
			PCB	8082A		08/13/25	08/13/25	
			EPH	NJEPH		08/21/25	08/22/25	
			EPH	NJEPH		08/21/25	08/25/25	
Q2832-10	TG-S05	TCLP			08/12/25			08/12/25
			TCLP Herbicide	8151A		08/15/25	08/15/25	
			TCLP Pesticide	8081B		08/15/25	08/15/25	
Q2832-10RE	TG-S05RE	TCLP			08/12/25			08/12/25
			TCLP Herbicide	8151A		08/15/25	08/18/25	



QC SUMMARY



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

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance

Contract: PORT06

Lab Code: ACE

SDG No.: Q2832

Run Number: FC082225AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB169364BL	82			0
PB169364BS	87			0
PB169364BSD	91			0
BACK-1-FLOOR-CENTER-MIDD	62			0
BACK-1-FLOOR-CENTER-MIDD	69			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: Alliance Contract: PORT06
Lab Code: ACE SDG No.: Q2832
Run Number: FD082225AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PBI69364BL	78	78	85	0
PBI69364BS	125	122	101	0
PBI69364BSD	120	118	98	0
TG-S01	125	92	126	0
TG-S02	115	116	104	0
TG-S03	123	120	101	0
TG-S04	97	90	73	0
TG-S05	129	129	113	0
BACK-1-FLOOR-CENTER-MIDD	109	110	74	0
BACK-1-FLOOR-CENTER-MIDD	105	105	69	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

Lab Name: Alliance Contract: PORT06
Lab Code: ACE SDG No.: Q2832
Run Number: FE082525AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
TG-S01	121			0
TG-S02	101			0
TG-S03	137			0
TG-S04	120			0
TG-S05	133			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

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

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Portal Partners Tri-Venture</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2832</u>
Sample No :	<u>Q2892-05MS</u>	Datafile:	<u>FC069713.D</u>
		Client ID :	<u>BACK-1-FLOOR-CENTER-MIDDLE-CMS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	11.3	0.17	6.12	53		(40-140)
Aliphatic C12-C16	7.5	0.32	5.39	68		(40-140)
Aliphatic C16-C21	11.3	0.30	9.04	77		(40-140)
Aliphatic C21-C28	15.0	0	12.1	80		(40-140)
Aliphatic C28-C40	22.6	2.05	20.8	83		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
n-Nonane (C9)	3.8	0.0000	1.6901	44		(40-140)
n-Decane (C10)	3.8	0.0000	2.0255	53		(40-140)
Naphthalene (C11.7)	3.8	0.0000	0.0114	0	*	(40-140)
n-Dodecane (C12)	3.8	0.0000	2.2063	58		(40-140)
2-methylnaphthalene (C12.89)	3.8	0.0000	0.0070	0	*	(40-140)
n-Tetradecane (C14)	3.8	0.0000	2.4237	64		(40-140)
n-Hexadecane (C16)	3.8	0.0000	2.6595	70		(40-140)
n-Octadecane (C18)	3.8	0.0000	2.8073	74		(40-140)
n-Eicosane (C20)	3.8	0.0000	3.0097	79		(40-140)
n-Heneicosane (C21)	3.8	0.0000	2.9798	78		(40-140)
n-Docosane (C22)	3.8	0.0000	2.9628	78		(40-140)
n-Tetracosane (C24)	7.5	0.0000	2.9651	40		(40-140)
n-Hexacosane (C26)	3.8	0.0000	2.9503	78		(40-140)
n-Octacosane (C28)	3.8	0.0000	2.9179	77		(40-140)
n-Tricontane (C30)	3.8	0.0000	2.8191	74		(40-140)
n-Dotriacontane (C32)	3.8	0.0000	2.8631	75		(40-140)
n-Tetratriacontane (C34)	3.8	0.0000	3.1101	82		(40-140)
n-Hexatriacontane (C36)	3.8	0.0000	3.4943	92		(40-140)
n-Octatriacontane (C38)	3.8	0.0000	3.8057	100		(40-140)
n-Tetracontane (C40)	3.8	0.0000	3.6131	95		(40-140)

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Portal Partners Tri-Venture</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2832</u>
Sample No :	<u>Q2892-05MSD</u>	Datafile:	<u>FC069714.D</u>
		Client ID :	<u>BACK-1-FLOOR-CENTER-MIDDLE-CMSD</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	11.3	0.17	6.20	54		1.51 (40-140)	50
Aliphatic C12-C16	7.5	0.32	5.49	69		1.91 (40-140)	50
Aliphatic C16-C21	11.3	0.30	9.10	78		0.77 (40-140)	50
Aliphatic C21-C28	15.0	0	12.1	80		0.12 (40-140)	50
Aliphatic C28-C40	22.6	2.05	21.3	85		2.61 (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)	3.8	0.0000	1.7124	45		2.25 (40-140)	50
n-Decane (C10)	3.8	0.0000	2.0529	54		1.87 (40-140)	50
Naphthalene (C11.7)	3.8	0.0000	0.0131	0	*	0 (40-140)	50
n-Dodecane (C12)	3.8	0.0000	2.2507	59		1.71 (40-140)	50
2-methylnaphthalene (C12.89)	3.8	0.0000	0.0100	0	*	0 (40-140)	50
n-Tetradecane (C14)	3.8	0.0000	2.4576	65		1.55 (40-140)	50
n-Hexadecane (C16)	3.8	0.0000	2.6948	71		1.42 (40-140)	50
n-Octadecane (C18)	3.8	0.0000	2.8440	75		1.34 (40-140)	50
n-Eicosane (C20)	3.8	0.0000	3.0407	80		1.26 (40-140)	50
n-Heneicosane (C21)	3.8	0.0000	2.9982	79		1.27 (40-140)	50
n-Docosane (C22)	3.8	0.0000	2.9820	78		0 (40-140)	50
n-Tetracosane (C24)	7.5	0.0000	2.9784	40		0 (40-140)	50
n-Hexacosane (C26)	3.8	0.0000	2.9552	78		0 (40-140)	50
n-Octacosane (C28)	3.8	0.0000	2.9297	77		0 (40-140)	50
n-Tricontane (C30)	3.8	0.0000	2.8337	75		1.34 (40-140)	50
n-Dotriacontane (C32)	3.8	0.0000	2.8867	76		1.32 (40-140)	50
n-Tetratriacontane (C34)	3.8	0.0000	3.1279	82		0 (40-140)	50
n-Hexatriacontane (C36)	3.8	0.0000	3.5491	93		1.08 (40-140)	50
n-Octatriacontane (C38)	3.8	0.0000	3.8775	102		1.98 (40-140)	50
n-Tetracontane (C40)	3.8	0.0000	3.7466	99		4.12 (40-140)	50

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Portal Partners Tri-Venture</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2832</u>
Sample No :	<u>Q2892-05MS</u>	Datafile:	<u>FD049660.D</u>
		Client ID :	<u>BACK-1-FLOOR-CENTER-MIDDLE-CMS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	7.5	0.24	6.53	84		(40-140)
Aromatic C12-C16	11.3	5.67	10.7	45		(40-140)
Aromatic C16-C21	18.8	1.61	23.2	114		(40-140)
Aromatic C21-C36	30.1	2.45	36.9	114		(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)	3.8	0.0000	3.1951	84		(40-140)
Naphthalene (C11.7)	3.8	0.0000	3.0742	81		(40-140)
2-Methylnaphthalene (C12.89)	3.8	0.0000	2.9160	77		(40-140)
Acenaphthylene (C15.06)	3.8	0.0000	3.3457	88		(40-140)
Acenaphthene (C15.5)	3.8	0.0000	3.4147	90		(40-140)
Fluorene (C16.55)	3.8	0.0000	3.6784	97		(40-140)
Phenanthrene (C19.36)	3.8	0.0000	3.9635	104		(40-140)
Anthracene (C19.43)	3.8	0.0000	4.1706	110		(40-140)
Pyrene (C20.8)	3.8	0.0000	4.1754	110		(40-140)
Fluoranthene (C21.85)	3.8	0.0000	4.1224	108		(40-140)
Benzo[a]anthracene (C26.37)	3.8	0.0000	4.3060	113		(40-140)
Chrysene (C27.41)	3.8	0.0000	8.9390	235	*	(40-140)
Benzo[k]fluoranthene (C30.14)	3.8	0.0000	8.7511	230	*	(40-140)
Dibenz[a,h]anthracene (C30.36)	3.8	0.0000	8.4431	222	*	(40-140)
benzo[b]fluoranthene (C30.41)	3.8	0.0000	8.2366	217	*	(40-140)
Benzo[a]pyrene (C31.34)	3.8	0.0000	4.1037	108		(40-140)
Benzo[g,h,i]perylene (C34.01)	3.8	0.0000	3.8808	102		(40-140)
Indeno[1,2,3-cd]pyrene (C35.01)	3.8	0.0000	4.6644	123		(40-140)

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Portal Partners Tri-Venture</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2832</u>
Sample No :	<u>Q2892-05MSD</u>	Datafile:	<u>FD049661.D</u>
		Client ID :	<u>BACK-1-FLOOR-CENTER-MIDDLE-CMSD</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	7.5	0.24	6.37	82		2.54 (40-140)	50
Aromatic C12-C16	11.3	5.67	10.3	41		8.41 (40-140)	50
Aromatic C16-C21	18.8	1.61	21.9	107		6.33 (40-140)	50
Aromatic C21-C36	30.1	2.45	35.6	110		3.57 (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)	3.8	0.0000	3.1483	83		1.2 (40-140)	50
Naphthalene (C11.7)	3.8	0.0000	2.9903	79		2.5 (40-140)	50
2-Methylnaphthalene (C12.89)	3.8	0.0000	2.8254	74		3.97 (40-140)	50
Acenaphthylene (C15.06)	3.8	0.0000	3.2060	84		4.65 (40-140)	50
Acenaphthene (C15.5)	3.8	0.0000	3.2617	86		4.55 (40-140)	50
Fluorene (C16.55)	3.8	0.0000	3.4870	92		5.29 (40-140)	50
Phenanthrene (C19.36)	3.8	0.0000	3.7185	98		5.94 (40-140)	50
Anthracene (C19.43)	3.8	0.0000	3.9108	103		6.57 (40-140)	50
Pyrene (C20.8)	3.8	0.0000	3.9296	103		6.57 (40-140)	50
Fluoranthene (C21.85)	3.8	0.0000	3.8708	102		5.71 (40-140)	50
Benzo[a]anthracene (C26.37)	3.8	0.0000	4.1223	108		4.52 (40-140)	50
Chrysene (C27.41)	3.8	0.0000	8.5558	225	*	4.35 (40-140)	50
Benzo[k]fluoranthene (C30.14)	3.8	0.0000	8.4425	222	*	3.54 (40-140)	50
Dibenz[a,h]anthracene (C30.36)	3.8	0.0000	8.2165	216	*	2.74 (40-140)	50
benzo[b]fluoranthene (C30.41)	3.8	0.0000	7.9462	209	*	3.76 (40-140)	50
Benzo[a]pyrene (C31.34)	3.8	0.0000	3.9790	105		2.82 (40-140)	50
Benzo[g,h,i]perylene (C34.01)	3.8	0.0000	3.7817	100		1.98 (40-140)	50
Indeno[1,2,3-cd]pyrene (C35.01)	3.8	0.0000	4.5488	120		2.47 (40-140)	50

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Portal Partners Tri-Venture</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2832</u>
Sample No :	<u>PB169364BS</u>	Datafile:	<u>FC069708.D</u>
		Client ID :	<u>PB169364BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	10	5.69	57		(40-140)
Aliphatic C12-C16	6.7	5.22	78		(40-140)
Aliphatic C16-C21	10	8.98	90		(40-140)
Aliphatic C21-C28	13.3	12.6	95		(40-140)
Aliphatic C28-C40	20.0	20.5	102		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
n-Nonane (C9)	3.3	1.47043	45		(40-140)
n-Decane (C10)	3.3	1.91530	58		(40-140)
Naphthalene (C11.7)	3.3	0.00000	0	*	(40-140)
n-Dodecane (C12)	3.3	2.28863	69		(40-140)
2-methylnaphthalene (C12.89)	3.3	0.00000	0	*	(40-140)
n-Tetradecane (C14)	3.3	2.58026	78		(40-140)
n-Hexadecane (C16)	3.3	2.64378	80		(40-140)
n-Octadecane (C18)	3.3	2.74605	83		(40-140)
n-Eicosane (C20)	3.3	3.14670	95		(40-140)
n-Heneicosane (C21)	3.3	3.10467	94		(40-140)
n-Docosane (C22)	3.3	3.13836	95		(40-140)
n-Tetracosane (C24)	6.7	3.16091	47		(40-140)
n-Hexacosane (C26)	3.3	3.16202	96		(40-140)
n-Octacosane (C28)	3.3	3.17633	96		(40-140)
n-Tricontane (C30)	3.3	3.15432	96		(40-140)
n-Dotriacontane (C32)	3.3	3.23331	98		(40-140)
n-Tetratriacontane (C34)	3.3	3.38463	103		(40-140)
n-Hexatriacontane (C36)	3.3	3.58232	109		(40-140)
n-Octatriacontane (C38)	3.3	3.73197	113		(40-140)
n-Tetracontane (C40)	3.3	3.65709	111		(40-140)

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Portal Partners Tri-Venture</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2832</u>
Sample No :	<u>PB169364BSD</u>	Datafile:	<u>FC069709.D</u>
		Client ID :	<u>PB169364BSD</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
Aliphatic C9-C12	10	5.98	60		4.9 (40-140) 25
Aliphatic C12-C16	6.7	5.54	83		5.9 (40-140) 25
Aliphatic C16-C21	10	9.34	94		3.9 (40-140) 25
Aliphatic C21-C28	13.3	13.0	98		3.1 (40-140) 25
Aliphatic C28-C40	20.0	21.7	108		6.2 (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	1.54057	47		4.35 (40-140) 25
n-Decane (C10)	3.3	2.01453	61		5.04 (40-140) 25
Naphthalene (C11.7)	3.3	0.00000	0	*	0 (40-140) 25
n-Dodecane (C12)	3.3	2.41656	73		5.63 (40-140) 25
2-methylnaphthalene (C12.89)	3.3	0.00000	0	*	0 (40-140) 25
n-Tetradecane (C14)	3.3	2.73328	83		6.21 (40-140) 25
n-Hexadecane (C16)	3.3	2.80209	85		6.06 (40-140) 25
n-Octadecane (C18)	3.3	2.88192	87		4.71 (40-140) 25
n-Eicosane (C20)	3.3	3.26971	99		4.12 (40-140) 25
n-Heneicosane (C21)	3.3	3.20963	97		3.14 (40-140) 25
n-Docosane (C22)	3.3	3.23323	98		3.11 (40-140) 25
n-Tetracosane (C24)	6.7	3.24166	48		2.11 (40-140) 25
n-Hexacosane (C26)	3.3	3.23802	98		2.06 (40-140) 25
n-Octacosane (C28)	3.3	3.27099	99		3.08 (40-140) 25
n-Tricontane (C30)	3.3	3.28260	99		3.08 (40-140) 25
n-Dotriacontane (C32)	3.3	3.39740	103		4.98 (40-140) 25
n-Tetratriacontane (C34)	3.3	3.57113	108		4.74 (40-140) 25
n-Hexatriacontane (C36)	3.3	3.78183	115		5.36 (40-140) 25
n-Octatriacontane (C38)	3.3	3.95728	120		6.01 (40-140) 25
n-Tetracontane (C40)	3.3	3.92491	119		6.96 (40-140) 25

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Portal Partners Tri-Venture</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2832</u>
Sample No :	<u>PB169364BS</u>	Datafile:	<u>FD049646.D</u>
		Client ID :	<u>PB169364BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	6.7	5.52	83		(40-140)
Aromatic C12-C16	10	9.50	95		(40-140)
Aromatic C16-C21	16.7	17.3	103		(40-140)
Aromatic C21-C36	26.6	28.3	106		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
Benzo[a]anthracene (C26.37)	3.3	3.59897	109		(40-140)
Chrysene (C27.41)	3.3	3.87681	117		(40-140)
benzo[b]fluoranthene (C30.41)	3.3	3.60634	109		(40-140)
Bnezo[k]fluoranthene (C30.14)	3.3	3.70982	112		(40-140)
Benzo[a]pyrene (C31.34)	3.3	3.42796	104		(40-140)
Indeno[1,2,3-cd]pyrene (C35.01)	3.3	3.81375	116		(40-140)
Dibenz[a,h]anthracene (C30.36)	3.3	3.43788	104		(40-140)
Benzo[g,h,i]perylene (C34.01)	3.3	3.25732	99		(40-140)
1,2,3-Trimethylbenzene (C10.1)	3.3	2.57446	78		(40-140)
Naphthalene (C11.7)	3.3	2.92774	89		(40-140)
2-Methylnaphthalene (C12.89)	3.3	2.85195	86		(40-140)
Acenaphthylene (C15.06)	3.3	3.28567	100		(40-140)
Acenaphthene (C15.5)	3.3	3.34364	101		(40-140)
Flouorene (C16.55)	3.3	3.52820	107		(40-140)
Phenanthrene (C19.36)	3.3	3.50244	106		(40-140)
Anthracene (C19.43)	3.3	3.10458	94		(40-140)
Fluoranthene (C21.85)	3.3	3.56424	108		(40-140)
Pyrene (C20.8)	3.3	3.51892	107		(40-140)

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Portal Partners Tri-Venture</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2832</u>
Sample No :	<u>PB169364BSD</u>	Datafile:	<u>FD049647.D</u>
		Client ID :	<u>PB169364BSD</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	5.35	80		3.2 (40-140)	25
Aromatic C12-C16	10	9.12	91		4.1 (40-140)	25
Aromatic C16-C21	16.7	17.1	102		0.322 (40-140)	25
Aromatic C21-C36	26.6	28.9	108		2.3 (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	2.50221	76		2.6 (40-140)	25
Naphthalene (C11.7)	3.3	2.82885	86		3.43 (40-140)	25
2-Methylnaphthalene (C12.89)	3.3	2.74144	83		3.55 (40-140)	25
Acenaphthylene (C15.06)	3.3	3.15651	96		4.08 (40-140)	25
Acenaphthene (C15.5)	3.3	3.20191	97		4.04 (40-140)	25
Flouorene (C16.55)	3.3	3.40770	103		3.81 (40-140)	25
Phenanthrene (C19.36)	3.3	3.44215	104		1.9 (40-140)	25
Anthracene (C19.43)	3.3	3.06927	93		1.07 (40-140)	25
Fluoranthene (C21.85)	3.3	3.57289	108		0 (40-140)	25
Pyrene (C20.8)	3.3	3.53876	107		0 (40-140)	25
Benzo[a]anthracene (C26.37)	3.3	3.67308	111		1.82 (40-140)	25
Chrysene (C27.41)	3.3	3.94937	120		2.53 (40-140)	25
benzo[b]fluoranthene (C30.41)	3.3	3.68299	112		2.71 (40-140)	25
Bnezo[k]fluoranthene (C30.14)	3.3	3.78964	115		2.64 (40-140)	25
Benzo[a]pyrene (C31.34)	3.3	3.49885	106		1.9 (40-140)	25
Indeno[1,2,3-cd]pyrene (C35.01)	3.3	3.90574	118		1.71 (40-140)	25
Dibenz[a,h]anthracene (C30.36)	3.3	3.53458	107		2.84 (40-140)	25
Benzo[g,h,i]perylene (C34.01)	3.3	3.32938	101		2 (40-140)	25

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169364BL

Lab Name: Alliance

Contract: PORT06

Lab Code: ACE

SDG NO.: Q2832

Instrument ID: FID_C

Lab Sample ID: PB169364BL

Matrix: (soil/water) Solid

Date Extracted: 8/21/2025 11:00:00

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB169364BS	PB169364BS
PB169364BSD	PB169364BSD
TG-S01	Q2832-01
TG-S02	Q2832-03
TG-S03	Q2832-05
TG-S04	Q2832-07
TG-S05	Q2832-09
BACK-1-FLOOR-CENTER-MIDDLE	Q2892-05MS
BACK-1-FLOOR-CENTER-MIDDLE	Q2892-05MSD

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S01	SDG No.:	Q2832
Lab Sample ID:	Q2832-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/21/25 11:00	08/25/25 9:53	PB169364

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.34	J	1	0.15	1.07	mg/kg	FE055474.D
Aliphatic C12-C16	Aliphatic C12-C16	1.44		1	0.12	0.71	mg/kg	FE055474.D
Aliphatic C16-C21	Aliphatic C16-C21	0.97	J	1	0.14	1.07	mg/kg	FE055474.D
Aliphatic C21-C28	Aliphatic C21-C28	2.00		1	0.57	1.43	mg/kg	FE055474.D
Aliphatic C28-C40	Aliphatic C28-C40	39.0		1	1.26	2.14	mg/kg	FE055474.D
Aromatic C10-C12	Aromatic C10-C12	0.49	J	1	0.13	0.71	mg/kg	FD049649.D
Aromatic C12-C16	Aromatic C12-C16	0.71	J	1	0.25	1.07	mg/kg	FD049649.D
Aromatic C16-C21	Aromatic C16-C21	8.74		1	0.43	1.78	mg/kg	FD049649.D
Aromatic C21-C36	Aromatic C21-C36	15.6		1	1.27	2.85	mg/kg	FD049649.D
Total AliphaticEPH	Total AliphaticEPH	43.8			2.23	6.42	mg/kg	
Total AromaticEPH	Total AromaticEPH	25.5			2.07	6.41	mg/kg	
Total EPH	Total EPH	69.3			4.31	12.8	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S01	SDG No.:	Q2832
Lab Sample ID:	Q2832-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049649.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.49	J	0.13	0.71	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.71	J	0.25	1.07	mg/kg
Aromatic C16-C21	Aromatic C16-C21	8.74		0.43	1.78	mg/kg
Aromatic C21-C36	Aromatic C21-C36	15.6		1.27	2.85	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	62.3		40 - 140	125%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	45.8		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	63.1		40 - 140	126%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2832-01	Acq On:	22 Aug 2025 17:58
Client Sample ID:	TG-S01	Operator:	YP/AJ
Data file:	FD049649.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	4.407	6.150	743950	6.892	200	ug/ml
Aromatic C12-C16	6.151	8.778	1235816	10	300	ug/ml
Aromatic C16-C21	8.779	13.069	15520936	122.708	500	ug/ml
Aromatic C21-C36	13.070	18.489	24710528	219.418	800	ug/ml
Aromatic EPH	4.407	18.489	42211230	359.019		ug/ml
2-Bromonaphthalene (SURR)	7.716	7.716	6384780	62.3		ug/ml
2-Fluorobiphenyl (SURR)	8.580	8.580	3346911	45.82		ug/ml
ortho-Terphenyl (SURR)	11.629	11.629	8185651	63.07		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049649.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 17:58
 Operator : YP/AJ
 Sample : Q2832-01
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 TG-S01

Integration File: sample.E
 Quant Time: Aug 25 01:48:48 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.716	6384780	62.299 ug/ml
Spiked Amount 50.000		Recovery =	124.60%
6) S 2-Fluorobiphenyl (SURR)	8.580	3346911	45.819 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	91.64%
11) S ortho-Terphenyl (SURR)	11.629	8185651	63.066 ug/ml
Spiked Amount 50.000		Recovery =	126.13%

Target Compounds

(f)=RT Delta > 1/2 Window

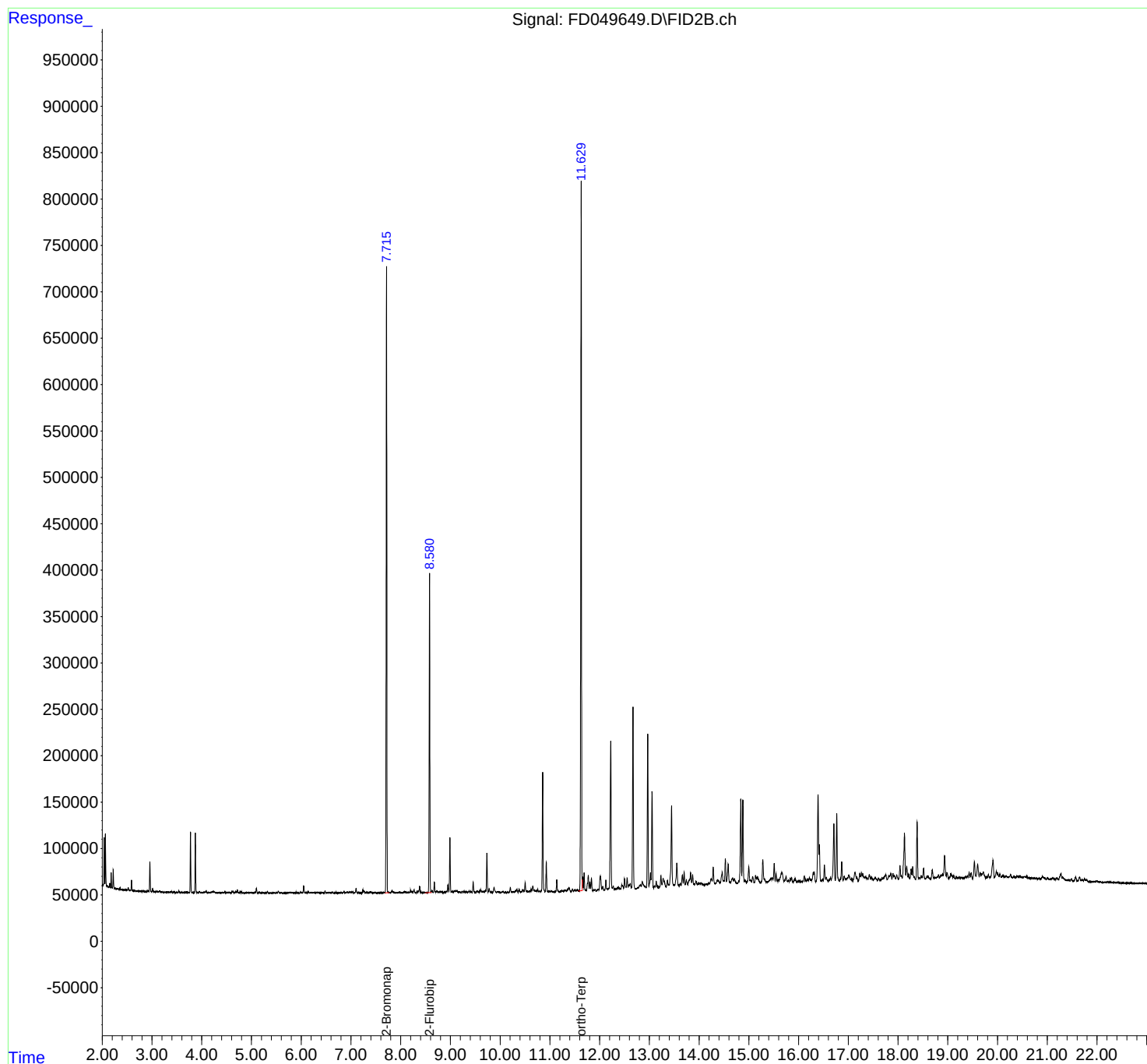
(m)=manual int.

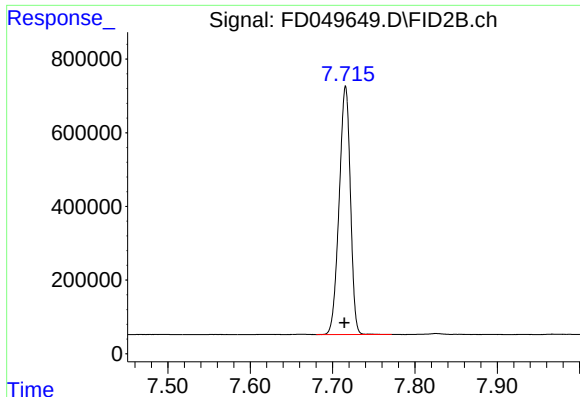
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049649.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 17:58
Operator : YP/AJ
Sample : Q2832-01
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
TG-S01

Integration File: sample.E
Quant Time: Aug 25 01:48:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

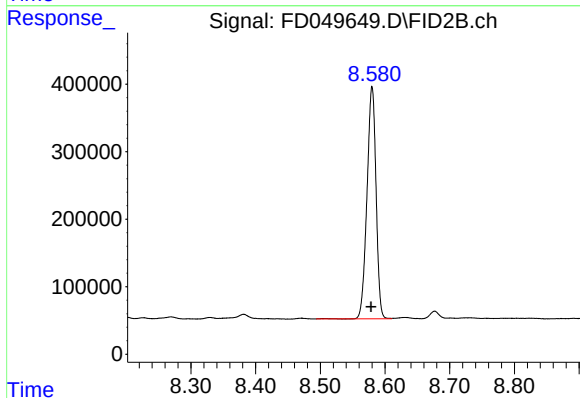




#4 2-Bromonaphthalene (SURR)

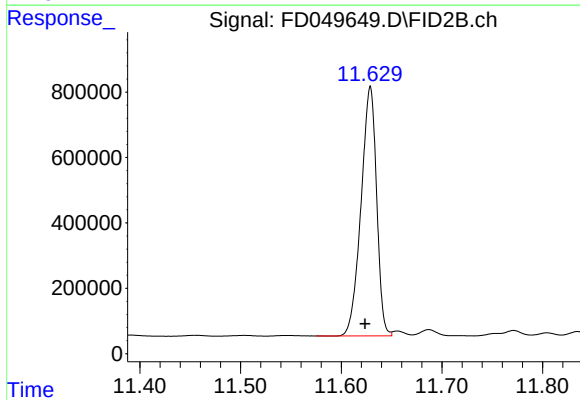
R.T.: 7.716 min
Delta R.T.: 0.001 min
Response: 6384780
Conc: 62.30 ug/ml

Instrument :
FID_D
ClientSampleId :
TG-S01



#6 2-Fluorobiphenyl (SURR)

R.T.: 8.580 min
Delta R.T.: 0.002 min
Response: 3346911
Conc: 45.82 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.629 min
Delta R.T.: 0.005 min
Response: 8185651
Conc: 63.07 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049649.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 17:58
 Sample : Q2832-01
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.324	4.376	PV	835	10270	0.13%	0.017%
2	4.389	4.376	4.403	PV	390	4137	0.05%	0.007%
3	4.421	4.403	4.434	VV	719	7743	0.09%	0.013%
4	4.464	4.434	4.490	VV	2094	25483	0.31%	0.042%
5	4.507	4.490	4.527	VV	756	10863	0.13%	0.018%
6	4.538	4.527	4.548	VV	538	5459	0.07%	0.009%
7	4.557	4.548	4.563	VV	533	4442	0.05%	0.007%
8	4.578	4.563	4.593	VV	811	10382	0.13%	0.017%
9	4.607	4.593	4.620	VV	2367	24049	0.29%	0.040%
10	4.631	4.620	4.652	VV	2114	22978	0.28%	0.038%
11	4.657	4.652	4.662	VV	348	1347	0.02%	0.002%
12	4.686	4.662	4.701	VV	2210	28910	0.35%	0.048%
13	4.717	4.701	4.755	VV	3424	36477	0.44%	0.061%
14	4.771	4.755	4.784	VV	2495	22711	0.28%	0.038%
15	4.797	4.784	4.827	VV	2002	21900	0.27%	0.036%
16	4.838	4.827	4.865	VV	487	7685	0.09%	0.013%
17	4.872	4.865	4.877	VV	305	1792	0.02%	0.003%
18	4.910	4.877	4.925	VV	850	13839	0.17%	0.023%
19	4.930	4.925	4.942	VV	559	4716	0.06%	0.008%
20	4.943	4.942	4.957	VV	547	3651	0.04%	0.006%
21	4.962	4.957	4.985	VV	405	6029	0.07%	0.010%
22	4.989	4.985	4.994	VV	367	1603	0.02%	0.003%
23	5.021	4.994	5.057	VV	662	15389	0.19%	0.026%
24	5.072	5.057	5.081	VV	1274	10805	0.13%	0.018%
25	5.098	5.081	5.129	VV	5430	61103	0.74%	0.101%
26	5.157	5.129	5.180	VV	1247	17877	0.22%	0.030%
27	5.183	5.180	5.192	VV	399	2200	0.03%	0.004%
28	5.207	5.192	5.225	VV	618	8101	0.10%	0.013%
29	5.237	5.225	5.248	VV	600	4912	0.06%	0.008%
30	5.251	5.248	5.260	VV	334	1328	0.02%	0.002%
31	5.289	5.260	5.297	VV	445	7823	0.10%	0.013%
32	5.300	5.297	5.305	VV	376	1353	0.02%	0.002%
33	5.320	5.305	5.352	VV	2305	24689	0.30%	0.041%
34	5.381	5.352	5.407	PV	488	7377	0.09%	0.012%
35	5.446	5.407	5.450	VV	492	7252	0.09%	0.012%
36	5.455	5.450	5.485	VV	495	5780	0.07%	0.010%

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37	5.501	5.485	5.516	VV	1095	11803	0.14%	0.020%
38	5.541	5.516	5.582	VV	2334	36326	0.44%	0.060%
39	5.590	5.582	5.622	VV	668	9370	0.11%	0.016%
40	5.624	5.622	5.633	VV	322	1351	0.02%	0.002%
41	5.638	5.633	5.650	VV	301	2010	0.02%	0.003%
42	5.658	5.650	5.672	VV	453	3855	0.05%	0.006%
43	5.692	5.672	5.710	VV	414	6779	0.08%	0.011%
44	5.733	5.710	5.758	VV	626	13819	0.17%	0.023%
45	5.794	5.758	5.828	VV	1011	25402	0.31%	0.042%
46	5.833	5.828	5.848	VV	587	4658	0.06%	0.008%
47	5.866	5.848	5.884	VV	570	8955	0.11%	0.015%
48	5.891	5.884	5.917	VV	578	8957	0.11%	0.015%
49	5.928	5.917	5.948	VV	640	8992	0.11%	0.015%
50	5.952	5.948	5.972	VV	489	4777	0.06%	0.008%
51	5.987	5.972	6.002	VV	1149	14808	0.18%	0.025%
52	6.006	6.002	6.023	VV	926	9708	0.12%	0.016%
53	6.050	6.023	6.083	VV	8005	89096	1.08%	0.148%
54	6.098	6.083	6.113	VV	1248	15186	0.18%	0.025%
55	6.115	6.113	6.122	VV	638	2526	0.03%	0.004%
56	6.139	6.122	6.178	VV	1622	27524	0.34%	0.046%
57	6.208	6.178	6.233	VV	909	19738	0.24%	0.033%
58	6.239	6.233	6.247	VV	514	3597	0.04%	0.006%
59	6.254	6.247	6.264	VV	660	5836	0.07%	0.010%
60	6.277	6.264	6.312	VV	695	14607	0.18%	0.024%
61	6.330	6.312	6.378	VV	987	21996	0.27%	0.037%
62	6.382	6.378	6.396	VV	448	3847	0.05%	0.006%
63	6.406	6.396	6.412	VV	444	3653	0.04%	0.006%
64	6.415	6.412	6.426	VV	428	3086	0.04%	0.005%
65	6.433	6.426	6.449	VV	589	6567	0.08%	0.011%
66	6.455	6.449	6.459	VV	281	1670	0.02%	0.003%
67	6.479	6.459	6.505	VV	2432	29923	0.36%	0.050%
68	6.519	6.505	6.532	VV	583	7442	0.09%	0.012%
69	6.557	6.532	6.582	VV	1022	19007	0.23%	0.032%
70	6.599	6.582	6.612	VV	873	10263	0.12%	0.017%
71	6.628	6.612	6.650	VV	1738	18776	0.23%	0.031%
72	6.662	6.650	6.686	VV	459	5509	0.07%	0.009%
73	6.700	6.686	6.722	VV	985	10628	0.13%	0.018%
74	6.738	6.733	6.747	VV	305	1427	0.02%	0.002%
75	6.772	6.747	6.781	VV	448	5860	0.07%	0.010%
76	6.802	6.781	6.830	VV	1005	16000	0.19%	0.027%
77	6.859	6.830	6.892	VV	2167	32270	0.39%	0.054%
78	6.919	6.892	6.929	VV	1211	17443	0.21%	0.029%
79	6.936	6.929	6.948	VV	1055	10654	0.13%	0.018%
80	6.954	6.948	6.962	VV	1051	8189	0.10%	0.014%
81	6.975	6.962	6.990	VV	1451	19388	0.24%	0.032%
82	7.003	6.990	7.016	VV	1086	15539	0.19%	0.026%
83	7.023	7.016	7.071	VV	1198	25614	0.31%	0.043%
84	7.103	7.071	7.141	VV	5184	67998	0.83%	0.113%
85	7.151	7.141	7.173	VV	557	7266	0.09%	0.012%
86	7.188	7.173	7.199	VV	418	4779	0.06%	0.008%
87	7.239	7.199	7.252	VV	3961	40640	0.49%	0.068%
88	7.262	7.252	7.295	VV	2832	32801	0.40%	0.054%
89	7.316	7.295	7.339	VV	998	14880	0.18%	0.025%

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90	7.345	7.339	7.356	VV	486	3400	0.04%	0.006%
91	7.372	7.356	7.380	VV	527	5015	0.06%	0.008%
92	7.399	7.380	7.422	VV	1845	21597	0.26%	0.036%
93	7.437	7.431	7.450	VV	248	1555	0.02%	0.003%
94	7.466	7.450	7.473	VV	454	4303	0.05%	0.007%
95	7.492	7.473	7.511	VV	644	8451	0.10%	0.014%
96	7.563	7.540	7.583	VV	463	7641	0.09%	0.013%
97	7.588	7.583	7.595	VV	240	1172	0.01%	0.002%
98	7.625	7.595	7.645	VV	488	10466	0.13%	0.017%
99	7.661	7.645	7.680	VV	1003	12263	0.15%	0.020%
100	7.716	7.680	7.788	VV	674267	6406646	78.00%	10.642%
101	7.826	7.788	7.844	VV	2986	44535	0.54%	0.074%
102	7.854	7.844	7.879	VV	843	11350	0.14%	0.019%
103	7.884	7.879	7.886	VV	375	1418	0.02%	0.002%
104	7.897	7.886	7.913	VV	423	5080	0.06%	0.008%
105	7.934	7.913	7.951	VV	416	6261	0.08%	0.010%
106	7.967	7.951	8.012	VV	1163	22557	0.27%	0.037%
107	8.023	8.012	8.042	VV	522	5925	0.07%	0.010%
108	8.055	8.042	8.067	VV	734	8903	0.11%	0.015%
109	8.080	8.067	8.086	VV	1436	13456	0.16%	0.022%
110	8.097	8.086	8.121	VV	1754	21088	0.26%	0.035%
111	8.129	8.121	8.138	VV	479	3271	0.04%	0.005%
112	8.149	8.138	8.157	VV	711	5504	0.07%	0.009%
113	8.167	8.157	8.177	VV	824	8650	0.11%	0.014%
114	8.199	8.177	8.213	VV	3276	38011	0.46%	0.063%
115	8.227	8.213	8.242	VV	2011	21761	0.26%	0.036%
116	8.269	8.242	8.289	VV	3275	46993	0.57%	0.078%
117	8.296	8.289	8.309	VV	439	3591	0.04%	0.006%
118	8.329	8.309	8.343	VV	2411	25432	0.31%	0.042%
119	8.382	8.343	8.413	VV	7056	106831	1.30%	0.177%
120	8.418	8.413	8.430	VV	662	4677	0.06%	0.008%
121	8.434	8.430	8.453	VV	510	2834	0.03%	0.005%
122	8.471	8.453	8.488	PV	1253	13289	0.16%	0.022%
123	8.509	8.488	8.535	VV	710	11903	0.14%	0.020%
124	8.580	8.535	8.610	VV	344739	3356107	40.86%	5.575%
125	8.630	8.610	8.656	VV	2292	39594	0.48%	0.066%
126	8.677	8.656	8.696	VV	11627	119603	1.46%	0.199%
127	8.701	8.696	8.711	VV	1610	12352	0.15%	0.021%
128	8.727	8.711	8.750	VV	1838	34270	0.42%	0.057%
129	8.756	8.750	8.775	VV	1080	13921	0.17%	0.023%
130	8.785	8.775	8.790	VV	1135	9392	0.11%	0.016%
131	8.793	8.790	8.816	VV	1133	16332	0.20%	0.027%
132	8.823	8.816	8.852	VV	1181	17329	0.21%	0.029%
133	8.872	8.852	8.883	VV	753	9776	0.12%	0.016%
134	8.892	8.883	8.900	VV	1034	8456	0.10%	0.014%
135	8.917	8.900	8.930	VV	1760	22155	0.27%	0.037%
136	8.948	8.930	8.967	VV	8751	95902	1.17%	0.159%
137	8.990	8.967	9.014	VV	59674	593073	7.22%	0.985%
138	9.027	9.014	9.056	VV	1327	27854	0.34%	0.046%
139	9.085	9.056	9.098	VV	2296	38629	0.47%	0.064%
140	9.108	9.098	9.116	VV	2136	20318	0.25%	0.034%
141	9.124	9.116	9.135	VV	2266	22099	0.27%	0.037%

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142	9.142	9.135	9.164	VV	1581	17865	0.22%	0.030%
143	9.183	9.164	9.202	VV	917	12387	0.15%	0.021%
144	9.209	9.202	9.213	VV	250	1233	0.02%	0.002%
145	9.239	9.213	9.258	VV	1777	25815	0.31%	0.043%
146	9.272	9.258	9.295	VV	2149	25769	0.31%	0.043%
147	9.322	9.295	9.338	VV	1479	22069	0.27%	0.037%
148	9.375	9.338	9.399	VV	2092	33391	0.41%	0.055%
149	9.416	9.399	9.435	VV	1398	20076	0.24%	0.033%
150	9.458	9.435	9.500	VV	11515	135909	1.65%	0.226%
151	9.506	9.500	9.518	VV	433	3981	0.05%	0.007%
152	9.538	9.518	9.567	VV	2283	39409	0.48%	0.065%
153	9.582	9.567	9.590	VV	1454	15236	0.19%	0.025%
154	9.608	9.590	9.627	VV	3043	44326	0.54%	0.074%
155	9.640	9.627	9.653	VV	1193	16475	0.20%	0.027%
156	9.669	9.653	9.683	VV	2028	26387	0.32%	0.044%
157	9.706	9.683	9.713	VV	2290	27864	0.34%	0.046%
158	9.734	9.713	9.758	VV	42948	433782	5.28%	0.721%
159	9.779	9.758	9.822	VV	4443	67272	0.82%	0.112%
160	9.831	9.822	9.841	VV	611	5401	0.07%	0.009%
161	9.877	9.841	9.922	VV	5754	101832	1.24%	0.169%
162	9.940	9.922	9.958	PV	1401	16968	0.21%	0.028%
163	9.975	9.958	9.990	VV	723	10589	0.13%	0.018%
164	9.994	9.990	10.005	VV	348	2140	0.03%	0.004%
165	10.015	10.005	10.022	VV	306	2628	0.03%	0.004%
166	10.059	10.022	10.078	VV	1217	23553	0.29%	0.039%
167	10.082	10.078	10.098	VV	401	2912	0.04%	0.005%
168	10.104	10.098	10.127	VV	322	2613	0.03%	0.004%
169	10.144	10.134	10.163	VV	477	5045	0.06%	0.008%
170	10.205	10.163	10.242	VV	5499	77413	0.94%	0.129%
171	10.257	10.242	10.271	VV	1044	12862	0.16%	0.021%
172	10.307	10.271	10.320	VV	2082	37885	0.46%	0.063%
173	10.336	10.320	10.360	VV	3517	48419	0.59%	0.080%
174	10.382	10.360	10.413	VV	2712	47051	0.57%	0.078%
175	10.429	10.413	10.434	VV	938	9164	0.11%	0.015%
176	10.452	10.434	10.482	VV	3357	56991	0.69%	0.095%
177	10.503	10.482	10.542	VV	10609	135908	1.65%	0.226%
178	10.551	10.542	10.567	VV	1019	12161	0.15%	0.020%
179	10.591	10.567	10.600	VV	1405	21308	0.26%	0.035%
180	10.623	10.600	10.637	VV	3671	47458	0.58%	0.079%
181	10.657	10.637	10.678	VV	6777	101837	1.24%	0.169%
182	10.688	10.678	10.713	VV	2167	35351	0.43%	0.059%
183	10.727	10.713	10.742	VV	1698	25268	0.31%	0.042%
184	10.755	10.742	10.771	VV	2668	31329	0.38%	0.052%
185	10.788	10.771	10.808	VV	1372	21379	0.26%	0.036%
186	10.823	10.808	10.831	VV	2258	20740	0.25%	0.034%
187	10.855	10.831	10.901	VV	129449	1360920	16.57%	2.261%
188	10.928	10.901	10.970	VV	32229	346046	4.21%	0.575%
189	10.981	10.970	11.001	VV	834	12120	0.15%	0.020%
190	11.030	11.001	11.048	VV	944	21099	0.26%	0.035%
191	11.058	11.048	11.085	VV	698	9126	0.11%	0.015%
192	11.101	11.085	11.106	VV	320	2810	0.03%	0.005%
193	11.113	11.106	11.116	VV	438	2127	0.03%	0.004%
194	11.139	11.116	11.186	VV	13340	154640	1.88%	0.257%

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195	11.245	11.186	11.277	PV	1597	48783	0.59%	0.081%
196	11.282	11.277	11.285	VV	867	4373	0.05%	0.007%
197	11.305	11.285	11.329	VV	1665	33153	0.40%	0.055%
198	11.391	11.329	11.429	VV	3620	115050	1.40%	0.191%
199	11.456	11.429	11.478	VV	2909	37206	0.45%	0.062%
200	11.504	11.478	11.526	VV	2522	34677	0.42%	0.058%
201	11.546	11.526	11.572	VV	2256	37593	0.46%	0.062%
202	11.577	11.572	11.590	VV	858	7644	0.09%	0.013%
203	11.629	11.590	11.650	VV	763013	8213622	100.00%	13.643%
204	11.656	11.650	11.671	VV	15748	135103	1.64%	0.224%
205	11.687	11.671	11.710	VV	20169	228990	2.79%	0.380%
206	11.718	11.710	11.731	VV	1315	13721	0.17%	0.023%
207	11.771	11.731	11.789	VV	17221	271148	3.30%	0.450%
208	11.805	11.789	11.819	VV	9946	114204	1.39%	0.190%
209	11.835	11.819	11.860	VV	13813	162274	1.98%	0.270%
210	11.876	11.860	11.888	VV	1277	13370	0.16%	0.022%
211	11.909	11.888	11.930	VV	1913	27150	0.33%	0.045%
212	11.974	11.930	11.985	PV	1956	35865	0.44%	0.060%
213	12.009	11.985	12.045	VV	15641	306841	3.74%	0.510%
214	12.062	12.045	12.101	VV	4876	81046	0.99%	0.135%
215	12.125	12.101	12.146	VV	11554	135832	1.65%	0.226%
216	12.158	12.146	12.170	VV	1730	22959	0.28%	0.038%
217	12.223	12.170	12.256	VV	161162	2070527	25.21%	3.439%
218	12.273	12.256	12.295	VV	4684	70702	0.86%	0.117%
219	12.303	12.295	12.317	VV	1475	16673	0.20%	0.028%
220	12.331	12.317	12.342	VV	1583	20404	0.25%	0.034%
221	12.375	12.342	12.390	VV	3296	66790	0.81%	0.111%
222	12.396	12.390	12.412	VV	2530	26963	0.33%	0.045%
223	12.416	12.412	12.425	VV	1456	9454	0.12%	0.016%
224	12.444	12.425	12.454	VV	5412	64840	0.79%	0.108%
225	12.459	12.454	12.482	VV	4570	62513	0.76%	0.104%
226	12.500	12.482	12.531	VV	12268	174660	2.13%	0.290%
227	12.552	12.531	12.573	VV	13004	177437	2.16%	0.295%
228	12.589	12.573	12.600	VV	5633	74425	0.91%	0.124%
229	12.615	12.600	12.635	VV	6976	104785	1.28%	0.174%
230	12.671	12.635	12.724	VV	197282	2273517	27.68%	3.776%
231	12.765	12.724	12.773	VV	2047	35796	0.44%	0.059%
232	12.805	12.773	12.816	VV	4629	81145	0.99%	0.135%
233	12.826	12.816	12.839	VV	4510	54385	0.66%	0.090%
234	12.858	12.839	12.898	VV	8540	194780	2.37%	0.324%
235	12.908	12.898	12.938	VV	3646	64642	0.79%	0.107%
236	12.967	12.938	12.991	VV	167095	1849708	22.52%	3.073%
237	13.023	12.991	13.034	VV	17812	250761	3.05%	0.417%
238	13.054	13.034	13.085	VV	105011	1233393	15.02%	2.049%
239	13.106	13.085	13.117	VV	2872	45146	0.55%	0.075%
240	13.139	13.117	13.161	VV	8113	118452	1.44%	0.197%
241	13.172	13.161	13.191	VV	2297	33704	0.41%	0.056%
242	13.232	13.191	13.253	VV	14265	215552	2.62%	0.358%
243	13.278	13.253	13.295	VV	11064	200548	2.44%	0.333%
244	13.302	13.295	13.339	VV	7866	118753	1.45%	0.197%
245	13.363	13.339	13.381	VV	8746	129221	1.57%	0.215%
246	13.391	13.381	13.401	VV	3903	42542	0.52%	0.071%

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247	13.447	13.401	13.493	VV	88979	1309417	15.94%	2.175%
248	13.499	13.493	13.503	VV	3489	19925	0.24%	0.033%
249	13.552	13.503	13.591	VV	27093	524383	6.38%	0.871%
250	13.622	13.591	13.638	VV	5377	102341	1.25%	0.170%
251	13.663	13.638	13.682	VV	13759	218175	2.66%	0.362%
252	13.700	13.682	13.720	VV	16895	223765	2.72%	0.372%
253	13.744	13.720	13.769	VV	8332	167912	2.04%	0.279%
254	13.829	13.769	13.850	VV	16014	412504	5.02%	0.685%
255	13.870	13.850	13.907	VV	13686	237278	2.89%	0.394%
256	13.939	13.907	13.962	VV	6630	152921	1.86%	0.254%
257	14.009	13.962	14.023	VV	4272	141925	1.73%	0.236%
258	14.039	14.023	14.099	VV	4144	153619	1.87%	0.255%
259	14.137	14.099	14.157	VV	3487	91046	1.11%	0.151%
260	14.194	14.157	14.207	VV	4330	99010	1.21%	0.164%
261	14.243	14.207	14.262	VV	8908	207618	2.53%	0.345%
262	14.284	14.262	14.323	VV	21389	353336	4.30%	0.587%
263	14.336	14.323	14.340	VV	3959	36402	0.44%	0.060%
264	14.363	14.340	14.375	VV	6603	114373	1.39%	0.190%
265	14.385	14.375	14.415	VV	6483	129669	1.58%	0.215%
266	14.464	14.415	14.486	VV	15516	373160	4.54%	0.620%
267	14.494	14.486	14.504	VV	6440	65356	0.80%	0.109%
268	14.528	14.504	14.550	VV	29806	414840	5.05%	0.689%
269	14.585	14.550	14.615	VV	23969	458531	5.58%	0.762%
270	14.673	14.615	14.697	VV	8959	293695	3.58%	0.488%
271	14.710	14.697	14.768	VV	7535	200956	2.45%	0.334%
272	14.795	14.768	14.800	VV	5183	71928	0.88%	0.119%
273	14.838	14.800	14.858	VV	93397	1262185	15.37%	2.097%
274	14.879	14.858	14.911	VV	92167	1179131	14.36%	1.959%
275	14.927	14.911	14.953	VV	6000	114568	1.39%	0.190%
276	14.998	14.953	15.025	VV	20179	391874	4.77%	0.651%
277	15.035	15.025	15.054	VV	5817	91282	1.11%	0.152%
278	15.076	15.054	15.109	VV	9267	196509	2.39%	0.326%
279	15.135	15.109	15.162	VV	10592	217493	2.65%	0.361%
280	15.175	15.162	15.234	VV	9182	237526	2.89%	0.395%
281	15.280	15.234	15.310	VV	27173	474519	5.78%	0.788%
282	15.315	15.310	15.338	VV	6370	90806	1.11%	0.151%
283	15.354	15.338	15.367	VV	3570	55861	0.68%	0.093%
284	15.369	15.367	15.380	VV	3245	24535	0.30%	0.041%
285	15.442	15.380	15.455	VV	7091	217672	2.65%	0.362%
286	15.466	15.455	15.486	VV	7521	124819	1.52%	0.207%
287	15.509	15.486	15.529	VV	22971	321332	3.91%	0.534%
288	15.547	15.529	15.568	VV	11699	174528	2.12%	0.290%
289	15.588	15.568	15.602	VV	5303	92729	1.13%	0.154%
290	15.650	15.602	15.659	VV	12108	260746	3.17%	0.433%
291	15.670	15.659	15.715	VV	12558	254348	3.10%	0.422%
292	15.747	15.715	15.774	VV	8424	183594	2.24%	0.305%
293	15.793	15.774	15.810	VV	3719	70717	0.86%	0.117%
294	15.831	15.810	15.844	VV	6304	91043	1.11%	0.151%
295	15.859	15.844	15.888	VV	6954	117000	1.42%	0.194%
296	15.927	15.888	15.963	VV	5886	164561	2.00%	0.273%
297	15.986	15.963	16.000	VV	2565	50187	0.61%	0.083%
298	16.010	16.000	16.025	VV	2515	34074	0.41%	0.057%
299	16.036	16.025	16.053	VV	2746	39372	0.48%	0.065%

					rteres			
300	16.065	16.053	16.079	VV	2117	29846	0.36%	0.050%
301	16.115	16.079	16.132	VV	8050	148016	1.80%	0.246%
302	16.143	16.132	16.158	VV	3842	49623	0.60%	0.082%
303	16.175	16.158	16.190	VV	4628	67099	0.82%	0.111%
304	16.221	16.190	16.240	VV	5707	125213	1.52%	0.208%
305	16.252	16.240	16.262	VV	3869	46723	0.57%	0.078%
306	16.293	16.262	16.303	VV	11285	179018	2.18%	0.297%
307	16.315	16.303	16.342	VV	11936	164801	2.01%	0.274%
308	16.391	16.342	16.409	VV	95249	1354907	16.50%	2.251%
309	16.418	16.409	16.447	VV	41695	464138	5.65%	0.771%
310	16.484	16.447	16.498	VV	3534	83747	1.02%	0.139%
311	16.519	16.498	16.543	VV	19146	267180	3.25%	0.444%
312	16.557	16.543	16.597	VV	6018	117062	1.43%	0.194%
313	16.640	16.597	16.656	VV	4874	118100	1.44%	0.196%
314	16.710	16.656	16.738	VV	63051	1017402	12.39%	1.690%
315	16.768	16.738	16.812	VV	73895	946734	11.53%	1.573%
316	16.838	16.812	16.844	VV	3170	43676	0.53%	0.073%
317	16.868	16.844	16.895	VV	22118	298478	3.63%	0.496%
318	16.919	16.895	16.960	VV	6372	154591	1.88%	0.257%
319	16.981	16.960	16.985	VV	4321	54777	0.67%	0.091%
320	17.009	16.985	17.057	VV	7558	205507	2.50%	0.341%
321	17.072	17.057	17.093	VV	3474	52348	0.64%	0.087%
322	17.133	17.093	17.166	VV	10221	255763	3.11%	0.425%
323	17.172	17.166	17.201	VV	4579	57338	0.70%	0.095%
324	17.230	17.201	17.247	VV	8599	130386	1.59%	0.217%
325	17.266	17.247	17.278	VV	9173	136724	1.66%	0.227%
326	17.291	17.278	17.309	VV	8718	123466	1.50%	0.205%
327	17.319	17.309	17.334	VV	5329	65630	0.80%	0.109%
328	17.350	17.334	17.366	VV	5592	82185	1.00%	0.137%
329	17.377	17.366	17.393	VV	3771	49676	0.60%	0.083%
330	17.422	17.393	17.448	VV	7132	142538	1.74%	0.237%
331	17.464	17.448	17.483	VV	4155	66038	0.80%	0.110%
332	17.490	17.483	17.504	VV	2103	22810	0.28%	0.038%
333	17.543	17.504	17.589	VV	3514	99739	1.21%	0.166%
334	17.609	17.589	17.628	VV	2904	42550	0.52%	0.071%
335	17.642	17.628	17.655	VV	1187	14039	0.17%	0.023%
336	17.682	17.655	17.698	VV	2938	53251	0.65%	0.088%
337	17.756	17.698	17.780	VV	6309	187397	2.28%	0.311%
338	17.814	17.780	17.827	VV	4786	83773	1.02%	0.139%
339	17.856	17.827	17.878	VV	7039	152223	1.85%	0.253%
340	17.895	17.878	17.911	VV	7126	99155	1.21%	0.165%
341	17.917	17.911	17.952	VV	4765	88094	1.07%	0.146%
342	17.975	17.952	18.006	VV	5459	98926	1.20%	0.164%
343	18.040	18.006	18.060	VV	15286	231517	2.82%	0.385%
344	18.066	18.060	18.084	VV	4476	52361	0.64%	0.087%
345	18.129	18.084	18.154	VV	50177	892749	10.87%	1.483%
346	18.174	18.154	18.200	VV	14350	248484	3.03%	0.413%
347	18.215	18.200	18.238	VV	5020	73638	0.90%	0.122%
348	18.263	18.238	18.278	VV	11187	156009	1.90%	0.259%
349	18.294	18.278	18.352	VV	14194	231300	2.82%	0.384%
350	18.383	18.352	18.410	PV	61552	734132	8.94%	1.219%
351	18.423	18.410	18.443	VV	935	9244	0.11%	0.015%

					rteres		
352	18.466	18.443	18.484	PV	2663	29393	0.36% 0.049%
				Sum of corrected areas:		60202018	

Aromatic EPH 081125.M Mon Aug 25 02:50:34 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S01	SDG No.:	Q2832
Lab Sample ID:	Q2832-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055474.D	1	08/21/25	08/25/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.34	J	0.15	1.07	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	1.44		0.12	0.71	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.97	J	0.14	1.07	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	2.00		0.57	1.43	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	39.0		1.26	2.14	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	60.5		40 - 140	121%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2832-01	Acq On:	25 Aug 2025 09:53
Client Sample ID:	TG-S01	Operator:	YP\AJ
Data file:	FE055474.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.318	6.954	562234	4.814	300	ug/ml
Aliphatic C12-C16	6.955	10.408	2524196	20.157	200	ug/ml
Aliphatic C16-C21	10.409	13.788	1725157	13.648	300	ug/ml
Aliphatic C21-C28	13.789	17.461	3382679	28.071	400	ug/ml
Aliphatic C28-C40	17.462	22.488	62395141	547.387	600	ug/ml
Aliphatic EPH	3.318	22.488	70589407	614.077		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.525	13.525	6506417	60.51		ug/ml
Aliphatic C9-C28	3.318	17.461	8194266	66.69	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055474.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 09:53
Operator : YP\AJ
Sample : Q2832-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 11:25:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 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...	13.525	6506417	60.511 ug/mlm
Spiked Amount 50.000		Recovery =	121.02%

Target Compounds

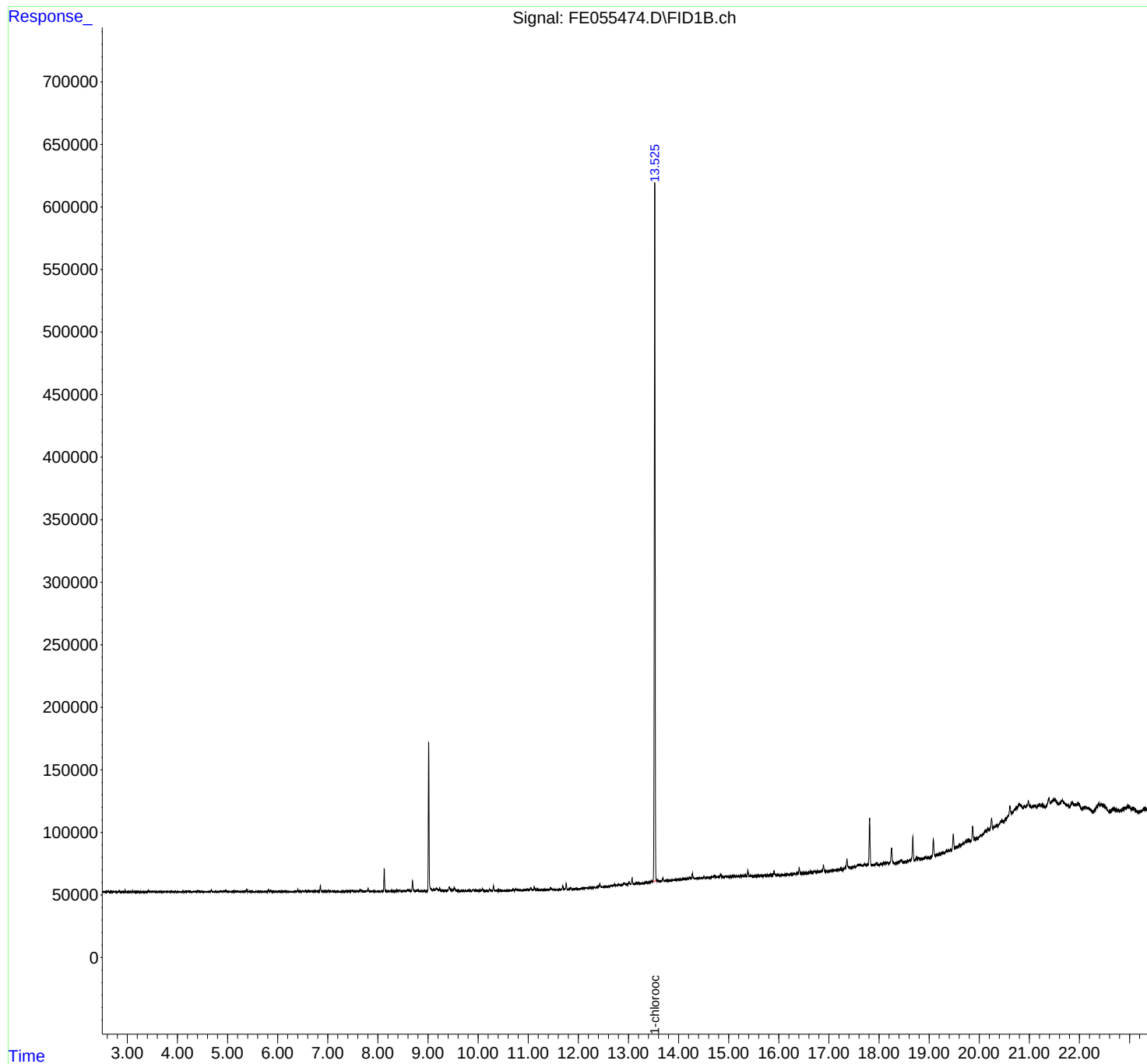
(f)=RT Delta > 1/2 Window

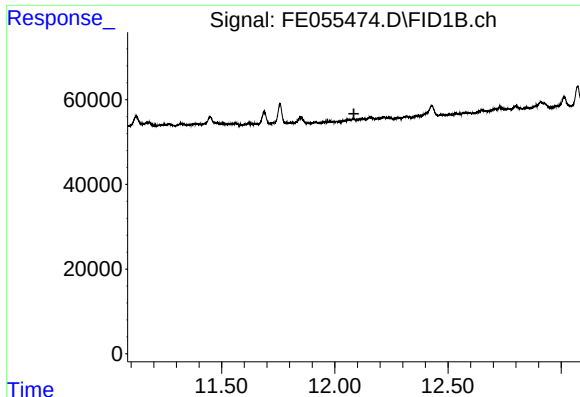
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055474.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 09:53
Operator : YP\AJ
Sample : Q2832-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 11:25:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

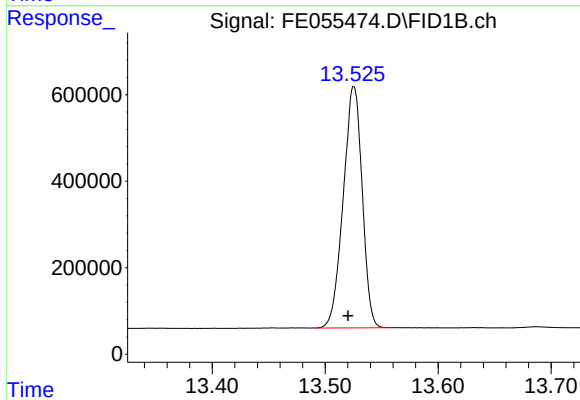
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 12.084 min
Response: 0
Conc: N.D.



#12 1-chlorooctadecane (SURR)

R.T.: 13.525 min
Delta R.T.: 0.004 min
Response: 6506417
Conc: 60.51 ug/ml m

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055474.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 09:53
Sample : Q2832-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.833	2.804	2.874	BV	785	13201	0.20%	0.017%
2	2.889	2.874	2.936	VV	313	4640	0.07%	0.006%
3	2.956	2.936	2.996	VV	1040	12432	0.19%	0.016%
4	3.007	2.996	3.041	VV	97	1122	0.02%	0.001%
5	3.051	3.041	3.088	VV	218	2009	0.03%	0.003%
6	3.113	3.088	3.141	VV	646	7161	0.11%	0.009%
7	3.155	3.141	3.169	PV	133	1332	0.02%	0.002%
8	3.202	3.169	3.224	VV	167	3629	0.05%	0.005%
9	3.231	3.224	3.281	VV	184	2688	0.04%	0.003%
10	3.285	3.281	3.291	VV	111	433	0.01%	0.001%
11	3.302	3.291	3.336	VV	119	2166	0.03%	0.003%
12	3.363	3.336	3.397	VV	163	3670	0.05%	0.005%
13	3.419	3.397	3.456	VV	800	11502	0.17%	0.015%
14	3.471	3.456	3.519	VV	209	5097	0.08%	0.006%
15	3.543	3.519	3.598	VV	261	7180	0.11%	0.009%
16	3.602	3.598	3.618	VV	186	1646	0.02%	0.002%
17	3.670	3.618	3.694	VV	217	7190	0.11%	0.009%
18	3.708	3.694	3.718	VV	155	1869	0.03%	0.002%
19	3.738	3.718	3.767	VV	322	6313	0.09%	0.008%
20	3.812	3.767	3.850	VV	252	9276	0.14%	0.012%
21	3.868	3.850	3.932	VV	385	10315	0.15%	0.013%
22	3.951	3.932	3.991	VV	254	5104	0.08%	0.007%
23	4.009	3.991	4.024	VV	469	4715	0.07%	0.006%
24	4.035	4.024	4.049	VV	245	2249	0.03%	0.003%
25	4.060	4.049	4.084	VV	210	2406	0.04%	0.003%
26	4.111	4.084	4.171	VV	391	9314	0.14%	0.012%
27	4.216	4.171	4.234	VV	631	10690	0.16%	0.014%
28	4.249	4.234	4.308	VV	910	14421	0.22%	0.018%
29	4.325	4.308	4.344	VV	362	4817	0.07%	0.006%
30	4.354	4.344	4.363	VV	171	1427	0.02%	0.002%
31	4.404	4.363	4.467	VV	675	18365	0.27%	0.023%
32	4.479	4.467	4.488	VV	187	1854	0.03%	0.002%
33	4.491	4.488	4.504	VV	174	1329	0.02%	0.002%
34	4.512	4.504	4.548	VV	115	2886	0.04%	0.004%
35	4.578	4.548	4.648	VV	172	8272	0.12%	0.011%
36	4.677	4.648	4.708	VV	1627	19252	0.29%	0.025%

					rteres			
37	4.718	4.708	4.749	VV	299	4533	0.07%	0.006%
38	4.759	4.749	4.778	VV	181	2356	0.04%	0.003%
39	4.796	4.778	4.821	VV	197	4016	0.06%	0.005%
40	4.867	4.821	4.887	VV	751	13014	0.19%	0.017%
41	4.900	4.887	4.911	VV	290	3498	0.05%	0.004%
42	4.929	4.911	4.944	VV	668	7906	0.12%	0.010%
43	4.962	4.944	4.981	VV	1332	14872	0.22%	0.019%
44	4.993	4.981	5.031	VV	345	6518	0.10%	0.008%
45	5.039	5.031	5.050	VV	234	2348	0.04%	0.003%
46	5.060	5.050	5.084	VV	275	4277	0.06%	0.005%
47	5.098	5.084	5.116	VV	435	5396	0.08%	0.007%
48	5.143	5.116	5.164	VV	326	6568	0.10%	0.008%
49	5.198	5.164	5.277	VV	301	11064	0.17%	0.014%
50	5.294	5.277	5.317	VV	210	3640	0.05%	0.005%
51	5.328	5.317	5.338	VV	125	1393	0.02%	0.002%
52	5.354	5.338	5.363	VV	540	5292	0.08%	0.007%
53	5.382	5.363	5.421	VV	2114	27547	0.41%	0.035%
54	5.441	5.421	5.461	VV	536	7545	0.11%	0.010%
55	5.470	5.461	5.482	VV	293	2362	0.04%	0.003%
56	5.501	5.482	5.541	VV	290	4626	0.07%	0.006%
57	5.558	5.541	5.578	PV	171	1265	0.02%	0.002%
58	5.585	5.578	5.594	VV	131	1138	0.02%	0.001%
59	5.625	5.594	5.661	VV	287	6193	0.09%	0.008%
60	5.666	5.661	5.681	VV	169	1659	0.02%	0.002%
61	5.696	5.681	5.728	VV	202	3154	0.05%	0.004%
62	5.734	5.728	5.757	VV	112	1582	0.02%	0.002%
63	5.818	5.757	5.841	VV	1691	21071	0.32%	0.027%
64	5.861	5.841	5.914	VV	810	13532	0.20%	0.017%
65	5.922	5.914	5.938	VV	254	2460	0.04%	0.003%
66	6.013	5.938	6.068	VV	422	12319	0.18%	0.016%
67	6.079	6.068	6.096	VV	163	1554	0.02%	0.002%
68	6.119	6.096	6.158	VV	396	8528	0.13%	0.011%
69	6.176	6.158	6.201	VV	159	2820	0.04%	0.004%
70	6.211	6.201	6.234	VV	203	1828	0.03%	0.002%
71	6.240	6.234	6.281	VV	164	1924	0.03%	0.002%
72	6.309	6.281	6.321	VV	198	2335	0.03%	0.003%
73	6.356	6.321	6.374	VV	296	5434	0.08%	0.007%
74	6.401	6.374	6.428	VV	1485	18812	0.28%	0.024%
75	6.453	6.428	6.474	VV	464	8010	0.12%	0.010%
76	6.498	6.474	6.524	VV	776	11776	0.18%	0.015%
77	6.559	6.524	6.598	VV	527	13513	0.20%	0.017%
78	6.635	6.598	6.678	VV	427	15481	0.23%	0.020%
79	6.682	6.678	6.704	VV	337	4565	0.07%	0.006%
80	6.734	6.704	6.746	VV	346	6973	0.10%	0.009%
81	6.772	6.746	6.820	VV	346	13041	0.20%	0.017%
82	6.853	6.820	6.887	VV	5001	57989	0.87%	0.074%
83	6.912	6.887	6.921	VV	317	5256	0.08%	0.007%
84	6.941	6.921	6.958	VV	545	8092	0.12%	0.010%
85	6.977	6.958	6.991	VV	464	6732	0.10%	0.009%
86	7.008	6.991	7.027	VV	1163	14021	0.21%	0.018%
87	7.046	7.027	7.067	VV	382	7503	0.11%	0.010%
88	7.083	7.067	7.114	VV	464	6744	0.10%	0.009%
89	7.144	7.114	7.164	VV	206	4198	0.06%	0.005%

					rteres			
90	7.193	7.164	7.216	VV	261	4488	0.07%	0.006%
91	7.262	7.216	7.288	VV	223	5867	0.09%	0.007%
92	7.311	7.288	7.344	VV	444	6640	0.10%	0.008%
93	7.366	7.344	7.400	VV	601	12887	0.19%	0.016%
94	7.428	7.400	7.461	VV	607	13949	0.21%	0.018%
95	7.498	7.461	7.521	VV	1153	18874	0.28%	0.024%
96	7.533	7.521	7.555	VV	333	4415	0.07%	0.006%
97	7.577	7.555	7.624	VV	721	13272	0.20%	0.017%
98	7.660	7.624	7.708	VV	1582	28159	0.42%	0.036%
99	7.720	7.708	7.751	VV	395	7541	0.11%	0.010%
100	7.770	7.751	7.781	VV	469	6568	0.10%	0.008%
101	7.804	7.781	7.828	VV	2831	33256	0.50%	0.042%
102	7.842	7.828	7.883	VV	296	7880	0.12%	0.010%
103	7.898	7.883	7.915	VV	463	5606	0.08%	0.007%
104	7.935	7.915	7.970	VV	193	4585	0.07%	0.006%
105	7.981	7.970	8.011	VV	260	4239	0.06%	0.005%
106	8.027	8.011	8.050	VV	171	2636	0.04%	0.003%
107	8.071	8.050	8.095	PV	723	8763	0.13%	0.011%
108	8.127	8.095	8.194	VV	17966	194721	2.91%	0.248%
109	8.240	8.194	8.282	VV	487	17198	0.26%	0.022%
110	8.295	8.282	8.318	VV	371	5922	0.09%	0.008%
111	8.335	8.318	8.354	VV	466	5819	0.09%	0.007%
112	8.382	8.354	8.414	VV	1501	20407	0.31%	0.026%
113	8.439	8.414	8.461	VV	1211	15512	0.23%	0.020%
114	8.478	8.461	8.491	VV	287	4024	0.06%	0.005%
115	8.510	8.491	8.531	VV	689	10523	0.16%	0.013%
116	8.538	8.531	8.558	VV	371	5521	0.08%	0.007%
117	8.597	8.558	8.613	VV	1413	24519	0.37%	0.031%
118	8.623	8.613	8.644	VV	865	10990	0.16%	0.014%
119	8.691	8.644	8.761	VV	8528	118146	1.77%	0.151%
120	8.790	8.761	8.826	VV	646	18051	0.27%	0.023%
121	8.857	8.826	8.878	VV	395	10041	0.15%	0.013%
122	8.887	8.878	8.911	VV	433	4811	0.07%	0.006%
123	8.926	8.911	8.966	VV	378	5188	0.08%	0.007%
124	8.972	8.966	8.978	VV	68	398	0.01%	0.001%
125	9.013	8.978	9.092	VV	118748	1269170	18.99%	1.617%
126	9.111	9.092	9.130	VV	1729	28022	0.42%	0.036%
127	9.164	9.130	9.214	VV	2152	73402	1.10%	0.094%
128	9.234	9.214	9.285	VV	2041	42836	0.64%	0.055%
129	9.303	9.285	9.334	VV	843	11036	0.17%	0.014%
130	9.355	9.334	9.374	VV	688	10634	0.16%	0.014%
131	9.425	9.374	9.447	VV	3636	65629	0.98%	0.084%
132	9.457	9.447	9.493	VV	1298	25204	0.38%	0.032%
133	9.523	9.493	9.571	VV	2400	61583	0.92%	0.078%
134	9.580	9.571	9.595	VV	554	5820	0.09%	0.007%
135	9.611	9.595	9.637	VV	692	8854	0.13%	0.011%
136	9.660	9.637	9.694	VV	388	7844	0.12%	0.010%
137	9.712	9.694	9.731	VV	312	4663	0.07%	0.006%
138	9.737	9.731	9.745	VV	177	1589	0.02%	0.002%
139	9.764	9.745	9.793	VV	283	5880	0.09%	0.007%
140	9.826	9.793	9.868	VV	669	15019	0.22%	0.019%
141	9.896	9.868	9.928	VV	1241	22387	0.34%	0.029%

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142	9.945	9.928	9.964	VV	632	10169	0.15%	0.013%
143	9.988	9.964	10.011	VV	589	10199	0.15%	0.013%
144	10.031	10.011	10.064	VV	994	16670	0.25%	0.021%
145	10.086	10.064	10.164	VV	2165	30154	0.45%	0.038%
146	10.178	10.164	10.201	VV	236	2914	0.04%	0.004%
147	10.227	10.201	10.274	VV	1271	22510	0.34%	0.029%
148	10.307	10.274	10.356	VV	4136	54365	0.81%	0.069%
149	10.391	10.356	10.445	VV	534	17029	0.25%	0.022%
150	10.481	10.445	10.511	VV	343	6457	0.10%	0.008%
151	10.527	10.511	10.548	PV	27	893	0.01%	0.001%
152	10.587	10.548	10.608	PV	239	4659	0.07%	0.006%
153	10.633	10.608	10.644	VV	330	4527	0.07%	0.006%
154	10.659	10.644	10.674	VV	334	4783	0.07%	0.006%
155	10.699	10.674	10.723	VV	1686	25018	0.37%	0.032%
156	10.750	10.723	10.782	VV	1440	31259	0.47%	0.040%
157	10.790	10.782	10.820	VV	876	11986	0.18%	0.015%
158	10.840	10.820	10.881	VV	541	10075	0.15%	0.013%
159	10.914	10.881	10.924	VV	442	7851	0.12%	0.010%
160	10.952	10.924	10.961	VV	645	10621	0.16%	0.014%
161	10.981	10.961	11.018	VV	833	20842	0.31%	0.027%
162	11.050	11.018	11.091	VV	2581	40001	0.60%	0.051%
163	11.123	11.091	11.148	VV	2516	40662	0.61%	0.052%
164	11.178	11.148	11.214	VV	947	20817	0.31%	0.027%
165	11.269	11.214	11.294	VV	487	12418	0.19%	0.016%
166	11.321	11.294	11.356	VV	482	10378	0.16%	0.013%
167	11.381	11.356	11.410	VV	442	10977	0.16%	0.014%
168	11.449	11.410	11.495	VV	2014	42015	0.63%	0.054%
169	11.506	11.495	11.525	VV	454	6092	0.09%	0.008%
170	11.558	11.525	11.592	VV	401	9115	0.14%	0.012%
171	11.618	11.592	11.648	PV	387	6384	0.10%	0.008%
172	11.688	11.648	11.711	VV	3165	41485	0.62%	0.053%
173	11.758	11.711	11.794	VV	4824	66212	0.99%	0.084%
174	11.850	11.794	11.895	VV	1611	30416	0.46%	0.039%
175	11.913	11.895	11.934	PV	244	3163	0.05%	0.004%
176	11.980	11.934	12.018	PV	257	8027	0.12%	0.010%
177	12.083	12.018	12.101	VV	582	16602	0.25%	0.021%
178	12.118	12.101	12.134	VV	534	8735	0.13%	0.011%
179	12.158	12.134	12.178	VV	718	14205	0.21%	0.018%
180	12.188	12.178	12.197	VV	456	4685	0.07%	0.006%
181	12.217	12.197	12.233	VV	650	10748	0.16%	0.014%
182	12.243	12.233	12.258	VV	461	4983	0.07%	0.006%
183	12.279	12.258	12.292	VV	355	4888	0.07%	0.006%
184	12.315	12.292	12.340	VV	553	10764	0.16%	0.014%
185	12.368	12.340	12.381	VV	589	11066	0.17%	0.014%
186	12.428	12.381	12.458	VV	2820	60589	0.91%	0.077%
187	12.480	12.458	12.492	VV	557	9738	0.15%	0.012%
188	12.505	12.492	12.517	VV	580	6772	0.10%	0.009%
189	12.536	12.517	12.552	VV	671	11343	0.17%	0.014%
190	12.584	12.552	12.615	VV	712	22947	0.34%	0.029%
191	12.652	12.615	12.675	VV	1193	30649	0.46%	0.039%
192	12.728	12.675	12.755	VV	1683	55002	0.82%	0.070%
193	12.767	12.755	12.779	VV	1114	15532	0.23%	0.020%
194	12.800	12.779	12.831	VV	1688	39908	0.60%	0.051%

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195	12.845	12.831	12.859	VV	1142	18095	0.27%	0.023%
196	12.910	12.859	12.955	VV	2429	88805	1.33%	0.113%
197	13.014	12.955	13.048	VV	3376	89217	1.34%	0.114%
198	13.072	13.048	13.118	VV	5645	103270	1.55%	0.132%
199	13.166	13.118	13.188	VV	1963	64112	0.96%	0.082%
200	13.201	13.188	13.237	VV	1593	42020	0.63%	0.054%
201	13.250	13.237	13.275	VV	1263	27757	0.42%	0.035%
202	13.293	13.275	13.308	VV	1287	25130	0.38%	0.032%
203	13.345	13.308	13.388	VV	1920	75429	1.13%	0.096%
204	13.401	13.388	13.417	VV	1643	26571	0.40%	0.034%
205	13.454	13.417	13.486	VV	2365	80392	1.20%	0.102%
206	13.525	13.486	13.613	VV	562970	6681977	100.00%	8.515%
207	13.634	13.613	13.662	VV	2461	61304	0.92%	0.078%
208	13.687	13.662	13.727	VV	4286	109008	1.63%	0.139%
209	13.753	13.727	13.795	VV	2296	87758	1.31%	0.112%
210	13.803	13.795	13.815	VV	2039	23852	0.36%	0.030%
211	13.828	13.815	13.848	VV	2053	37710	0.56%	0.048%
212	13.976	13.848	13.998	VV	2486	201613	3.02%	0.257%
213	14.033	13.998	14.045	VV	2376	65248	0.98%	0.083%
214	14.129	14.045	14.148	VV	2778	146850	2.20%	0.187%
215	14.224	14.148	14.250	VV	3572	160591	2.40%	0.205%
216	14.276	14.250	14.321	VV	6460	148369	2.22%	0.189%
217	14.334	14.321	14.390	VV	2589	97333	1.46%	0.124%
218	14.429	14.390	14.448	VV	2362	77746	1.16%	0.099%
219	14.460	14.448	14.474	VV	2321	35066	0.52%	0.045%
220	14.510	14.474	14.544	VV	3012	102645	1.54%	0.131%
221	14.574	14.544	14.598	VV	2371	71185	1.07%	0.091%
222	14.614	14.598	14.631	VV	2537	44045	0.66%	0.056%
223	14.663	14.631	14.673	VV	2392	57063	0.85%	0.073%
224	14.716	14.673	14.734	VV	3848	101716	1.52%	0.130%
225	14.769	14.734	14.792	VV	2464	83040	1.24%	0.106%
226	14.803	14.792	14.816	VV	2391	33154	0.50%	0.042%
227	14.841	14.816	14.869	VV	4303	94710	1.42%	0.121%
228	14.879	14.869	14.894	VV	2316	32197	0.48%	0.041%
229	14.905	14.894	14.918	VV	2163	29532	0.44%	0.038%
230	14.934	14.918	14.951	VV	2253	40917	0.61%	0.052%
231	14.973	14.951	15.022	VV	2326	86088	1.29%	0.110%
232	15.046	15.022	15.064	VV	2168	48895	0.73%	0.062%
233	15.114	15.064	15.137	VV	2332	82084	1.23%	0.105%
234	15.158	15.137	15.177	VV	1979	42394	0.63%	0.054%
235	15.194	15.177	15.207	VV	1974	30616	0.46%	0.039%
236	15.222	15.207	15.258	VV	1845	50811	0.76%	0.065%
237	15.272	15.258	15.300	VV	1658	36976	0.55%	0.047%
238	15.336	15.300	15.359	VV	2487	61087	0.91%	0.078%
239	15.382	15.359	15.421	VV	5530	100189	1.50%	0.128%
240	15.426	15.421	15.432	VV	1500	8879	0.13%	0.011%
241	15.442	15.432	15.455	VV	1585	18030	0.27%	0.023%
242	15.464	15.455	15.485	VV	1290	19189	0.29%	0.024%
243	15.531	15.485	15.552	VV	1099	36806	0.55%	0.047%
244	15.571	15.552	15.584	VV	1170	16601	0.25%	0.021%
245	15.598	15.584	15.608	VV	1160	13398	0.20%	0.017%
246	15.656	15.608	15.668	VV	1112	33518	0.50%	0.043%

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247	15.725	15.668	15.748	VV	1242	44346	0.66%	0.057%
248	15.764	15.748	15.795	VV	1220	26350	0.39%	0.034%
249	15.816	15.795	15.827	VV	933	16005	0.24%	0.020%
250	15.841	15.827	15.851	VV	1176	14895	0.22%	0.019%
251	15.905	15.851	15.948	VV	3964	93631	1.40%	0.119%
252	15.956	15.948	15.991	VV	711	14313	0.21%	0.018%
253	16.003	15.991	16.016	VV	702	7338	0.11%	0.009%
254	16.070	16.016	16.103	VV	564	17647	0.26%	0.022%
255	16.141	16.103	16.160	VV	777	16703	0.25%	0.021%
256	16.170	16.160	16.192	VV	593	7643	0.11%	0.010%
257	16.202	16.192	16.209	PV	359	1993	0.03%	0.003%
258	16.240	16.209	16.268	VV	773	17040	0.26%	0.022%
259	16.310	16.268	16.332	VV	854	17791	0.27%	0.023%
260	16.368	16.332	16.388	VV	1263	22081	0.33%	0.028%
261	16.407	16.388	16.437	VV	4697	66352	0.99%	0.085%
262	16.446	16.437	16.484	VV	596	11851	0.18%	0.015%
263	16.510	16.484	16.540	VV	498	10219	0.15%	0.013%
264	16.562	16.540	16.574	VV	482	7007	0.10%	0.009%
265	16.601	16.574	16.611	VV	817	11666	0.17%	0.015%
266	16.630	16.611	16.658	VV	1053	19633	0.29%	0.025%
267	16.719	16.658	16.744	VV	1283	34175	0.51%	0.044%
268	16.782	16.744	16.807	VV	1085	30092	0.45%	0.038%
269	16.818	16.807	16.836	VV	763	7376	0.11%	0.009%
270	16.892	16.836	16.935	VV	5208	100651	1.51%	0.128%
271	17.051	16.935	17.085	PV	964	46312	0.69%	0.059%
272	17.131	17.085	17.155	VV	1015	28046	0.42%	0.036%
273	17.189	17.155	17.211	VV	1189	25878	0.39%	0.033%
274	17.236	17.211	17.269	VV	1280	34113	0.51%	0.043%
275	17.361	17.269	17.434	VV	8865	261389	3.91%	0.333%
276	17.513	17.434	17.535	VV	2533	122237	1.83%	0.156%
277	17.624	17.535	17.670	VV	3605	238391	3.57%	0.304%
278	17.709	17.670	17.742	VV	3307	122144	1.83%	0.156%
279	17.755	17.742	17.768	VV	2951	43582	0.65%	0.056%
280	17.812	17.768	17.845	VV	39589	603454	9.03%	0.769%
281	17.863	17.845	17.887	VV	2752	64780	0.97%	0.083%
282	17.950	17.887	17.980	VV	4077	158908	2.38%	0.202%
283	17.993	17.980	18.009	VV	2409	37475	0.56%	0.048%
284	18.032	18.009	18.051	VV	2552	57985	0.87%	0.074%
285	18.093	18.051	18.108	VV	3053	89421	1.34%	0.114%
286	18.125	18.108	18.144	VV	3200	62557	0.94%	0.080%
287	18.166	18.144	18.193	VV	3967	92146	1.38%	0.117%
288	18.250	18.193	18.330	VV	14430	393311	5.89%	0.501%
289	18.392	18.330	18.404	VV	3074	108763	1.63%	0.139%
290	18.451	18.404	18.494	VV	4215	176342	2.64%	0.225%
291	18.524	18.494	18.539	VV	3042	71265	1.07%	0.091%
292	18.619	18.539	18.631	VV	3900	177970	2.66%	0.227%
293	18.674	18.631	18.718	VV	22269	429163	6.42%	0.547%
294	18.752	18.718	18.770	VV	5044	138784	2.08%	0.177%
295	18.787	18.770	18.808	VV	5106	105849	1.58%	0.135%
296	18.817	18.808	18.838	VV	4253	72414	1.08%	0.092%
297	18.847	18.838	18.865	VV	4065	66192	0.99%	0.084%
298	18.882	18.865	18.890	VV	3914	56719	0.85%	0.072%
299	18.935	18.890	18.964	VV	4868	193131	2.89%	0.246%

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300	18.985	18.964	19.014	VV	4741	132423	1.98%	0.169%
301	19.084	19.014	19.118	VV	18805	508666	7.61%	0.648%
302	19.211	19.118	19.228	VV	7291	412842	6.18%	0.526%
303	19.277	19.228	19.290	VV	7493	270692	4.05%	0.345%
304	19.345	19.290	19.359	VV	8864	326699	4.89%	0.416%
305	19.387	19.359	19.401	VV	9122	221992	3.32%	0.283%
306	19.426	19.401	19.442	VV	9197	218850	3.28%	0.279%
307	19.482	19.442	19.514	VV	21678	585066	8.76%	0.746%
308	19.555	19.514	19.568	VV	11213	349594	5.23%	0.445%
309	19.601	19.568	19.628	VV	12574	423809	6.34%	0.540%
310	19.685	19.628	19.695	VV	13740	525210	7.86%	0.669%
311	19.728	19.695	19.750	VV	15172	477272	7.14%	0.608%
312	19.776	19.750	19.788	VV	15751	345520	5.17%	0.440%
313	19.796	19.788	19.818	VV	15770	273991	4.10%	0.349%
314	19.869	19.818	19.918	VV	26669	1094921	16.39%	1.395%
315	19.954	19.918	19.973	VV	16870	544776	8.15%	0.694%
316	20.027	19.973	20.044	VV	19061	767341	11.48%	0.978%
317	20.177	20.044	20.198	VV	23629	1965679	29.42%	2.505%
318	20.246	20.198	20.274	VV	31794	1199327	17.95%	1.528%
319	20.352	20.274	20.375	VV	26127	1503135	22.50%	1.915%
320	20.431	20.375	20.444	VV	29065	1137681	17.03%	1.450%
321	20.452	20.444	20.492	VV	28800	814915	12.20%	1.038%
322	20.522	20.492	20.534	VV	30782	737674	11.04%	0.940%
323	20.613	20.534	20.641	VV	40310	2202617	32.96%	2.807%
324	20.661	20.641	20.671	VV	35502	636701	9.53%	0.811%
325	20.741	20.671	20.756	VV	39623	1895097	28.36%	2.415%
326	20.800	20.756	20.830	VV	41384	1788026	26.76%	2.278%
327	20.841	20.830	20.877	VV	39921	1099605	16.46%	1.401%
328	20.899	20.877	20.924	VV	39533	1092070	16.34%	1.392%
329	20.980	20.924	21.007	VV	43303	1996636	29.88%	2.544%
330	21.016	21.007	21.045	VV	39312	884327	13.23%	1.127%
331	21.069	21.045	21.088	VV	39127	986376	14.76%	1.257%
332	21.106	21.088	21.138	VV	39390	1165160	17.44%	1.485%
333	21.206	21.138	21.230	VV	40058	2135715	31.96%	2.722%
334	21.248	21.230	21.311	VV	39597	1858783	27.82%	2.369%
335	21.389	21.311	21.424	VV	44029	2716266	40.65%	3.461%
336	21.487	21.424	21.506	VV	42896	2044470	30.60%	2.605%
337	21.515	21.506	21.552	VV	42486	1158626	17.34%	1.476%
338	21.561	21.552	21.583	VV	39889	712059	10.66%	0.907%
339	21.661	21.583	21.708	VV	41437	2981088	44.61%	3.799%
340	21.716	21.708	21.761	VV	38616	1211582	18.13%	1.544%
341	21.774	21.761	21.801	VV	36948	876791	13.12%	1.117%
342	21.848	21.801	21.858	VV	39065	1269387	19.00%	1.618%
343	21.866	21.858	21.890	VV	38877	726147	10.87%	0.925%
344	21.908	21.890	21.917	VV	37231	604224	9.04%	0.770%
345	21.927	21.917	21.941	VV	37227	533900	7.99%	0.680%
346	21.958	21.941	21.967	VV	37391	569457	8.52%	0.726%
347	21.979	21.967	22.053	VV	37652	1841399	27.56%	2.346%
348	22.111	22.053	22.133	VV	34921	1641036	24.56%	2.091%
349	22.153	22.133	22.198	VV	33896	1283924	19.21%	1.636%
350	22.211	22.198	22.277	VV	32895	1489406	22.29%	1.898%
351	22.345	22.277	22.357	VV	34153	1530898	22.91%	1.951%

						rters		
352	22.386	22.357	22.411	VV	36535	1153130	17.26%	1.469%
353	22.432	22.411	22.496	VV	36250	1789180	26.78%	2.280%
354	22.504	22.496	22.524	VV	33997	556593	8.33%	0.709%
355	22.533	22.524	22.551	VBA	32796	596871	8.93%	0.761%

Sum of corrected areas: 78475666

Aliphatic EPH 080125.M Mon Aug 25 11:32:27 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S02	SDG No.:	Q2832
Lab Sample ID:	Q2832-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94
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
08/21/25 11:00	08/25/25 10:23	PB169364

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.51	J	1	0.15	1.06	mg/kg	FE055475.D
Aliphatic C12-C16	Aliphatic C12-C16	0.79		1	0.12	0.71	mg/kg	FE055475.D
Aliphatic C16-C21	Aliphatic C16-C21	0.67	J	1	0.14	1.06	mg/kg	FE055475.D
Aliphatic C21-C28	Aliphatic C21-C28	0.95	J	1	0.56	1.41	mg/kg	FE055475.D
Aliphatic C28-C40	Aliphatic C28-C40	12.7		1	1.25	2.12	mg/kg	FE055475.D
Aromatic C10-C12	Aromatic C10-C12	0.54	J	1	0.13	0.71	mg/kg	FD049650.D
Aromatic C12-C16	Aromatic C12-C16	0.87	J	1	0.24	1.06	mg/kg	FD049650.D
Aromatic C16-C21	Aromatic C16-C21	10.2		1	0.42	1.77	mg/kg	FD049650.D
Aromatic C21-C36	Aromatic C21-C36	22.7		1	1.26	2.83	mg/kg	FD049650.D
Total AliphaticEPH	Total AliphaticEPH	15.6			2.22	6.36	mg/kg	
Total AromaticEPH	Total AromaticEPH	34.3			2.06	6.37	mg/kg	
Total EPH	Total EPH	49.9			4.27	12.7	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:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S02	SDG No.:	Q2832
Lab Sample ID:	Q2832-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94
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
FD049650.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.54	J	0.13	0.71	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.87	J	0.24	1.06	mg/kg
Aromatic C16-C21	Aromatic C16-C21	10.2		0.42	1.77	mg/kg
Aromatic C21-C36	Aromatic C21-C36	22.7		1.26	2.83	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.5		40 - 140	115%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	58.0		40 - 140	116%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	52.1		40 - 140	104%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2832-03	Acq On:	22 Aug 2025 18:43
Client Sample ID:	TG-S02	Operator:	YP/AJ
Data file:	FD049650.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.407	6.150	822577	7.621	200	ug/ml
Aromatic C12-C16	6.151	8.778	1519721	12.297	300	ug/ml
Aromatic C16-C21	8.779	13.069	18156839	143.548	500	ug/ml
Aromatic C21-C36	13.070	18.489	36111137	320.651	800	ug/ml
Aromatic EPH	4.407	18.489	56610274	484.117		ug/ml
2-Bromonaphthalene (SURR)	7.716	7.716	5896088	57.53		ug/ml
2-Fluorobiphenyl (SURR)	8.581	8.581	4235851	57.99		ug/ml
ortho-Terphenyl (SURR)	11.629	11.629	6766241	52.13		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049650.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 18:43
 Operator : YP/AJ
 Sample : Q2832-03
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 TG-S02

Integration File: sample.E
 Quant Time: Aug 25 01:49:13 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.716	5896088	57.530 ug/ml
Spiked Amount 50.000		Recovery =	115.06%
6) S 2-Fluorobiphenyl (SURR)	8.581	4235851	57.989 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	115.98%
11) S ortho-Terphenyl (SURR)	11.629	6766241	52.130 ug/ml
Spiked Amount 50.000		Recovery =	104.26%

Target Compounds

(f)=RT Delta > 1/2 Window

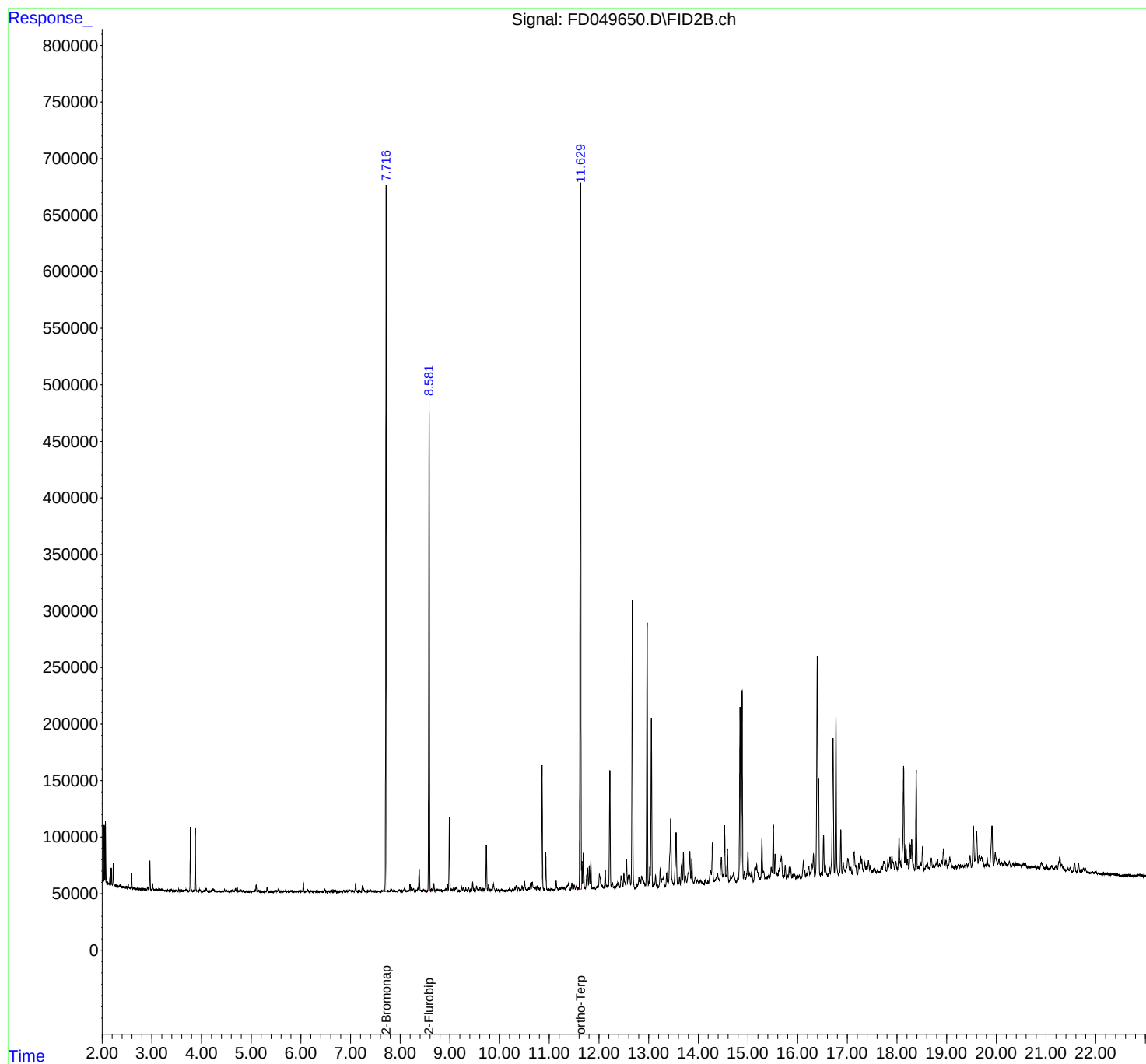
(m)=manual int.

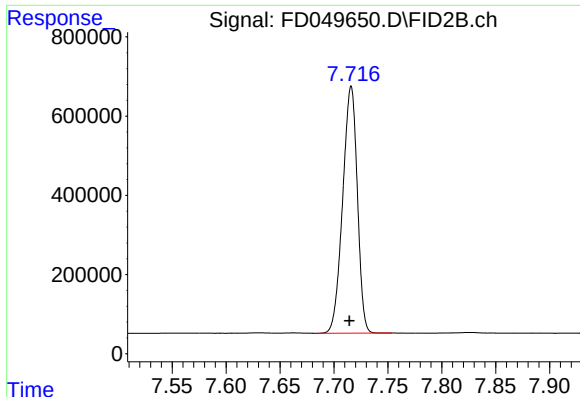
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049650.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 18:43
Operator : YP/AJ
Sample : Q2832-03
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
TG-S02

Integration File: sample.E
Quant Time: Aug 25 01:49:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

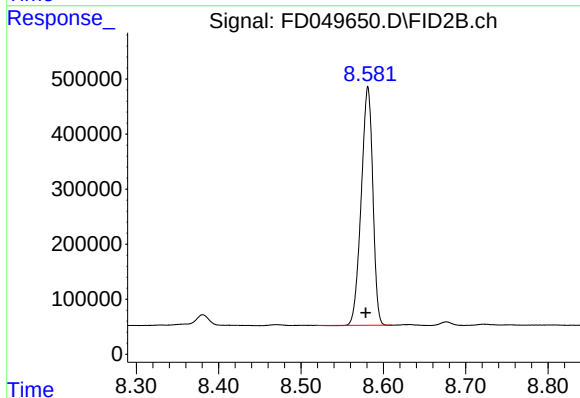




#4 2-Bromonaphthalene (SURRE)

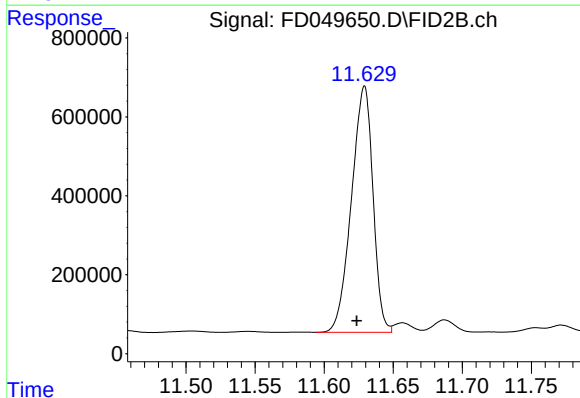
R.T.: 7.716 min
Delta R.T.: 0.002 min
Response: 5896088
Conc: 57.53 ug/ml

Instrument :
FID_D
ClientSampleId :
TG-S02



#6 2-Fluorobiphenyl (SURRE)

R.T.: 8.581 min
Delta R.T.: 0.003 min
Response: 4235851
Conc: 57.99 ug/ml



#11 ortho-Terphenyl (SURRE)

R.T.: 11.629 min
Delta R.T.: 0.006 min
Response: 6766241
Conc: 52.13 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049650.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 18:43
 Sample : Q2832-03
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.307	4.295	4.313	PV	190	1058	0.02%	0.001%
2	4.322	4.313	4.338	PV	321	2007	0.03%	0.003%
3	4.354	4.338	4.380	VV	866	8863	0.13%	0.012%
4	4.405	4.380	4.411	PV	347	3831	0.06%	0.005%
5	4.418	4.411	4.428	VV	537	3726	0.05%	0.005%
6	4.430	4.428	4.438	VV	349	1270	0.02%	0.002%
7	4.464	4.438	4.484	VV	2059	21580	0.32%	0.029%
8	4.504	4.484	4.522	VV	1466	18844	0.28%	0.026%
9	4.537	4.522	4.550	VV	473	5581	0.08%	0.008%
10	4.565	4.550	4.569	VV	551	5092	0.08%	0.007%
11	4.580	4.569	4.593	VV	769	7573	0.11%	0.010%
12	4.607	4.593	4.620	VV	1526	15208	0.22%	0.021%
13	4.632	4.620	4.656	VV	2384	26442	0.39%	0.036%
14	4.687	4.656	4.703	VV	2944	43640	0.64%	0.059%
15	4.718	4.703	4.738	VV	4066	39815	0.59%	0.054%
16	4.745	4.738	4.755	VV	461	3391	0.05%	0.005%
17	4.770	4.755	4.782	VV	1918	17940	0.26%	0.024%
18	4.795	4.782	4.822	VV	2045	23871	0.35%	0.032%
19	4.837	4.822	4.864	VV	1249	17417	0.26%	0.024%
20	4.887	4.864	4.893	VV	385	4091	0.06%	0.006%
21	4.911	4.893	4.940	VV	623	9597	0.14%	0.013%
22	4.946	4.940	4.951	VV	314	1307	0.02%	0.002%
23	4.968	4.951	4.977	VV	500	5042	0.07%	0.007%
24	4.984	4.977	5.000	VV	449	4836	0.07%	0.007%
25	5.018	5.000	5.037	VV	705	10459	0.15%	0.014%
26	5.042	5.037	5.053	VV	382	3378	0.05%	0.005%
27	5.072	5.053	5.082	VV	1522	15358	0.23%	0.021%
28	5.099	5.082	5.134	VV	6226	73185	1.08%	0.099%
29	5.156	5.134	5.173	VV	1389	19035	0.28%	0.026%
30	5.189	5.173	5.195	VV	543	5644	0.08%	0.008%
31	5.208	5.195	5.248	VV	539	11454	0.17%	0.016%
32	5.260	5.248	5.266	VV	332	2248	0.03%	0.003%
33	5.291	5.266	5.302	VV	631	9413	0.14%	0.013%
34	5.318	5.302	5.362	VV	3803	46415	0.68%	0.063%
35	5.375	5.362	5.391	VV	515	7303	0.11%	0.010%
36	5.395	5.391	5.420	VV	415	3250	0.05%	0.004%

					rteres			
37	5.455	5.429	5.462	PV	544	5441	0.08%	0.007%
38	5.463	5.462	5.482	VV	489	3975	0.06%	0.005%
39	5.500	5.482	5.521	VV	1585	19298	0.28%	0.026%
40	5.541	5.521	5.561	VV	2544	31340	0.46%	0.043%
41	5.567	5.561	5.570	VV	498	2504	0.04%	0.003%
42	5.574	5.570	5.582	VV	567	2936	0.04%	0.004%
43	5.600	5.582	5.618	VV	848	11728	0.17%	0.016%
44	5.638	5.618	5.648	VV	493	7553	0.11%	0.010%
45	5.660	5.648	5.670	VV	795	8190	0.12%	0.011%
46	5.683	5.670	5.710	VV	941	14675	0.22%	0.020%
47	5.740	5.710	5.756	VV	1035	18423	0.27%	0.025%
48	5.764	5.756	5.772	VV	636	5341	0.08%	0.007%
49	5.802	5.772	5.820	VV	997	21430	0.32%	0.029%
50	5.830	5.820	5.860	VV	731	13421	0.20%	0.018%
51	5.871	5.860	5.879	VV	562	5935	0.09%	0.008%
52	5.895	5.879	5.915	VV	666	11244	0.17%	0.015%
53	5.925	5.915	5.942	VV	686	8641	0.13%	0.012%
54	5.953	5.942	5.978	VV	745	11826	0.17%	0.016%
55	5.988	5.978	5.996	VV	791	6553	0.10%	0.009%
56	6.009	5.996	6.020	VV	721	7546	0.11%	0.010%
57	6.050	6.020	6.072	VV	8091	79926	1.18%	0.109%
58	6.099	6.072	6.121	VV	990	16959	0.25%	0.023%
59	6.139	6.121	6.167	VV	1803	24287	0.36%	0.033%
60	6.200	6.167	6.248	VV	937	25037	0.37%	0.034%
61	6.275	6.248	6.286	VV	819	13558	0.20%	0.018%
62	6.301	6.286	6.315	VV	774	10413	0.15%	0.014%
63	6.326	6.315	6.361	VV	1031	14872	0.22%	0.020%
64	6.384	6.361	6.390	VV	413	5173	0.08%	0.007%
65	6.394	6.390	6.423	VV	563	7789	0.11%	0.011%
66	6.428	6.423	6.459	VV	561	7216	0.11%	0.010%
67	6.480	6.459	6.513	VV	2423	31811	0.47%	0.043%
68	6.547	6.513	6.551	VV	733	10162	0.15%	0.014%
69	6.558	6.551	6.581	VV	892	10571	0.16%	0.014%
70	6.598	6.581	6.610	VV	742	7607	0.11%	0.010%
71	6.629	6.610	6.646	VV	1867	20342	0.30%	0.028%
72	6.664	6.646	6.683	VV	635	9451	0.14%	0.013%
73	6.701	6.683	6.731	VV	1297	17116	0.25%	0.023%
74	6.740	6.731	6.752	VV	560	3770	0.06%	0.005%
75	6.755	6.752	6.769	VV	295	2113	0.03%	0.003%
76	6.776	6.769	6.781	VV	375	1605	0.02%	0.002%
77	6.797	6.781	6.805	VV	542	5621	0.08%	0.008%
78	6.810	6.805	6.825	VV	472	3132	0.05%	0.004%
79	6.860	6.825	6.889	VV	1481	23455	0.35%	0.032%
80	6.895	6.889	6.900	VV	457	2499	0.04%	0.003%
81	6.923	6.900	6.940	VV	1184	16831	0.25%	0.023%
82	6.945	6.940	6.957	VV	836	6817	0.10%	0.009%
83	6.974	6.957	6.987	VV	1462	20521	0.30%	0.028%
84	6.996	6.987	7.013	VV	1146	16008	0.24%	0.022%
85	7.024	7.013	7.068	VV	1191	27457	0.40%	0.037%
86	7.103	7.068	7.141	VV	7498	90941	1.34%	0.124%
87	7.150	7.141	7.169	VV	531	6863	0.10%	0.009%
88	7.179	7.169	7.193	VV	581	6580	0.10%	0.009%
89	7.208	7.193	7.218	VV	626	6895	0.10%	0.009%

					rteres			
90	7.238	7.218	7.252	VV	5615	57167	0.84%	0.078%
91	7.262	7.252	7.291	VV	2628	31398	0.46%	0.043%
92	7.317	7.291	7.353	VV	966	20140	0.30%	0.027%
93	7.369	7.353	7.378	VV	764	7870	0.12%	0.011%
94	7.396	7.378	7.424	VV	1915	28017	0.41%	0.038%
95	7.434	7.424	7.450	VV	527	6569	0.10%	0.009%
96	7.462	7.450	7.479	VV	646	8989	0.13%	0.012%
97	7.494	7.479	7.518	VV	1118	12721	0.19%	0.017%
98	7.529	7.518	7.537	PV	220	1474	0.02%	0.002%
99	7.551	7.537	7.566	VV	478	6497	0.10%	0.009%
100	7.571	7.566	7.600	VV	470	7591	0.11%	0.010%
101	7.631	7.600	7.646	VV	1335	19285	0.28%	0.026%
102	7.663	7.646	7.684	VV	1120	14557	0.21%	0.020%
103	7.716	7.684	7.789	VV	625543	5923696	87.33%	8.048%
104	7.827	7.789	7.872	VV	2109	46169	0.68%	0.063%
105	7.890	7.872	7.907	VV	592	8825	0.13%	0.012%
106	7.914	7.907	7.940	VV	461	6466	0.10%	0.009%
107	7.967	7.940	7.976	VV	1284	16593	0.24%	0.023%
108	7.984	7.976	8.021	VV	1314	21758	0.32%	0.030%
109	8.030	8.021	8.037	VV	455	3971	0.06%	0.005%
110	8.079	8.037	8.085	VV	2446	35231	0.52%	0.048%
111	8.093	8.085	8.125	VV	2549	31266	0.46%	0.042%
112	8.127	8.125	8.135	VV	521	2727	0.04%	0.004%
113	8.167	8.135	8.176	VV	840	15013	0.22%	0.020%
114	8.197	8.176	8.212	VV	6539	72772	1.07%	0.099%
115	8.225	8.212	8.241	VV	4133	42500	0.63%	0.058%
116	8.268	8.241	8.289	VV	2953	48364	0.71%	0.066%
117	8.330	8.289	8.336	VV	1372	21415	0.32%	0.029%
118	8.381	8.336	8.449	VV	20062	276228	4.07%	0.375%
119	8.471	8.449	8.487	VV	1918	23873	0.35%	0.032%
120	8.504	8.487	8.539	VV	821	16698	0.25%	0.023%
121	8.581	8.539	8.611	VV	434557	4271818	62.98%	5.804%
122	8.631	8.611	8.656	VV	2104	34836	0.51%	0.047%
123	8.677	8.656	8.698	VV	7049	73123	1.08%	0.099%
124	8.722	8.698	8.744	VV	2716	44893	0.66%	0.061%
125	8.752	8.744	8.773	VV	1632	22499	0.33%	0.031%
126	8.805	8.773	8.824	VV	1327	33815	0.50%	0.046%
127	8.829	8.824	8.855	VV	880	11893	0.18%	0.016%
128	8.877	8.855	8.883	VV	904	12373	0.18%	0.017%
129	8.891	8.883	8.899	VV	861	7398	0.11%	0.010%
130	8.917	8.899	8.931	VV	2560	31737	0.47%	0.043%
131	8.948	8.931	8.967	VV	6489	73874	1.09%	0.100%
132	8.990	8.967	9.012	VV	65369	648325	9.56%	0.881%
133	9.018	9.012	9.029	VV	1966	18266	0.27%	0.025%
134	9.038	9.029	9.053	VV	1886	22022	0.32%	0.030%
135	9.082	9.053	9.098	VV	4014	67108	0.99%	0.091%
136	9.123	9.098	9.167	VV	4178	89676	1.32%	0.122%
137	9.184	9.167	9.200	VV	710	9770	0.14%	0.013%
138	9.203	9.200	9.211	VV	369	2168	0.03%	0.003%
139	9.240	9.211	9.256	VV	3985	46212	0.68%	0.063%
140	9.271	9.256	9.298	VV	3331	39908	0.59%	0.054%
141	9.321	9.298	9.342	VV	2445	33307	0.49%	0.045%

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142	9.375	9.342	9.403	VV	3706	56442	0.83%	0.077%
143	9.417	9.403	9.434	VV	1427	16599	0.24%	0.023%
144	9.458	9.434	9.512	VV	8081	113949	1.68%	0.155%
145	9.537	9.512	9.571	VV	4780	77737	1.15%	0.106%
146	9.579	9.571	9.585	VV	1483	10956	0.16%	0.015%
147	9.607	9.585	9.625	VV	3687	55349	0.82%	0.075%
148	9.639	9.625	9.652	VV	1893	23149	0.34%	0.031%
149	9.667	9.652	9.687	VV	2475	37503	0.55%	0.051%
150	9.704	9.687	9.712	VV	2528	28282	0.42%	0.038%
151	9.734	9.712	9.759	VV	40739	432707	6.38%	0.588%
152	9.779	9.759	9.818	VV	5891	87113	1.28%	0.118%
153	9.830	9.818	9.848	VV	1258	15549	0.23%	0.021%
154	9.877	9.848	9.921	VV	6503	113160	1.67%	0.154%
155	9.940	9.921	9.960	VV	2190	29950	0.44%	0.041%
156	9.978	9.960	10.004	VV	1047	17696	0.26%	0.024%
157	10.040	10.004	10.085	VV	1477	33716	0.50%	0.046%
158	10.088	10.085	10.100	VV	320	1350	0.02%	0.002%
159	10.143	10.100	10.155	PV	498	8345	0.12%	0.011%
160	10.172	10.155	10.182	VV	770	9657	0.14%	0.013%
161	10.200	10.182	10.240	VV	2279	37521	0.55%	0.051%
162	10.255	10.240	10.273	VV	1070	13832	0.20%	0.019%
163	10.309	10.273	10.319	VV	2930	42882	0.63%	0.058%
164	10.336	10.319	10.360	VV	4864	70502	1.04%	0.096%
165	10.379	10.360	10.417	VV	3505	56219	0.83%	0.076%
166	10.453	10.417	10.483	VV	4352	81160	1.20%	0.110%
167	10.503	10.483	10.545	VV	8085	121503	1.79%	0.165%
168	10.553	10.545	10.568	VV	1149	13923	0.21%	0.019%
169	10.590	10.568	10.601	VV	2192	33206	0.49%	0.045%
170	10.623	10.601	10.638	VV	6761	85937	1.27%	0.117%
171	10.657	10.638	10.678	VV	7570	118901	1.75%	0.162%
172	10.686	10.678	10.705	VV	2845	38279	0.56%	0.052%
173	10.708	10.705	10.715	VV	1875	10972	0.16%	0.015%
174	10.726	10.715	10.740	VV	2277	29539	0.44%	0.040%
175	10.754	10.740	10.772	VV	3940	48891	0.72%	0.066%
176	10.786	10.772	10.808	VV	1995	32371	0.48%	0.044%
177	10.824	10.808	10.831	VV	2333	23450	0.35%	0.032%
178	10.855	10.831	10.893	VV	110909	1165267	17.18%	1.583%
179	10.929	10.893	10.967	VV	33334	370127	5.46%	0.503%
180	10.982	10.967	11.015	VV	1305	23167	0.34%	0.031%
181	11.035	11.015	11.093	VV	1283	35332	0.52%	0.048%
182	11.114	11.093	11.120	VV	666	7549	0.11%	0.010%
183	11.139	11.120	11.186	VV	8311	115002	1.70%	0.156%
184	11.214	11.186	11.225	PV	1560	25276	0.37%	0.034%
185	11.260	11.225	11.277	VV	2933	62546	0.92%	0.085%
186	11.301	11.277	11.318	VV	2152	39330	0.58%	0.053%
187	11.392	11.318	11.425	VV	5560	170152	2.51%	0.231%
188	11.455	11.425	11.476	VV	6053	76196	1.12%	0.104%
189	11.504	11.476	11.525	VV	4211	66978	0.99%	0.091%
190	11.544	11.525	11.568	VV	3208	45555	0.67%	0.062%
191	11.583	11.568	11.594	VV	1226	15595	0.23%	0.021%
192	11.629	11.594	11.649	VV	624283	6783250	100.00%	9.216%
193	11.657	11.649	11.671	VV	24986	231907	3.42%	0.315%
194	11.687	11.671	11.710	VV	32360	355016	5.23%	0.482%

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195	11.719	11.710	11.729	VV	1646	16174	0.24%	0.022%
196	11.753	11.729	11.759	VV	12225	120949	1.78%	0.164%
197	11.772	11.759	11.789	VV	19032	220778	3.25%	0.300%
198	11.805	11.789	11.820	VV	20401	226450	3.34%	0.308%
199	11.836	11.820	11.861	VV	23546	274946	4.05%	0.374%
200	11.876	11.861	11.886	VV	1050	11587	0.17%	0.016%
201	11.907	11.886	11.927	VV	1784	24051	0.35%	0.033%
202	11.973	11.927	11.985	VV	2771	52806	0.78%	0.072%
203	12.009	11.985	12.057	VV	13189	295717	4.36%	0.402%
204	12.062	12.057	12.083	VV	3391	40315	0.59%	0.055%
205	12.089	12.083	12.103	VV	1358	14642	0.22%	0.020%
206	12.126	12.103	12.146	VV	16467	189154	2.79%	0.257%
207	12.155	12.146	12.166	VV	2703	28792	0.42%	0.039%
208	12.186	12.166	12.190	VV	2951	36353	0.54%	0.049%
209	12.219	12.190	12.253	VV	104704	1241180	18.30%	1.686%
210	12.273	12.253	12.293	VV	5518	77677	1.15%	0.106%
211	12.305	12.293	12.315	VV	1546	16378	0.24%	0.022%
212	12.330	12.315	12.342	VV	1961	23831	0.35%	0.032%
213	12.355	12.342	12.362	VV	2875	28452	0.42%	0.039%
214	12.377	12.362	12.388	VV	5212	63508	0.94%	0.086%
215	12.398	12.388	12.425	VV	4670	63597	0.94%	0.086%
216	12.445	12.425	12.483	VV	10898	218106	3.22%	0.296%
217	12.502	12.483	12.534	VV	13007	204074	3.01%	0.277%
218	12.555	12.534	12.574	VV	25416	321849	4.74%	0.437%
219	12.591	12.574	12.604	VV	11760	164440	2.42%	0.223%
220	12.617	12.604	12.639	VV	11875	168414	2.48%	0.229%
221	12.673	12.639	12.725	VV	253999	2891267	42.62%	3.928%
222	12.767	12.725	12.777	PV	2620	34219	0.50%	0.046%
223	12.804	12.777	12.818	VV	9040	137703	2.03%	0.187%
224	12.828	12.818	12.841	VV	7818	89028	1.31%	0.121%
225	12.859	12.841	12.900	VV	10548	267445	3.94%	0.363%
226	12.905	12.900	12.940	VV	4913	81407	1.20%	0.111%
227	12.970	12.940	12.994	VV	234586	2555576	37.67%	3.472%
228	13.023	12.994	13.033	VV	18381	226818	3.34%	0.308%
229	13.055	13.033	13.085	VV	149838	1748012	25.77%	2.375%
230	13.106	13.085	13.123	VV	4369	72108	1.06%	0.098%
231	13.140	13.123	13.162	VV	10797	135617	2.00%	0.184%
232	13.173	13.162	13.193	VV	2481	25866	0.38%	0.035%
233	13.233	13.193	13.253	PV	16279	225685	3.33%	0.307%
234	13.272	13.253	13.284	VV	7217	119670	1.76%	0.163%
235	13.300	13.284	13.338	VV	9050	143623	2.12%	0.195%
236	13.364	13.338	13.381	VV	12006	150501	2.22%	0.204%
237	13.393	13.381	13.402	VV	5801	65881	0.97%	0.090%
238	13.445	13.402	13.493	VV	60300	1152939	17.00%	1.566%
239	13.553	13.493	13.590	VV	47510	866640	12.78%	1.177%
240	13.622	13.590	13.640	VV	8091	118741	1.75%	0.161%
241	13.662	13.640	13.681	VV	17420	246546	3.63%	0.335%
242	13.701	13.681	13.721	VV	29955	365072	5.38%	0.496%
243	13.744	13.721	13.767	VV	8672	155925	2.30%	0.212%
244	13.830	13.767	13.850	VV	30262	654138	9.64%	0.889%
245	13.870	13.850	13.912	VV	23842	351144	5.18%	0.477%
246	13.943	13.912	13.960	VV	7415	138864	2.05%	0.189%

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247	13.978	13.960	14.003	VV	4436	86123	1.27%	0.117%
248	14.008	14.003	14.020	VV	2445	22686	0.33%	0.031%
249	14.036	14.020	14.052	VV	3495	53540	0.79%	0.073%
250	14.055	14.052	14.072	VV	3036	30689	0.45%	0.042%
251	14.079	14.072	14.095	VV	2193	22943	0.34%	0.031%
252	14.105	14.095	14.115	VV	765	7434	0.11%	0.010%
253	14.136	14.115	14.162	VV	4135	56453	0.83%	0.077%
254	14.167	14.162	14.171	VV	1028	5235	0.08%	0.007%
255	14.192	14.171	14.206	VV	3067	38427	0.57%	0.052%
256	14.244	14.206	14.263	VV	12726	254806	3.76%	0.346%
257	14.284	14.263	14.319	VV	36436	513312	7.57%	0.697%
258	14.335	14.319	14.345	VV	3674	47390	0.70%	0.064%
259	14.388	14.345	14.427	VV	9336	270567	3.99%	0.368%
260	14.465	14.427	14.485	VV	23427	452863	6.68%	0.615%
261	14.494	14.485	14.506	VV	8102	93591	1.38%	0.127%
262	14.529	14.506	14.550	VV	51159	633679	9.34%	0.861%
263	14.586	14.550	14.615	VV	30399	468383	6.90%	0.636%
264	14.655	14.615	14.671	VV	6907	131059	1.93%	0.178%
265	14.711	14.671	14.766	VV	9282	268532	3.96%	0.365%
266	14.792	14.766	14.804	VV	4056	50977	0.75%	0.069%
267	14.840	14.804	14.859	VV	154480	1888762	27.84%	2.566%
268	14.882	14.859	14.909	VV	169687	2018536	29.76%	2.742%
269	14.927	14.909	14.955	VV	9563	155112	2.29%	0.211%
270	14.999	14.955	15.022	VV	27098	475292	7.01%	0.646%
271	15.035	15.022	15.055	VV	7092	121447	1.79%	0.165%
272	15.074	15.055	15.109	VV	8722	147360	2.17%	0.200%
273	15.138	15.109	15.162	PV	12037	245459	3.62%	0.333%
274	15.175	15.162	15.238	VV	14835	331722	4.89%	0.451%
275	15.280	15.238	15.305	VV	36257	528279	7.79%	0.718%
276	15.316	15.305	15.340	VV	8565	130889	1.93%	0.178%
277	15.373	15.340	15.384	VV	3618	73676	1.09%	0.100%
278	15.425	15.384	15.443	VV	5640	140512	2.07%	0.191%
279	15.466	15.443	15.483	VV	11347	183875	2.71%	0.250%
280	15.509	15.483	15.530	VV	49083	672373	9.91%	0.913%
281	15.546	15.530	15.572	VV	23220	317728	4.68%	0.432%
282	15.573	15.572	15.580	VV	5469	26342	0.39%	0.036%
283	15.589	15.580	15.601	VV	5641	60999	0.90%	0.083%
284	15.651	15.601	15.658	VV	18298	363637	5.36%	0.494%
285	15.672	15.658	15.713	VV	20601	375788	5.54%	0.511%
286	15.719	15.713	15.725	VV	2772	18782	0.28%	0.026%
287	15.749	15.725	15.773	VV	12561	190867	2.81%	0.259%
288	15.790	15.773	15.811	VV	3956	70040	1.03%	0.095%
289	15.831	15.811	15.845	VV	10527	132425	1.95%	0.180%
290	15.860	15.845	15.884	VV	9888	128860	1.90%	0.175%
291	15.901	15.884	15.913	VV	3479	45544	0.67%	0.062%
292	15.928	15.913	15.962	VV	5020	96906	1.43%	0.132%
293	15.981	15.962	16.006	VV	2329	43690	0.64%	0.059%
294	16.011	16.006	16.023	VV	1802	15016	0.22%	0.020%
295	16.036	16.023	16.054	VV	2510	32173	0.47%	0.044%
296	16.065	16.054	16.077	VV	1399	13382	0.20%	0.018%
297	16.117	16.077	16.133	VV	15357	242515	3.58%	0.329%
298	16.143	16.133	16.160	VV	6768	77955	1.15%	0.106%
299	16.181	16.160	16.189	VV	3767	51056	0.75%	0.069%

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300	16.224	16.189	16.244	VV	9658	209475	3.09%	0.285%
301	16.255	16.244	16.265	VV	4822	53184	0.78%	0.072%
302	16.290	16.265	16.301	VV	11527	176249	2.60%	0.239%
303	16.319	16.301	16.345	VV	20795	294117	4.34%	0.400%
304	16.396	16.345	16.412	VV	195781	2827304	41.68%	3.841%
305	16.422	16.412	16.458	VV	87605	925248	13.64%	1.257%
306	16.473	16.458	16.494	VV	3794	57287	0.84%	0.078%
307	16.522	16.494	16.544	VV	37562	479478	7.07%	0.651%
308	16.559	16.544	16.605	VV	9692	166909	2.46%	0.227%
309	16.641	16.605	16.658	VV	6929	114316	1.69%	0.155%
310	16.713	16.658	16.740	VV	122372	2099976	30.96%	2.853%
311	16.772	16.740	16.821	VV	140883	1801827	26.56%	2.448%
312	16.840	16.821	16.846	VV	3789	39561	0.58%	0.054%
313	16.870	16.846	16.896	VV	40576	511811	7.55%	0.695%
314	16.919	16.896	16.960	VV	11746	244149	3.60%	0.332%
315	16.981	16.960	16.987	VV	7336	93726	1.38%	0.127%
316	17.013	16.987	17.058	VV	14823	393710	5.80%	0.535%
317	17.073	17.058	17.094	VV	6771	93902	1.38%	0.128%
318	17.137	17.094	17.165	VV	19530	444469	6.55%	0.604%
319	17.173	17.165	17.201	VV	8291	95082	1.40%	0.129%
320	17.231	17.201	17.245	PV	9706	129701	1.91%	0.176%
321	17.267	17.245	17.282	VV	16366	250110	3.69%	0.340%
322	17.293	17.282	17.329	VV	13364	204310	3.01%	0.278%
323	17.351	17.329	17.368	VV	10203	157804	2.33%	0.214%
324	17.379	17.368	17.396	VV	6151	83832	1.24%	0.114%
325	17.426	17.396	17.450	VV	11715	228196	3.36%	0.310%
326	17.465	17.450	17.484	VV	6692	98028	1.45%	0.133%
327	17.490	17.484	17.504	VV	2688	25260	0.37%	0.034%
328	17.544	17.504	17.587	VV	4426	136947	2.02%	0.186%
329	17.610	17.587	17.628	VV	3234	41023	0.60%	0.056%
330	17.638	17.628	17.652	VV	1301	13058	0.19%	0.018%
331	17.685	17.652	17.703	VV	5678	94434	1.39%	0.128%
332	17.739	17.703	17.754	VV	9959	219806	3.24%	0.299%
333	17.758	17.754	17.782	VV	8273	86027	1.27%	0.117%
334	17.817	17.782	17.833	VV	9588	155685	2.30%	0.212%
335	17.860	17.833	17.878	VV	13399	231589	3.41%	0.315%
336	17.898	17.878	17.914	VV	14374	212237	3.13%	0.288%
337	17.921	17.914	17.953	VV	8732	143270	2.11%	0.195%
338	17.977	17.953	18.012	VV	8917	161298	2.38%	0.219%
339	18.042	18.012	18.087	VV	29491	534494	7.88%	0.726%
340	18.134	18.087	18.157	VV	92777	1452431	21.41%	1.973%
341	18.177	18.157	18.202	VV	23520	414566	6.11%	0.563%
342	18.216	18.202	18.238	VV	9588	132763	1.96%	0.180%
343	18.266	18.238	18.280	VV	22416	307872	4.54%	0.418%
344	18.296	18.280	18.357	VV	27318	453234	6.68%	0.616%
345	18.388	18.357	18.413	PV	87792	1054001	15.54%	1.432%
346	18.426	18.413	18.440	VV	1239	12213	0.18%	0.017%
347	18.470	18.440	18.486	PV	3792	40520	0.60%	0.055%
					Sum of corrected areas:		73604794	

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S02	SDG No.:	Q2832
Lab Sample ID:	Q2832-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94
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
FE055475.D	1	08/21/25	08/25/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.51	J	0.15	1.06	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.79		0.12	0.71	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.67	J	0.14	1.06	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.95	J	0.56	1.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	12.7		1.25	2.12	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	50.7		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2832-03	Acq On:	25 Aug 2025 10:23
Client Sample ID:	TG-S02	Operator:	YP\AJ
Data file:	FE055475.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.318	6.954	840958	7.201	300	ug/ml
Aliphatic C12-C16	6.955	10.408	1394164	11.133	200	ug/ml
Aliphatic C16-C21	10.409	13.788	1188907	9.406	300	ug/ml
Aliphatic C21-C28	13.789	17.461	1622151	13.461	400	ug/ml
Aliphatic C28-C40	17.462	22.488	20498638	179.833	600	ug/ml
Aliphatic EPH	3.318	22.488	25544818	221.034		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.524	13.524	5450147	50.69		ug/ml
Aliphatic C9-C28	3.318	17.461	5046180	41.201	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055475.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 10:23
Operator : YP\AJ
Sample : Q2832-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 11:25:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 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...	13.524	5450147	50.688 ug/ml
Spiked Amount 50.000		Recovery =	101.38%

Target Compounds

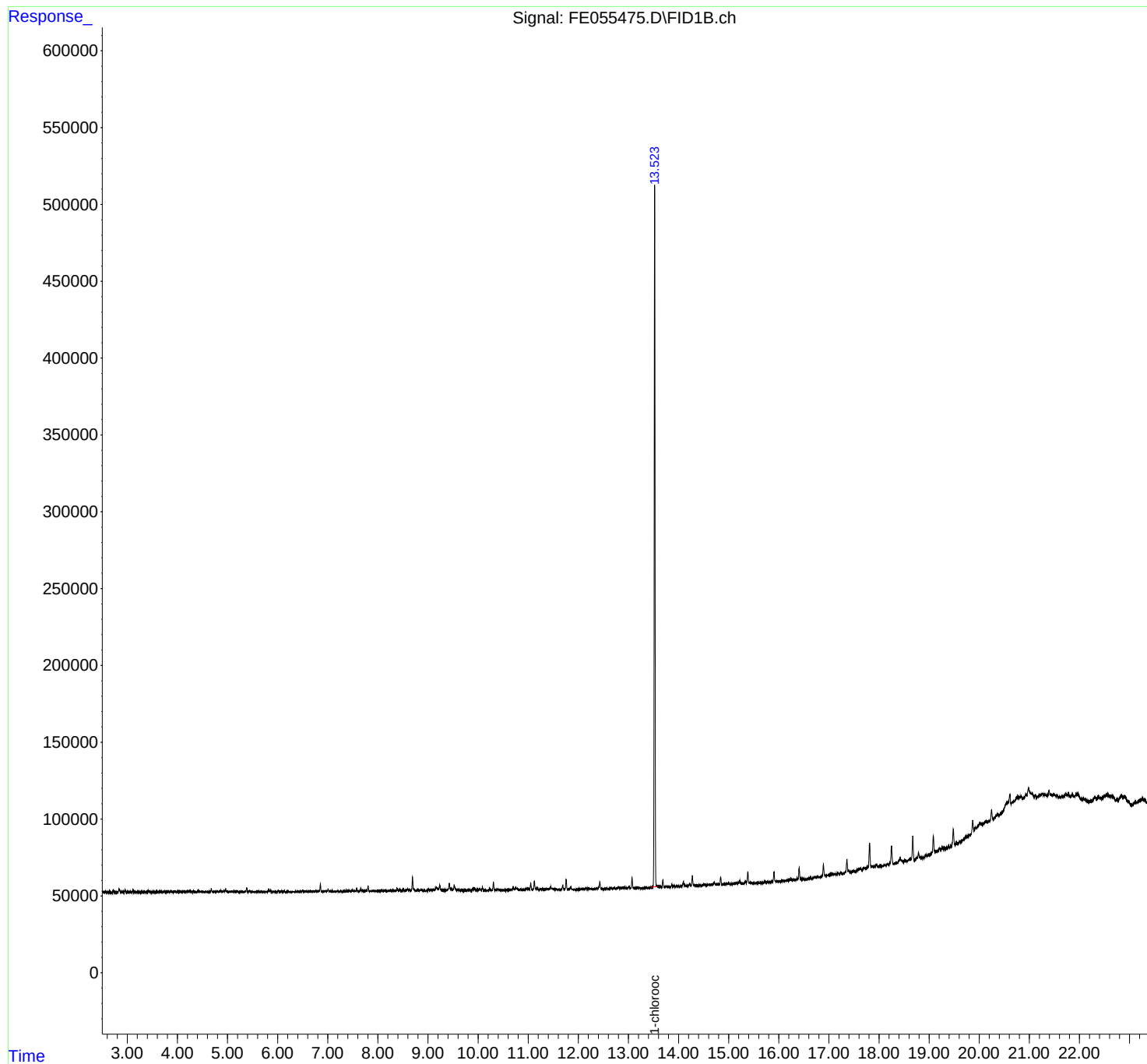
(f)=RT Delta > 1/2 Window

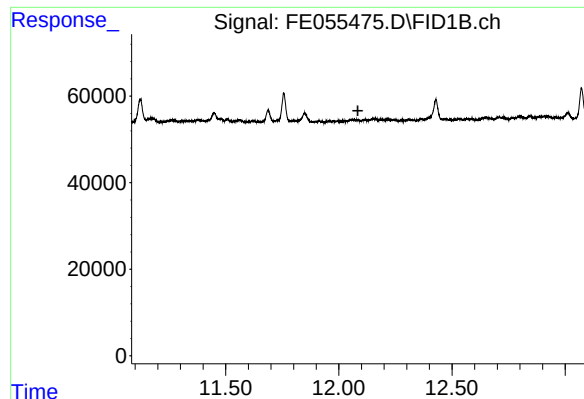
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055475.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 10:23
Operator : YP\AJ
Sample : Q2832-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 11:25:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

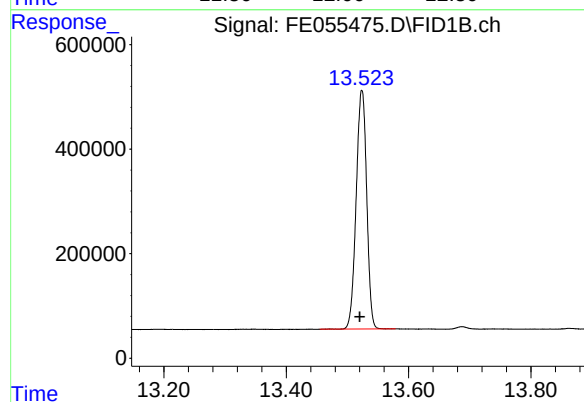
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 12.084 min
Response: 0
Conc: N.D.



#12 1-chlorooctadecane (SURR)

R.T.: 13.524 min
Delta R.T.: 0.003 min
Response: 5450147
Conc: 50.69 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
 Data File : FE055475.D
 Signal(s) : FID1B.ch
 Acq On : 25 Aug 2025 10:23
 Sample : Q2832-03
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.834	2.805	2.871	BV	2185	35339	0.64%	0.113%
2	2.889	2.871	2.930	VV	389	6009	0.11%	0.019%
3	2.956	2.930	2.987	PV	1512	18579	0.34%	0.060%
4	2.997	2.987	3.033	VV	172	2940	0.05%	0.009%
5	3.054	3.033	3.083	VV	418	5522	0.10%	0.018%
6	3.112	3.083	3.145	VV	1584	16685	0.30%	0.054%
7	3.200	3.145	3.215	VV	357	7497	0.14%	0.024%
8	3.227	3.215	3.293	VV	310	7060	0.13%	0.023%
9	3.300	3.293	3.328	VV	142	2073	0.04%	0.007%
10	3.348	3.328	3.371	VV	262	3798	0.07%	0.012%
11	3.419	3.371	3.497	VV	1043	23197	0.42%	0.074%
12	3.505	3.497	3.511	VV	148	1029	0.02%	0.003%
13	3.532	3.511	3.551	VV	279	4513	0.08%	0.014%
14	3.568	3.551	3.579	VV	441	4772	0.09%	0.015%
15	3.596	3.579	3.615	VV	448	6316	0.11%	0.020%
16	3.647	3.615	3.700	VV	420	14138	0.26%	0.045%
17	3.741	3.700	3.794	VV	749	19272	0.35%	0.062%
18	3.812	3.794	3.841	VV	512	9476	0.17%	0.030%
19	3.869	3.841	3.921	VV	815	18487	0.34%	0.059%
20	3.954	3.921	3.991	VV	779	17033	0.31%	0.055%
21	4.009	3.991	4.045	VV	604	10828	0.20%	0.035%
22	4.065	4.045	4.088	VV	555	8246	0.15%	0.026%
23	4.115	4.088	4.181	VV	603	17010	0.31%	0.055%
24	4.216	4.181	4.232	VV	957	16874	0.31%	0.054%
25	4.249	4.232	4.305	VV	1503	24753	0.45%	0.079%
26	4.325	4.305	4.371	VV	660	11851	0.22%	0.038%
27	4.420	4.371	4.437	VV	792	19431	0.35%	0.062%
28	4.451	4.437	4.495	VV	458	11052	0.20%	0.035%
29	4.513	4.495	4.541	VV	347	6216	0.11%	0.020%
30	4.576	4.541	4.607	VV	335	9767	0.18%	0.031%
31	4.619	4.607	4.643	VV	345	5232	0.10%	0.017%
32	4.677	4.643	4.705	VV	2280	28958	0.53%	0.093%
33	4.717	4.705	4.737	VV	407	5723	0.10%	0.018%
34	4.769	4.737	4.777	VV	343	6001	0.11%	0.019%
35	4.792	4.777	4.820	VV	486	8358	0.15%	0.027%
36	4.866	4.820	4.883	VV	1087	18802	0.34%	0.060%

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37	4.897	4.883	4.911	VV	584	8064	0.15%	0.026%
38	4.928	4.911	4.944	VV	1089	14001	0.25%	0.045%
39	4.962	4.944	4.981	VV	2334	26174	0.48%	0.084%
40	4.992	4.981	5.009	VV	651	8022	0.15%	0.026%
41	5.020	5.009	5.067	VV	437	10736	0.20%	0.034%
42	5.096	5.067	5.111	VV	480	8880	0.16%	0.029%
43	5.132	5.111	5.165	VV	505	11214	0.20%	0.036%
44	5.199	5.165	5.238	VV	620	13374	0.24%	0.043%
45	5.252	5.238	5.278	VV	266	4418	0.08%	0.014%
46	5.294	5.278	5.330	VV	316	6386	0.12%	0.021%
47	5.355	5.330	5.363	VV	837	9300	0.17%	0.030%
48	5.382	5.363	5.418	VV	2780	37462	0.68%	0.120%
49	5.440	5.418	5.458	VV	887	13383	0.24%	0.043%
50	5.469	5.458	5.482	VV	460	5089	0.09%	0.016%
51	5.498	5.482	5.538	VV	570	9079	0.16%	0.029%
52	5.601	5.538	5.615	VV	277	8431	0.15%	0.027%
53	5.623	5.615	5.654	VV	381	6780	0.12%	0.022%
54	5.669	5.654	5.685	VV	234	3813	0.07%	0.012%
55	5.696	5.685	5.718	VV	337	4532	0.08%	0.015%
56	5.731	5.718	5.755	VV	229	3603	0.07%	0.012%
57	5.766	5.755	5.790	VV	244	4197	0.08%	0.013%
58	5.818	5.790	5.848	VV	2308	30069	0.55%	0.097%
59	5.862	5.848	5.884	VV	1045	12376	0.22%	0.040%
60	5.896	5.884	5.907	VV	199	2042	0.04%	0.007%
61	5.924	5.907	5.938	VV	341	4396	0.08%	0.014%
62	5.950	5.938	5.975	VV	250	4305	0.08%	0.014%
63	6.013	5.975	6.054	VV	814	16965	0.31%	0.054%
64	6.069	6.054	6.101	VV	289	6675	0.12%	0.021%
65	6.129	6.101	6.158	VV	611	13232	0.24%	0.042%
66	6.186	6.158	6.205	VV	239	5045	0.09%	0.016%
67	6.212	6.205	6.225	VV	225	2829	0.05%	0.009%
68	6.247	6.225	6.284	VV	322	6618	0.12%	0.021%
69	6.300	6.284	6.330	PV	273	5040	0.09%	0.016%
70	6.361	6.330	6.383	VV	340	7914	0.14%	0.025%
71	6.402	6.383	6.435	VV	643	11502	0.21%	0.037%
72	6.451	6.435	6.478	VV	583	8177	0.15%	0.026%
73	6.498	6.478	6.527	VV	1237	17235	0.31%	0.055%
74	6.561	6.527	6.579	VV	676	11235	0.20%	0.036%
75	6.638	6.579	6.670	VV	562	17520	0.32%	0.056%
76	6.703	6.670	6.721	VV	378	9637	0.18%	0.031%
77	6.730	6.721	6.748	VV	450	6208	0.11%	0.020%
78	6.769	6.748	6.796	VV	651	13503	0.25%	0.043%
79	6.853	6.796	6.885	VV	5254	65322	1.19%	0.210%
80	6.942	6.885	6.965	VV	624	15042	0.27%	0.048%
81	6.975	6.965	6.986	VV	471	5061	0.09%	0.016%
82	7.007	6.986	7.030	VV	2062	24901	0.45%	0.080%
83	7.046	7.030	7.066	VV	536	8052	0.15%	0.026%
84	7.082	7.066	7.115	VV	524	6993	0.13%	0.022%
85	7.136	7.115	7.168	VV	220	4192	0.08%	0.013%
86	7.188	7.168	7.219	VV	507	9385	0.17%	0.030%
87	7.228	7.219	7.238	VV	258	2509	0.05%	0.008%
88	7.258	7.238	7.285	VV	401	7061	0.13%	0.023%
89	7.310	7.285	7.342	VV	440	8891	0.16%	0.029%

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90	7.367	7.342	7.405	VV	856	19319	0.35%	0.062%
91	7.427	7.405	7.459	VV	790	16630	0.30%	0.053%
92	7.495	7.459	7.517	VV	929	18875	0.34%	0.061%
93	7.535	7.517	7.558	VV	521	7557	0.14%	0.024%
94	7.577	7.558	7.623	VV	2388	29765	0.54%	0.096%
95	7.661	7.623	7.695	VV	1673	26762	0.49%	0.086%
96	7.719	7.695	7.742	VV	463	11234	0.20%	0.036%
97	7.767	7.742	7.783	VV	789	13684	0.25%	0.044%
98	7.805	7.783	7.842	VV	3644	45632	0.83%	0.146%
99	7.868	7.842	7.883	VV	458	9796	0.18%	0.031%
100	7.898	7.883	7.915	VV	633	8007	0.15%	0.026%
101	7.930	7.915	7.954	VV	368	6476	0.12%	0.021%
102	7.981	7.954	8.050	VV	504	15847	0.29%	0.051%
103	8.071	8.050	8.088	VV	869	10382	0.19%	0.033%
104	8.108	8.088	8.135	VV	546	10038	0.18%	0.032%
105	8.155	8.135	8.185	VV	584	11230	0.20%	0.036%
106	8.253	8.185	8.281	VV	780	26529	0.48%	0.085%
107	8.298	8.281	8.321	VV	526	10223	0.19%	0.033%
108	8.336	8.321	8.358	VV	517	8137	0.15%	0.026%
109	8.383	8.358	8.411	VV	1825	27406	0.50%	0.088%
110	8.439	8.411	8.465	VV	1269	21868	0.40%	0.070%
111	8.509	8.465	8.529	VV	1687	27161	0.49%	0.087%
112	8.543	8.529	8.558	VV	574	8332	0.15%	0.027%
113	8.596	8.558	8.641	VV	1535	38869	0.71%	0.125%
114	8.652	8.641	8.659	VV	493	4772	0.09%	0.015%
115	8.691	8.659	8.764	VV	9279	130890	2.38%	0.420%
116	8.800	8.764	8.822	VV	814	21553	0.39%	0.069%
117	8.862	8.822	8.909	VV	1121	31030	0.56%	0.100%
118	8.929	8.909	8.995	VV	549	15836	0.29%	0.051%
119	9.014	8.995	9.031	VV	1168	15589	0.28%	0.050%
120	9.051	9.031	9.077	VV	763	17165	0.31%	0.055%
121	9.104	9.077	9.128	VV	726	19761	0.36%	0.063%
122	9.162	9.128	9.212	VV	2471	75789	1.38%	0.243%
123	9.233	9.212	9.274	VV	3941	63678	1.16%	0.204%
124	9.292	9.274	9.338	VV	657	17972	0.33%	0.058%
125	9.356	9.338	9.371	VV	579	9269	0.17%	0.030%
126	9.425	9.371	9.448	VV	5014	84728	1.54%	0.272%
127	9.456	9.448	9.493	VV	1428	27100	0.49%	0.087%
128	9.523	9.493	9.571	VV	3761	74904	1.36%	0.240%
129	9.581	9.571	9.593	VV	453	4846	0.09%	0.016%
130	9.611	9.593	9.638	VV	752	11495	0.21%	0.037%
131	9.659	9.638	9.691	VV	429	7603	0.14%	0.024%
132	9.742	9.691	9.798	VV	367	16294	0.30%	0.052%
133	9.826	9.798	9.868	VV	673	16543	0.30%	0.053%
134	9.897	9.868	9.914	VV	1382	21193	0.39%	0.068%
135	9.928	9.914	9.961	VV	1226	22671	0.41%	0.073%
136	9.984	9.961	10.007	VV	613	12486	0.23%	0.040%
137	10.032	10.007	10.057	VV	1054	17203	0.31%	0.055%
138	10.086	10.057	10.117	VV	1992	26993	0.49%	0.087%
139	10.136	10.117	10.166	VV	231	5072	0.09%	0.016%
140	10.179	10.166	10.201	VV	279	3149	0.06%	0.010%
141	10.226	10.201	10.277	VV	1055	20942	0.38%	0.067%

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142	10.306	10.277	10.360	VV	5428	69581	1.26%	0.223%
143	10.388	10.360	10.463	VV	535	21253	0.39%	0.068%
144	10.477	10.463	10.510	VV	267	4465	0.08%	0.014%
145	10.522	10.510	10.548	VV	198	1949	0.04%	0.006%
146	10.588	10.548	10.603	PV	324	5526	0.10%	0.018%
147	10.654	10.603	10.675	VV	466	12877	0.23%	0.041%
148	10.699	10.675	10.724	VV	2490	37452	0.68%	0.120%
149	10.749	10.724	10.775	VV	1538	30660	0.56%	0.098%
150	10.787	10.775	10.821	VV	949	18207	0.33%	0.058%
151	10.844	10.821	10.875	VV	597	12532	0.23%	0.040%
152	10.912	10.875	10.927	VV	486	12012	0.22%	0.039%
153	10.956	10.927	10.964	VV	762	13927	0.25%	0.045%
154	10.980	10.964	11.015	VV	989	23661	0.43%	0.076%
155	11.050	11.015	11.090	VV	4497	67939	1.23%	0.218%
156	11.123	11.090	11.149	VV	5502	83922	1.53%	0.269%
157	11.175	11.149	11.210	VV	1129	28759	0.52%	0.092%
158	11.268	11.210	11.289	VV	726	21783	0.40%	0.070%
159	11.310	11.289	11.353	VV	483	16015	0.29%	0.051%
160	11.383	11.353	11.411	VV	697	18500	0.34%	0.059%
161	11.449	11.411	11.494	VV	2304	53136	0.97%	0.171%
162	11.507	11.494	11.528	VV	820	11445	0.21%	0.037%
163	11.560	11.528	11.597	VV	671	15573	0.28%	0.050%
164	11.620	11.597	11.660	VV	436	9720	0.18%	0.031%
165	11.688	11.660	11.717	VV	2946	39446	0.72%	0.127%
166	11.757	11.717	11.791	VV	6780	89583	1.63%	0.288%
167	11.849	11.791	11.891	VV	2091	41293	0.75%	0.133%
168	11.913	11.891	11.933	VV	241	3766	0.07%	0.012%
169	12.058	11.933	12.098	PV	471	23695	0.43%	0.076%
170	12.116	12.098	12.128	VV	492	6697	0.12%	0.021%
171	12.160	12.128	12.178	VV	711	14368	0.26%	0.046%
172	12.192	12.178	12.203	VV	468	6065	0.11%	0.019%
173	12.217	12.203	12.232	VV	562	6791	0.12%	0.022%
174	12.243	12.232	12.262	VV	379	4652	0.08%	0.015%
175	12.275	12.262	12.292	VV	244	2868	0.05%	0.009%
176	12.309	12.292	12.341	VV	372	6584	0.12%	0.021%
177	12.363	12.341	12.377	VV	430	6585	0.12%	0.021%
178	12.428	12.377	12.465	VV	4867	78996	1.44%	0.254%
179	12.476	12.465	12.504	VV	358	5308	0.10%	0.017%
180	12.531	12.504	12.548	VV	338	5426	0.10%	0.017%
181	12.566	12.548	12.615	VV	373	8011	0.15%	0.026%
182	12.650	12.615	12.688	VV	601	15658	0.28%	0.050%
183	12.709	12.688	12.719	VV	569	8420	0.15%	0.027%
184	12.724	12.719	12.749	VV	490	6266	0.11%	0.020%
185	12.801	12.749	12.827	VV	817	20689	0.38%	0.066%
186	12.844	12.827	12.864	VV	786	11027	0.20%	0.035%
187	12.924	12.864	12.946	VV	690	25785	0.47%	0.083%
188	12.975	12.946	12.984	VV	349	7380	0.13%	0.024%
189	13.011	12.984	13.041	VV	1449	22332	0.41%	0.072%
190	13.072	13.041	13.122	VV	7059	88377	1.61%	0.284%
191	13.142	13.122	13.158	VV	272	4294	0.08%	0.014%
192	13.191	13.158	13.235	VV	519	12429	0.23%	0.040%
193	13.244	13.235	13.265	VV	137	1194	0.02%	0.004%
194	13.347	13.265	13.385	PV	474	14854	0.27%	0.048%

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195	13.399	13.385	13.414	PV	252	2347	0.04%	0.008%
196	13.439	13.414	13.451	VV	375	5328	0.10%	0.017%
197	13.472	13.451	13.484	VV	690	9588	0.17%	0.031%
198	13.524	13.484	13.621	VV	459770	5502612	100.00%	17.665%
199	13.630	13.621	13.658	VV	629	8856	0.16%	0.028%
200	13.687	13.658	13.719	VV	4855	62970	1.14%	0.202%
201	13.738	13.719	13.780	VV	551	10919	0.20%	0.035%
202	13.806	13.780	13.824	VV	113	1994	0.04%	0.006%
203	13.863	13.824	13.885	VV	1364	16195	0.29%	0.052%
204	13.918	13.885	13.935	VV	523	10282	0.19%	0.033%
205	13.962	13.935	14.008	VV	630	15957	0.29%	0.051%
206	14.016	14.008	14.023	VV	275	2244	0.04%	0.007%
207	14.095	14.023	14.159	VV	3103	68140	1.24%	0.219%
208	14.224	14.159	14.248	VV	1753	35150	0.64%	0.113%
209	14.275	14.248	14.328	VV	6654	93702	1.70%	0.301%
210	14.338	14.328	14.381	VV	463	9949	0.18%	0.032%
211	14.428	14.381	14.448	VV	370	8811	0.16%	0.028%
212	14.466	14.448	14.473	VV	146	1892	0.03%	0.006%
213	14.505	14.473	14.550	VV	778	17824	0.32%	0.057%
214	14.575	14.550	14.594	VV	354	7215	0.13%	0.023%
215	14.609	14.594	14.627	VV	512	7361	0.13%	0.024%
216	14.713	14.627	14.735	VV	1973	43918	0.80%	0.141%
217	14.750	14.735	14.760	VV	424	6034	0.11%	0.019%
218	14.775	14.760	14.782	VV	488	5212	0.09%	0.017%
219	14.796	14.782	14.813	VV	554	8632	0.16%	0.028%
220	14.840	14.813	14.867	VV	5111	68238	1.24%	0.219%
221	14.879	14.867	14.889	VV	450	5383	0.10%	0.017%
222	14.902	14.889	14.956	VV	517	17913	0.33%	0.058%
223	15.007	14.956	15.028	VV	1093	25393	0.46%	0.082%
224	15.042	15.028	15.061	VV	603	8117	0.15%	0.026%
225	15.146	15.061	15.173	VV	753	34560	0.63%	0.111%
226	15.219	15.173	15.256	VV	2231	48344	0.88%	0.155%
227	15.272	15.256	15.300	VV	547	9539	0.17%	0.031%
228	15.338	15.300	15.355	VV	1661	28110	0.51%	0.090%
229	15.382	15.355	15.409	VV	7630	107758	1.96%	0.346%
230	15.427	15.409	15.478	VV	706	17862	0.32%	0.057%
231	15.496	15.478	15.513	VV	195	2928	0.05%	0.009%
232	15.529	15.513	15.551	VV	222	3172	0.06%	0.010%
233	15.588	15.551	15.621	VV	234	6092	0.11%	0.020%
234	15.651	15.621	15.680	PV	306	4545	0.08%	0.015%
235	15.722	15.680	15.750	PV	1004	18287	0.33%	0.059%
236	15.775	15.750	15.808	VV	342	8014	0.15%	0.026%
237	15.819	15.808	15.845	VV	344	5214	0.09%	0.017%
238	15.862	15.845	15.881	VV	489	7792	0.14%	0.025%
239	15.904	15.881	15.956	VV	6528	90270	1.64%	0.290%
240	15.962	15.956	16.001	VV	413	5579	0.10%	0.018%
241	16.010	16.001	16.031	VV	234	3020	0.05%	0.010%
242	16.059	16.031	16.071	PV	452	5781	0.11%	0.019%
243	16.087	16.071	16.104	VV	428	7412	0.13%	0.024%
244	16.144	16.104	16.155	VV	562	12541	0.23%	0.040%
245	16.178	16.155	16.190	VV	529	9819	0.18%	0.032%
246	16.233	16.190	16.271	VV	1197	34900	0.63%	0.112%

					rteres			
247	16.300	16.271	16.322	VV	513	13318	0.24%	0.043%
248	16.367	16.322	16.381	VV	1111	21117	0.38%	0.068%
249	16.407	16.381	16.436	VV	7605	103581	1.88%	0.333%
250	16.446	16.436	16.487	VV	608	12075	0.22%	0.039%
251	16.507	16.487	16.517	VV	391	3817	0.07%	0.012%
252	16.537	16.517	16.548	VV	241	3190	0.06%	0.010%
253	16.630	16.548	16.667	PV	836	27910	0.51%	0.090%
254	16.720	16.667	16.745	PV	795	18960	0.34%	0.061%
255	16.779	16.745	16.801	VV	803	18733	0.34%	0.060%
256	16.891	16.801	16.935	VV	7935	135979	2.47%	0.437%
257	17.029	16.935	17.038	VV	1029	37256	0.68%	0.120%
258	17.055	17.038	17.090	VV	1071	26448	0.48%	0.085%
259	17.115	17.090	17.151	VV	901	24132	0.44%	0.077%
260	17.191	17.151	17.210	VV	821	21136	0.38%	0.068%
261	17.237	17.210	17.278	VV	1152	24883	0.45%	0.080%
262	17.359	17.278	17.385	VV	8924	147234	2.68%	0.473%
263	17.400	17.385	17.424	VV	1820	23691	0.43%	0.076%
264	17.436	17.424	17.441	PV	260	1596	0.03%	0.005%
265	17.486	17.441	17.495	VV	764	14641	0.27%	0.047%
266	17.503	17.495	17.525	VV	676	7842	0.14%	0.025%
267	17.625	17.525	17.661	VV	1710	72854	1.32%	0.234%
268	17.708	17.661	17.731	VV	1581	42296	0.77%	0.136%
269	17.761	17.731	17.771	VV	1438	28089	0.51%	0.090%
270	17.812	17.771	17.842	VV	16781	274898	5.00%	0.883%
271	17.852	17.842	17.888	VV	1507	33524	0.61%	0.108%
272	17.901	17.888	17.915	VV	1276	17920	0.33%	0.058%
273	17.949	17.915	17.978	VV	2187	52026	0.95%	0.167%
274	17.993	17.978	18.010	VV	668	9629	0.17%	0.031%
275	18.030	18.010	18.053	VV	1092	16833	0.31%	0.054%
276	18.101	18.053	18.110	VV	798	15766	0.29%	0.051%
277	18.119	18.110	18.141	VV	726	10361	0.19%	0.033%
278	18.167	18.141	18.192	VV	1597	25110	0.46%	0.081%
279	18.249	18.192	18.285	VV	12491	209198	3.80%	0.672%
280	18.322	18.285	18.332	VV	739	13943	0.25%	0.045%
281	18.419	18.332	18.481	VV	3714	122588	2.23%	0.394%
282	18.519	18.481	18.542	VV	1340	31369	0.57%	0.101%
283	18.620	18.542	18.637	VV	1571	52802	0.96%	0.170%
284	18.673	18.637	18.710	VV	16343	238330	4.33%	0.765%
285	18.752	18.710	18.765	PV	1646	27358	0.50%	0.088%
286	18.787	18.765	18.837	VV	4288	78498	1.43%	0.252%
287	18.848	18.837	18.859	VV	592	5768	0.10%	0.019%
288	18.868	18.859	18.884	VV	335	3217	0.06%	0.010%
289	18.942	18.884	18.958	PV	1567	29991	0.55%	0.096%
290	18.984	18.958	18.997	VV	935	17356	0.32%	0.056%
291	19.084	18.997	19.117	VV	12130	233329	4.24%	0.749%
292	19.127	19.117	19.140	VV	1606	20051	0.36%	0.064%
293	19.159	19.140	19.167	VV	1493	22553	0.41%	0.072%
294	19.208	19.167	19.231	VV	3132	76637	1.39%	0.246%
295	19.260	19.231	19.299	VV	2933	80905	1.47%	0.260%
296	19.311	19.299	19.322	VV	1633	19704	0.36%	0.063%
297	19.344	19.322	19.361	VV	1942	35993	0.65%	0.116%
298	19.386	19.361	19.411	VV	1854	44248	0.80%	0.142%
299	19.429	19.411	19.437	VV	1628	22829	0.41%	0.073%

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300	19.482	19.437	19.516	VV	12270	239664	0.769%
301	19.540	19.516	19.561	VV	2725	61508	0.197%
302	19.605	19.561	19.622	VV	2864	81725	0.262%
303	19.732	19.622	19.745	VV	4645	244831	0.786%
304	19.806	19.745	19.815	VV	5001	190016	0.610%
305	19.870	19.815	19.895	VV	13841	386243	1.240%
306	19.922	19.895	19.937	VV	8664	197650	0.635%
307	20.014	19.937	20.071	VV	10694	756849	2.430%
308	20.143	20.071	20.173	VV	10328	594142	1.907%
309	20.196	20.173	20.205	VV	9750	180333	0.579%
310	20.246	20.205	20.279	VV	16559	536154	1.721%
311	20.371	20.279	20.398	VV	12266	810150	2.601%
312	20.552	20.398	20.567	VV	17995	1449603	4.654%
313	20.610	20.567	20.635	VV	22675	780594	2.506%
314	20.682	20.635	20.701	VV	17705	669430	2.149%
315	20.765	20.701	20.785	VV	19422	925862	2.972%
316	20.805	20.785	20.818	VV	18924	380734	1.222%
317	20.834	20.818	20.868	VV	19054	547265	1.757%
318	20.933	20.868	20.950	VV	19337	886038	2.845%
319	20.985	20.950	21.015	VV	22930	796473	2.557%
320	21.023	21.015	21.039	VV	19225	272558	0.875%
321	21.047	21.039	21.095	VV	18500	595428	1.912%
322	21.116	21.095	21.145	VV	16910	469595	1.508%
323	21.166	21.145	21.177	VV	15185	287662	0.924%
324	21.209	21.177	21.233	VV	16045	527937	1.695%
325	21.258	21.233	21.278	VV	16172	420082	1.349%
326	21.294	21.278	21.308	VV	15152	267050	0.857%
327	21.317	21.308	21.333	VV	14654	218205	0.701%
328	21.345	21.333	21.361	VV	14229	228502	0.734%
329	21.392	21.361	21.417	VV	16670	500664	1.607%
330	21.426	21.417	21.445	VV	14010	227864	0.732%
331	21.471	21.445	21.484	VV	13479	304132	0.976%
332	21.500	21.484	21.528	VV	13161	332542	1.068%
333	21.545	21.528	21.576	VV	11735	327551	1.052%
334	21.589	21.576	21.605	VV	10435	182293	0.585%
335	21.656	21.605	21.669	VV	10162	376268	1.208%
336	21.687	21.669	21.701	VV	9911	186840	0.600%
337	21.733	21.701	21.754	VV	10813	326779	1.049%
338	21.779	21.754	21.818	VV	10377	352721	1.132%
339	21.849	21.818	21.889	VV	9275	356167	1.143%
340	21.953	21.889	22.024	VV	8531	584491	1.876%
341	22.034	22.024	22.070	VV	4369	109208	0.351%
342	22.085	22.070	22.102	VV	3844	65802	0.211%
343	22.115	22.102	22.165	VV	3061	83648	0.269%
344	22.214	22.165	22.234	VV	1019	30983	0.099%
345	22.314	22.234	22.338	VV	2063	77078	0.247%
346	22.384	22.338	22.423	VV	1641	58056	0.186%
347	22.437	22.423	22.451	VV	491	4812	0.015%
Sum of corrected areas:					31149134		

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S03	SDG No.:	Q2832
Lab Sample ID:	Q2832-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/21/25 11:00	08/25/25 10:53	PB169364

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.62	J	1	0.15	1.06	mg/kg	FE055476.D
Aliphatic C12-C16	Aliphatic C12-C16	0.98		1	0.12	0.71	mg/kg	FE055476.D
Aliphatic C16-C21	Aliphatic C16-C21	0.94	J	1	0.14	1.06	mg/kg	FE055476.D
Aliphatic C21-C28	Aliphatic C21-C28	1.87		1	0.56	1.42	mg/kg	FE055476.D
Aliphatic C28-C40	Aliphatic C28-C40	36.6		1	1.26	2.13	mg/kg	FE055476.D
Aromatic C10-C12	Aromatic C10-C12	0.58	J	1	0.13	0.71	mg/kg	FD049651.D
Aromatic C12-C16	Aromatic C12-C16	0.99	J	1	0.25	1.06	mg/kg	FD049651.D
Aromatic C16-C21	Aromatic C16-C21	14.2		1	0.43	1.77	mg/kg	FD049651.D
Aromatic C21-C36	Aromatic C21-C36	27.7		1	1.27	2.84	mg/kg	FD049651.D
Total AliphaticEPH	Total AliphaticEPH	41.0			2.23	6.38	mg/kg	
Total AromaticEPH	Total AromaticEPH	43.5			2.07	6.38	mg/kg	
Total EPH	Total EPH	84.5			4.30	12.8	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S03	SDG No.:	Q2832
Lab Sample ID:	Q2832-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049651.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.58	J	0.13	0.71	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.99	J	0.25	1.06	mg/kg
Aromatic C16-C21	Aromatic C16-C21	14.2		0.43	1.77	mg/kg
Aromatic C21-C36	Aromatic C21-C36	27.7		1.27	2.84	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.5		40 - 140	123%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	60.2		40 - 140	120%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	50.4		40 - 140	101%	SPK: 50



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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2832-05	Acq On:	22 Aug 2025 19:28
Client Sample ID:	TG-S03	Operator:	YP/AJ
Data file:	FD049651.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	4.407	6.150	884058	8.19	200	ug/ml
Aromatic C12-C16	6.151	8.778	1718251	13.904	300	ug/ml
Aromatic C16-C21	8.779	13.069	25258333	199.692	500	ug/ml
Aromatic C21-C36	13.070	18.489	43966031	390.399	800	ug/ml
Aromatic EPH	4.407	18.489	71826673	612.185		ug/ml
2-Bromonaphthalene (SURRE)	7.717	7.717	6304352	61.51		ug/ml
2-Fluorobiphenyl (SURRE)	8.582	8.582	4400461	60.24		ug/ml
ortho-Terphenyl (SURRE)	11.629	11.629	6545749	50.43		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049651.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 19:28
 Operator : YP/AJ
 Sample : Q2832-05
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 TG-S03

Integration File: sample.E
 Quant Time: Aug 25 01:49:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.717	6304352	61.514 ug/ml
Spiked Amount 50.000		Recovery =	123.03%
6) S 2-Fluorobiphenyl (SURR)	8.582	4400461	60.243 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	120.49%
11) S ortho-Terphenyl (SURR)	11.629	6545749	50.431 ug/ml
Spiked Amount 50.000		Recovery =	100.86%

Target Compounds

(f)=RT Delta > 1/2 Window

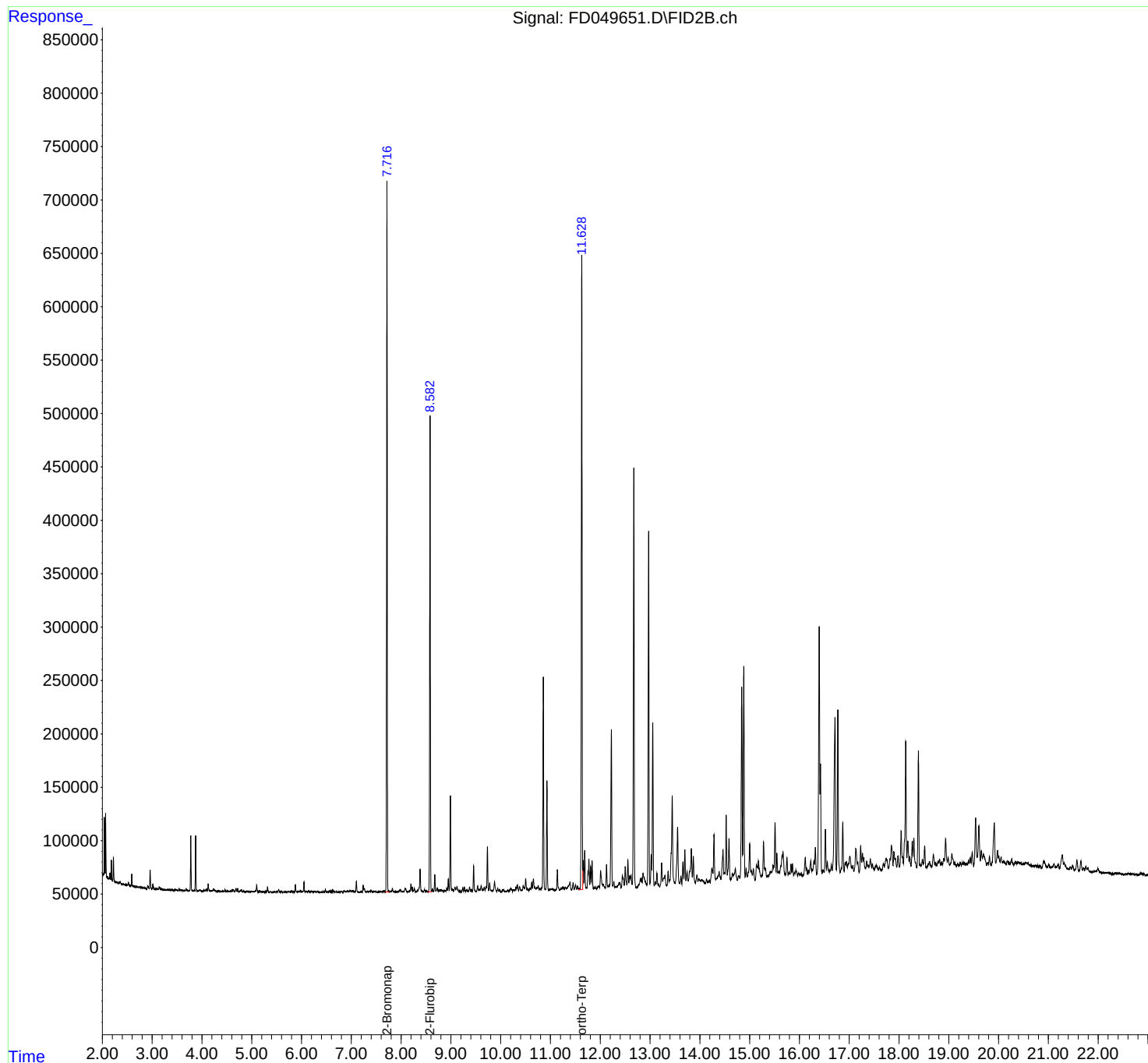
(m)=manual int.

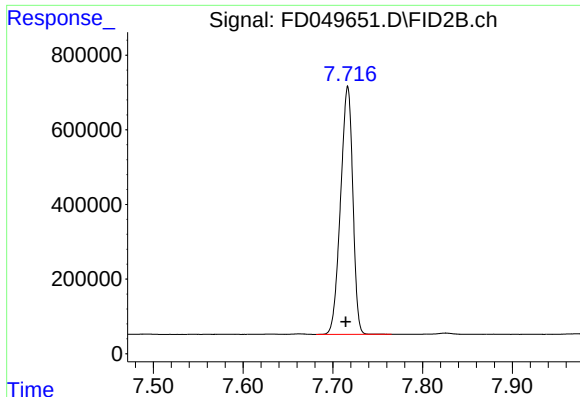
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049651.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 19:28
Operator : YP/AJ
Sample : Q2832-05
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
TG-S03

Integration File: sample.E
Quant Time: Aug 25 01:49:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

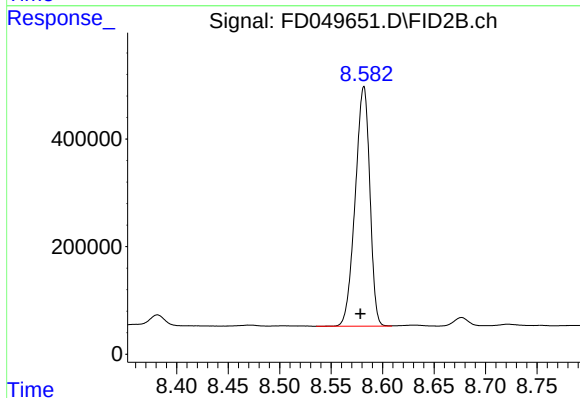




#4 2-Bromonaphthalene (SURRE)

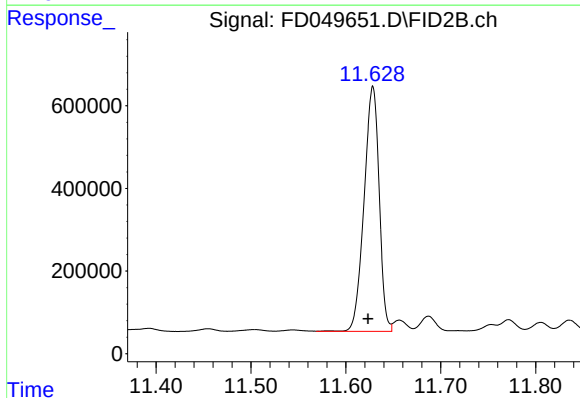
R.T.: 7.717 min
Delta R.T.: 0.002 min
Response: 6304352
Conc: 61.51 ug/ml

Instrument :
FID_D
ClientSampleId :
TG-S03



#6 2-Fluorobiphenyl (SURRE)

R.T.: 8.582 min
Delta R.T.: 0.003 min
Response: 4400461
Conc: 60.24 ug/ml



#11 ortho-Terphenyl (SURRE)

R.T.: 11.629 min
Delta R.T.: 0.005 min
Response: 6545749
Conc: 50.43 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049651.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 19:28
 Sample : Q2832-05
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.323	4.312	4.342	PV	154	1273	0.02%	0.001%
2	4.354	4.342	4.384	VV	610	6847	0.10%	0.008%
3	4.391	4.384	4.405	PV	211	1587	0.02%	0.002%
4	4.416	4.405	4.442	VV	757	8128	0.12%	0.009%
5	4.464	4.442	4.482	VV	2186	19599	0.30%	0.022%
6	4.507	4.482	4.524	PV	1157	11841	0.18%	0.013%
7	4.536	4.524	4.549	VV	449	4664	0.07%	0.005%
8	4.559	4.549	4.567	VV	419	3850	0.06%	0.004%
9	4.579	4.567	4.592	VV	602	6206	0.09%	0.007%
10	4.607	4.592	4.619	VV	2303	20627	0.32%	0.023%
11	4.633	4.619	4.654	VV	2054	21324	0.33%	0.024%
12	4.683	4.654	4.703	VV	2857	42302	0.65%	0.047%
13	4.718	4.703	4.742	VV	3198	30991	0.47%	0.035%
14	4.749	4.742	4.755	VV	284	1702	0.03%	0.002%
15	4.771	4.755	4.782	VV	1662	16465	0.25%	0.018%
16	4.794	4.782	4.824	VV	2233	26833	0.41%	0.030%
17	4.836	4.824	4.868	VV	1259	16371	0.25%	0.018%
18	4.886	4.868	4.895	PV	648	4918	0.08%	0.006%
19	4.912	4.895	4.944	VV	919	14828	0.23%	0.017%
20	4.965	4.944	4.978	VV	566	7549	0.12%	0.008%
21	4.993	4.978	5.008	VV	533	6811	0.10%	0.008%
22	5.018	5.008	5.052	VV	637	11446	0.18%	0.013%
23	5.073	5.052	5.084	VV	1490	16322	0.25%	0.018%
24	5.099	5.084	5.136	VV	6612	75090	1.15%	0.084%
25	5.156	5.136	5.174	VV	1706	19681	0.30%	0.022%
26	5.187	5.174	5.192	VV	582	4922	0.08%	0.006%
27	5.207	5.192	5.222	VV	737	10057	0.15%	0.011%
28	5.230	5.222	5.255	VV	442	6976	0.11%	0.008%
29	5.259	5.255	5.277	VV	344	4161	0.06%	0.005%
30	5.289	5.277	5.300	VV	670	7282	0.11%	0.008%
31	5.317	5.300	5.352	VV	5160	52306	0.80%	0.059%
32	5.375	5.352	5.410	PV	599	10784	0.16%	0.012%
33	5.422	5.410	5.439	VV	353	3923	0.06%	0.004%
34	5.455	5.439	5.466	VV	609	6795	0.10%	0.008%
35	5.470	5.466	5.483	VV	355	2670	0.04%	0.003%
36	5.501	5.483	5.517	VV	1378	14732	0.23%	0.017%

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37	5.541	5.517	5.561	VV	2796	36025	0.55%	0.040%
38	5.567	5.561	5.582	VV	653	4991	0.08%	0.006%
39	5.599	5.582	5.619	VV	908	11162	0.17%	0.013%
40	5.633	5.619	5.650	VV	413	5377	0.08%	0.006%
41	5.663	5.650	5.675	VV	663	7625	0.12%	0.009%
42	5.686	5.675	5.694	VV	533	5599	0.09%	0.006%
43	5.699	5.694	5.713	VV	425	3337	0.05%	0.004%
44	5.741	5.713	5.753	VV	629	10441	0.16%	0.012%
45	5.763	5.753	5.772	VV	502	4831	0.07%	0.005%
46	5.796	5.772	5.827	VV	786	19658	0.30%	0.022%
47	5.836	5.827	5.854	VV	708	7849	0.12%	0.009%
48	5.877	5.854	5.905	VV	7154	73694	1.13%	0.083%
49	5.955	5.905	5.974	VV	1097	23692	0.36%	0.027%
50	5.990	5.974	6.016	VV	818	15139	0.23%	0.017%
51	6.050	6.016	6.079	VV	9779	104405	1.60%	0.117%
52	6.098	6.079	6.116	VV	1006	13329	0.20%	0.015%
53	6.139	6.116	6.177	VV	1625	24748	0.38%	0.028%
54	6.205	6.177	6.242	VV	974	19492	0.30%	0.022%
55	6.266	6.242	6.285	VV	919	11281	0.17%	0.013%
56	6.297	6.285	6.311	VV	579	7019	0.11%	0.008%
57	6.326	6.311	6.370	VV	1160	14760	0.23%	0.017%
58	6.409	6.370	6.421	VV	357	6300	0.10%	0.007%
59	6.433	6.421	6.452	VV	524	5943	0.09%	0.007%
60	6.479	6.452	6.504	VV	2262	27961	0.43%	0.031%
61	6.518	6.504	6.532	VV	578	7114	0.11%	0.008%
62	6.540	6.532	6.552	VV	551	4614	0.07%	0.005%
63	6.565	6.552	6.579	VV	1072	11628	0.18%	0.013%
64	6.599	6.579	6.612	VV	1036	13065	0.20%	0.015%
65	6.628	6.612	6.650	VV	2076	22621	0.35%	0.025%
66	6.664	6.650	6.688	VV	751	9964	0.15%	0.011%
67	6.701	6.688	6.720	VV	1049	9056	0.14%	0.010%
68	6.741	6.720	6.749	PV	387	3701	0.06%	0.004%
69	6.763	6.749	6.777	VV	402	5549	0.08%	0.006%
70	6.802	6.777	6.832	VV	865	14909	0.23%	0.017%
71	6.859	6.832	6.877	VV	1866	24513	0.37%	0.028%
72	6.884	6.877	6.902	VV	654	7847	0.12%	0.009%
73	6.921	6.902	6.955	VV	1387	27737	0.42%	0.031%
74	6.975	6.955	6.991	VV	1796	26315	0.40%	0.030%
75	6.999	6.991	7.014	VV	1209	13582	0.21%	0.015%
76	7.029	7.014	7.070	VV	1276	27709	0.42%	0.031%
77	7.102	7.070	7.144	VV	10203	114029	1.74%	0.128%
78	7.153	7.144	7.166	VV	422	3803	0.06%	0.004%
79	7.182	7.166	7.197	VV	531	6068	0.09%	0.007%
80	7.210	7.197	7.217	VV	442	4341	0.07%	0.005%
81	7.238	7.217	7.251	VV	6446	64825	0.99%	0.073%
82	7.263	7.251	7.288	VV	3749	43916	0.67%	0.049%
83	7.294	7.288	7.298	VV	181	1103	0.02%	0.001%
84	7.316	7.298	7.333	VV	937	11609	0.18%	0.013%
85	7.340	7.333	7.348	VV	539	3299	0.05%	0.004%
86	7.368	7.348	7.382	VV	906	10850	0.17%	0.012%
87	7.397	7.382	7.425	VV	1924	26583	0.41%	0.030%
88	7.437	7.425	7.442	VV	529	4485	0.07%	0.005%
89	7.461	7.442	7.479	VV	686	12077	0.18%	0.014%

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90	7.492	7.479	7.517	VV	1012	11560	0.18%	0.013%
91	7.527	7.517	7.535	PV	246	1856	0.03%	0.002%
92	7.543	7.535	7.553	VV	421	3199	0.05%	0.004%
93	7.560	7.553	7.567	VV	432	2644	0.04%	0.003%
94	7.578	7.567	7.599	VV	392	6282	0.10%	0.007%
95	7.631	7.599	7.649	VV	983	15918	0.24%	0.018%
96	7.663	7.649	7.681	VV	1527	15933	0.24%	0.018%
97	7.717	7.681	7.780	VV	665677	6318482	96.63%	7.091%
98	7.790	7.780	7.795	VV	441	3417	0.05%	0.004%
99	7.826	7.795	7.868	VV	3570	52156	0.80%	0.059%
100	7.880	7.868	7.908	VV	610	8438	0.13%	0.009%
101	7.926	7.908	7.935	VV	506	5108	0.08%	0.006%
102	7.982	7.935	8.011	VV	2417	48037	0.73%	0.054%
103	8.023	8.011	8.037	VV	608	7406	0.11%	0.008%
104	8.051	8.037	8.056	VV	718	7022	0.11%	0.008%
105	8.079	8.056	8.086	VV	3209	34171	0.52%	0.038%
106	8.094	8.086	8.137	VV	3204	37597	0.58%	0.042%
107	8.169	8.137	8.176	VV	891	14121	0.22%	0.016%
108	8.198	8.176	8.213	VV	7563	81033	1.24%	0.091%
109	8.225	8.213	8.242	VV	4555	47426	0.73%	0.053%
110	8.269	8.242	8.293	VV	3126	47175	0.72%	0.053%
111	8.305	8.293	8.311	VV	452	3401	0.05%	0.004%
112	8.329	8.311	8.338	VV	1369	14867	0.23%	0.017%
113	8.381	8.338	8.447	VV	21420	292385	4.47%	0.328%
114	8.471	8.447	8.489	VV	2144	29555	0.45%	0.033%
115	8.504	8.489	8.539	VV	956	16251	0.25%	0.018%
116	8.582	8.539	8.609	VV	446819	4407471	67.41%	4.947%
117	8.631	8.609	8.654	VV	2170	35350	0.54%	0.040%
118	8.677	8.654	8.702	VV	16307	169118	2.59%	0.190%
119	8.722	8.702	8.745	VV	3822	59379	0.91%	0.067%
120	8.754	8.745	8.767	VV	1711	17778	0.27%	0.020%
121	8.787	8.767	8.798	VV	1578	24236	0.37%	0.027%
122	8.804	8.798	8.817	VV	1464	14806	0.23%	0.017%
123	8.827	8.817	8.846	VV	1416	19110	0.29%	0.021%
124	8.871	8.846	8.884	VV	1171	17495	0.27%	0.020%
125	8.890	8.884	8.898	VV	1005	7982	0.12%	0.009%
126	8.917	8.898	8.930	VV	3616	44158	0.68%	0.050%
127	8.948	8.930	8.966	VV	11938	126159	1.93%	0.142%
128	8.990	8.966	9.013	VV	90278	910119	13.92%	1.021%
129	9.019	9.013	9.029	VV	2323	21143	0.32%	0.024%
130	9.032	9.029	9.057	VV	2277	28984	0.44%	0.033%
131	9.083	9.057	9.099	VV	4199	67467	1.03%	0.076%
132	9.123	9.099	9.165	VV	5079	104447	1.60%	0.117%
133	9.180	9.165	9.199	VV	927	10747	0.16%	0.012%
134	9.203	9.199	9.217	VV	243	2678	0.04%	0.003%
135	9.239	9.217	9.256	VV	4015	49412	0.76%	0.055%
136	9.272	9.256	9.299	VV	4135	49739	0.76%	0.056%
137	9.319	9.299	9.340	VV	2204	31156	0.48%	0.035%
138	9.375	9.340	9.398	VV	4541	66432	1.02%	0.075%
139	9.417	9.398	9.435	VV	1820	26015	0.40%	0.029%
140	9.457	9.435	9.505	VV	24391	269949	4.13%	0.303%
141	9.537	9.505	9.570	VV	5379	90903	1.39%	0.102%

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142	9.580	9.570	9.590	VV	2180	22253	0.34%	0.025%
143	9.610	9.590	9.629	VV	5813	82300	1.26%	0.092%
144	9.638	9.629	9.651	VV	2589	27537	0.42%	0.031%
145	9.670	9.651	9.687	VV	4452	60277	0.92%	0.068%
146	9.706	9.687	9.714	VV	4618	54522	0.83%	0.061%
147	9.734	9.714	9.758	VV	42240	442541	6.77%	0.497%
148	9.779	9.758	9.815	VV	8150	110901	1.70%	0.124%
149	9.830	9.815	9.847	VV	1294	18555	0.28%	0.021%
150	9.878	9.847	9.919	VV	9319	156117	2.39%	0.175%
151	9.941	9.919	9.960	VV	2531	33844	0.52%	0.038%
152	9.978	9.960	10.002	VV	1524	22832	0.35%	0.026%
153	10.042	10.002	10.053	VV	1654	25542	0.39%	0.029%
154	10.060	10.053	10.084	VV	1604	17078	0.26%	0.019%
155	10.088	10.084	10.110	VV	312	2723	0.04%	0.003%
156	10.145	10.110	10.156	PV	855	11563	0.18%	0.013%
157	10.203	10.156	10.240	VV	3526	74994	1.15%	0.084%
158	10.257	10.240	10.275	VV	1807	26315	0.40%	0.030%
159	10.310	10.275	10.320	VV	3843	61076	0.93%	0.069%
160	10.337	10.320	10.360	VV	6168	84660	1.29%	0.095%
161	10.379	10.360	10.412	VV	4504	71433	1.09%	0.080%
162	10.454	10.412	10.483	VV	5703	112167	1.72%	0.126%
163	10.503	10.483	10.525	VV	11796	155805	2.38%	0.175%
164	10.530	10.525	10.565	VV	2466	38598	0.59%	0.043%
165	10.590	10.565	10.603	VV	2550	42379	0.65%	0.048%
166	10.623	10.603	10.638	VV	7941	99712	1.52%	0.112%
167	10.658	10.638	10.678	VV	11104	169075	2.59%	0.190%
168	10.687	10.678	10.704	VV	3927	46707	0.71%	0.052%
169	10.729	10.704	10.740	VV	3115	57591	0.88%	0.065%
170	10.755	10.740	10.772	VV	5007	62492	0.96%	0.070%
171	10.791	10.772	10.807	VV	2262	36990	0.57%	0.042%
172	10.824	10.807	10.831	VV	3307	32928	0.50%	0.037%
173	10.857	10.831	10.895	VV	200599	2109449	32.26%	2.367%
174	10.930	10.895	10.968	VV	103232	1095808	16.76%	1.230%
175	10.982	10.968	10.995	VV	1316	16603	0.25%	0.019%
176	11.004	10.995	11.017	VV	1268	14883	0.23%	0.017%
177	11.033	11.017	11.054	VV	1910	31294	0.48%	0.035%
178	11.065	11.054	11.085	VV	1099	14144	0.22%	0.016%
179	11.092	11.085	11.097	VV	350	1976	0.03%	0.002%
180	11.138	11.097	11.187	VV	19644	239644	3.67%	0.269%
181	11.217	11.187	11.232	PV	1822	32584	0.50%	0.037%
182	11.255	11.232	11.278	VV	2873	59953	0.92%	0.067%
183	11.301	11.278	11.328	VV	2686	57076	0.87%	0.064%
184	11.393	11.328	11.423	VV	7705	205651	3.15%	0.231%
185	11.455	11.423	11.475	VV	6611	85662	1.31%	0.096%
186	11.504	11.475	11.525	VV	4462	72503	1.11%	0.081%
187	11.544	11.525	11.569	VV	3698	51635	0.79%	0.058%
188	11.582	11.569	11.594	VV	1271	15213	0.23%	0.017%
189	11.629	11.594	11.648	VV	594062	6538611	100.00%	7.338%
190	11.656	11.648	11.671	VV	27293	263363	4.03%	0.296%
191	11.687	11.671	11.710	VV	36750	405104	6.20%	0.455%
192	11.718	11.710	11.728	VV	1709	15214	0.23%	0.017%
193	11.754	11.728	11.759	VV	16398	155883	2.38%	0.175%
194	11.772	11.759	11.789	VV	28253	320033	4.89%	0.359%

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195	11.806	11.789	11.819	VV	21640	243362	3.72%	0.273%
196	11.836	11.819	11.862	VV	26735	315700	4.83%	0.354%
197	11.876	11.862	11.890	VV	1595	16843	0.26%	0.019%
198	11.909	11.890	11.930	VV	2225	28068	0.43%	0.032%
199	11.972	11.930	11.985	VV	3064	59442	0.91%	0.067%
200	12.008	11.985	12.054	VV	17257	335514	5.13%	0.377%
201	12.062	12.054	12.102	VV	4124	72403	1.11%	0.081%
202	12.126	12.102	12.147	VV	22746	260544	3.98%	0.292%
203	12.154	12.147	12.165	VV	3030	29709	0.45%	0.033%
204	12.223	12.165	12.252	VV	149418	1869068	28.59%	2.098%
205	12.273	12.252	12.292	VV	6522	92996	1.42%	0.104%
206	12.303	12.292	12.318	VV	1765	20609	0.32%	0.023%
207	12.329	12.318	12.339	VV	1836	19187	0.29%	0.022%
208	12.376	12.339	12.388	VV	5600	102664	1.57%	0.115%
209	12.398	12.388	12.422	VV	4744	61853	0.95%	0.069%
210	12.445	12.422	12.457	VV	11925	146244	2.24%	0.164%
211	12.461	12.457	12.483	VV	9263	99922	1.53%	0.112%
212	12.501	12.483	12.534	VV	20350	291184	4.45%	0.327%
213	12.555	12.534	12.574	VV	26158	330189	5.05%	0.371%
214	12.591	12.574	12.604	VV	11404	165092	2.52%	0.185%
215	12.618	12.604	12.639	VV	12133	175891	2.69%	0.197%
216	12.675	12.639	12.735	VV	394118	4450719	68.07%	4.995%
217	12.767	12.735	12.775	PV	2690	30555	0.47%	0.034%
218	12.805	12.775	12.817	VV	8360	136785	2.09%	0.154%
219	12.829	12.817	12.841	VV	8960	103875	1.59%	0.117%
220	12.859	12.841	12.940	VV	13483	418691	6.40%	0.470%
221	12.972	12.940	12.995	VV	332753	3744469	57.27%	4.203%
222	13.024	12.995	13.035	VV	30619	366674	5.61%	0.412%
223	13.055	13.035	13.084	VV	154571	1761762	26.94%	1.977%
224	13.105	13.084	13.120	VV	4961	71789	1.10%	0.081%
225	13.139	13.120	13.162	VV	13072	167977	2.57%	0.189%
226	13.173	13.162	13.193	VV	3002	31386	0.48%	0.035%
227	13.233	13.193	13.254	PV	22699	304976	4.66%	0.342%
228	13.274	13.254	13.282	VV	8211	124555	1.90%	0.140%
229	13.299	13.282	13.340	VV	10699	189634	2.90%	0.213%
230	13.363	13.340	13.382	VV	13929	180064	2.75%	0.202%
231	13.394	13.382	13.401	VV	6031	64864	0.99%	0.073%
232	13.446	13.401	13.493	VV	84504	1490156	22.79%	1.672%
233	13.554	13.493	13.591	VV	54855	985882	15.08%	1.106%
234	13.622	13.591	13.638	VV	8607	126043	1.93%	0.141%
235	13.661	13.638	13.680	VV	21901	304106	4.65%	0.341%
236	13.700	13.680	13.721	VV	33318	411272	6.29%	0.462%
237	13.744	13.721	13.768	VV	12424	210981	3.23%	0.237%
238	13.830	13.768	13.851	VV	33915	743527	11.37%	0.834%
239	13.870	13.851	13.910	VV	26157	377949	5.78%	0.424%
240	13.942	13.910	13.962	VV	8768	160117	2.45%	0.180%
241	13.978	13.962	13.997	VV	4803	84653	1.29%	0.095%
242	14.001	13.997	14.020	VV	3610	44554	0.68%	0.050%
243	14.036	14.020	14.049	VV	4339	60083	0.92%	0.067%
244	14.053	14.049	14.070	VV	3216	34148	0.52%	0.038%
245	14.076	14.070	14.112	VV	2605	33685	0.52%	0.038%
246	14.136	14.112	14.157	VV	4342	60749	0.93%	0.068%

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247	14.168	14.157	14.173	VV	1392	12303	0.19%	0.014%
248	14.192	14.173	14.207	VV	3261	40762	0.62%	0.046%
249	14.243	14.207	14.264	VV	14261	290688	4.45%	0.326%
250	14.284	14.264	14.321	VV	45453	630000	9.64%	0.707%
251	14.335	14.321	14.347	VV	4438	60052	0.92%	0.067%
252	14.388	14.347	14.426	VV	9837	289568	4.43%	0.325%
253	14.465	14.426	14.487	VV	30301	580938	8.88%	0.652%
254	14.495	14.487	14.506	VV	9079	95730	1.46%	0.107%
255	14.529	14.506	14.551	VV	63083	805813	12.32%	0.904%
256	14.586	14.551	14.617	VV	40508	640675	9.80%	0.719%
257	14.654	14.617	14.669	VV	8042	150277	2.30%	0.169%
258	14.712	14.669	14.759	VV	11536	335998	5.14%	0.377%
259	14.776	14.759	14.805	VV	5082	108087	1.65%	0.121%
260	14.841	14.805	14.860	VV	180332	2317314	35.44%	2.601%
261	14.883	14.860	14.910	VV	201034	2597526	39.73%	2.915%
262	14.928	14.910	14.959	VV	10193	182943	2.80%	0.205%
263	15.001	14.959	15.023	VV	34330	587619	8.99%	0.659%
264	15.033	15.023	15.055	VV	9100	145513	2.23%	0.163%
265	15.075	15.055	15.112	VV	10551	175315	2.68%	0.197%
266	15.138	15.112	15.164	VV	14412	292645	4.48%	0.328%
267	15.177	15.164	15.237	VV	17676	381552	5.84%	0.428%
268	15.280	15.237	15.305	VV	35045	574196	8.78%	0.644%
269	15.316	15.305	15.342	VV	9977	156104	2.39%	0.175%
270	15.356	15.342	15.365	VV	3169	39045	0.60%	0.044%
271	15.424	15.365	15.435	VV	6710	197693	3.02%	0.222%
272	15.468	15.435	15.479	VV	12463	233572	3.57%	0.262%
273	15.511	15.479	15.531	VV	52247	753733	11.53%	0.846%
274	15.547	15.531	15.578	VV	23677	345102	5.28%	0.387%
275	15.591	15.578	15.602	VV	6566	81755	1.25%	0.092%
276	15.652	15.602	15.660	VV	21553	451398	6.90%	0.507%
277	15.670	15.660	15.714	VV	23843	413446	6.32%	0.464%
278	15.749	15.714	15.773	VV	18584	303665	4.64%	0.341%
279	15.792	15.773	15.812	VV	4720	86247	1.32%	0.097%
280	15.831	15.812	15.846	VV	12276	157245	2.40%	0.176%
281	15.861	15.846	15.884	VV	12533	164816	2.52%	0.185%
282	15.903	15.884	15.915	VV	4755	65785	1.01%	0.074%
283	15.930	15.915	15.964	VV	6491	127860	1.96%	0.144%
284	15.981	15.964	16.001	VV	3285	56916	0.87%	0.064%
285	16.011	16.001	16.023	VV	2550	29647	0.45%	0.033%
286	16.038	16.023	16.055	VV	3048	40788	0.62%	0.046%
287	16.066	16.055	16.079	VV	1751	20372	0.31%	0.023%
288	16.117	16.079	16.134	VV	17528	287442	4.40%	0.323%
289	16.144	16.134	16.161	VV	7504	86629	1.32%	0.097%
290	16.177	16.161	16.191	VV	5770	75965	1.16%	0.085%
291	16.228	16.191	16.246	VV	14226	278265	4.26%	0.312%
292	16.256	16.246	16.266	VV	5823	66036	1.01%	0.074%
293	16.291	16.266	16.302	VV	13547	203106	3.11%	0.228%
294	16.321	16.302	16.346	VV	26379	377592	5.77%	0.424%
295	16.398	16.346	16.414	VV	233485	3396972	51.95%	3.812%
296	16.424	16.414	16.454	VV	104628	1104269	16.89%	1.239%
297	16.475	16.454	16.497	VV	5003	91621	1.40%	0.103%
298	16.523	16.497	16.544	VV	42807	538472	8.24%	0.604%
299	16.559	16.544	16.599	VV	12317	224236	3.43%	0.252%

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300	16.616	16.599	16.625	VV	4350	55327	0.85%	0.062%
301	16.642	16.625	16.660	VV	9093	129200	1.98%	0.145%
302	16.715	16.660	16.742	VV	146740	2735756	41.84%	3.070%
303	16.773	16.742	16.821	VV	154174	1981468	30.30%	2.224%
304	16.842	16.821	16.848	VV	5118	56959	0.87%	0.064%
305	16.871	16.848	16.897	VV	47820	614795	9.40%	0.690%
306	16.919	16.897	16.930	VV	10100	139499	2.13%	0.157%
307	16.946	16.930	16.965	VV	11058	189117	2.89%	0.212%
308	16.985	16.965	16.990	VV	8949	116058	1.77%	0.130%
309	17.012	16.990	17.060	VV	15856	424653	6.49%	0.477%
310	17.074	17.060	17.094	VV	7114	97252	1.49%	0.109%
311	17.135	17.094	17.164	VV	22044	483576	7.40%	0.543%
312	17.173	17.164	17.199	VV	9836	123706	1.89%	0.139%
313	17.231	17.199	17.250	VV	24463	349615	5.35%	0.392%
314	17.268	17.250	17.283	VV	17408	266068	4.07%	0.299%
315	17.294	17.283	17.331	VV	13861	219968	3.36%	0.247%
316	17.352	17.331	17.369	VV	9869	153786	2.35%	0.173%
317	17.380	17.369	17.395	VV	6266	79068	1.21%	0.089%
318	17.426	17.395	17.450	VV	11828	244777	3.74%	0.275%
319	17.465	17.450	17.485	VV	7040	106006	1.62%	0.119%
320	17.491	17.485	17.506	VV	2906	30249	0.46%	0.034%
321	17.543	17.506	17.589	VV	5065	176679	2.70%	0.198%
322	17.608	17.589	17.627	VV	3795	52515	0.80%	0.059%
323	17.634	17.627	17.654	VV	1384	14083	0.22%	0.016%
324	17.687	17.654	17.709	PV	6488	125624	1.92%	0.141%
325	17.740	17.709	17.752	VV	11500	216708	3.31%	0.243%
326	17.760	17.752	17.784	VV	9636	122365	1.87%	0.137%
327	17.819	17.784	17.826	VV	10589	144952	2.22%	0.163%
328	17.849	17.826	17.879	VV	22911	483144	7.39%	0.542%
329	17.899	17.879	17.919	VV	16612	279431	4.27%	0.314%
330	17.924	17.919	17.955	VV	10373	143708	2.20%	0.161%
331	17.980	17.955	18.012	VV	12443	217563	3.33%	0.244%
332	18.043	18.012	18.065	VV	35572	547161	8.37%	0.614%
333	18.070	18.065	18.089	VV	11762	130249	1.99%	0.146%
334	18.135	18.089	18.158	VV	119207	1875214	28.68%	2.105%
335	18.178	18.158	18.203	VV	25669	465858	7.12%	0.523%
336	18.216	18.203	18.240	VV	11044	153485	2.35%	0.172%
337	18.267	18.240	18.282	VV	25522	346290	5.30%	0.389%
338	18.298	18.282	18.359	VV	28214	480464	7.35%	0.539%
339	18.390	18.359	18.415	PV	108762	1316311	20.13%	1.477%
340	18.427	18.415	18.439	VV	1475	13514	0.21%	0.015%
341	18.469	18.439	18.487	PV	4786	49352	0.75%	0.055%
Sum of corrected areas:						89100947		

Aromatic EPH 081125.M Mon Aug 25 02:51:22 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S03	SDG No.:	Q2832
Lab Sample ID:	Q2832-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055476.D	1	08/21/25	08/25/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.62	J	0.15	1.06	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.98		0.12	0.71	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.94	J	0.14	1.06	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	1.87		0.56	1.42	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	36.6		1.26	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	68.5		40 - 140	137%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2832-05	Acq On:	25 Aug 2025 10:53
Client Sample ID:	TG-S03	Operator:	YP\AJ
Data file:	FE055476.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.318	6.954	1021248	8.745	300	ug/ml
Aliphatic C12-C16	6.955	10.408	1729389	13.81	200	ug/ml
Aliphatic C16-C21	10.409	13.788	1664343	13.167	300	ug/ml
Aliphatic C21-C28	13.789	17.461	3172595	26.327	400	ug/ml
Aliphatic C28-C40	17.462	22.488	58837846	516.179	600	ug/ml
Aliphatic EPH	3.318	22.488	66425421	578.228		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.525	13.525	7366700	68.51		ug/ml
Aliphatic C9-C28	3.318	17.461	7587575	62.049	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055476.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 10:53
Operator : YP\AJ
Sample : Q2832-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 11:26:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 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...	13.525	7366700	68.512 ug/ml
Spiked Amount 50.000		Recovery	= 137.02%

Target Compounds

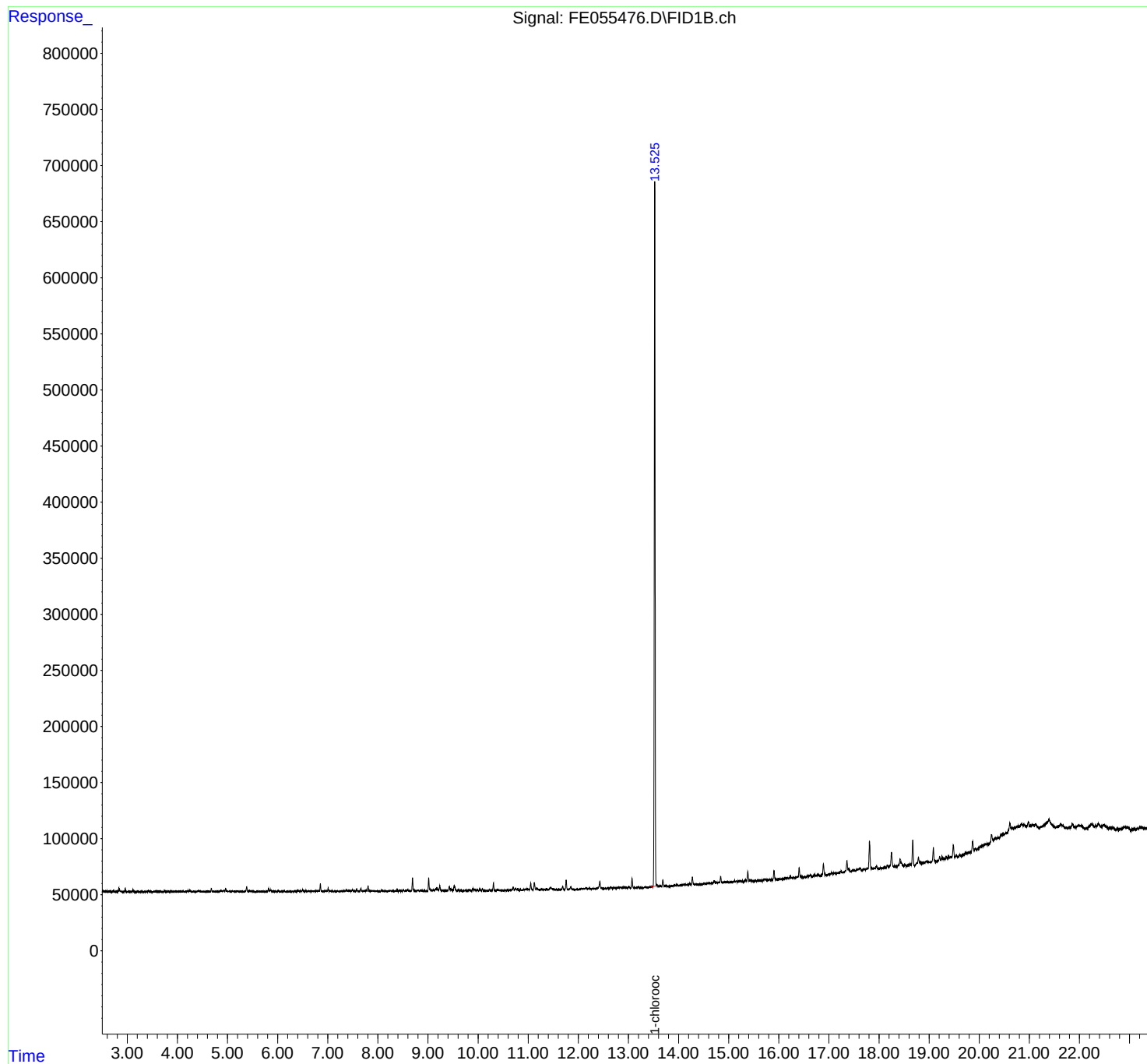
(f)=RT Delta > 1/2 Window

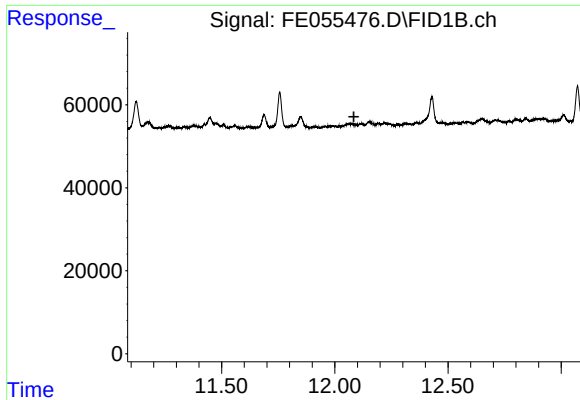
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055476.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 10:53
Operator : YP\AJ
Sample : Q2832-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 11:26:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

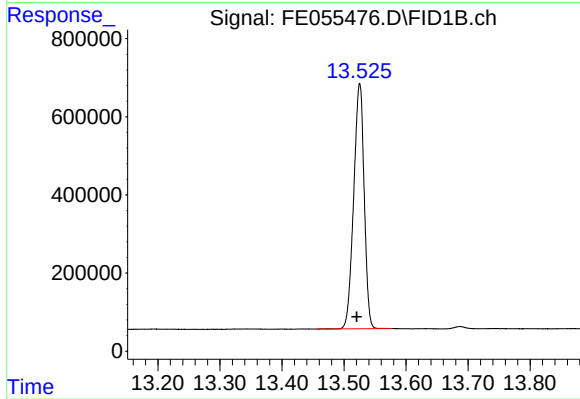
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.084 min
Response: 0
Conc: N.D.



#12 1-chlorooctadecane (SURR)

R.T.: 13.525 min
Delta R.T.: 0.005 min
Response: 7366700
Conc: 68.51 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055476.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 10:53
Sample : Q2832-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.833	2.804	2.870	BV	2654	42511	0.57%	0.057%
2	2.890	2.870	2.927	VV	309	4229	0.06%	0.006%
3	2.955	2.927	2.988	PV	2093	23291	0.31%	0.031%
4	2.995	2.988	3.021	VV	175	1369	0.02%	0.002%
5	3.055	3.021	3.089	PV	382	5749	0.08%	0.008%
6	3.112	3.089	3.171	VV	1951	20015	0.27%	0.027%
7	3.200	3.171	3.216	VV	320	5772	0.08%	0.008%
8	3.231	3.216	3.261	VV	310	3942	0.05%	0.005%
9	3.270	3.261	3.290	VV	114	1355	0.02%	0.002%
10	3.298	3.290	3.330	VV	135	2212	0.03%	0.003%
11	3.351	3.330	3.371	VV	306	3564	0.05%	0.005%
12	3.419	3.371	3.459	VV	1295	21936	0.29%	0.030%
13	3.469	3.459	3.509	VV	250	4329	0.06%	0.006%
14	3.538	3.509	3.554	PV	293	3883	0.05%	0.005%
15	3.567	3.554	3.581	VV	449	5059	0.07%	0.007%
16	3.596	3.581	3.620	VV	449	6944	0.09%	0.009%
17	3.646	3.620	3.699	VV	439	13079	0.18%	0.018%
18	3.741	3.699	3.789	VV	866	18857	0.25%	0.025%
19	3.811	3.789	3.838	VV	550	8884	0.12%	0.012%
20	3.869	3.838	3.921	VV	886	18039	0.24%	0.024%
21	3.953	3.921	3.989	VV	863	15154	0.20%	0.020%
22	4.008	3.989	4.048	VV	560	9788	0.13%	0.013%
23	4.062	4.048	4.086	VV	589	7304	0.10%	0.010%
24	4.116	4.086	4.170	VV	666	15867	0.21%	0.021%
25	4.215	4.170	4.231	VV	1196	18942	0.25%	0.026%
26	4.250	4.231	4.271	VV	1834	21670	0.29%	0.029%
27	4.282	4.271	4.306	VV	399	5920	0.08%	0.008%
28	4.325	4.306	4.358	VV	773	9310	0.13%	0.013%
29	4.420	4.358	4.437	VV	1198	25538	0.34%	0.035%
30	4.451	4.437	4.478	VV	521	9057	0.12%	0.012%
31	4.488	4.478	4.498	VV	340	3412	0.05%	0.005%
32	4.511	4.498	4.538	VV	370	5189	0.07%	0.007%
33	4.576	4.538	4.603	VV	433	9799	0.13%	0.013%
34	4.619	4.603	4.647	VV	375	6517	0.09%	0.009%
35	4.676	4.647	4.704	VV	2966	35764	0.48%	0.048%
36	4.719	4.704	4.740	VV	440	6294	0.08%	0.009%

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37	4.789	4.740	4.824	VV	359	13547	0.18%	0.018%
38	4.866	4.824	4.884	VV	1488	24963	0.34%	0.034%
39	4.897	4.884	4.909	VV	742	8787	0.12%	0.012%
40	4.929	4.909	4.944	VV	1637	19654	0.26%	0.027%
41	4.962	4.944	4.980	VV	3172	33392	0.45%	0.045%
42	4.991	4.980	5.007	VV	866	9295	0.12%	0.013%
43	5.024	5.007	5.058	VV	481	11360	0.15%	0.015%
44	5.094	5.058	5.114	VV	599	12107	0.16%	0.016%
45	5.137	5.114	5.164	VV	514	11103	0.15%	0.015%
46	5.198	5.164	5.234	VV	832	14775	0.20%	0.020%
47	5.258	5.234	5.274	VV	263	4492	0.06%	0.006%
48	5.293	5.274	5.318	VV	444	7170	0.10%	0.010%
49	5.381	5.318	5.414	VV	4445	70503	0.95%	0.095%
50	5.441	5.414	5.459	VV	1300	19465	0.26%	0.026%
51	5.469	5.459	5.482	VV	653	6270	0.08%	0.008%
52	5.498	5.482	5.544	VV	757	12150	0.16%	0.016%
53	5.556	5.544	5.572	PV	263	2411	0.03%	0.003%
54	5.591	5.572	5.611	VV	356	5800	0.08%	0.008%
55	5.625	5.611	5.658	VV	508	8885	0.12%	0.012%
56	5.669	5.658	5.684	VV	334	4110	0.06%	0.006%
57	5.694	5.684	5.714	VV	422	5114	0.07%	0.007%
58	5.730	5.714	5.748	VV	287	4543	0.06%	0.006%
59	5.818	5.748	5.844	VV	3093	46371	0.62%	0.063%
60	5.862	5.844	5.884	VV	1710	22395	0.30%	0.030%
61	5.921	5.884	5.980	VV	543	16026	0.22%	0.022%
62	6.012	5.980	6.054	VV	1129	20134	0.27%	0.027%
63	6.081	6.054	6.104	VV	328	6678	0.09%	0.009%
64	6.130	6.104	6.158	VV	758	14305	0.19%	0.019%
65	6.189	6.158	6.202	VV	326	5425	0.07%	0.007%
66	6.214	6.202	6.224	VV	253	2866	0.04%	0.004%
67	6.250	6.224	6.280	VV	383	7058	0.09%	0.010%
68	6.299	6.280	6.324	PV	335	6395	0.09%	0.009%
69	6.357	6.324	6.383	VV	490	12528	0.17%	0.017%
70	6.402	6.383	6.434	VV	975	17501	0.24%	0.024%
71	6.452	6.434	6.478	VV	893	12237	0.16%	0.017%
72	6.498	6.478	6.526	VV	1964	25829	0.35%	0.035%
73	6.560	6.526	6.579	VV	1008	16980	0.23%	0.023%
74	6.636	6.579	6.685	VV	707	26561	0.36%	0.036%
75	6.704	6.685	6.714	VV	539	7744	0.10%	0.010%
76	6.729	6.714	6.744	VV	567	8421	0.11%	0.011%
77	6.769	6.744	6.801	VV	827	18749	0.25%	0.025%
78	6.853	6.801	6.884	VV	6953	86662	1.16%	0.117%
79	6.894	6.884	6.908	VV	315	4568	0.06%	0.006%
80	6.942	6.908	6.960	VV	936	15820	0.21%	0.021%
81	6.976	6.960	6.987	VV	704	8974	0.12%	0.012%
82	7.008	6.987	7.030	VV	3023	36325	0.49%	0.049%
83	7.045	7.030	7.066	VV	791	12541	0.17%	0.017%
84	7.083	7.066	7.114	VV	882	11333	0.15%	0.015%
85	7.137	7.114	7.160	VV	232	4456	0.06%	0.006%
86	7.189	7.160	7.212	VV	682	10929	0.15%	0.015%
87	7.231	7.212	7.241	VV	273	3918	0.05%	0.005%
88	7.257	7.241	7.285	VV	498	8466	0.11%	0.011%
89	7.311	7.285	7.341	VV	788	12538	0.17%	0.017%

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90	7.366	7.341	7.403	VV	1467	28593	0.38%	0.039%
91	7.429	7.403	7.458	VV	1172	23696	0.32%	0.032%
92	7.495	7.458	7.514	VV	1425	26690	0.36%	0.036%
93	7.534	7.514	7.551	VV	696	8592	0.12%	0.012%
94	7.578	7.551	7.623	VV	2710	34703	0.47%	0.047%
95	7.661	7.623	7.697	VV	2829	38970	0.52%	0.053%
96	7.721	7.697	7.747	VV	554	12785	0.17%	0.017%
97	7.768	7.747	7.782	VV	1014	14760	0.20%	0.020%
98	7.804	7.782	7.829	VV	5021	56919	0.77%	0.077%
99	7.867	7.829	7.888	VV	589	16342	0.22%	0.022%
100	7.897	7.888	7.918	VV	883	9911	0.13%	0.013%
101	7.930	7.918	7.954	VV	333	4729	0.06%	0.006%
102	7.978	7.954	8.048	VV	470	10765	0.14%	0.015%
103	8.071	8.048	8.091	PV	1407	14819	0.20%	0.020%
104	8.108	8.091	8.133	VV	400	6787	0.09%	0.009%
105	8.154	8.133	8.191	VV	591	9254	0.12%	0.013%
106	8.248	8.191	8.281	VV	806	22528	0.30%	0.030%
107	8.296	8.281	8.324	VV	488	7884	0.11%	0.011%
108	8.337	8.324	8.358	VV	464	5129	0.07%	0.007%
109	8.382	8.358	8.409	VV	2267	27771	0.37%	0.038%
110	8.439	8.409	8.464	VV	1405	19357	0.26%	0.026%
111	8.478	8.464	8.488	VV	357	3943	0.05%	0.005%
112	8.510	8.488	8.529	VV	1767	20536	0.28%	0.028%
113	8.543	8.529	8.558	VV	395	6580	0.09%	0.009%
114	8.597	8.558	8.658	VV	1647	37747	0.51%	0.051%
115	8.691	8.658	8.764	VV	12069	153445	2.06%	0.207%
116	8.790	8.764	8.824	VV	836	21304	0.29%	0.029%
117	8.862	8.824	8.911	VV	1185	28996	0.39%	0.039%
118	8.927	8.911	8.951	VV	603	7268	0.10%	0.010%
119	8.970	8.951	8.984	VV	193	2737	0.04%	0.004%
120	9.013	8.984	9.084	VV	11835	159546	2.14%	0.216%
121	9.102	9.084	9.126	VV	946	20040	0.27%	0.027%
122	9.163	9.126	9.213	VV	2602	84781	1.14%	0.115%
123	9.234	9.213	9.275	VV	4736	74706	1.00%	0.101%
124	9.300	9.275	9.324	VV	740	15110	0.20%	0.020%
125	9.354	9.324	9.373	VV	636	12354	0.17%	0.017%
126	9.424	9.373	9.445	VV	4042	71031	0.95%	0.096%
127	9.457	9.445	9.495	VV	1997	39017	0.52%	0.053%
128	9.523	9.495	9.591	VV	5111	107680	1.45%	0.146%
129	9.610	9.591	9.638	VV	1134	16071	0.22%	0.022%
130	9.661	9.638	9.691	VV	662	9964	0.13%	0.013%
131	9.712	9.691	9.724	VV	338	4658	0.06%	0.006%
132	9.744	9.724	9.789	VV	525	13357	0.18%	0.018%
133	9.827	9.789	9.867	VV	1009	25473	0.34%	0.034%
134	9.896	9.867	9.914	VV	2161	34223	0.46%	0.046%
135	9.926	9.914	9.959	VV	1379	25772	0.35%	0.035%
136	9.983	9.959	10.007	VV	855	17259	0.23%	0.023%
137	10.031	10.007	10.058	VV	1764	25434	0.34%	0.034%
138	10.085	10.058	10.118	VV	2256	30534	0.41%	0.041%
139	10.132	10.118	10.161	VV	338	5418	0.07%	0.007%
140	10.179	10.161	10.204	VV	207	3160	0.04%	0.004%
141	10.225	10.204	10.278	VV	1152	22010	0.30%	0.030%

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142	10.307	10.278	10.358	VV	7280	85508	1.15%	0.116%
143	10.382	10.358	10.464	VV	823	33263	0.45%	0.045%
144	10.479	10.464	10.501	VV	450	5648	0.08%	0.008%
145	10.523	10.501	10.538	PV	243	2804	0.04%	0.004%
146	10.587	10.538	10.602	VV	570	11241	0.15%	0.015%
147	10.631	10.602	10.641	VV	625	9995	0.13%	0.014%
148	10.655	10.641	10.671	VV	653	10251	0.14%	0.014%
149	10.699	10.671	10.721	VV	3396	52756	0.71%	0.071%
150	10.748	10.721	10.767	VV	2045	35795	0.48%	0.048%
151	10.787	10.767	10.826	VV	1456	31706	0.43%	0.043%
152	10.843	10.826	10.879	VV	824	16049	0.22%	0.022%
153	10.912	10.879	10.924	VV	872	15653	0.21%	0.021%
154	10.951	10.924	10.963	VV	1071	20498	0.28%	0.028%
155	10.981	10.963	11.014	VV	1401	33284	0.45%	0.045%
156	11.050	11.014	11.088	VV	6368	96936	1.30%	0.131%
157	11.122	11.088	11.150	VV	6927	109438	1.47%	0.148%
158	11.176	11.150	11.208	VV	1916	42547	0.57%	0.058%
159	11.224	11.208	11.233	VV	573	7327	0.10%	0.010%
160	11.265	11.233	11.288	VV	874	20510	0.28%	0.028%
161	11.304	11.288	11.321	VV	481	8227	0.11%	0.011%
162	11.338	11.321	11.352	VV	593	8952	0.12%	0.012%
163	11.376	11.352	11.406	VV	947	21515	0.29%	0.029%
164	11.448	11.406	11.494	VV	2747	73484	0.99%	0.099%
165	11.507	11.494	11.528	VV	1120	13141	0.18%	0.018%
166	11.558	11.528	11.601	VV	777	15545	0.21%	0.021%
167	11.618	11.601	11.637	VV	423	6827	0.09%	0.009%
168	11.688	11.637	11.715	VV	3297	48345	0.65%	0.065%
169	11.757	11.715	11.788	VV	8647	111882	1.50%	0.151%
170	11.849	11.788	11.893	VV	2703	53589	0.72%	0.072%
171	11.914	11.893	11.932	VV	347	3483	0.05%	0.005%
172	11.981	11.932	12.020	PV	279	10149	0.14%	0.014%
173	12.065	12.020	12.100	VV	825	25347	0.34%	0.034%
174	12.115	12.100	12.131	VV	754	11011	0.15%	0.015%
175	12.153	12.131	12.181	VV	1136	23240	0.31%	0.031%
176	12.192	12.181	12.204	VV	734	8306	0.11%	0.011%
177	12.219	12.204	12.263	VV	816	18536	0.25%	0.025%
178	12.278	12.263	12.291	VV	402	4746	0.06%	0.006%
179	12.312	12.291	12.341	VV	550	11612	0.16%	0.016%
180	12.362	12.341	12.376	VV	725	11388	0.15%	0.015%
181	12.429	12.376	12.458	VV	6874	119290	1.60%	0.161%
182	12.476	12.458	12.499	VV	604	11737	0.16%	0.016%
183	12.525	12.499	12.548	VV	436	9740	0.13%	0.013%
184	12.568	12.548	12.614	VV	669	17076	0.23%	0.023%
185	12.651	12.614	12.687	VV	1320	33261	0.45%	0.045%
186	12.708	12.687	12.753	VV	955	24412	0.33%	0.033%
187	12.769	12.753	12.781	VV	624	7305	0.10%	0.010%
188	12.801	12.781	12.825	VV	1032	19770	0.27%	0.027%
189	12.843	12.825	12.862	VV	1155	17524	0.24%	0.024%
190	12.923	12.862	12.960	VV	1032	45708	0.61%	0.062%
191	13.011	12.960	13.046	VV	1727	36166	0.49%	0.049%
192	13.072	13.046	13.118	VV	8641	107470	1.44%	0.145%
193	13.135	13.118	13.154	VV	370	6601	0.09%	0.009%
194	13.195	13.154	13.276	VV	728	23220	0.31%	0.031%

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195	13.294	13.276	13.308	PV	133	1846	0.02%	0.002%
196	13.345	13.308	13.380	PV	741	20374	0.27%	0.028%
197	13.399	13.380	13.417	VV	340	4940	0.07%	0.007%
198	13.438	13.417	13.454	VV	534	8627	0.12%	0.012%
199	13.475	13.454	13.484	VV	878	11757	0.16%	0.016%
200	13.525	13.484	13.610	VV	628618	7439270	100.00%	10.056%
201	13.631	13.610	13.656	VV	937	17970	0.24%	0.024%
202	13.687	13.656	13.721	VV	6140	86136	1.16%	0.116%
203	13.743	13.721	13.788	VV	819	21650	0.29%	0.029%
204	13.802	13.788	13.835	VV	392	5959	0.08%	0.008%
205	13.911	13.835	13.931	PV	792	24997	0.34%	0.034%
206	13.963	13.931	14.013	VV	1017	27968	0.38%	0.038%
207	14.035	14.013	14.050	VV	486	7966	0.11%	0.011%
208	14.118	14.050	14.168	VV	1038	43921	0.59%	0.059%
209	14.223	14.168	14.251	VV	1663	37978	0.51%	0.051%
210	14.275	14.251	14.331	VV	7307	108296	1.46%	0.146%
211	14.338	14.331	14.352	VV	497	5798	0.08%	0.008%
212	14.372	14.352	14.385	VV	441	6747	0.09%	0.009%
213	14.433	14.385	14.454	VV	417	11655	0.16%	0.016%
214	14.459	14.454	14.468	VV	321	1715	0.02%	0.002%
215	14.503	14.468	14.550	VV	1012	27282	0.37%	0.037%
216	14.572	14.550	14.586	VV	684	10620	0.14%	0.014%
217	14.612	14.586	14.628	VV	1264	18805	0.25%	0.025%
218	14.713	14.628	14.735	VV	2580	65779	0.88%	0.089%
219	14.763	14.735	14.771	VV	848	16805	0.23%	0.023%
220	14.803	14.771	14.816	VV	1229	24456	0.33%	0.033%
221	14.839	14.816	14.888	VV	6210	92671	1.25%	0.125%
222	14.903	14.888	14.914	VV	931	13357	0.18%	0.018%
223	14.922	14.914	14.958	VV	918	20468	0.28%	0.028%
224	14.971	14.958	15.017	VV	1027	25523	0.34%	0.035%
225	15.047	15.017	15.066	VV	916	17146	0.23%	0.023%
226	15.114	15.066	15.128	VV	1191	28196	0.38%	0.038%
227	15.145	15.128	15.171	VV	1254	24387	0.33%	0.033%
228	15.192	15.171	15.205	VV	1065	17078	0.23%	0.023%
229	15.218	15.205	15.228	VV	1028	12611	0.17%	0.017%
230	15.242	15.228	15.264	VV	987	17477	0.23%	0.024%
231	15.276	15.264	15.300	VV	867	11476	0.15%	0.016%
232	15.337	15.300	15.358	VV	1760	34607	0.47%	0.047%
233	15.382	15.358	15.411	VV	8959	122765	1.65%	0.166%
234	15.423	15.411	15.474	VV	1155	29275	0.39%	0.040%
235	15.485	15.474	15.504	VV	577	5618	0.08%	0.008%
236	15.534	15.504	15.558	VV	466	9210	0.12%	0.012%
237	15.572	15.558	15.607	PV	726	14118	0.19%	0.019%
238	15.642	15.607	15.674	VV	533	15793	0.21%	0.021%
239	15.723	15.674	15.756	VV	1840	35581	0.48%	0.048%
240	15.773	15.756	15.791	VV	671	9107	0.12%	0.012%
241	15.826	15.791	15.847	VV	565	13645	0.18%	0.018%
242	15.866	15.847	15.873	VV	663	8096	0.11%	0.011%
243	15.904	15.873	15.941	VV	8592	124227	1.67%	0.168%
244	15.951	15.941	15.982	VV	731	12075	0.16%	0.016%
245	16.003	15.982	16.044	PV	444	10747	0.14%	0.015%
246	16.061	16.044	16.074	VV	770	10318	0.14%	0.014%

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247	16.085	16.074	16.090	VV	695	6043	0.08%	0.008%
248	16.099	16.090	16.114	VV	781	9578	0.13%	0.013%
249	16.140	16.114	16.160	VV	1253	25098	0.34%	0.034%
250	16.170	16.160	16.191	VV	1115	16317	0.22%	0.022%
251	16.232	16.191	16.266	VV	2006	58975	0.79%	0.080%
252	16.277	16.266	16.287	VV	1103	12907	0.17%	0.017%
253	16.298	16.287	16.321	VV	1224	20560	0.28%	0.028%
254	16.365	16.321	16.381	VV	1806	41672	0.56%	0.056%
255	16.406	16.381	16.481	VV	9371	174734	2.35%	0.236%
256	16.525	16.481	16.543	VV	1118	32702	0.44%	0.044%
257	16.629	16.543	16.668	VV	2523	114480	1.54%	0.155%
258	16.717	16.668	16.744	VV	2284	75664	1.02%	0.102%
259	17.775	16.744	16.806	VV	2400	70765	0.95%	0.096%
260	16.817	16.806	16.828	VV	1447	16031	0.22%	0.022%
261	16.891	16.828	16.946	VV	11703	255107	3.43%	0.345%
262	16.966	16.946	16.977	VV	1837	29436	0.40%	0.040%
263	17.052	16.977	17.077	VV	3245	143044	1.92%	0.193%
264	17.111	17.077	17.144	VV	3043	108662	1.46%	0.147%
265	17.169	17.144	17.181	VV	3084	63379	0.85%	0.086%
266	17.190	17.181	17.198	VV	3119	29621	0.40%	0.040%
267	17.235	17.198	17.274	VV	3872	146354	1.97%	0.198%
268	17.360	17.274	17.383	VV	13142	351237	4.72%	0.475%
269	17.398	17.383	17.434	VV	6396	145408	1.95%	0.197%
270	17.443	17.434	17.454	VV	3658	42502	0.57%	0.057%
271	17.489	17.454	17.529	VV	4263	176604	2.37%	0.239%
272	17.624	17.529	17.663	VV	5816	369301	4.96%	0.499%
273	17.709	17.663	17.730	VV	4563	167789	2.26%	0.227%
274	17.766	17.730	17.780	VV	5017	136754	1.84%	0.185%
275	17.810	17.780	17.845	VV	28668	529157	7.11%	0.715%
276	17.859	17.845	17.884	VV	5192	110151	1.48%	0.149%
277	17.899	17.884	17.918	VV	5277	94545	1.27%	0.128%
278	17.950	17.918	17.976	VV	6791	187102	2.52%	0.253%
279	17.995	17.976	18.005	VV	4589	74220	1.00%	0.100%
280	18.030	18.005	18.048	VV	5045	114904	1.54%	0.155%
281	18.058	18.048	18.065	VV	4412	41719	0.56%	0.056%
282	18.092	18.065	18.099	VV	4700	92279	1.24%	0.125%
283	18.120	18.099	18.140	VV	5176	116939	1.57%	0.158%
284	18.168	18.140	18.194	VV	6719	184263	2.48%	0.249%
285	18.249	18.194	18.291	VV	17999	507909	6.83%	0.687%
286	18.313	18.291	18.328	VV	5436	116401	1.56%	0.157%
287	18.344	18.328	18.362	VV	5461	101613	1.37%	0.137%
288	18.419	18.362	18.489	VV	11280	540948	7.27%	0.731%
289	18.520	18.489	18.544	VV	6039	180576	2.43%	0.244%
290	18.581	18.544	18.594	VV	5563	154811	2.08%	0.209%
291	18.619	18.594	18.640	VV	6449	161564	2.17%	0.218%
292	18.673	18.640	18.717	VV	28051	551912	7.42%	0.746%
293	18.755	18.717	18.764	VV	7008	176193	2.37%	0.238%
294	18.786	18.764	18.845	VV	12288	399757	5.37%	0.540%
295	18.855	18.845	18.876	VV	6918	121147	1.63%	0.164%
296	18.898	18.876	18.911	VV	6873	136613	1.84%	0.185%
297	18.940	18.911	18.968	VV	8143	257836	3.47%	0.349%
298	18.988	18.968	19.024	VV	7514	240116	3.23%	0.325%
299	19.084	19.024	19.131	VV	20037	626392	8.42%	0.847%

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300	19.209	19.131	19.231	VV	11370	499931	6.72%	0.676%
301	19.259	19.231	19.292	VV	11226	349393	4.70%	0.472%
302	19.309	19.292	19.319	VV	9370	146774	1.97%	0.198%
303	19.342	19.319	19.369	VV	10338	297398	4.00%	0.402%
304	19.387	19.369	19.407	VV	10658	231916	3.12%	0.314%
305	19.424	19.407	19.451	VV	10462	273085	3.67%	0.369%
306	19.483	19.451	19.518	VV	20752	558028	7.50%	0.754%
307	19.540	19.518	19.576	VV	12174	377616	5.08%	0.510%
308	19.611	19.576	19.638	VV	11904	401976	5.40%	0.543%
309	19.683	19.638	19.690	VV	11855	356307	4.79%	0.482%
310	19.727	19.690	19.747	VV	13098	422338	5.68%	0.571%
311	19.785	19.747	19.794	VV	13402	373788	5.02%	0.505%
312	19.869	19.794	19.900	VV	22857	1012795	13.61%	1.369%
313	19.921	19.900	19.947	VV	16639	454907	6.11%	0.615%
314	20.119	19.947	20.132	VV	19819	1976223	26.56%	2.671%
315	20.151	20.132	20.179	VV	19945	549704	7.39%	0.743%
316	20.246	20.179	20.280	VV	28217	1380232	18.55%	1.866%
317	20.321	20.280	20.335	VV	24648	800828	10.76%	1.083%
318	20.368	20.335	20.376	VV	24922	605352	8.14%	0.818%
319	20.475	20.376	20.507	VV	28066	2080544	27.97%	2.812%
320	20.538	20.507	20.548	VV	28574	705707	9.49%	0.954%
321	20.611	20.548	20.638	VV	37361	1737925	23.36%	2.349%
322	20.649	20.638	20.680	VV	32656	804770	10.82%	1.088%
323	20.705	20.680	20.724	VV	33027	876769	11.79%	1.185%
324	20.776	20.724	20.796	VV	34041	1437042	19.32%	1.943%
325	20.846	20.796	20.874	VV	35981	1636733	22.00%	2.213%
326	20.889	20.874	20.931	VV	34818	1164258	15.65%	1.574%
327	20.981	20.931	21.011	VV	37126	1660063	22.31%	2.244%
328	21.069	21.011	21.092	VV	34427	1638871	22.03%	2.215%
329	21.123	21.092	21.200	VV	35048	2155715	28.98%	2.914%
330	21.236	21.200	21.247	VV	32382	896595	12.05%	1.212%
331	21.392	21.247	21.520	VV	38572	5585114	75.08%	7.550%
332	21.563	21.520	21.575	VV	31466	1015088	13.64%	1.372%
333	21.637	21.575	21.712	VV	32982	2618155	35.19%	3.539%
334	21.747	21.712	21.761	VV	29929	883611	11.88%	1.194%
335	21.789	21.761	21.818	VV	30213	1003006	13.48%	1.356%
336	21.857	21.818	21.908	VV	32714	1687738	22.69%	2.281%
337	21.920	21.908	21.936	VV	30178	492041	6.61%	0.665%
338	21.984	21.936	22.002	VV	31141	1207817	16.24%	1.633%
339	22.028	22.002	22.111	VV	30911	1944957	26.14%	2.629%
340	22.141	22.111	22.161	VV	28245	844977	11.36%	1.142%
341	22.250	22.161	22.297	VV	31912	2452098	32.96%	3.315%
342	22.316	22.297	22.336	VV	29763	685954	9.22%	0.927%
343	22.380	22.336	22.444	VV	31682	1958758	26.33%	2.648%
344	22.483	22.444	22.551	VBA	30083	1925434	25.88%	2.603%
Sum of corrected areas:						73975131		

Aliphatic EPH 080125.M Mon Aug 25 11:33:30 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S04	SDG No.:	Q2832
Lab Sample ID:	Q2832-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.1
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/21/25 11:00	08/25/25 11:24	PB169364

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.44	J	1	0.15	1.07	mg/kg	FE055477.D
Aliphatic C12-C16	Aliphatic C12-C16	1.04		1	0.12	0.71	mg/kg	FE055477.D
Aliphatic C16-C21	Aliphatic C16-C21	0.94	J	1	0.14	1.07	mg/kg	FE055477.D
Aliphatic C21-C28	Aliphatic C21-C28	2.06		1	0.57	1.43	mg/kg	FE055477.D
Aliphatic C28-C40	Aliphatic C28-C40	14.1		1	1.26	2.14	mg/kg	FE055477.D
Aromatic C10-C12	Aromatic C10-C12	0.53	J	1	0.13	0.71	mg/kg	FD049652.D
Aromatic C12-C16	Aromatic C12-C16	0.96	J	1	0.25	1.07	mg/kg	FD049652.D
Aromatic C16-C21	Aromatic C16-C21	13.3		1	0.43	1.79	mg/kg	FD049652.D
Aromatic C21-C36	Aromatic C21-C36	34.1		1	1.28	2.86	mg/kg	FD049652.D
Total AliphaticEPH	Total AliphaticEPH	18.6			2.23	6.42	mg/kg	
Total AromaticEPH	Total AromaticEPH	48.9			2.08	6.43	mg/kg	
Total EPH	Total EPH	67.5			4.32	12.9	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:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S04	SDG No.:	Q2832
Lab Sample ID:	Q2832-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.1
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049652.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.53	J	0.13	0.71	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.96	J	0.25	1.07	mg/kg
Aromatic C16-C21	Aromatic C16-C21	13.3		0.43	1.79	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.1		1.28	2.86	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.3		40 - 140	97%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	45.2		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.5		40 - 140	73%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2832-07	Acq On:	22 Aug 2025 20:12
Client Sample ID:	TG-S04	Operator:	YP/AJ
Data file:	FD049652.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	4.407	6.150	802119	7.431	200	ug/ml
Aromatic C12-C16	6.151	8.778	1664127	13.466	300	ug/ml
Aromatic C16-C21	8.779	13.069	23521992	185.965	500	ug/ml
Aromatic C21-C36	13.070	18.489	53721912	477.027	800	ug/ml
Aromatic EPH	4.407	18.489	79710150	683.888		ug/ml
2-Bromonaphthalene (SURR)	7.715	7.715	4953179	48.33		ug/ml
2-Fluorobiphenyl (SURR)	8.580	8.580	3299028	45.16		ug/ml
ortho-Terphenyl (SURR)	11.627	11.627	4737765	36.5		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049652.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 20:12
 Operator : YP/AJ
 Sample : Q2832-07
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 TG-S04

Integration File: sample.E
 Quant Time: Aug 25 01:50:01 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.715	4953179	48.330 ug/ml
Spiked Amount 50.000		Recovery =	96.66%
6) S 2-Fluorobiphenyl (SURR)	8.580	3299028	45.164 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	90.33%
11) S ortho-Terphenyl (SURR)	11.627	4737765	36.502 ug/ml
Spiked Amount 50.000		Recovery =	73.00%

Target Compounds

(f)=RT Delta > 1/2 Window

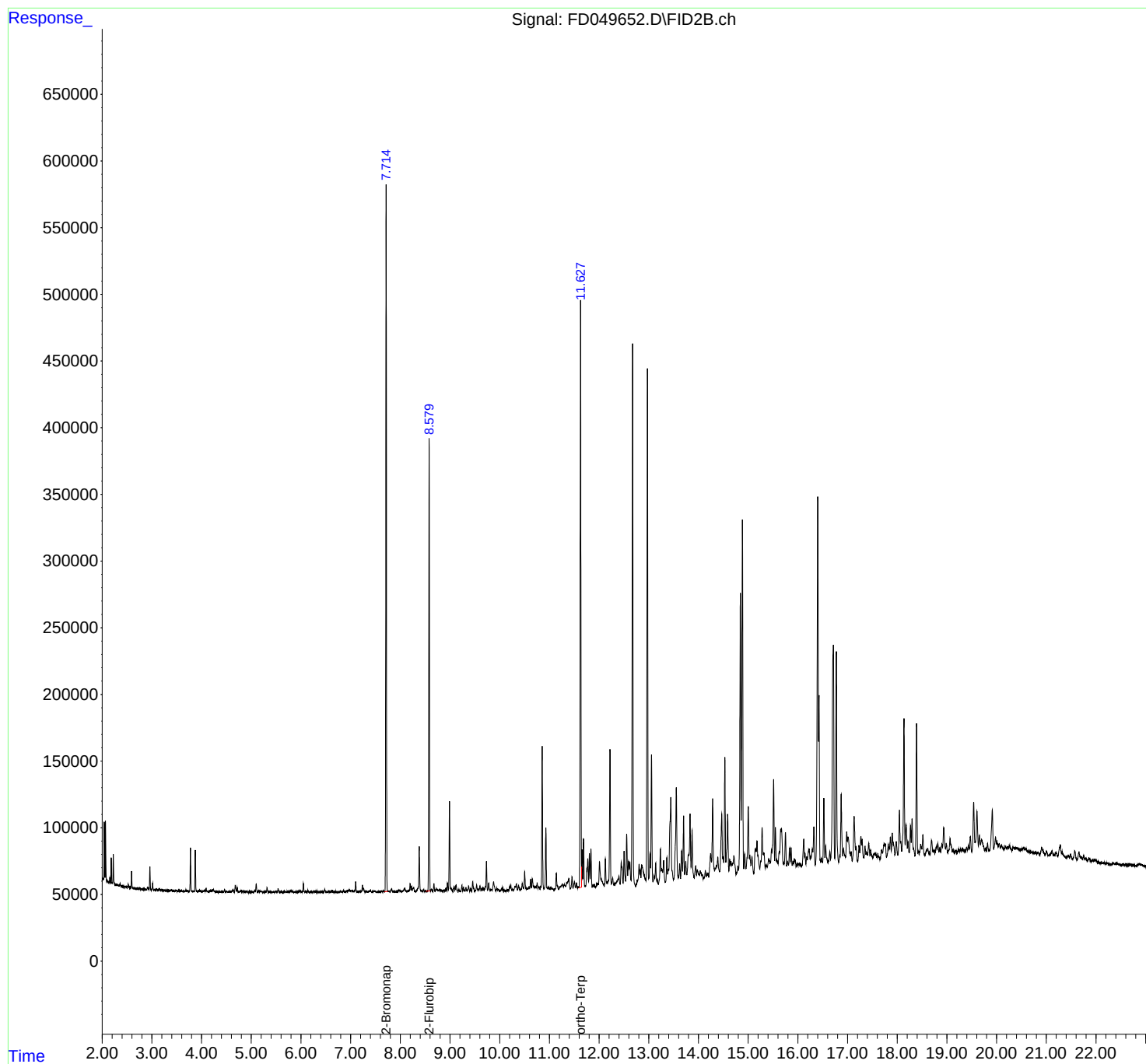
(m)=manual int.

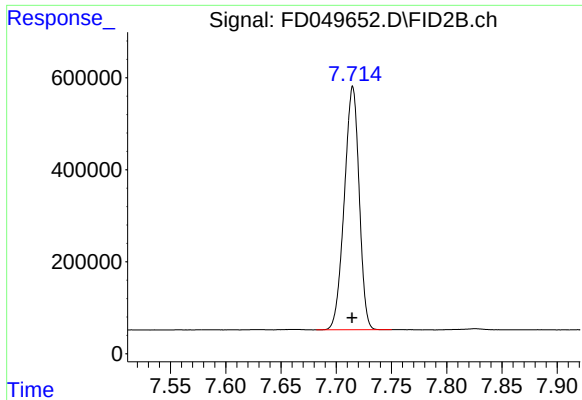
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049652.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 20:12
Operator : YP/AJ
Sample : Q2832-07
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
TG-S04

Integration File: sample.E
Quant Time: Aug 25 01:50:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

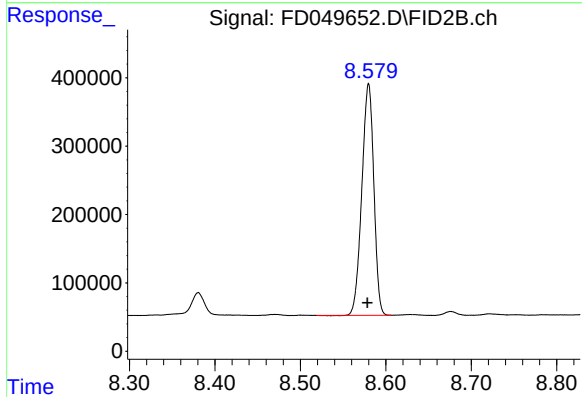




#4 2-Bromonaphthalene (SURRE)

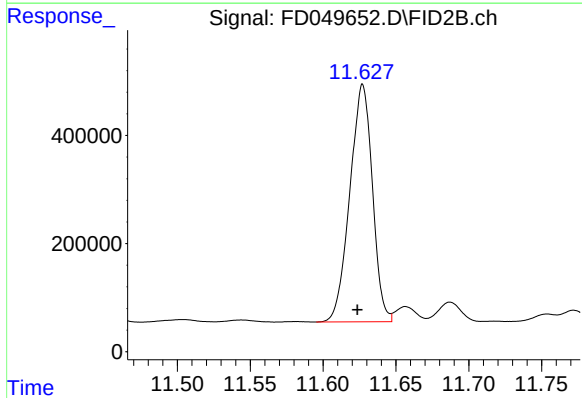
R.T.: 7.715 min
Delta R.T.: 0.000 min
Response: 4953179
Conc: 48.33 ug/ml

Instrument :
FID_D
ClientSampleId :
TG-S04



#6 2-Fluorobiphenyl (SURRE)

R.T.: 8.580 min
Delta R.T.: 0.001 min
Response: 3299028
Conc: 45.16 ug/ml



#11 ortho-Terphenyl (SURRE)

R.T.: 11.627 min
Delta R.T.: 0.004 min
Response: 4737765
Conc: 36.50 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049652.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 20:12
Sample : Q2832-07
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.258	4.252	4.273	BV	264	1761	0.04%	0.002%
2	4.282	4.273	4.345	PV	179	4342	0.09%	0.005%
3	4.355	4.345	4.384	PV	426	5257	0.11%	0.006%
4	4.417	4.384	4.434	VV	556	7762	0.16%	0.008%
5	4.464	4.434	4.487	PV	2080	19877	0.40%	0.021%
6	4.505	4.487	4.526	VV	971	10055	0.20%	0.011%
7	4.538	4.526	4.551	VV	364	3338	0.07%	0.004%
8	4.575	4.551	4.595	VV	614	10384	0.21%	0.011%
9	4.608	4.595	4.617	VV	850	7815	0.16%	0.008%
10	4.632	4.617	4.655	VV	2255	25435	0.51%	0.027%
11	4.678	4.655	4.703	VV	5247	68877	1.39%	0.074%
12	4.718	4.703	4.738	VV	3639	36963	0.74%	0.040%
13	4.746	4.738	4.757	VV	518	4152	0.08%	0.004%
14	4.770	4.757	4.783	VV	1055	9886	0.20%	0.011%
15	4.794	4.783	4.820	VV	1581	19305	0.39%	0.021%
16	4.835	4.820	4.864	VV	924	14952	0.30%	0.016%
17	4.891	4.864	4.899	VV	511	7064	0.14%	0.008%
18	4.914	4.899	4.945	VV	837	12430	0.25%	0.013%
19	4.965	4.953	4.990	VV	437	5660	0.11%	0.006%
20	5.023	4.990	5.045	VV	619	12096	0.24%	0.013%
21	5.049	5.045	5.056	VV	337	2195	0.04%	0.002%
22	5.073	5.056	5.082	VV	1712	16562	0.33%	0.018%
23	5.099	5.082	5.130	VV	6332	72436	1.46%	0.078%
24	5.156	5.130	5.173	VV	1437	20749	0.42%	0.022%
25	5.188	5.173	5.196	VV	924	9563	0.19%	0.010%
26	5.201	5.196	5.225	VV	817	10613	0.21%	0.011%
27	5.233	5.225	5.246	VV	393	3429	0.07%	0.004%
28	5.262	5.246	5.276	PV	520	6170	0.12%	0.007%
29	5.289	5.276	5.299	VV	590	6544	0.13%	0.007%
30	5.318	5.299	5.347	VV	3722	40461	0.81%	0.044%
31	5.376	5.347	5.432	VV	585	18001	0.36%	0.019%
32	5.456	5.432	5.482	VV	484	10148	0.20%	0.011%
33	5.501	5.482	5.522	VV	1356	17681	0.36%	0.019%
34	5.542	5.522	5.581	VV	2630	37047	0.75%	0.040%
35	5.597	5.581	5.621	VV	907	14237	0.29%	0.015%
36	5.625	5.621	5.635	VV	447	2834	0.06%	0.003%

					rteres			
37	5.639	5.635	5.651	VV	363	3397	0.07%	0.004%
38	5.658	5.651	5.676	VV	696	8046	0.16%	0.009%
39	5.685	5.676	5.702	VV	668	7803	0.16%	0.008%
40	5.704	5.702	5.709	VV	366	1451	0.03%	0.002%
41	5.722	5.709	5.732	VV	554	5663	0.11%	0.006%
42	5.744	5.732	5.751	VV	697	6763	0.14%	0.007%
43	5.765	5.751	5.783	VV	923	13378	0.27%	0.014%
44	5.801	5.783	5.814	VV	1385	18052	0.36%	0.019%
45	5.819	5.814	5.858	VV	990	14737	0.30%	0.016%
46	5.899	5.858	5.912	VV	534	11340	0.23%	0.012%
47	5.925	5.912	5.934	VV	546	5562	0.11%	0.006%
48	5.939	5.934	5.945	VV	551	2828	0.06%	0.003%
49	5.955	5.945	5.969	VV	692	7717	0.16%	0.008%
50	5.985	5.969	6.022	VV	1267	21269	0.43%	0.023%
51	6.049	6.022	6.073	VV	6963	72992	1.47%	0.079%
52	6.079	6.073	6.083	VV	557	2574	0.05%	0.003%
53	6.096	6.083	6.112	VV	945	10423	0.21%	0.011%
54	6.139	6.112	6.175	VV	1535	23403	0.47%	0.025%
55	6.199	6.175	6.225	VV	613	12573	0.25%	0.014%
56	6.228	6.225	6.245	VV	265	2939	0.06%	0.003%
57	6.271	6.245	6.285	VV	734	12502	0.25%	0.013%
58	6.291	6.285	6.309	VV	544	6271	0.13%	0.007%
59	6.327	6.309	6.360	VV	1120	15190	0.31%	0.016%
60	6.366	6.360	6.379	VV	451	2959	0.06%	0.003%
61	6.392	6.387	6.410	VV	324	3370	0.07%	0.004%
62	6.440	6.410	6.455	VV	482	8796	0.18%	0.009%
63	6.479	6.455	6.509	VV	2271	30400	0.61%	0.033%
64	6.520	6.509	6.535	VV	450	5680	0.11%	0.006%
65	6.563	6.535	6.581	VV	984	14030	0.28%	0.015%
66	6.597	6.581	6.610	VV	845	8412	0.17%	0.009%
67	6.629	6.610	6.646	VV	1867	20590	0.41%	0.022%
68	6.665	6.646	6.687	VV	705	10029	0.20%	0.011%
69	6.701	6.687	6.721	VV	1026	10007	0.20%	0.011%
70	6.728	6.721	6.739	PV	211	1436	0.03%	0.002%
71	6.761	6.739	6.772	VV	448	5444	0.11%	0.006%
72	6.797	6.772	6.822	VV	914	15285	0.31%	0.016%
73	6.825	6.822	6.830	VV	332	1274	0.03%	0.001%
74	6.859	6.830	6.888	VV	1284	21223	0.43%	0.023%
75	6.923	6.888	6.937	VV	1068	22338	0.45%	0.024%
76	6.952	6.937	6.957	VV	1210	12886	0.26%	0.014%
77	6.971	6.957	6.990	VV	1884	27248	0.55%	0.029%
78	6.998	6.990	7.013	VV	1199	15267	0.31%	0.016%
79	7.035	7.013	7.069	VV	1541	31760	0.64%	0.034%
80	7.102	7.069	7.130	VV	7997	92114	1.85%	0.099%
81	7.133	7.130	7.138	VV	448	2087	0.04%	0.002%
82	7.147	7.138	7.169	VV	500	6957	0.14%	0.007%
83	7.184	7.169	7.198	VV	705	8600	0.17%	0.009%
84	7.204	7.198	7.217	VV	550	5423	0.11%	0.006%
85	7.238	7.217	7.251	VV	5384	55545	1.12%	0.060%
86	7.262	7.251	7.295	VV	3000	36288	0.73%	0.039%
87	7.320	7.295	7.334	VV	918	12851	0.26%	0.014%
88	7.338	7.334	7.351	VV	457	3312	0.07%	0.004%
89	7.367	7.351	7.380	VV	803	9306	0.19%	0.010%

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90	7.398	7.380	7.425	VV	1661	23346	0.47%	0.025%
91	7.438	7.425	7.444	VV	416	3560	0.07%	0.004%
92	7.467	7.444	7.480	VV	913	13761	0.28%	0.015%
93	7.491	7.480	7.531	VV	1139	14970	0.30%	0.016%
94	7.557	7.543	7.570	VV	461	4350	0.09%	0.005%
95	7.577	7.570	7.598	VV	522	6723	0.14%	0.007%
96	7.608	7.598	7.613	VV	417	3304	0.07%	0.004%
97	7.630	7.613	7.644	VV	823	10603	0.21%	0.011%
98	7.663	7.644	7.680	VV	1238	16871	0.34%	0.018%
99	7.715	7.680	7.750	VV	530177	4972164	100.00%	5.359%
100	7.755	7.750	7.790	VV	876	11981	0.24%	0.013%
101	7.826	7.790	7.867	VV	2765	46794	0.94%	0.050%
102	7.883	7.867	7.904	VV	515	7354	0.15%	0.008%
103	7.907	7.904	7.911	VV	285	1111	0.02%	0.001%
104	7.920	7.911	7.940	VV	465	6277	0.13%	0.007%
105	7.982	7.940	8.012	VV	1432	35620	0.72%	0.038%
106	8.015	8.012	8.020	VV	470	1696	0.03%	0.002%
107	8.026	8.020	8.033	VV	530	2929	0.06%	0.003%
108	8.078	8.033	8.085	VV	2683	37364	0.75%	0.040%
109	8.094	8.085	8.126	VV	2722	33161	0.67%	0.036%
110	8.137	8.126	8.143	VV	596	4789	0.10%	0.005%
111	8.168	8.143	8.178	VV	918	16047	0.32%	0.017%
112	8.197	8.178	8.212	VV	6409	68932	1.39%	0.074%
113	8.224	8.212	8.239	VV	4151	43163	0.87%	0.047%
114	8.269	8.239	8.290	VV	3566	64785	1.30%	0.070%
115	8.298	8.290	8.312	VV	585	6451	0.13%	0.007%
116	8.332	8.312	8.337	VV	1209	12700	0.26%	0.014%
117	8.381	8.337	8.413	VV	33867	400490	8.05%	0.432%
118	8.416	8.413	8.422	VV	1162	5688	0.11%	0.006%
119	8.427	8.422	8.444	VV	941	9397	0.19%	0.010%
120	8.471	8.444	8.488	VV	1943	26628	0.54%	0.029%
121	8.501	8.488	8.537	VV	824	13220	0.27%	0.014%
122	8.580	8.537	8.610	VV	340027	3327968	66.93%	3.587%
123	8.629	8.610	8.656	VV	1765	29633	0.60%	0.032%
124	8.676	8.656	8.696	VV	6149	66609	1.34%	0.072%
125	8.721	8.696	8.743	VV	2791	44848	0.90%	0.048%
126	8.753	8.743	8.770	VV	1413	18580	0.37%	0.020%
127	8.784	8.770	8.795	VV	1335	17043	0.34%	0.018%
128	8.798	8.795	8.819	VV	1163	15668	0.32%	0.017%
129	8.827	8.819	8.851	VV	1400	17577	0.35%	0.019%
130	8.871	8.851	8.880	VV	1003	12213	0.25%	0.013%
131	8.891	8.880	8.900	VV	955	9743	0.20%	0.011%
132	8.917	8.900	8.930	VV	2458	30249	0.61%	0.033%
133	8.947	8.930	8.965	VV	6661	75606	1.52%	0.081%
134	8.990	8.965	9.011	VV	67702	679807	13.67%	0.733%
135	9.017	9.011	9.055	VV	2425	45438	0.91%	0.049%
136	9.083	9.055	9.098	VV	4052	57996	1.17%	0.063%
137	9.123	9.098	9.163	VV	4952	89989	1.81%	0.097%
138	9.179	9.163	9.208	VV	1280	16095	0.32%	0.017%
139	9.240	9.208	9.256	VV	4203	52706	1.06%	0.057%
140	9.271	9.256	9.294	VV	3628	39838	0.80%	0.043%
141	9.321	9.294	9.340	VV	3105	42188	0.85%	0.045%

					rteres			
142	9.375	9.340	9.399	VV	4239	64434	1.30%	0.069%
143	9.416	9.399	9.434	VV	2343	28423	0.57%	0.031%
144	9.457	9.434	9.498	VV	7535	111676	2.25%	0.120%
145	9.504	9.498	9.509	VV	603	3478	0.07%	0.004%
146	9.536	9.509	9.554	VV	4854	62775	1.26%	0.068%
147	9.558	9.554	9.572	VV	1867	16487	0.33%	0.018%
148	9.576	9.572	9.585	VV	1386	10233	0.21%	0.011%
149	9.603	9.585	9.625	VV	4245	60474	1.22%	0.065%
150	9.638	9.625	9.653	VV	2161	27445	0.55%	0.030%
151	9.666	9.653	9.685	VV	2483	33179	0.67%	0.036%
152	9.734	9.685	9.756	VV	22579	280860	5.65%	0.303%
153	9.779	9.756	9.822	VV	6135	88746	1.78%	0.096%
154	9.830	9.822	9.849	VV	1216	14968	0.30%	0.016%
155	9.877	9.849	9.922	VV	7148	144606	2.91%	0.156%
156	9.940	9.922	9.961	VV	2326	31859	0.64%	0.034%
157	9.975	9.961	9.996	VV	1125	18147	0.36%	0.020%
158	10.001	9.996	10.010	VV	344	2928	0.06%	0.003%
159	10.038	10.010	10.045	VV	1875	22308	0.45%	0.024%
160	10.059	10.045	10.115	VV	2801	39071	0.79%	0.042%
161	10.151	10.115	10.158	PV	652	9378	0.19%	0.010%
162	10.161	10.158	10.163	VV	510	1598	0.03%	0.002%
163	10.171	10.163	10.177	VV	696	4737	0.10%	0.005%
164	10.201	10.177	10.212	VV	3204	40460	0.81%	0.044%
165	10.225	10.212	10.244	VV	3994	46179	0.93%	0.050%
166	10.258	10.244	10.272	VV	1102	12559	0.25%	0.014%
167	10.309	10.272	10.320	VV	3691	57993	1.17%	0.063%
168	10.334	10.320	10.358	VV	5109	69362	1.39%	0.075%
169	10.378	10.358	10.412	VV	3857	63368	1.27%	0.068%
170	10.424	10.412	10.433	VV	1190	11810	0.24%	0.013%
171	10.454	10.433	10.482	VV	5374	87391	1.76%	0.094%
172	10.503	10.482	10.548	VV	14183	195051	3.92%	0.210%
173	10.555	10.548	10.565	VV	1321	11543	0.23%	0.012%
174	10.590	10.565	10.605	VV	2296	43564	0.88%	0.047%
175	10.623	10.605	10.638	VV	8479	101050	2.03%	0.109%
176	10.657	10.638	10.678	VV	8827	132172	2.66%	0.142%
177	10.686	10.678	10.699	VV	2939	32019	0.64%	0.035%
178	10.728	10.699	10.739	VV	2978	62334	1.25%	0.067%
179	10.755	10.739	10.771	VV	5424	65645	1.32%	0.071%
180	10.786	10.771	10.808	VV	2530	41730	0.84%	0.045%
181	10.823	10.808	10.832	VV	2945	30426	0.61%	0.033%
182	10.855	10.832	10.893	VV	107957	1139067	22.91%	1.228%
183	10.929	10.893	10.962	VV	46994	532284	10.71%	0.574%
184	10.980	10.962	10.999	VV	1948	30297	0.61%	0.033%
185	11.037	10.999	11.090	VV	1453	46938	0.94%	0.051%
186	11.139	11.090	11.185	PV	12369	173997	3.50%	0.188%
187	11.216	11.185	11.226	VV	2131	33941	0.68%	0.037%
188	11.261	11.226	11.277	VV	4223	87517	1.76%	0.094%
189	11.282	11.277	11.287	VV	2166	12292	0.25%	0.013%
190	11.304	11.287	11.329	VV	3732	71183	1.43%	0.077%
191	11.392	11.329	11.422	VV	8062	242792	4.88%	0.262%
192	11.455	11.422	11.475	VV	9128	113773	2.29%	0.123%
193	11.504	11.475	11.525	VV	5265	87249	1.75%	0.094%
194	11.544	11.525	11.567	VV	4398	60722	1.22%	0.065%

					rteres			
195	11.581	11.567	11.595	VV	1408	16098	0.32%	0.017%
196	11.627	11.595	11.647	VV	440750	4761716	95.77%	5.132%
197	11.657	11.647	11.671	VV	29104	289232	5.82%	0.312%
198	11.687	11.671	11.710	VV	37238	413849	8.32%	0.446%
199	11.718	11.710	11.729	VV	1915	17828	0.36%	0.019%
200	11.754	11.729	11.760	VV	15072	156193	3.14%	0.168%
201	11.772	11.760	11.788	VV	22147	248179	4.99%	0.267%
202	11.805	11.788	11.820	VV	25859	284739	5.73%	0.307%
203	11.836	11.820	11.861	VV	29339	339583	6.83%	0.366%
204	11.877	11.861	11.890	VV	1794	22325	0.45%	0.024%
205	11.910	11.890	11.926	VV	2413	28320	0.57%	0.031%
206	11.952	11.926	11.960	PV	2546	29593	0.60%	0.032%
207	11.973	11.960	11.985	VV	3269	40929	0.82%	0.044%
208	12.009	11.985	12.036	VV	19348	323404	6.50%	0.349%
209	12.043	12.036	12.089	VV	6499	133030	2.68%	0.143%
210	12.092	12.089	12.105	VV	2177	17824	0.36%	0.019%
211	12.126	12.105	12.147	VV	21452	253340	5.10%	0.273%
212	12.156	12.147	12.169	VV	3957	46149	0.93%	0.050%
213	12.220	12.169	12.247	VV	103294	1288851	25.92%	1.389%
214	12.274	12.247	12.293	VV	6585	109450	2.20%	0.118%
215	12.305	12.293	12.317	VV	2241	26437	0.53%	0.028%
216	12.331	12.317	12.340	VV	2787	30732	0.62%	0.033%
217	12.355	12.340	12.363	VV	4078	46101	0.93%	0.050%
218	12.377	12.363	12.385	VV	5439	61479	1.24%	0.066%
219	12.399	12.385	12.423	VV	7962	112433	2.26%	0.121%
220	12.446	12.423	12.483	VV	18312	365044	7.34%	0.393%
221	12.503	12.483	12.534	VV	26151	365136	7.34%	0.394%
222	12.555	12.534	12.575	VV	38994	504696	10.15%	0.544%
223	12.592	12.575	12.606	VV	18613	262783	5.29%	0.283%
224	12.619	12.606	12.643	VV	18016	260799	5.25%	0.281%
225	12.675	12.643	12.733	VV	406742	4609163	92.70%	4.968%
226	12.767	12.733	12.775	PV	4111	46365	0.93%	0.050%
227	12.805	12.775	12.819	VV	15982	236735	4.76%	0.255%
228	12.829	12.819	12.843	VV	11686	130519	2.62%	0.141%
229	12.860	12.843	12.901	VV	15380	400766	8.06%	0.432%
230	12.905	12.901	12.942	VV	8039	138649	2.79%	0.149%
231	12.974	12.942	12.997	VV	386445	4384985	88.19%	4.726%
232	13.024	12.997	13.035	VV	23119	289387	5.82%	0.312%
233	13.055	13.035	13.084	VV	97468	1174193	23.62%	1.266%
234	13.106	13.084	13.121	VV	6786	104820	2.11%	0.113%
235	13.140	13.121	13.162	VV	16048	208591	4.20%	0.225%
236	13.173	13.162	13.193	VV	3391	36962	0.74%	0.040%
237	13.234	13.193	13.255	PV	26190	393588	7.92%	0.424%
238	13.265	13.255	13.282	VV	10819	158718	3.19%	0.171%
239	13.300	13.282	13.333	VV	17410	271679	5.46%	0.293%
240	13.364	13.333	13.381	VV	19263	249945	5.03%	0.269%
241	13.394	13.381	13.403	VV	10466	125904	2.53%	0.136%
242	13.444	13.403	13.497	VV	64400	1460442	29.37%	1.574%
243	13.554	13.497	13.596	VV	70503	1339792	26.95%	1.444%
244	13.622	13.596	13.640	VV	13801	190539	3.83%	0.205%
245	13.662	13.640	13.680	VV	23238	333403	6.71%	0.359%
246	13.701	13.680	13.722	VV	49254	610006	12.27%	0.657%

rteres								
247	13.744	13.722	13.766	VV	14755	240955	4.85%	0.260%
248	13.796	13.766	13.802	VV	19536	266185	5.35%	0.287%
249	13.831	13.802	13.852	VV	49983	820902	16.51%	0.885%
250	13.872	13.852	13.912	VV	37694	549762	11.06%	0.593%
251	13.945	13.912	13.962	VV	10751	192937	3.88%	0.208%
252	13.979	13.962	14.020	VV	7309	181955	3.66%	0.196%
253	14.036	14.020	14.072	VV	6851	150601	3.03%	0.162%
254	14.079	14.072	14.099	VV	3633	34171	0.69%	0.037%
255	14.138	14.099	14.155	VV	6179	91372	1.84%	0.098%
256	14.171	14.155	14.180	VV	3265	39486	0.79%	0.043%
257	14.192	14.180	14.206	VV	4348	48489	0.98%	0.052%
258	14.245	14.206	14.263	VV	18634	381522	7.67%	0.411%
259	14.285	14.263	14.325	VV	59683	892565	17.95%	0.962%
260	14.338	14.325	14.344	VV	7149	74073	1.49%	0.080%
261	14.362	14.344	14.371	VV	9428	136535	2.75%	0.147%
262	14.389	14.371	14.424	VV	15366	293418	5.90%	0.316%
263	14.468	14.424	14.488	VV	47119	890398	17.91%	0.960%
264	14.495	14.488	14.508	VV	15078	165598	3.33%	0.178%
265	14.531	14.508	14.551	VV	89702	1145642	23.04%	1.235%
266	14.587	14.551	14.612	VV	46956	832245	16.74%	0.897%
267	14.629	14.612	14.642	VV	12695	166946	3.36%	0.180%
268	14.654	14.642	14.673	VV	11148	173719	3.49%	0.187%
269	14.714	14.673	14.757	VV	14754	454153	9.13%	0.489%
270	14.793	14.757	14.806	VV	7049	105340	2.12%	0.114%
271	14.843	14.806	14.860	VV	211701	2685893	54.02%	2.895%
272	14.884	14.860	14.911	VV	265564	3622128	72.85%	3.904%
273	14.930	14.911	14.956	VV	15652	247861	4.98%	0.267%
274	15.002	14.956	15.023	VV	50858	875888	17.62%	0.944%
275	15.034	15.023	15.059	VV	14163	229192	4.61%	0.247%
276	15.077	15.059	15.110	VV	12944	222278	4.47%	0.240%
277	15.140	15.110	15.149	VV	18268	227499	4.58%	0.245%
278	15.154	15.149	15.162	VV	18055	145698	2.93%	0.157%
279	15.178	15.162	15.233	VV	24346	552216	11.11%	0.595%
280	15.280	15.233	15.304	VV	34035	656452	13.20%	0.708%
281	15.318	15.304	15.342	VV	14807	255684	5.14%	0.276%
282	15.355	15.342	15.385	VV	5468	119436	2.40%	0.129%
283	15.413	15.385	15.445	VV	9628	266415	5.36%	0.287%
284	15.469	15.445	15.478	VV	16635	237513	4.78%	0.256%
285	15.512	15.478	15.532	VV	68859	1067954	21.48%	1.151%
286	15.548	15.532	15.585	VV	33070	502865	10.11%	0.542%
287	15.591	15.585	15.603	VV	7530	74730	1.50%	0.081%
288	15.654	15.603	15.662	VV	31089	609802	12.26%	0.657%
289	15.671	15.662	15.715	VV	31760	552926	11.12%	0.596%
290	15.751	15.715	15.775	VV	28420	456773	9.19%	0.492%
291	15.795	15.775	15.812	VV	5941	102864	2.07%	0.111%
292	15.832	15.812	15.848	VV	16162	216081	4.35%	0.233%
293	15.863	15.848	15.886	VV	16362	224648	4.52%	0.242%
294	15.902	15.886	15.915	VV	6325	84006	1.69%	0.091%
295	15.930	15.915	15.965	VV	7742	169945	3.42%	0.183%
296	15.980	15.965	15.991	VV	3490	45023	0.91%	0.049%
297	16.013	15.991	16.026	VV	3783	69552	1.40%	0.075%
298	16.039	16.026	16.056	VV	4097	57773	1.16%	0.062%
299	16.063	16.056	16.080	VV	2444	29868	0.60%	0.032%

rteres								
300	16.119	16.080	16.136	VV	21879	376868	7.58%	0.406%
301	16.145	16.136	16.161	VV	10934	119048	2.39%	0.128%
302	16.179	16.161	16.190	VV	8340	109221	2.20%	0.118%
303	16.227	16.190	16.246	VV	14183	354642	7.13%	0.382%
304	16.257	16.246	16.265	VV	7918	82174	1.65%	0.089%
305	16.290	16.265	16.304	VV	13173	246758	4.96%	0.266%
306	16.323	16.304	16.351	VV	30304	452313	9.10%	0.487%
307	16.401	16.351	16.417	VV	276301	4171791	83.90%	4.496%
308	16.426	16.417	16.462	VV	128709	1343111	27.01%	1.448%
309	16.474	16.462	16.498	VV	5828	91372	1.84%	0.098%
310	16.524	16.498	16.545	VV	50951	646057	12.99%	0.696%
311	16.560	16.545	16.602	VV	15188	270270	5.44%	0.291%
312	16.644	16.602	16.659	VV	10461	192401	3.87%	0.207%
313	16.715	16.659	16.743	VV	164773	3485697	70.10%	3.757%
314	16.775	16.743	16.822	VV	160343	2107043	42.38%	2.271%
315	16.842	16.822	16.850	VV	6605	75686	1.52%	0.082%
316	16.872	16.850	16.904	VV	52481	788333	15.85%	0.850%
317	16.920	16.904	16.959	VV	11340	255032	5.13%	0.275%
318	16.984	16.959	16.998	VV	23815	353620	7.11%	0.381%
319	17.012	16.998	17.062	VV	19831	508668	10.23%	0.548%
320	17.075	17.062	17.095	VV	8537	105730	2.13%	0.114%
321	17.133	17.095	17.162	VV	34800	662456	13.32%	0.714%
322	17.174	17.162	17.202	VV	12051	159623	3.21%	0.172%
323	17.232	17.202	17.247	VV	12234	176484	3.55%	0.190%
324	17.269	17.247	17.283	VV	19337	302299	6.08%	0.326%
325	17.295	17.283	17.330	VV	16840	253969	5.11%	0.274%
326	17.352	17.330	17.370	VV	11526	179048	3.60%	0.193%
327	17.380	17.370	17.395	VV	6990	88624	1.78%	0.096%
328	17.426	17.395	17.451	VV	13242	273641	5.50%	0.295%
329	17.467	17.451	17.487	VV	7865	119549	2.40%	0.129%
330	17.492	17.487	17.505	VV	3865	33750	0.68%	0.036%
331	17.530	17.505	17.594	VV	4933	205277	4.13%	0.221%
332	17.609	17.594	17.655	VV	4712	87432	1.76%	0.094%
333	17.686	17.655	17.704	VV	7255	134575	2.71%	0.145%
334	17.740	17.704	17.750	VV	11716	248697	5.00%	0.268%
335	17.760	17.750	17.784	VV	11255	148045	2.98%	0.160%
336	17.820	17.784	17.835	VV	10925	188068	3.78%	0.203%
337	17.862	17.835	17.879	VV	16354	281077	5.65%	0.303%
338	17.900	17.879	17.955	VV	19056	470951	9.47%	0.508%
339	17.980	17.955	18.010	VV	12394	223864	4.50%	0.241%
340	18.044	18.010	18.089	VV	35747	682272	13.72%	0.735%
341	18.136	18.089	18.159	VV	104118	1566874	31.51%	1.689%
342	18.177	18.159	18.204	VV	23863	444505	8.94%	0.479%
343	18.217	18.204	18.242	VV	11417	164855	3.32%	0.178%
344	18.266	18.242	18.281	VV	23008	310349	6.24%	0.334%
345	18.298	18.281	18.359	VV	28004	478137	9.62%	0.515%
346	18.389	18.359	18.415	PV	98489	1206072	24.26%	1.300%
347	18.426	18.415	18.442	VV	1780	19396	0.39%	0.021%
348	18.472	18.442	18.490	PV	4604	53867	1.08%	0.058%
Sum of corrected areas:							92783360	

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S04	SDG No.:	Q2832
Lab Sample ID:	Q2832-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.1
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055477.D	1	08/21/25	08/25/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.44	J	0.15	1.07	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	1.04		0.12	0.71	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.94	J	0.14	1.07	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	2.06		0.57	1.43	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.1		1.26	2.14	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	60.2		40 - 140	120%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2832-07	Acq On:	25 Aug 2025 11:24
Client Sample ID:	TG-S04	Operator:	YP\AJ
Data file:	FE055477.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.318	6.954	713725	6.112	300	ug/ml
Aliphatic C12-C16	6.955	10.408	1819409	14.529	200	ug/ml
Aliphatic C16-C21	10.409	13.788	1657729	13.114	300	ug/ml
Aliphatic C21-C28	13.789	17.461	3470737	28.801	400	ug/ml
Aliphatic C28-C40	17.462	22.488	22509280	197.472	600	ug/ml
Aliphatic EPH	3.318	22.488	30170880	260.028		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.524	13.524	6476920	60.24		ug/ml
Aliphatic C9-C28	3.318	17.461	7661600	62.556	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055477.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 11:24
Operator : YP\AJ
Sample : Q2832-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 11:54:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 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...	13.524	6476920	60.237 ug/ml
Spiked Amount 50.000		Recovery	= 120.47%

Target Compounds

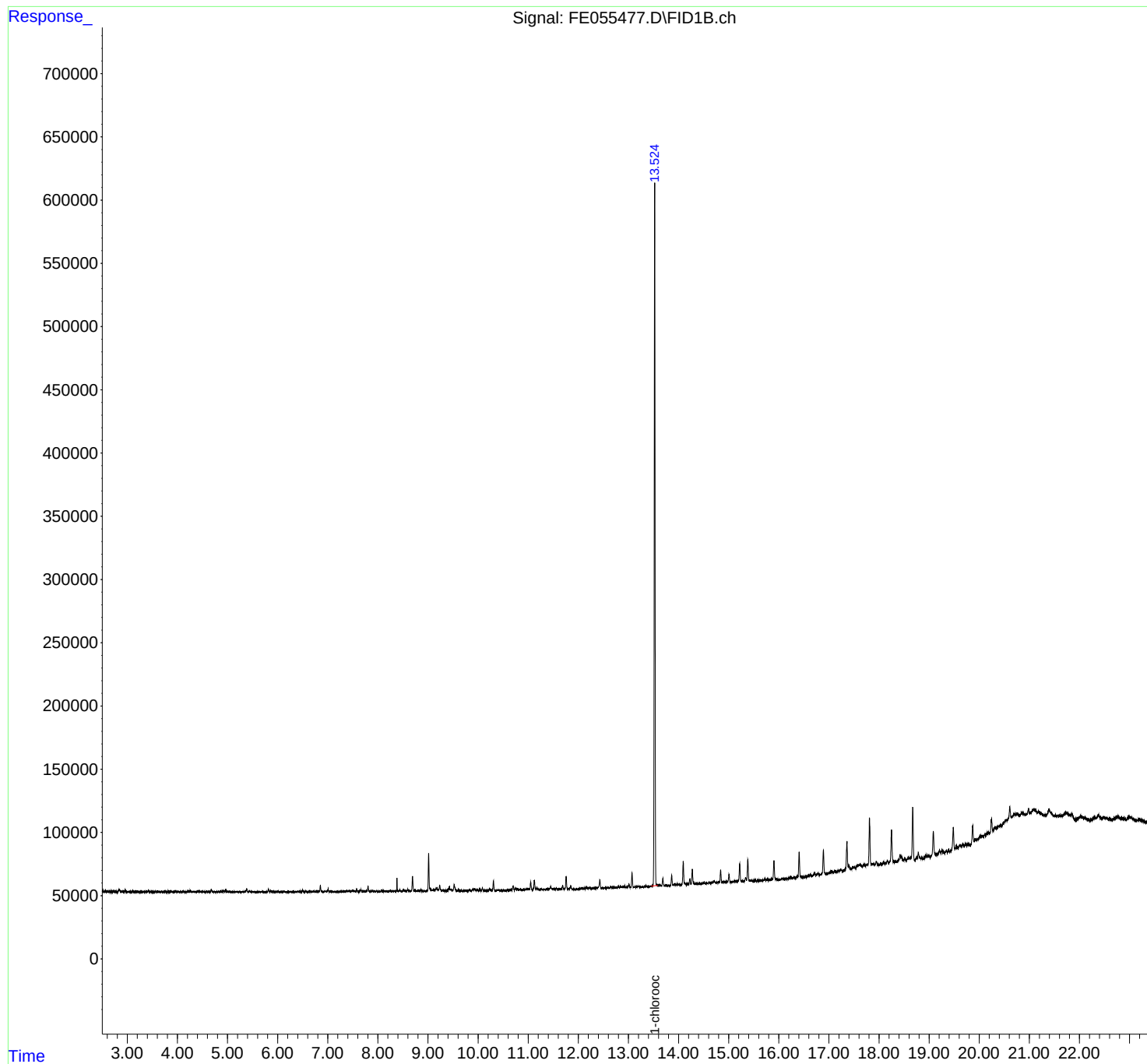
(f)=RT Delta > 1/2 Window

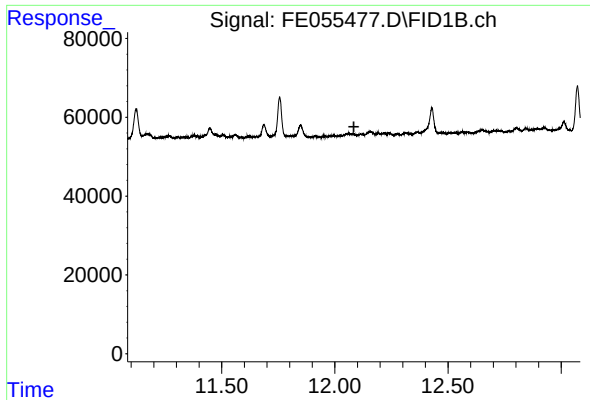
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055477.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 11:24
Operator : YP\AJ
Sample : Q2832-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 11:54:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

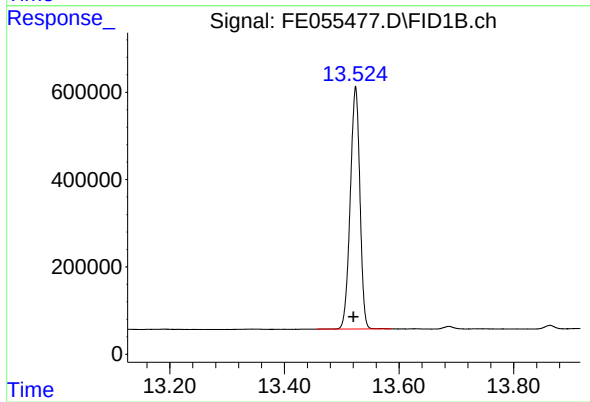
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 12.084 min
Response: 0
Conc: N.D.



#12 1-chlorooctadecane (SURR)

R.T.: 13.524 min
Delta R.T.: 0.004 min
Response: 6476920
Conc: 60.24 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055477.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 11:24
Sample : Q2832-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.834	2.805	2.878	BV	1648	28319	0.43%	0.077%
2	2.890	2.878	2.906	VV	311	3075	0.05%	0.008%
3	2.914	2.906	2.934	VV	110	1040	0.02%	0.003%
4	2.956	2.934	2.988	PV	1566	17562	0.27%	0.048%
5	2.997	2.988	3.021	VV	174	1275	0.02%	0.003%
6	3.055	3.021	3.090	PV	434	5946	0.09%	0.016%
7	3.112	3.090	3.148	PV	1161	12643	0.19%	0.034%
8	3.160	3.148	3.170	VV	186	1263	0.02%	0.003%
9	3.200	3.170	3.214	VV	324	5769	0.09%	0.016%
10	3.229	3.214	3.256	VV	309	4472	0.07%	0.012%
11	3.268	3.256	3.276	VV	196	1704	0.03%	0.005%
12	3.290	3.276	3.309	VV	190	2290	0.04%	0.006%
13	3.346	3.309	3.380	VV	191	5009	0.08%	0.014%
14	3.419	3.380	3.492	VV	1038	21573	0.33%	0.059%
15	3.503	3.492	3.520	PV	111	1394	0.02%	0.004%
16	3.536	3.520	3.553	VV	223	3551	0.05%	0.010%
17	3.566	3.553	3.584	VV	485	5504	0.08%	0.015%
18	3.598	3.584	3.625	VV	433	6878	0.11%	0.019%
19	3.644	3.625	3.656	VV	405	5665	0.09%	0.015%
20	3.663	3.656	3.698	VV	320	5584	0.09%	0.015%
21	3.709	3.698	3.717	VV	163	1550	0.02%	0.004%
22	3.740	3.717	3.770	VV	639	11185	0.17%	0.030%
23	3.780	3.770	3.790	VV	243	2276	0.03%	0.006%
24	3.812	3.790	3.845	VV	395	7582	0.12%	0.021%
25	3.869	3.845	3.923	VV	705	13877	0.21%	0.038%
26	3.954	3.923	3.991	VV	711	11987	0.18%	0.033%
27	4.009	3.991	4.048	VV	413	7256	0.11%	0.020%
28	4.063	4.048	4.084	VV	395	4619	0.07%	0.013%
29	4.116	4.084	4.172	VV	482	11585	0.18%	0.031%
30	4.216	4.172	4.231	VV	821	13554	0.21%	0.037%
31	4.250	4.231	4.272	VV	1306	15935	0.24%	0.043%
32	4.284	4.272	4.304	VV	339	4305	0.07%	0.012%
33	4.325	4.304	4.361	VV	580	7785	0.12%	0.021%
34	4.421	4.361	4.439	VV	766	16886	0.26%	0.046%
35	4.451	4.439	4.475	VV	480	6535	0.10%	0.018%
36	4.491	4.475	4.537	VV	444	6918	0.11%	0.019%

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37	4.585	4.537	4.604	VV	333	7947	0.12%	0.022%
38	4.619	4.604	4.648	VV	327	5170	0.08%	0.014%
39	4.677	4.648	4.704	VV	2317	27616	0.42%	0.075%
40	4.720	4.704	4.741	VV	330	4555	0.07%	0.012%
41	4.790	4.741	4.825	VV	279	8915	0.14%	0.024%
42	4.866	4.825	4.885	VV	1024	15599	0.24%	0.042%
43	4.897	4.885	4.910	VV	490	5990	0.09%	0.016%
44	4.928	4.910	4.945	VV	1080	12928	0.20%	0.035%
45	4.963	4.945	4.981	VV	2221	23601	0.36%	0.064%
46	4.991	4.981	5.008	VV	589	6699	0.10%	0.018%
47	5.018	5.008	5.063	VV	300	7625	0.12%	0.021%
48	5.095	5.063	5.110	VV	421	7010	0.11%	0.019%
49	5.139	5.110	5.168	VV	411	8266	0.13%	0.022%
50	5.198	5.168	5.241	VV	559	9067	0.14%	0.025%
51	5.261	5.241	5.278	VV	176	2740	0.04%	0.007%
52	5.293	5.278	5.329	VV	250	4238	0.06%	0.012%
53	5.356	5.329	5.363	VV	763	8281	0.13%	0.023%
54	5.382	5.363	5.414	VV	2766	35642	0.55%	0.097%
55	5.440	5.414	5.458	VV	814	12206	0.19%	0.033%
56	5.468	5.458	5.485	VV	321	3413	0.05%	0.009%
57	5.498	5.485	5.545	VV	469	6853	0.10%	0.019%
58	5.567	5.545	5.578	VV	114	1246	0.02%	0.003%
59	5.625	5.578	5.654	PV	357	8884	0.14%	0.024%
60	5.671	5.654	5.685	VV	184	2865	0.04%	0.008%
61	5.696	5.685	5.717	VV	320	3968	0.06%	0.011%
62	5.730	5.717	5.753	VV	222	2785	0.04%	0.008%
63	5.765	5.753	5.781	VV	184	1982	0.03%	0.005%
64	5.818	5.781	5.847	VV	2511	31798	0.49%	0.086%
65	5.862	5.847	5.884	VV	1057	12119	0.19%	0.033%
66	5.921	5.884	5.939	PV	291	6165	0.09%	0.017%
67	5.953	5.939	5.969	VV	158	2369	0.04%	0.006%
68	6.012	5.969	6.042	VV	718	13225	0.20%	0.036%
69	6.074	6.042	6.100	VV	211	5000	0.08%	0.014%
70	6.130	6.100	6.165	VV	526	10128	0.15%	0.028%
71	6.187	6.165	6.198	VV	206	2564	0.04%	0.007%
72	6.214	6.198	6.235	VV	249	2929	0.04%	0.008%
73	6.253	6.235	6.281	VV	230	3943	0.06%	0.011%
74	6.298	6.281	6.327	PV	201	3606	0.06%	0.010%
75	6.361	6.327	6.383	VV	321	6872	0.11%	0.019%
76	6.401	6.383	6.429	VV	668	10353	0.16%	0.028%
77	6.452	6.429	6.474	VV	518	6948	0.11%	0.019%
78	6.498	6.474	6.528	VV	1246	16692	0.26%	0.045%
79	6.560	6.528	6.611	VV	628	13228	0.20%	0.036%
80	6.638	6.611	6.668	VV	531	12292	0.19%	0.033%
81	6.686	6.668	6.715	VV	296	7367	0.11%	0.020%
82	6.729	6.715	6.746	VV	435	6756	0.10%	0.018%
83	6.770	6.746	6.797	VV	686	14056	0.21%	0.038%
84	6.819	6.797	6.828	VV	461	7379	0.11%	0.020%
85	6.853	6.828	6.918	VV	5142	62995	0.96%	0.171%
86	6.941	6.918	6.959	VV	592	9857	0.15%	0.027%
87	6.975	6.959	6.985	VV	455	5792	0.09%	0.016%
88	7.007	6.985	7.029	VV	2250	26835	0.41%	0.073%
89	7.047	7.029	7.071	VV	580	9815	0.15%	0.027%

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90	7.083	7.071	7.107	VV	621	6347	0.10%	0.017%
91	7.133	7.107	7.167	VV	275	4890	0.07%	0.013%
92	7.190	7.167	7.218	PV	514	7904	0.12%	0.021%
93	7.233	7.218	7.240	VV	277	2691	0.04%	0.007%
94	7.263	7.240	7.287	VV	357	7493	0.11%	0.020%
95	7.309	7.287	7.344	VV	581	9981	0.15%	0.027%
96	7.366	7.344	7.404	VV	1075	22458	0.34%	0.061%
97	7.429	7.404	7.457	VV	851	18200	0.28%	0.049%
98	7.495	7.457	7.517	VV	1072	22113	0.34%	0.060%
99	7.533	7.517	7.553	VV	528	7702	0.12%	0.021%
100	7.577	7.553	7.625	VV	2509	33235	0.51%	0.090%
101	7.661	7.625	7.697	VV	1813	29765	0.46%	0.081%
102	7.730	7.697	7.751	VV	467	12585	0.19%	0.034%
103	7.768	7.751	7.781	VV	787	10877	0.17%	0.030%
104	7.804	7.781	7.847	VV	4577	55370	0.85%	0.150%
105	7.862	7.847	7.882	VV	546	8379	0.13%	0.023%
106	7.897	7.882	7.917	VV	714	9137	0.14%	0.025%
107	7.929	7.917	7.955	VV	310	5599	0.09%	0.015%
108	7.982	7.955	8.041	VV	458	12827	0.20%	0.035%
109	8.071	8.041	8.089	PV	1014	11564	0.18%	0.031%
110	8.107	8.089	8.142	VV	624	14542	0.22%	0.040%
111	8.153	8.142	8.195	VV	556	9714	0.15%	0.026%
112	8.251	8.195	8.281	VV	717	21096	0.32%	0.057%
113	8.295	8.281	8.319	VV	466	8100	0.12%	0.022%
114	8.337	8.319	8.355	VV	416	5665	0.09%	0.015%
115	8.381	8.355	8.408	VV	4892	30206	0.46%	0.082%
116	8.438	8.408	8.463	VV	1161	17226	0.26%	0.047%
117	8.474	8.463	8.486	VV	320	2890	0.04%	0.008%
118	8.509	8.486	8.531	VV	1845	22090	0.34%	0.060%
119	8.541	8.531	8.555	VV	482	5668	0.09%	0.015%
120	8.596	8.555	8.651	VV	1549	35403	0.54%	0.096%
121	8.691	8.651	8.725	VV	11935	144501	2.21%	0.393%
122	8.740	8.725	8.765	VV	1160	10038	0.15%	0.027%
123	8.803	8.765	8.828	VV	708	19107	0.29%	0.052%
124	8.862	8.828	8.908	VV	1330	26964	0.41%	0.073%
125	8.926	8.908	8.978	VV	414	7868	0.12%	0.021%
126	9.012	8.978	9.082	VV	30053	361123	5.52%	0.981%
127	9.100	9.082	9.128	VV	979	23833	0.36%	0.065%
128	9.163	9.128	9.212	VV	2676	78647	1.20%	0.214%
129	9.234	9.212	9.273	VV	4863	73494	1.12%	0.200%
130	9.292	9.273	9.331	VV	629	15623	0.24%	0.042%
131	9.354	9.331	9.375	VV	554	10461	0.16%	0.028%
132	9.425	9.375	9.446	VV	3237	60970	0.93%	0.166%
133	9.457	9.446	9.498	VV	1603	32313	0.49%	0.088%
134	9.522	9.498	9.592	VV	5278	97032	1.48%	0.264%
135	9.611	9.592	9.638	VV	897	13231	0.20%	0.036%
136	9.659	9.638	9.687	VV	589	8640	0.13%	0.023%
137	9.712	9.687	9.721	VV	258	4024	0.06%	0.011%
138	9.743	9.721	9.794	VV	418	12160	0.19%	0.033%
139	9.826	9.794	9.867	VV	803	20672	0.32%	0.056%
140	9.897	9.867	9.913	VV	1847	28554	0.44%	0.078%
141	9.927	9.913	9.959	VV	1531	27535	0.42%	0.075%

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142	9.982	9.959	10.011	VV	815	17296	0.26%	0.047%
143	10.031	10.011	10.055	VV	1554	21119	0.32%	0.057%
144	10.085	10.055	10.114	VV	2473	31286	0.48%	0.085%
145	10.137	10.114	10.161	VV	258	5582	0.09%	0.015%
146	10.176	10.161	10.196	VV	319	3484	0.05%	0.009%
147	10.225	10.196	10.275	PV	1322	26156	0.40%	0.071%
148	10.306	10.275	10.354	VV	7812	97526	1.49%	0.265%
149	10.408	10.354	10.456	VV	654	26011	0.40%	0.071%
150	10.480	10.456	10.504	VV	383	5239	0.08%	0.014%
151	10.522	10.504	10.537	VV	193	2299	0.04%	0.006%
152	10.587	10.537	10.601	PV	476	8086	0.12%	0.022%
153	10.656	10.601	10.667	VV	661	16455	0.25%	0.045%
154	10.698	10.667	10.723	VV	3656	57174	0.87%	0.155%
155	10.748	10.723	10.768	VV	1913	32903	0.50%	0.089%
156	10.786	10.768	10.823	VV	1335	29082	0.44%	0.079%
157	10.843	10.823	10.881	VV	880	17130	0.26%	0.047%
158	10.913	10.881	10.925	VV	721	12880	0.20%	0.035%
159	10.953	10.925	10.960	VV	889	15397	0.24%	0.042%
160	10.980	10.960	11.011	VV	1364	30486	0.47%	0.083%
161	11.049	11.011	11.091	VV	6656	99476	1.52%	0.270%
162	11.122	11.091	11.150	VV	7812	117690	1.80%	0.320%
163	11.173	11.150	11.213	VV	1458	35823	0.55%	0.097%
164	11.268	11.213	11.288	VV	778	24245	0.37%	0.066%
165	11.305	11.288	11.318	VV	502	7361	0.11%	0.020%
166	11.335	11.318	11.346	VV	435	6854	0.10%	0.019%
167	11.379	11.346	11.407	VV	884	22160	0.34%	0.060%
168	11.448	11.407	11.493	VV	2687	61636	0.94%	0.168%
169	11.507	11.493	11.527	VV	934	13430	0.21%	0.036%
170	11.560	11.527	11.598	VV	949	19818	0.30%	0.054%
171	11.620	11.598	11.635	VV	512	7878	0.12%	0.021%
172	11.687	11.635	11.717	VV	3418	54867	0.84%	0.149%
173	11.756	11.717	11.791	VV	10272	136763	2.09%	0.372%
174	11.848	11.791	11.888	VV	3182	58085	0.89%	0.158%
175	11.914	11.888	11.935	VV	355	4849	0.07%	0.013%
176	11.996	11.935	12.005	PV	357	8667	0.13%	0.024%
177	12.056	12.005	12.095	VV	727	25365	0.39%	0.069%
178	12.115	12.095	12.128	VV	584	9073	0.14%	0.025%
179	12.156	12.128	12.178	VV	1175	24083	0.37%	0.065%
180	12.192	12.178	12.203	VV	731	9473	0.14%	0.026%
181	12.217	12.203	12.228	VV	649	8785	0.13%	0.024%
182	12.239	12.228	12.261	VV	626	8874	0.14%	0.024%
183	12.280	12.261	12.291	VV	431	5167	0.08%	0.014%
184	12.311	12.291	12.342	VV	599	12103	0.19%	0.033%
185	12.364	12.342	12.377	VV	728	11102	0.17%	0.030%
186	12.429	12.377	12.462	VV	6873	114772	1.76%	0.312%
187	12.472	12.462	12.495	VV	504	7709	0.12%	0.021%
188	12.537	12.495	12.547	VV	390	9989	0.15%	0.027%
189	12.564	12.547	12.611	VV	538	13522	0.21%	0.037%
190	12.651	12.611	12.683	VV	891	24133	0.37%	0.066%
191	12.703	12.683	12.750	VV	699	20652	0.32%	0.056%
192	12.802	12.750	12.827	VV	1251	29911	0.46%	0.081%
193	12.844	12.827	12.859	VV	1109	15493	0.24%	0.042%
194	12.895	12.859	12.908	VV	916	21566	0.33%	0.059%

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195	12.926	12.908	12.958	VV	1142	22816	0.35%	0.062%
196	13.012	12.958	13.044	VV	2511	47449	0.73%	0.129%
197	13.072	13.044	13.101	VV	11421	139587	2.13%	0.379%
198	13.132	13.101	13.151	VV	483	10249	0.16%	0.028%
199	13.190	13.151	13.209	VV	791	17409	0.27%	0.047%
200	13.217	13.209	13.235	VV	355	3795	0.06%	0.010%
201	13.245	13.235	13.258	VV	217	1580	0.02%	0.004%
202	13.344	13.258	13.381	PV	695	16641	0.25%	0.045%
203	13.397	13.381	13.414	VV	206	2856	0.04%	0.008%
204	13.437	13.414	13.450	VV	419	6405	0.10%	0.017%
205	13.524	13.450	13.613	VV	556088	6539343	100.00%	17.771%
206	13.629	13.613	13.658	VV	948	14761	0.23%	0.040%
207	13.687	13.658	13.718	VV	6205	80065	1.22%	0.218%
208	13.740	13.718	13.775	VV	600	13814	0.21%	0.038%
209	13.780	13.775	13.790	VV	274	1797	0.03%	0.005%
210	13.804	13.790	13.830	VV	203	1769	0.03%	0.005%
211	13.863	13.830	13.890	PV	8233	98027	1.50%	0.266%
212	13.912	13.890	13.938	VV	903	17662	0.27%	0.048%
213	13.965	13.938	14.023	VV	882	22807	0.35%	0.062%
214	14.039	14.023	14.048	VV	392	4307	0.07%	0.012%
215	14.094	14.048	14.161	VV	18789	258086	3.95%	0.701%
216	14.225	14.161	14.250	VV	4579	76947	1.18%	0.209%
217	14.274	14.250	14.322	VV	12216	163632	2.50%	0.445%
218	14.336	14.322	14.361	VV	512	10490	0.16%	0.029%
219	14.374	14.361	14.407	VV	518	9810	0.15%	0.027%
220	14.420	14.407	14.468	VV	461	11227	0.17%	0.031%
221	14.509	14.468	14.551	VV	1026	27142	0.42%	0.074%
222	14.571	14.551	14.586	VV	679	10027	0.15%	0.027%
223	14.611	14.586	14.627	VV	1080	16012	0.24%	0.044%
224	14.712	14.627	14.735	VV	2249	58296	0.89%	0.158%
225	14.751	14.735	14.768	VV	791	12576	0.19%	0.034%
226	14.798	14.768	14.815	VV	970	19573	0.30%	0.053%
227	14.839	14.815	14.885	VV	10132	136315	2.08%	0.370%
228	14.907	14.885	14.932	VV	899	21228	0.32%	0.058%
229	15.006	14.932	15.030	VV	6515	111549	1.71%	0.303%
230	15.047	15.030	15.078	VV	774	15134	0.23%	0.041%
231	15.108	15.078	15.128	VV	873	19964	0.31%	0.054%
232	15.144	15.128	15.171	VV	917	18444	0.28%	0.050%
233	15.219	15.171	15.261	VV	14590	210458	3.22%	0.572%
234	15.272	15.261	15.299	VV	821	11926	0.18%	0.032%
235	15.339	15.299	15.356	VV	3343	53811	0.82%	0.146%
236	15.381	15.356	15.411	VV	17430	235462	3.60%	0.640%
237	15.426	15.411	15.492	VV	974	27964	0.43%	0.076%
238	15.530	15.492	15.555	VV	500	13129	0.20%	0.036%
239	15.574	15.555	15.618	VV	569	12006	0.18%	0.033%
240	15.634	15.618	15.675	VV	413	9742	0.15%	0.026%
241	15.723	15.675	15.745	PV	1617	27145	0.42%	0.074%
242	15.771	15.745	15.801	VV	537	14239	0.22%	0.039%
243	15.853	15.801	15.874	VV	828	23364	0.36%	0.063%
244	15.903	15.874	15.988	VV	15365	217433	3.32%	0.591%
245	15.998	15.988	16.038	VV	339	5677	0.09%	0.015%
246	16.067	16.038	16.115	PV	615	17392	0.27%	0.047%

					rteres			
247	16.145	16.115	16.156	VV	634	8526	0.13%	0.023%
248	16.232	16.156	16.287	VV	1577	54619	0.84%	0.148%
249	16.305	16.287	16.325	VV	793	11312	0.17%	0.031%
250	16.369	16.325	16.380	PV	1559	23606	0.36%	0.064%
251	16.407	16.380	16.488	VV	20408	281548	4.31%	0.765%
252	16.504	16.488	16.517	PV	555	5776	0.09%	0.016%
253	16.532	16.517	16.548	VV	597	6258	0.10%	0.017%
254	16.630	16.548	16.667	VV	1633	44891	0.69%	0.122%
255	16.715	16.667	16.739	VV	1782	38082	0.58%	0.103%
256	16.780	16.739	16.805	VV	1586	35091	0.54%	0.095%
257	16.810	16.805	16.829	VV	417	3746	0.06%	0.010%
258	16.891	16.829	16.945	VV	19328	285501	4.37%	0.776%
259	17.004	16.945	17.013	PV	852	16557	0.25%	0.045%
260	17.049	17.013	17.090	VV	1569	50270	0.77%	0.137%
261	17.122	17.090	17.151	VV	1220	33563	0.51%	0.091%
262	17.194	17.151	17.208	VV	1421	33926	0.52%	0.092%
263	17.242	17.208	17.268	VV	1775	43000	0.66%	0.117%
264	17.359	17.268	17.385	VV	23276	380472	5.82%	1.034%
265	17.398	17.385	17.448	VV	4745	93221	1.43%	0.253%
266	17.489	17.448	17.531	VV	2235	86118	1.32%	0.234%
267	17.582	17.531	17.593	VV	3114	92228	1.41%	0.251%
268	17.625	17.593	17.678	VV	3726	131677	2.01%	0.358%
269	17.696	17.678	17.732	VV	3049	77695	1.19%	0.211%
270	17.767	17.732	17.780	VV	3052	70906	1.08%	0.193%
271	17.811	17.780	17.848	VV	38708	585582	8.95%	1.591%
272	17.864	17.848	17.885	VV	2676	47074	0.72%	0.128%
273	17.900	17.885	17.921	VV	2810	45662	0.70%	0.124%
274	17.948	17.921	17.978	VV	3748	78857	1.21%	0.214%
275	17.999	17.978	18.018	VV	1220	23235	0.36%	0.063%
276	18.031	18.018	18.057	VV	1923	30939	0.47%	0.084%
277	18.094	18.057	18.111	VV	2771	50353	0.77%	0.137%
278	18.165	18.111	18.197	VV	3412	100112	1.53%	0.272%
279	18.249	18.197	18.296	VV	26813	463523	7.09%	1.260%
280	18.312	18.296	18.327	VV	1634	25140	0.38%	0.068%
281	18.341	18.327	18.358	VV	1502	24514	0.37%	0.067%
282	18.417	18.358	18.434	VV	6178	141939	2.17%	0.386%
283	18.443	18.434	18.490	VV	4917	101392	1.55%	0.276%
284	18.517	18.490	18.540	VV	3082	64298	0.98%	0.175%
285	18.586	18.540	18.603	VV	3061	77923	1.19%	0.212%
286	18.672	18.603	18.718	VV	42292	678029	10.37%	1.843%
287	18.784	18.718	18.832	PV	5930	142133	2.17%	0.386%
288	18.850	18.832	18.879	VV	1069	16287	0.25%	0.044%
289	18.939	18.879	18.961	VV	2474	53672	0.82%	0.146%
290	18.982	18.961	19.017	VV	1732	34406	0.53%	0.094%
291	19.084	19.017	19.144	VV	19770	350109	5.35%	0.951%
292	19.160	19.144	19.171	VV	1230	16240	0.25%	0.044%
293	19.209	19.171	19.228	VV	3839	75516	1.15%	0.205%
294	19.257	19.228	19.308	VV	3379	96898	1.48%	0.263%
295	19.343	19.308	19.366	VV	2418	55530	0.85%	0.151%
296	19.388	19.366	19.407	VV	2561	41279	0.63%	0.112%
297	19.429	19.407	19.438	VV	1904	25669	0.39%	0.070%
298	19.483	19.438	19.510	VV	19398	335099	5.12%	0.911%
299	19.540	19.510	19.578	VV	4110	123979	1.90%	0.337%

					rteres			
300	19.606	19.578	19.653	VV	4164	157657	2.41%	0.428%
301	19.674	19.653	19.704	VV	3996	107952	1.65%	0.293%
302	19.729	19.704	19.755	VV	4415	112192	1.72%	0.305%
303	19.772	19.755	19.824	VV	4145	136723	2.09%	0.372%
304	19.870	19.824	19.898	VV	17514	358593	5.48%	0.975%
305	19.921	19.898	19.936	VV	6617	132575	2.03%	0.360%
306	19.961	19.936	19.973	VV	6077	133167	2.04%	0.362%
307	20.014	19.973	20.043	VV	8521	304679	4.66%	0.828%
308	20.068	20.043	20.083	VV	7526	174942	2.68%	0.475%
309	20.112	20.083	20.130	VV	8451	219604	3.36%	0.597%
310	20.157	20.130	20.172	VV	9525	217110	3.32%	0.590%
311	20.185	20.172	20.206	VV	9212	181795	2.78%	0.494%
312	20.245	20.206	20.271	VV	19083	509548	7.79%	1.385%
313	20.314	20.271	20.328	VV	12201	383616	5.87%	1.043%
314	20.345	20.328	20.355	VV	11832	191420	2.93%	0.520%
315	20.427	20.355	20.448	VV	13139	685165	10.48%	1.862%
316	20.529	20.448	20.552	VV	16235	915416	14.00%	2.488%
317	20.610	20.552	20.653	VV	25705	1151767	17.61%	3.130%
318	20.712	20.653	20.731	VV	19259	871120	13.32%	2.367%
319	20.751	20.731	20.801	VV	19389	778016	11.90%	2.114%
320	20.850	20.801	20.925	VV	19165	1339779	20.49%	3.641%
321	20.942	20.925	20.954	VV	17242	302179	4.62%	0.821%
322	20.983	20.954	21.014	VV	21204	670845	10.26%	1.823%
323	21.086	21.014	21.108	VV	19445	1051102	16.07%	2.856%
324	21.119	21.108	21.163	VV	18979	592056	9.05%	1.609%
325	21.183	21.163	21.311	VV	17269	1342919	20.54%	3.650%
326	21.322	21.311	21.333	VV	13516	176132	2.69%	0.479%
327	21.389	21.333	21.487	VV	17488	1314064	20.09%	3.571%
328	21.497	21.487	21.511	VV	11499	161621	2.47%	0.439%
329	21.527	21.511	21.545	VV	11323	227214	3.47%	0.617%
330	21.555	21.545	21.563	VV	10865	111629	1.71%	0.303%
331	21.606	21.563	21.621	VV	10725	372099	5.69%	1.011%
332	21.649	21.621	21.673	VV	10089	308164	4.71%	0.837%
333	21.716	21.673	21.725	VV	11310	332617	5.09%	0.904%
334	21.742	21.725	21.804	VV	11099	491824	7.52%	1.337%
335	21.814	21.804	21.833	VV	9180	154501	2.36%	0.420%
336	21.853	21.833	21.915	VV	9441	350768	5.36%	0.953%
337	21.924	21.915	21.933	VV	4765	52511	0.80%	0.143%
338	21.958	21.933	21.971	VV	5049	106640	1.63%	0.290%
339	22.023	21.971	22.093	VV	6565	387208	5.92%	1.052%
340	22.108	22.093	22.154	VV	4156	127782	1.95%	0.347%
341	22.165	22.154	22.208	VV	2750	69958	1.07%	0.190%
342	22.236	22.208	22.258	VV	2063	53269	0.81%	0.145%
343	22.305	22.258	22.328	VV	2895	102591	1.57%	0.279%
344	22.381	22.328	22.448	VV	4158	177360	2.71%	0.482%
345	22.483	22.448	22.525	VV	1617	45378	0.69%	0.123%
346	22.532	22.525	22.540	VV	273	1708	0.03%	0.005%
Sum of corrected areas:							36797286	

Aliphatic EPH 080125.M Mon Aug 25 11:54:53 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S05	SDG No.:	Q2832
Lab Sample ID:	Q2832-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.9
Sample Wt/Vol:	30.1 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/21/25 11:00	08/25/25 11:54	PB169364

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.46	J	1	0.15	1.10	mg/kg	FE055478.D
Aliphatic C12-C16	Aliphatic C12-C16	0.68	J	1	0.12	0.73	mg/kg	FE055478.D
Aliphatic C16-C21	Aliphatic C16-C21	0.66	J	1	0.14	1.10	mg/kg	FE055478.D
Aliphatic C21-C28	Aliphatic C21-C28	1.62		1	0.58	1.46	mg/kg	FE055478.D
Aliphatic C28-C40	Aliphatic C28-C40	11.2		1	1.29	2.19	mg/kg	FE055478.D
Aromatic C10-C12	Aromatic C10-C12	0.48	J	1	0.13	0.73	mg/kg	FD049653.D
Aromatic C12-C16	Aromatic C12-C16	0.73	J	1	0.25	1.10	mg/kg	FD049653.D
Aromatic C16-C21	Aromatic C16-C21	6.51		1	0.44	1.83	mg/kg	FD049653.D
Aromatic C21-C36	Aromatic C21-C36	9.81		1	1.30	2.92	mg/kg	FD049653.D
Total AliphaticEPH	Total AliphaticEPH	14.6			2.29	6.58	mg/kg	
Total AromaticEPH	Total AromaticEPH	17.5			2.12	6.58	mg/kg	
Total EPH	Total EPH	32.1			4.41	13.2	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:	Portal Partners Tri-Venture	Date Collected:	08/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S05	SDG No.:	Q2832
Lab Sample ID:	Q2832-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.9
Sample Wt/Vol:	30.1 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049653.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.48	J	0.13	0.73	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.73	J	0.25	1.10	mg/kg
Aromatic C16-C21	Aromatic C16-C21	6.51		0.44	1.83	mg/kg
Aromatic C21-C36	Aromatic C21-C36	9.81		1.30	2.92	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	64.7		40 - 140	129%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	64.5		40 - 140	129%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	56.4		40 - 140	113%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2832-09	Acq On:	22 Aug 2025 20:56
Client Sample ID:	TG-S05	Operator:	YP/AJ
Data file:	FD049653.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.407	6.150	713368	6.609	200	ug/ml
Aromatic C12-C16	6.151	8.778	1240740	10.04	300	ug/ml
Aromatic C16-C21	8.779	13.069	11272901	89.123	500	ug/ml
Aromatic C21-C36	13.070	18.489	15120402	134.262	800	ug/ml
Aromatic EPH	4.407	18.489	28347411	240.035		ug/ml
2-Bromonaphthalene (SURRE)	7.717	7.717	6629575	64.69		ug/ml
2-Fluorobiphenyl (SURRE)	8.582	8.582	4713081	64.52		ug/ml
ortho-Terphenyl (SURRE)	11.629	11.629	7313708	56.35		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049653.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 20:56
 Operator : YP/AJ
 Sample : Q2832-09
 Misc :
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 TG-S05

Integration File: sample.E
 Quant Time: Aug 25 01:50:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.717	6629575	64.687 ug/ml
Spiked Amount 50.000		Recovery =	129.37%
6) S 2-Fluorobiphenyl (SURR)	8.582	4713081	64.522 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	129.04%
11) S ortho-Terphenyl (SURR)	11.629	7313708	56.348 ug/ml
Spiked Amount 50.000		Recovery =	112.70%

Target Compounds

(f)=RT Delta > 1/2 Window

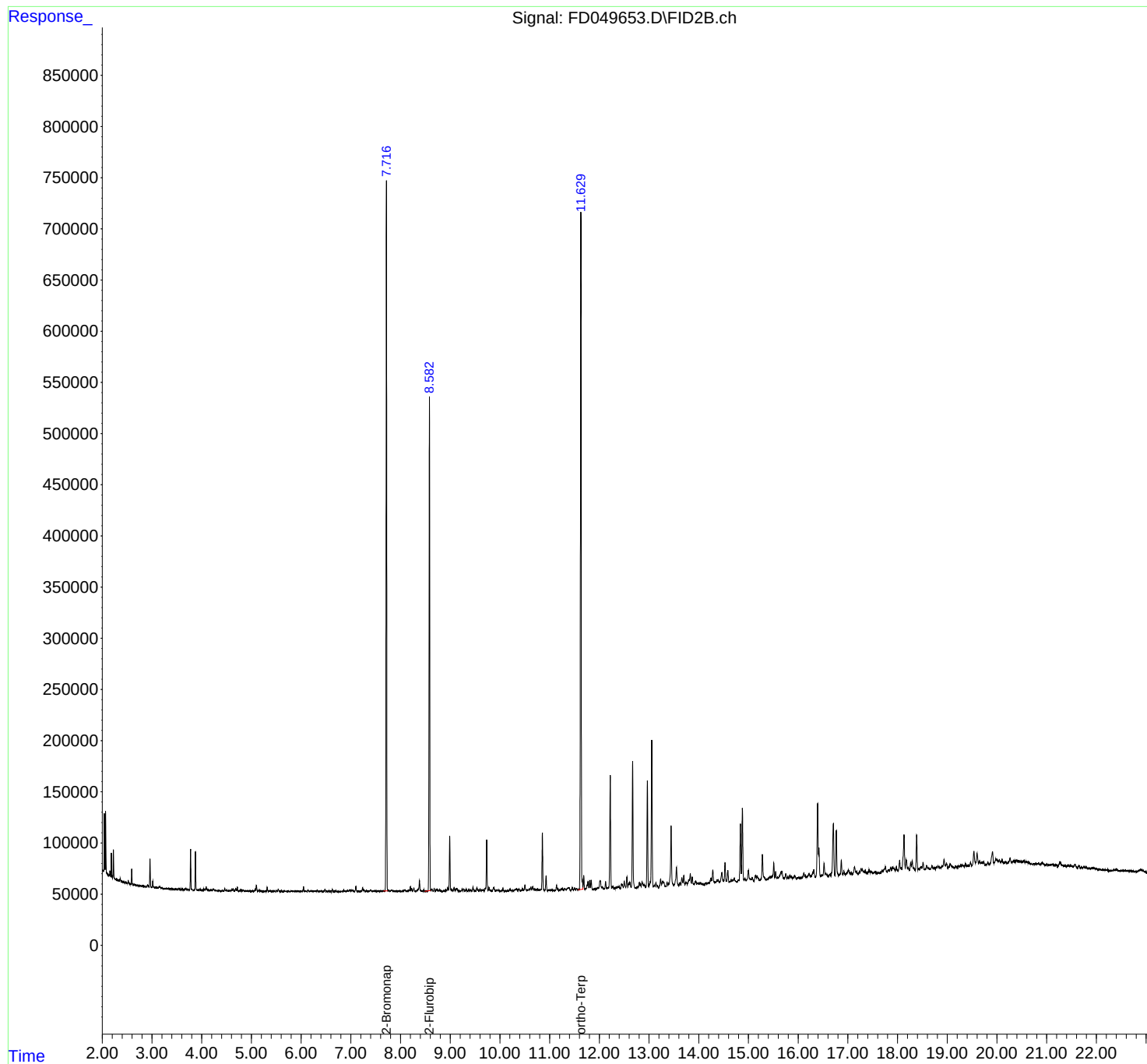
(m)=manual int.

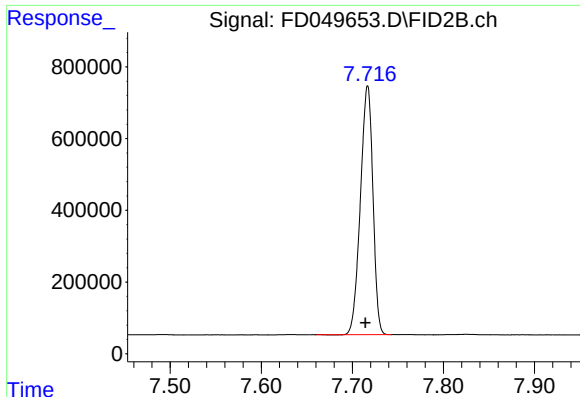
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049653.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 20:56
Operator : YP/AJ
Sample : Q2832-09
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
TG-S05

Integration File: sample.E
Quant Time: Aug 25 01:50:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

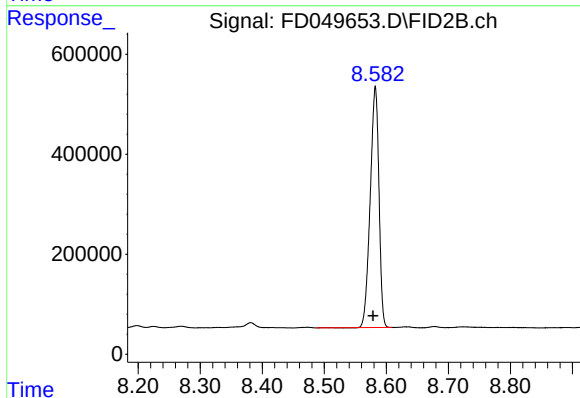




#4 2-Bromonaphthalene (SURR)

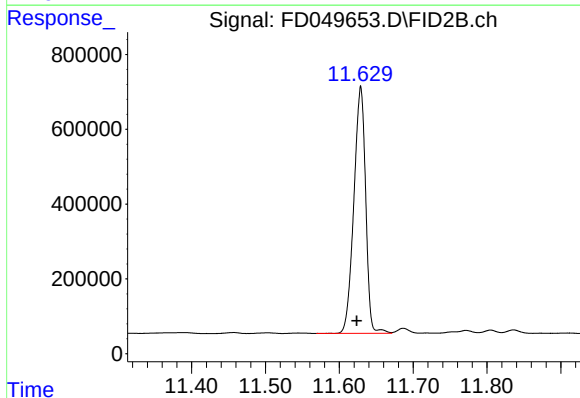
R.T.: 7.717 min
Delta R.T.: 0.002 min
Response: 6629575
Conc: 64.69 ug/ml

Instrument :
FID_D
ClientSampleId :
TG-S05



#6 2-Fluorobiphenyl (SURR)

R.T.: 8.582 min
Delta R.T.: 0.004 min
Response: 4713081
Conc: 64.52 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.629 min
Delta R.T.: 0.006 min
Response: 7313708
Conc: 56.35 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049653.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 20:56
 Sample : Q2832-09
 Misc :
 ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.285	4.277	4.297	PV	254	1490	0.02%	0.003%
2	4.301	4.297	4.340	VV	220	3363	0.05%	0.007%
3	4.352	4.340	4.383	PV	442	5397	0.07%	0.011%
4	4.418	4.383	4.434	PV	385	6579	0.09%	0.014%
5	4.464	4.434	4.489	VV	2583	27953	0.39%	0.059%
6	4.505	4.489	4.525	VV	1123	13555	0.19%	0.029%
7	4.536	4.525	4.553	VV	416	4793	0.07%	0.010%
8	4.578	4.553	4.592	VV	703	9813	0.14%	0.021%
9	4.606	4.592	4.619	VV	2397	20901	0.29%	0.044%
10	4.633	4.619	4.657	VV	2472	26210	0.36%	0.056%
11	4.687	4.657	4.704	PV	2738	33528	0.46%	0.071%
12	4.718	4.704	4.754	VV	4125	41297	0.57%	0.088%
13	4.770	4.754	4.782	VV	1370	12080	0.17%	0.026%
14	4.794	4.782	4.822	VV	2008	22790	0.31%	0.048%
15	4.836	4.822	4.862	VV	1227	17504	0.24%	0.037%
16	4.866	4.862	4.875	VV	272	1503	0.02%	0.003%
17	4.886	4.875	4.890	VV	387	2323	0.03%	0.005%
18	4.910	4.890	4.940	VV	666	12017	0.17%	0.026%
19	4.951	4.940	4.955	VV	375	2464	0.03%	0.005%
20	4.960	4.955	4.981	VV	373	3692	0.05%	0.008%
21	4.995	4.981	5.002	PV	341	2763	0.04%	0.006%
22	5.026	5.002	5.045	VV	483	7019	0.10%	0.015%
23	5.073	5.045	5.083	VV	1740	19239	0.27%	0.041%
24	5.099	5.083	5.131	VV	6129	71509	0.99%	0.152%
25	5.156	5.131	5.175	VV	1614	19287	0.27%	0.041%
26	5.190	5.175	5.254	VV	671	14464	0.20%	0.031%
27	5.317	5.265	5.349	VV	4411	51375	0.71%	0.109%
28	5.352	5.349	5.359	VV	169	1034	0.01%	0.002%
29	5.379	5.359	5.413	VV	640	13599	0.19%	0.029%
30	5.419	5.413	5.428	VV	201	1216	0.02%	0.003%
31	5.456	5.428	5.487	PV	614	11585	0.16%	0.025%
32	5.501	5.487	5.517	VV	1458	15524	0.21%	0.033%
33	5.541	5.517	5.563	VV	2608	34427	0.47%	0.073%
34	5.571	5.563	5.580	VV	539	3846	0.05%	0.008%
35	5.601	5.580	5.618	VV	734	10533	0.15%	0.022%
36	5.631	5.618	5.648	VV	328	3747	0.05%	0.008%

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37	5.662	5.648	5.675	VV	749	6989	0.10%	0.015%
38	5.686	5.675	5.706	VV	611	7308	0.10%	0.016%
39	5.712	5.706	5.721	VV	262	2018	0.03%	0.004%
40	5.741	5.721	5.762	VV	457	7939	0.11%	0.017%
41	5.767	5.762	5.779	VV	327	2122	0.03%	0.005%
42	5.793	5.779	5.817	VV	651	10313	0.14%	0.022%
43	5.839	5.817	5.855	VV	648	8799	0.12%	0.019%
44	5.869	5.855	5.875	VV	392	3512	0.05%	0.007%
45	5.889	5.875	5.904	VV	401	4621	0.06%	0.010%
46	5.917	5.911	5.935	VV	373	4331	0.06%	0.009%
47	5.953	5.935	5.973	VV	526	8666	0.12%	0.018%
48	6.004	5.973	6.013	VV	586	11074	0.15%	0.024%
49	6.050	6.013	6.071	VV	5003	59014	0.81%	0.125%
50	6.097	6.071	6.116	VV	830	13411	0.18%	0.029%
51	6.140	6.116	6.171	VV	1904	23082	0.32%	0.049%
52	6.204	6.171	6.235	VV	897	19915	0.27%	0.042%
53	6.259	6.235	6.269	VV	626	9781	0.13%	0.021%
54	6.274	6.269	6.289	VV	720	7342	0.10%	0.016%
55	6.293	6.289	6.312	VV	450	5610	0.08%	0.012%
56	6.325	6.312	6.341	VV	1212	14243	0.20%	0.030%
57	6.347	6.341	6.356	VV	416	2743	0.04%	0.006%
58	6.366	6.356	6.394	VV	429	7085	0.10%	0.015%
59	6.401	6.394	6.406	VV	416	2571	0.04%	0.005%
60	6.412	6.406	6.421	VV	450	2415	0.03%	0.005%
61	6.436	6.421	6.452	VV	403	5018	0.07%	0.011%
62	6.479	6.452	6.503	VV	2663	32356	0.45%	0.069%
63	6.515	6.503	6.529	VV	428	4661	0.06%	0.010%
64	6.565	6.529	6.578	VV	719	14583	0.20%	0.031%
65	6.599	6.578	6.612	VV	850	10273	0.14%	0.022%
66	6.628	6.612	6.651	VV	2098	22587	0.31%	0.048%
67	6.665	6.651	6.685	VV	570	6576	0.09%	0.014%
68	6.701	6.685	6.726	VV	1166	13539	0.19%	0.029%
69	6.734	6.726	6.752	VV	336	3318	0.05%	0.007%
70	6.760	6.752	6.771	VV	385	2236	0.03%	0.005%
71	6.801	6.771	6.806	PV	516	5120	0.07%	0.011%
72	6.810	6.806	6.827	VV	470	4717	0.07%	0.010%
73	6.835	6.827	6.840	VV	466	2748	0.04%	0.006%
74	6.859	6.840	6.895	VV	1507	24342	0.34%	0.052%
75	6.922	6.895	6.928	VV	1059	12123	0.17%	0.026%
76	6.940	6.928	6.956	VV	963	14118	0.19%	0.030%
77	6.976	6.956	6.990	VV	1686	23907	0.33%	0.051%
78	6.997	6.990	7.020	VV	1252	20281	0.28%	0.043%
79	7.036	7.020	7.073	VV	1445	25060	0.35%	0.053%
80	7.102	7.073	7.126	VV	5396	61456	0.85%	0.131%
81	7.143	7.126	7.147	VV	484	4505	0.06%	0.010%
82	7.152	7.147	7.165	VV	704	4833	0.07%	0.010%
83	7.182	7.165	7.193	VV	630	6978	0.10%	0.015%
84	7.212	7.193	7.216	VV	461	4642	0.06%	0.010%
85	7.239	7.216	7.254	VV	4250	45960	0.63%	0.098%
86	7.263	7.254	7.287	VV	2181	26981	0.37%	0.057%
87	7.317	7.287	7.337	VV	1028	16264	0.22%	0.035%
88	7.342	7.337	7.357	VV	376	3739	0.05%	0.008%
89	7.369	7.357	7.379	VV	629	6501	0.09%	0.014%

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90	7.399	7.379	7.423	VV	1773	26734	0.37%	0.057%
91	7.441	7.423	7.446	VV	527	4768	0.07%	0.010%
92	7.466	7.446	7.477	VV	696	10241	0.14%	0.022%
93	7.492	7.477	7.521	VV	1147	14825	0.20%	0.032%
94	7.541	7.521	7.547	VV	463	4084	0.06%	0.009%
95	7.552	7.547	7.565	VV	506	4111	0.06%	0.009%
96	7.578	7.565	7.585	VV	438	3734	0.05%	0.008%
97	7.594	7.585	7.612	VV	515	5508	0.08%	0.012%
98	7.632	7.612	7.648	VV	1071	14120	0.19%	0.030%
99	7.664	7.648	7.678	VV	905	10579	0.15%	0.022%
100	7.717	7.678	7.750	VV	696106	6664613	91.86%	14.172%
101	7.761	7.750	7.792	VV	1110	17335	0.24%	0.037%
102	7.826	7.792	7.872	VV	1812	40093	0.55%	0.085%
103	7.888	7.872	7.901	VV	484	6099	0.08%	0.013%
104	7.915	7.901	7.944	VV	420	6547	0.09%	0.014%
105	7.966	7.944	7.981	VV	1104	14863	0.20%	0.032%
106	7.987	7.981	8.009	VV	886	8826	0.12%	0.019%
107	8.025	8.009	8.032	VV	390	3862	0.05%	0.008%
108	8.047	8.032	8.063	VV	588	9499	0.13%	0.020%
109	8.078	8.063	8.087	VV	1774	18921	0.26%	0.040%
110	8.095	8.087	8.133	VV	1771	21273	0.29%	0.045%
111	8.166	8.133	8.177	VV	1094	18833	0.26%	0.040%
112	8.198	8.177	8.213	VV	4844	54773	0.75%	0.116%
113	8.225	8.213	8.241	VV	3119	32763	0.45%	0.070%
114	8.269	8.241	8.295	VV	3385	51162	0.71%	0.109%
115	8.310	8.295	8.317	VV	545	5868	0.08%	0.012%
116	8.329	8.317	8.339	VV	1140	11437	0.16%	0.024%
117	8.381	8.339	8.405	VV	10753	147041	2.03%	0.313%
118	8.416	8.405	8.449	VV	853	13402	0.18%	0.028%
119	8.473	8.449	8.487	VV	1422	17218	0.24%	0.037%
120	8.503	8.487	8.534	VV	576	9813	0.14%	0.021%
121	8.582	8.534	8.610	VV	482242	4748415	65.45%	10.097%
122	8.631	8.610	8.656	VV	2246	36802	0.51%	0.078%
123	8.678	8.656	8.695	VV	2933	33715	0.46%	0.072%
124	8.725	8.695	8.771	VV	2235	60764	0.84%	0.129%
125	8.779	8.771	8.794	VV	1045	12224	0.17%	0.026%
126	8.804	8.794	8.848	VV	989	18191	0.25%	0.039%
127	8.870	8.848	8.875	PV	557	5735	0.08%	0.012%
128	8.889	8.875	8.904	VV	803	10797	0.15%	0.023%
129	8.917	8.904	8.932	VV	1405	16815	0.23%	0.036%
130	8.948	8.932	8.966	VV	3762	42371	0.58%	0.090%
131	8.990	8.966	9.030	VV	54122	561797	7.74%	1.195%
132	9.041	9.030	9.055	VV	1487	17906	0.25%	0.038%
133	9.080	9.055	9.101	VV	3182	57904	0.80%	0.123%
134	9.123	9.101	9.133	VV	2728	39274	0.54%	0.084%
135	9.142	9.133	9.164	VV	2611	27801	0.38%	0.059%
136	9.181	9.164	9.199	VV	701	7732	0.11%	0.016%
137	9.204	9.199	9.210	VV	191	1002	0.01%	0.002%
138	9.239	9.210	9.256	VV	2611	31890	0.44%	0.068%
139	9.273	9.256	9.298	VV	2614	32983	0.45%	0.070%
140	9.318	9.298	9.342	VV	1892	28222	0.39%	0.060%
141	9.375	9.342	9.397	VV	2593	37473	0.52%	0.080%

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142	9.415	9.397	9.435	VV	1466	21166	0.29%	0.045%
143	9.458	9.435	9.505	VV	4284	64921	0.89%	0.138%
144	9.537	9.505	9.573	VV	3600	61573	0.85%	0.131%
145	9.606	9.573	9.622	VV	1691	31265	0.43%	0.066%
146	9.640	9.622	9.655	VV	1476	19834	0.27%	0.042%
147	9.663	9.655	9.679	VV	1177	13379	0.18%	0.028%
148	9.705	9.679	9.713	VV	2944	35280	0.49%	0.075%
149	9.735	9.713	9.760	VV	50465	505157	6.96%	1.074%
150	9.780	9.760	9.819	VV	3574	56515	0.78%	0.120%
151	9.826	9.819	9.846	VV	679	8480	0.12%	0.018%
152	9.877	9.846	9.920	VV	3828	76249	1.05%	0.162%
153	9.939	9.920	9.960	VV	1593	19797	0.27%	0.042%
154	9.969	9.960	10.005	VV	818	10976	0.15%	0.023%
155	10.061	10.005	10.086	VV	3452	49102	0.68%	0.104%
156	10.093	10.086	10.112	VV	222	2182	0.03%	0.005%
157	10.154	10.112	10.160	PV	444	6169	0.09%	0.013%
158	10.164	10.160	10.185	VV	470	5905	0.08%	0.013%
159	10.203	10.185	10.222	VV	2332	31763	0.44%	0.068%
160	10.226	10.222	10.242	VV	1183	8748	0.12%	0.019%
161	10.255	10.242	10.274	VV	804	9775	0.13%	0.021%
162	10.310	10.274	10.322	VV	1880	33829	0.47%	0.072%
163	10.335	10.322	10.360	VV	2360	32970	0.45%	0.070%
164	10.383	10.360	10.418	VV	1917	36387	0.50%	0.077%
165	10.424	10.418	10.430	VV	651	4170	0.06%	0.009%
166	10.454	10.430	10.472	VV	2302	34677	0.48%	0.074%
167	10.503	10.472	10.544	VV	5809	90278	1.24%	0.192%
168	10.556	10.544	10.564	VV	1122	11076	0.15%	0.024%
169	10.566	10.564	10.574	VV	929	4969	0.07%	0.011%
170	10.623	10.574	10.639	VV	3832	72396	1.00%	0.154%
171	10.658	10.639	10.696	VV	4094	74623	1.03%	0.159%
172	10.698	10.696	10.712	VV	1293	11627	0.16%	0.025%
173	10.724	10.712	10.740	VV	1424	20140	0.28%	0.043%
174	10.754	10.740	10.770	VV	2035	24579	0.34%	0.052%
175	10.789	10.770	10.807	VV	1320	19696	0.27%	0.042%
176	10.823	10.807	10.832	VV	1715	17417	0.24%	0.037%
177	10.855	10.832	10.900	VV	56821	611825	8.43%	1.301%
178	10.929	10.900	10.966	VV	14609	161657	2.23%	0.344%
179	10.984	10.966	10.998	VV	849	10731	0.15%	0.023%
180	11.031	10.998	11.057	VV	879	19797	0.27%	0.042%
181	11.061	11.057	11.077	VV	483	3715	0.05%	0.008%
182	11.080	11.077	11.098	VV	294	1966	0.03%	0.004%
183	11.109	11.098	11.119	PV	399	3067	0.04%	0.007%
184	11.139	11.119	11.155	VV	5385	58089	0.80%	0.124%
185	11.162	11.155	11.187	VV	1484	16264	0.22%	0.035%
186	11.217	11.187	11.227	PV	815	11921	0.16%	0.025%
187	11.247	11.227	11.257	VV	1347	21247	0.29%	0.045%
188	11.260	11.257	11.287	VV	1344	16693	0.23%	0.035%
189	11.304	11.287	11.334	VV	1867	32981	0.45%	0.070%
190	11.391	11.334	11.432	VV	2699	86100	1.19%	0.183%
191	11.457	11.432	11.476	VV	2951	36124	0.50%	0.077%
192	11.504	11.476	11.524	VV	2086	31470	0.43%	0.067%
193	11.544	11.524	11.565	VV	1425	22583	0.31%	0.048%
194	11.570	11.565	11.577	VV	489	2986	0.04%	0.006%

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195	11.587	11.577	11.592	VV	734	4538	0.06%	0.010%
196	11.629	11.592	11.651	VV	660633	7255388	100.00%	15.428%
197	11.656	11.651	11.671	VV	10240	85934	1.18%	0.183%
198	11.687	11.671	11.709	VV	13948	157393	2.17%	0.335%
199	11.719	11.709	11.732	VV	1362	15340	0.21%	0.033%
200	11.772	11.732	11.789	VV	8275	142963	1.97%	0.304%
201	11.805	11.789	11.820	VV	9095	101595	1.40%	0.216%
202	11.836	11.820	11.863	VV	9495	113213	1.56%	0.241%
203	11.874	11.863	11.890	VV	658	6867	0.09%	0.015%
204	11.908	11.890	11.926	VV	943	12456	0.17%	0.026%
205	11.972	11.926	11.986	PV	1929	38925	0.54%	0.083%
206	12.020	11.986	12.050	VV	8685	186578	2.57%	0.397%
207	12.061	12.050	12.087	VV	2363	34760	0.48%	0.074%
208	12.094	12.087	12.100	VV	580	3781	0.05%	0.008%
209	12.126	12.100	12.147	VV	7682	91012	1.25%	0.194%
210	12.160	12.147	12.169	VV	1260	14472	0.20%	0.031%
211	12.220	12.169	12.250	VV	111581	1329335	18.32%	2.827%
212	12.273	12.250	12.294	VV	2772	46572	0.64%	0.099%
213	12.306	12.294	12.319	VV	1132	13377	0.18%	0.028%
214	12.334	12.319	12.345	VV	1455	18946	0.26%	0.040%
215	12.356	12.345	12.363	VV	1656	15431	0.21%	0.033%
216	12.377	12.363	12.390	VV	2142	29177	0.40%	0.062%
217	12.397	12.390	12.422	VV	2038	24038	0.33%	0.051%
218	12.446	12.422	12.454	VV	4824	54678	0.75%	0.116%
219	12.460	12.454	12.483	VV	4072	50437	0.70%	0.107%
220	12.502	12.483	12.534	VV	7220	107459	1.48%	0.229%
221	12.554	12.534	12.573	VV	11450	147294	2.03%	0.313%
222	12.591	12.573	12.601	VV	4960	67672	0.93%	0.144%
223	12.615	12.601	12.636	VV	6217	86025	1.19%	0.183%
224	12.670	12.636	12.725	VV	124229	1414944	19.50%	3.009%
225	12.769	12.725	12.776	VV	1320	20553	0.28%	0.044%
226	12.805	12.776	12.819	VV	5831	82083	1.13%	0.175%
227	12.829	12.819	12.842	VV	3583	40948	0.56%	0.087%
228	12.859	12.842	12.902	VV	5665	137857	1.90%	0.293%
229	12.908	12.902	12.938	VV	2460	39191	0.54%	0.083%
230	12.967	12.938	12.992	VV	104863	1152738	15.89%	2.451%
231	13.023	12.992	13.030	VV	6369	91433	1.26%	0.194%
232	13.055	13.030	13.084	VV	144341	1666483	22.97%	3.544%
233	13.103	13.084	13.120	VV	2252	35372	0.49%	0.075%
234	13.139	13.120	13.192	VV	4741	84280	1.16%	0.179%
235	13.233	13.192	13.253	PV	8226	125408	1.73%	0.267%
236	13.275	13.253	13.290	VV	6299	107312	1.48%	0.228%
237	13.299	13.290	13.331	VV	5006	70483	0.97%	0.150%
238	13.363	13.331	13.379	VV	4911	68877	0.95%	0.146%
239	13.393	13.379	13.403	VV	3285	39242	0.54%	0.083%
240	13.444	13.403	13.495	VV	59582	872178	12.02%	1.855%
241	13.553	13.495	13.599	VV	18630	360701	4.97%	0.767%
242	13.622	13.599	13.638	VV	3369	50301	0.69%	0.107%
243	13.662	13.638	13.681	VV	8230	125445	1.73%	0.267%
244	13.700	13.681	13.722	VV	10392	136287	1.88%	0.290%
245	13.747	13.722	13.770	VV	3372	76032	1.05%	0.162%
246	13.809	13.770	13.813	VV	5253	97243	1.34%	0.207%

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247	13.831	13.813	13.854	VV	11372	160010	2.21%	0.340%
248	13.870	13.854	13.909	VV	8207	118923	1.64%	0.253%
249	13.933	13.909	13.962	VV	3758	75167	1.04%	0.160%
250	13.978	13.962	14.000	VV	1614	32466	0.45%	0.069%
251	14.010	14.000	14.019	VV	1692	17102	0.24%	0.036%
252	14.035	14.019	14.057	VV	1807	30207	0.42%	0.064%
253	14.066	14.057	14.109	VV	1139	21004	0.29%	0.045%
254	14.137	14.109	14.156	VV	1645	24087	0.33%	0.051%
255	14.169	14.156	14.177	VV	1239	12810	0.18%	0.027%
256	14.192	14.177	14.208	VV	1819	23837	0.33%	0.051%
257	14.243	14.208	14.262	VV	5680	110439	1.52%	0.235%
258	14.283	14.262	14.329	VV	13830	216751	2.99%	0.461%
259	14.337	14.329	14.343	VV	1695	13217	0.18%	0.028%
260	14.366	14.343	14.376	VV	3414	48771	0.67%	0.104%
261	14.388	14.376	14.421	VV	3667	69591	0.96%	0.148%
262	14.465	14.421	14.487	VV	10817	212421	2.93%	0.452%
263	14.492	14.487	14.503	VV	3062	27821	0.38%	0.059%
264	14.529	14.503	14.552	VV	20238	264956	3.65%	0.563%
265	14.584	14.552	14.614	VV	12564	191435	2.64%	0.407%
266	14.654	14.614	14.667	VV	2653	56502	0.78%	0.120%
267	14.711	14.667	14.770	VV	4167	133748	1.84%	0.284%
268	14.792	14.770	14.804	VV	2770	35162	0.48%	0.075%
269	14.838	14.804	14.856	VV	57123	708184	9.76%	1.506%
270	14.878	14.856	14.912	VV	72450	943597	13.01%	2.007%
271	14.928	14.912	14.957	VV	3744	65023	0.90%	0.138%
272	14.998	14.957	15.030	VV	11237	218019	3.00%	0.464%
273	15.036	15.030	15.057	VV	2767	42010	0.58%	0.089%
274	15.075	15.057	15.107	VV	3919	66648	0.92%	0.142%
275	15.139	15.107	15.164	VV	5426	117024	1.61%	0.249%
276	15.174	15.164	15.191	VV	5289	69918	0.96%	0.149%
277	15.197	15.191	15.230	VV	3160	45325	0.62%	0.096%
278	15.280	15.230	15.342	VV	25589	439084	6.05%	0.934%
279	15.351	15.342	15.367	VV	1392	18179	0.25%	0.039%
280	15.372	15.367	15.382	VV	1372	10907	0.15%	0.023%
281	15.441	15.382	15.453	VV	3538	104064	1.43%	0.221%
282	15.468	15.453	15.479	VV	4276	56001	0.77%	0.119%
283	15.509	15.479	15.529	VV	16935	249135	3.43%	0.530%
284	15.546	15.529	15.575	VV	8562	122407	1.69%	0.260%
285	15.590	15.575	15.602	VV	2597	33264	0.46%	0.071%
286	15.650	15.602	15.658	VV	7092	148241	2.04%	0.315%
287	15.672	15.658	15.717	VV	8125	153153	2.11%	0.326%
288	15.750	15.717	15.772	VV	5675	90491	1.25%	0.192%
289	15.793	15.772	15.813	VV	2095	36051	0.50%	0.077%
290	15.832	15.813	15.846	VV	3828	50846	0.70%	0.108%
291	15.860	15.846	15.884	VV	3043	45930	0.63%	0.098%
292	15.925	15.884	15.962	VV	3056	76341	1.05%	0.162%
293	15.978	15.962	15.990	PV	748	8456	0.12%	0.018%
294	15.999	15.990	16.005	VV	855	6128	0.08%	0.013%
295	16.011	16.005	16.025	VV	800	7744	0.11%	0.016%
296	16.034	16.025	16.050	VV	768	7819	0.11%	0.017%
297	16.064	16.050	16.080	VV	410	4953	0.07%	0.011%
298	16.114	16.080	16.133	VV	5166	82577	1.14%	0.176%
299	16.144	16.133	16.161	VV	2526	29277	0.40%	0.062%

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300	16.180	16.161	16.188	VV	1616	20519	0.28%	0.044%
301	16.220	16.188	16.241	VV	3913	81973	1.13%	0.174%
302	16.254	16.241	16.263	VV	2037	22828	0.31%	0.049%
303	16.315	16.263	16.345	VV	7989	177621	2.45%	0.378%
304	16.392	16.345	16.410	VV	72320	1012963	13.96%	2.154%
305	16.418	16.410	16.460	VV	28720	325178	4.48%	0.691%
306	16.485	16.460	16.497	VV	1967	34143	0.47%	0.073%
307	16.522	16.497	16.547	VV	13342	191122	2.63%	0.406%
308	16.558	16.547	16.610	VV	3634	64649	0.89%	0.137%
309	16.641	16.610	16.655	VV	2512	39592	0.55%	0.084%
310	16.709	16.655	16.738	VV	51630	885522	12.21%	1.883%
311	16.768	16.738	16.820	VV	44705	581292	8.01%	1.236%
312	16.869	16.820	16.894	VV	15076	216582	2.99%	0.461%
313	16.919	16.894	16.950	VV	3685	68746	0.95%	0.146%
314	16.981	16.950	16.989	VV	2763	43321	0.60%	0.092%
315	17.010	16.989	17.044	VV	5088	117001	1.61%	0.249%
316	17.048	17.044	17.061	VV	1913	17052	0.24%	0.036%
317	17.072	17.061	17.093	VV	2050	25116	0.35%	0.053%
318	17.135	17.093	17.160	VV	7735	163039	2.25%	0.347%
319	17.175	17.160	17.205	VV	3317	50424	0.69%	0.107%
320	17.231	17.205	17.242	VV	3088	37385	0.52%	0.079%
321	17.266	17.242	17.280	VV	5939	90530	1.25%	0.193%
322	17.292	17.280	17.308	VV	5113	63022	0.87%	0.134%
323	17.319	17.308	17.334	VV	2830	36191	0.50%	0.077%
324	17.349	17.334	17.369	VV	3067	43721	0.60%	0.093%
325	17.377	17.369	17.394	VV	1746	19350	0.27%	0.041%
326	17.426	17.394	17.454	VV	4187	83957	1.16%	0.179%
327	17.465	17.454	17.506	VV	2404	39855	0.55%	0.085%
328	17.542	17.506	17.576	VV	1784	40955	0.56%	0.087%
329	17.580	17.576	17.589	VV	399	1607	0.02%	0.003%
330	17.609	17.589	17.645	PV	1093	14538	0.20%	0.031%
331	17.687	17.645	17.705	PV	2271	38371	0.53%	0.082%
332	17.756	17.705	17.789	VV	5710	148626	2.05%	0.316%
333	17.817	17.789	17.834	VV	2962	51534	0.71%	0.110%
334	17.860	17.834	17.877	VV	4719	75995	1.05%	0.162%
335	17.897	17.877	17.910	VV	5069	72075	0.99%	0.153%
336	17.926	17.910	17.952	VV	3730	72783	1.00%	0.155%
337	17.975	17.952	18.010	VV	4014	79523	1.10%	0.169%
338	18.041	18.010	18.060	VV	10929	162241	2.24%	0.345%
339	18.068	18.060	18.085	VV	3634	46049	0.63%	0.098%
340	18.130	18.085	18.155	VV	35753	621287	8.56%	1.321%
341	18.175	18.155	18.201	VV	10854	185306	2.55%	0.394%
342	18.214	18.201	18.238	VV	3463	48636	0.67%	0.103%
343	18.264	18.238	18.277	VV	7691	106618	1.47%	0.227%
344	18.294	18.277	18.317	VV	9596	141792	1.95%	0.302%
345	18.321	18.317	18.353	VV	2320	26271	0.36%	0.056%
346	18.384	18.353	18.410	PV	34402	405619	5.59%	0.863%
347	18.425	18.410	18.436	PV	591	5082	0.07%	0.011%
348	18.473	18.436	18.490	PV	1505	20416	0.28%	0.043%
Sum of corrected areas:					47026080			

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S05	SDG No.:	Q2832
Lab Sample ID:	Q2832-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.9
Sample Wt/Vol:	30.1 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055478.D	1	08/21/25	08/25/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.46	J	0.15	1.10	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.68	J	0.12	0.73	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.66	J	0.14	1.10	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	1.62		0.58	1.46	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.2		1.29	2.19	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	66.5		40 - 140	133%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2832-09	Acq On:	25 Aug 2025 11:54
Client Sample ID:	TG-S05	Operator:	YP\AJ
Data file:	FE055478.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.318	6.954	726329	6.219	300	ug/ml
Aliphatic C12-C16	6.955	10.408	1157989	9.247	200	ug/ml
Aliphatic C16-C21	10.409	13.788	1143346	9.045	300	ug/ml
Aliphatic C21-C28	13.789	17.461	2676978	22.215	400	ug/ml
Aliphatic C28-C40	17.462	22.488	17492397	153.459	600	ug/ml
Aliphatic EPH	3.318	22.488	23197039	200.186		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.524	13.524	7154922	66.54		ug/ml
Aliphatic C9-C28	3.318	17.461	5704642	46.726	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055478.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 11:54
Operator : YP\AJ
Sample : Q2832-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 12:21:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 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...	13.524	7154922	66.543 ug/ml
Spiked Amount 50.000		Recovery =	133.09%

Target Compounds

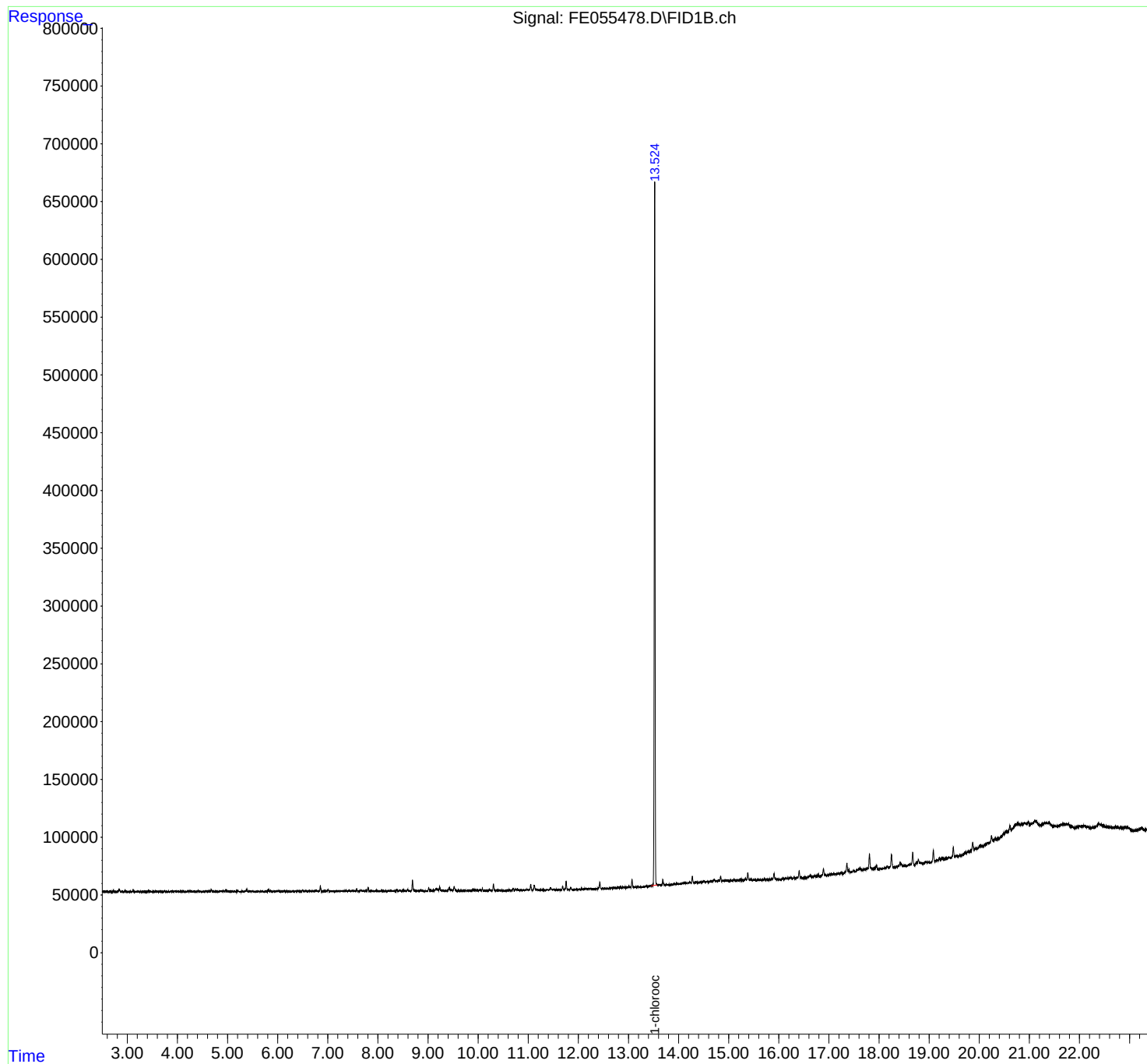
(f)=RT Delta > 1/2 Window

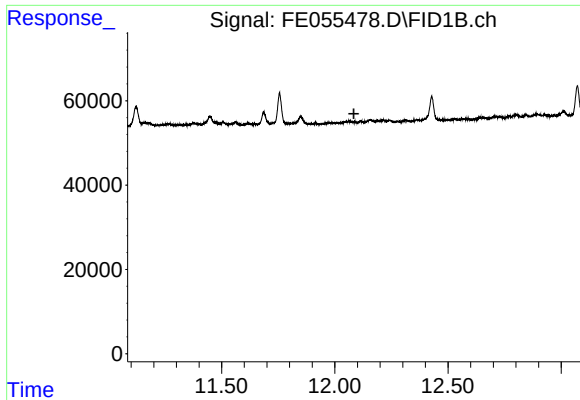
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055478.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 11:54
Operator : YP\AJ
Sample : Q2832-09
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 12:21:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

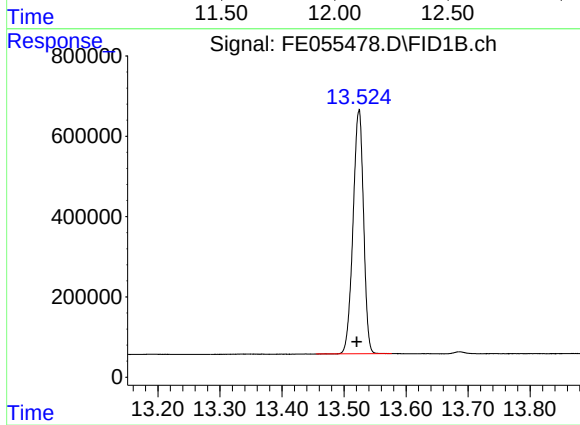
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.084 min
Response: 0
Conc: N.D.



#12 1-chlorooctadecane (SURR)

R.T.: 13.524 min
Delta R.T.: 0.004 min
Response: 7154922
Conc: 66.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
 Data File : FE055478.D
 Signal(s) : FID1B.ch
 Acq On : 25 Aug 2025 11:54
 Sample : Q2832-09
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.833	2.804	2.873	BV	2118	35268	0.49%	0.116%
2	2.887	2.873	2.912	VV	341	4249	0.06%	0.014%
3	2.925	2.912	2.933	VV	94	758	0.01%	0.002%
4	2.956	2.933	3.019	VV	1193	15207	0.21%	0.050%
5	3.056	3.019	3.083	PV	261	4361	0.06%	0.014%
6	3.112	3.083	3.174	VV	1479	17836	0.25%	0.058%
7	3.199	3.174	3.216	VV	378	5850	0.08%	0.019%
8	3.227	3.216	3.254	VV	245	3864	0.05%	0.013%
9	3.265	3.254	3.281	VV	122	1522	0.02%	0.005%
10	3.286	3.281	3.324	VV	145	1863	0.03%	0.006%
11	3.346	3.324	3.361	VV	200	2825	0.04%	0.009%
12	3.418	3.361	3.521	VV	1003	23965	0.33%	0.079%
13	3.529	3.521	3.550	VV	326	3409	0.05%	0.011%
14	3.567	3.550	3.583	VV	369	5144	0.07%	0.017%
15	3.598	3.583	3.618	VV	386	5298	0.07%	0.017%
16	3.640	3.618	3.698	VV	279	9458	0.13%	0.031%
17	3.704	3.698	3.712	VV	151	859	0.01%	0.003%
18	3.739	3.712	3.768	VV	632	10641	0.15%	0.035%
19	3.780	3.768	3.790	VV	198	2173	0.03%	0.007%
20	3.811	3.790	3.823	VV	344	4612	0.06%	0.015%
21	3.827	3.823	3.850	VV	288	3313	0.05%	0.011%
22	3.870	3.850	3.928	VV	697	14441	0.20%	0.047%
23	3.953	3.928	3.988	VV	868	13601	0.19%	0.045%
24	4.008	3.988	4.046	VV	502	8880	0.12%	0.029%
25	4.062	4.046	4.084	VV	463	5089	0.07%	0.017%
26	4.115	4.084	4.176	VV	532	11851	0.16%	0.039%
27	4.216	4.176	4.231	VV	758	12038	0.17%	0.039%
28	4.248	4.231	4.274	VV	1060	13855	0.19%	0.045%
29	4.286	4.274	4.304	VV	324	3937	0.05%	0.013%
30	4.325	4.304	4.354	VV	621	7974	0.11%	0.026%
31	4.403	4.354	4.416	PV	797	13326	0.18%	0.044%
32	4.420	4.416	4.436	VV	627	5324	0.07%	0.017%
33	4.450	4.436	4.474	VV	461	6614	0.09%	0.022%
34	4.493	4.474	4.505	VV	252	3647	0.05%	0.012%
35	4.513	4.505	4.538	VV	223	2984	0.04%	0.010%
36	4.579	4.538	4.598	VV	366	8340	0.12%	0.027%

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37	4.622	4.598	4.648	VV	297	6615	0.09%	0.022%
38	4.676	4.648	4.706	VV	1961	25592	0.35%	0.084%
39	4.719	4.706	4.736	VV	380	4432	0.06%	0.015%
40	4.754	4.736	4.778	VV	253	5468	0.08%	0.018%
41	4.790	4.778	4.818	VV	435	6125	0.08%	0.020%
42	4.867	4.818	4.883	VV	731	15682	0.22%	0.051%
43	4.896	4.883	4.909	VV	557	6509	0.09%	0.021%
44	4.928	4.909	4.944	VV	860	11670	0.16%	0.038%
45	4.962	4.944	4.981	VV	1937	21627	0.30%	0.071%
46	4.992	4.981	5.014	VV	596	8828	0.12%	0.029%
47	5.019	5.014	5.038	VV	390	4748	0.07%	0.016%
48	5.045	5.038	5.080	VV	370	6994	0.10%	0.023%
49	5.097	5.080	5.112	VV	427	5484	0.08%	0.018%
50	5.137	5.112	5.165	VV	426	9444	0.13%	0.031%
51	5.198	5.165	5.228	VV	656	11401	0.16%	0.037%
52	5.258	5.228	5.272	VV	226	4595	0.06%	0.015%
53	5.294	5.272	5.317	VV	300	4659	0.06%	0.015%
54	5.354	5.317	5.363	VV	596	6951	0.10%	0.023%
55	5.382	5.363	5.414	VV	1862	25645	0.35%	0.084%
56	5.437	5.414	5.457	VV	645	10420	0.14%	0.034%
57	5.469	5.457	5.483	VV	476	5083	0.07%	0.017%
58	5.497	5.483	5.542	VV	507	8997	0.12%	0.029%
59	5.569	5.542	5.578	PV	182	2571	0.04%	0.008%
60	5.601	5.578	5.610	VV	233	3544	0.05%	0.012%
61	5.626	5.610	5.653	VV	333	6253	0.09%	0.020%
62	5.666	5.653	5.677	VV	273	3037	0.04%	0.010%
63	5.696	5.677	5.750	VV	402	8843	0.12%	0.029%
64	5.818	5.750	5.848	VV	2147	32211	0.45%	0.106%
65	5.861	5.848	5.896	VV	857	11683	0.16%	0.038%
66	5.920	5.896	5.934	VV	334	4874	0.07%	0.016%
67	5.944	5.934	5.967	VV	259	3849	0.05%	0.013%
68	6.014	5.967	6.058	VV	763	18157	0.25%	0.059%
69	6.077	6.058	6.103	VV	292	5513	0.08%	0.018%
70	6.128	6.103	6.166	VV	529	9954	0.14%	0.033%
71	6.189	6.166	6.198	VV	177	2693	0.04%	0.009%
72	6.214	6.198	6.225	VV	243	2887	0.04%	0.009%
73	6.248	6.225	6.271	VV	247	4930	0.07%	0.016%
74	6.301	6.271	6.322	PV	248	4538	0.06%	0.015%
75	6.362	6.322	6.388	VV	274	8407	0.12%	0.028%
76	6.402	6.388	6.435	VV	690	10979	0.15%	0.036%
77	6.451	6.435	6.475	VV	449	6392	0.09%	0.021%
78	6.498	6.475	6.527	VV	1022	15757	0.22%	0.052%
79	6.558	6.527	6.584	VV	659	11322	0.16%	0.037%
80	6.639	6.584	6.674	VV	469	17529	0.24%	0.057%
81	6.701	6.674	6.710	VV	347	6861	0.09%	0.022%
82	6.730	6.710	6.744	VV	425	7577	0.10%	0.025%
83	6.768	6.744	6.798	VV	701	17157	0.24%	0.056%
84	6.852	6.798	6.882	VV	5032	64473	0.89%	0.211%
85	6.898	6.882	6.924	VV	290	6909	0.10%	0.023%
86	6.944	6.924	6.957	VV	484	6862	0.09%	0.022%
87	6.974	6.957	6.984	VV	458	5077	0.07%	0.017%
88	7.007	6.984	7.029	VV	1840	22733	0.31%	0.074%
89	7.050	7.029	7.066	VV	520	7357	0.10%	0.024%

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90	7.083	7.066	7.106	VV	390	5319	0.07%	0.017%
91	7.133	7.106	7.168	VV	214	4368	0.06%	0.014%
92	7.190	7.168	7.214	VV	531	7761	0.11%	0.025%
93	7.226	7.214	7.238	VV	289	2688	0.04%	0.009%
94	7.259	7.238	7.286	VV	367	6790	0.09%	0.022%
95	7.308	7.286	7.338	VV	396	7627	0.11%	0.025%
96	7.366	7.338	7.408	VV	767	19066	0.26%	0.062%
97	7.429	7.408	7.461	VV	689	14263	0.20%	0.047%
98	7.476	7.461	7.485	VV	664	7694	0.11%	0.025%
99	7.495	7.485	7.515	VV	705	8978	0.12%	0.029%
100	7.533	7.515	7.552	VV	507	7292	0.10%	0.024%
101	7.577	7.552	7.618	VV	2179	28541	0.39%	0.094%
102	7.660	7.618	7.696	VV	1103	20538	0.28%	0.067%
103	7.720	7.696	7.748	VV	391	9300	0.13%	0.030%
104	7.765	7.748	7.784	VV	644	10071	0.14%	0.033%
105	7.804	7.784	7.848	VV	3628	43970	0.61%	0.144%
106	7.877	7.848	7.918	VV	518	11498	0.16%	0.038%
107	7.934	7.918	7.953	VV	258	4010	0.06%	0.013%
108	7.978	7.953	8.048	VV	608	9754	0.13%	0.032%
109	8.071	8.048	8.088	PV	639	6769	0.09%	0.022%
110	8.108	8.088	8.133	VV	340	5850	0.08%	0.019%
111	8.153	8.133	8.194	VV	407	7712	0.11%	0.025%
112	8.250	8.194	8.281	VV	615	16735	0.23%	0.055%
113	8.295	8.281	8.324	VV	429	6368	0.09%	0.021%
114	8.337	8.324	8.352	VV	326	3745	0.05%	0.012%
115	8.382	8.352	8.411	VV	1504	20160	0.28%	0.066%
116	8.439	8.411	8.488	VV	1026	17821	0.25%	0.058%
117	8.510	8.488	8.531	VV	1302	15407	0.21%	0.050%
118	8.540	8.531	8.555	VV	337	4173	0.06%	0.014%
119	8.596	8.555	8.661	VV	1439	33979	0.47%	0.111%
120	8.691	8.661	8.761	VV	9693	123548	1.71%	0.405%
121	8.792	8.761	8.828	VV	465	12542	0.17%	0.041%
122	8.861	8.828	8.910	VV	714	16298	0.23%	0.053%
123	8.926	8.910	8.961	VV	271	3932	0.05%	0.013%
124	9.014	8.961	9.036	VV	3110	37354	0.52%	0.122%
125	9.052	9.036	9.081	VV	669	14494	0.20%	0.047%
126	9.117	9.081	9.127	VV	526	12947	0.18%	0.042%
127	9.164	9.127	9.214	VV	1983	62961	0.87%	0.206%
128	9.233	9.214	9.273	VV	3327	50431	0.70%	0.165%
129	9.287	9.273	9.334	VV	517	12787	0.18%	0.042%
130	9.352	9.334	9.369	VV	323	6231	0.09%	0.020%
131	9.424	9.369	9.491	VV	2800	71080	0.98%	0.233%
132	9.522	9.491	9.568	VV	4017	70726	0.98%	0.232%
133	9.608	9.568	9.631	VV	539	12687	0.18%	0.042%
134	9.659	9.631	9.691	VV	381	6868	0.09%	0.023%
135	9.711	9.691	9.728	VV	305	4610	0.06%	0.015%
136	9.742	9.728	9.751	VV	285	3365	0.05%	0.011%
137	9.764	9.751	9.798	VV	321	6330	0.09%	0.021%
138	9.824	9.798	9.868	VV	527	13737	0.19%	0.045%
139	9.898	9.868	9.914	VV	1191	18700	0.26%	0.061%
140	9.927	9.914	9.968	VV	1098	21347	0.30%	0.070%
141	9.981	9.968	10.011	VV	549	9759	0.13%	0.032%

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142	10.032	10.011	10.055	VV	954	14842	0.21%	0.049%
143	10.085	10.055	10.114	VV	1858	24644	0.34%	0.081%
144	10.145	10.114	10.161	VV	218	4323	0.06%	0.014%
145	10.177	10.161	10.194	VV	245	3028	0.04%	0.010%
146	10.226	10.194	10.278	VV	1084	23971	0.33%	0.079%
147	10.306	10.278	10.360	VV	5918	76527	1.06%	0.251%
148	10.388	10.360	10.444	VV	408	14506	0.20%	0.048%
149	10.476	10.444	10.498	VV	323	5610	0.08%	0.018%
150	10.518	10.498	10.535	VV	143	2404	0.03%	0.008%
151	10.585	10.535	10.608	PV	290	5809	0.08%	0.019%
152	10.654	10.608	10.671	VV	425	9885	0.14%	0.032%
153	10.698	10.671	10.722	VV	2244	33344	0.46%	0.109%
154	10.749	10.722	10.771	VV	1358	24469	0.34%	0.080%
155	10.786	10.771	10.823	VV	981	17665	0.24%	0.058%
156	10.843	10.823	10.875	VV	560	10698	0.15%	0.035%
157	10.905	10.875	10.924	VV	301	6953	0.10%	0.023%
158	10.978	10.924	11.023	VV	822	30347	0.42%	0.099%
159	11.050	11.023	11.087	VV	5309	68964	0.95%	0.226%
160	11.122	11.087	11.148	VV	4619	69365	0.96%	0.227%
161	11.161	11.148	11.214	VV	870	20943	0.29%	0.069%
162	11.267	11.214	11.289	VV	466	12735	0.18%	0.042%
163	11.312	11.289	11.324	VV	275	4461	0.06%	0.015%
164	11.376	11.324	11.409	VV	551	16479	0.23%	0.054%
165	11.448	11.409	11.490	VV	2226	44602	0.62%	0.146%
166	11.506	11.490	11.541	VV	703	12675	0.18%	0.042%
167	11.560	11.541	11.598	VV	725	10364	0.14%	0.034%
168	11.617	11.598	11.638	VV	357	5809	0.08%	0.019%
169	11.648	11.638	11.658	VV	243	2475	0.03%	0.008%
170	11.686	11.658	11.714	VV	3034	40190	0.56%	0.132%
171	11.756	11.714	11.810	VV	7472	100180	1.39%	0.328%
172	11.850	11.810	11.903	VV	1952	34467	0.48%	0.113%
173	11.914	11.903	11.934	VV	252	2325	0.03%	0.008%
174	12.067	11.934	12.096	PV	626	23744	0.33%	0.078%
175	12.114	12.096	12.134	VV	444	6138	0.08%	0.020%
176	12.157	12.134	12.177	VV	669	11620	0.16%	0.038%
177	12.192	12.177	12.201	VV	445	5272	0.07%	0.017%
178	12.214	12.201	12.230	VV	590	7145	0.10%	0.023%
179	12.242	12.230	12.265	VV	481	5466	0.08%	0.018%
180	12.313	12.265	12.340	VV	364	7094	0.10%	0.023%
181	12.364	12.340	12.380	PV	377	5472	0.08%	0.018%
182	12.428	12.380	12.507	VV	5837	85753	1.19%	0.281%
183	12.533	12.507	12.550	VV	215	3593	0.05%	0.012%
184	12.564	12.550	12.602	VV	197	3942	0.05%	0.013%
185	12.648	12.602	12.681	PV	412	8170	0.11%	0.027%
186	12.706	12.681	12.751	PV	501	13256	0.18%	0.043%
187	12.771	12.751	12.780	PV	465	5007	0.07%	0.016%
188	12.799	12.780	12.825	VV	779	13364	0.18%	0.044%
189	12.844	12.825	12.863	VV	682	9089	0.13%	0.030%
190	12.893	12.863	12.915	VV	692	15088	0.21%	0.049%
191	12.928	12.915	12.951	VV	456	7035	0.10%	0.023%
192	13.011	12.951	13.041	VV	1089	22980	0.32%	0.075%
193	13.071	13.041	13.121	VV	7002	88246	1.22%	0.289%
194	13.136	13.121	13.151	VV	345	4049	0.06%	0.013%

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195	13.190	13.151	13.232	VV	619	14039	0.19%	0.046%
196	13.245	13.232	13.263	PV	126	1254	0.02%	0.004%
197	13.335	13.263	13.381	VV	559	18667	0.26%	0.061%
198	13.398	13.381	13.411	VV	314	4375	0.06%	0.014%
199	13.438	13.411	13.451	VV	639	10389	0.14%	0.034%
200	13.471	13.451	13.483	VV	897	13683	0.19%	0.045%
201	13.524	13.483	13.614	VV	610055	7231273	100.00%	23.693%
202	13.634	13.614	13.658	VV	1039	21657	0.30%	0.071%
203	13.686	13.658	13.718	VV	5525	81679	1.13%	0.268%
204	13.744	13.718	13.760	VV	883	19336	0.27%	0.063%
205	13.775	13.760	13.794	VV	728	13526	0.19%	0.044%
206	13.809	13.794	13.831	VV	737	13197	0.18%	0.043%
207	13.871	13.831	13.880	VV	781	18813	0.26%	0.062%
208	13.917	13.880	13.936	VV	1208	33724	0.47%	0.110%
209	13.963	13.936	13.994	VV	1267	37414	0.52%	0.123%
210	14.019	13.994	14.031	VV	1161	23024	0.32%	0.075%
211	14.037	14.031	14.050	VV	1254	12356	0.17%	0.040%
212	14.070	14.050	14.091	VV	1309	29798	0.41%	0.098%
213	14.116	14.091	14.153	VV	1769	53269	0.74%	0.175%
214	14.165	14.153	14.172	VV	1283	13009	0.18%	0.043%
215	14.192	14.172	14.204	VV	1537	27092	0.37%	0.089%
216	14.223	14.204	14.247	VV	1992	40810	0.56%	0.134%
217	14.275	14.247	14.316	VV	6951	123108	1.70%	0.403%
218	14.332	14.316	14.388	VV	1687	61932	0.86%	0.203%
219	14.430	14.388	14.449	VV	1562	49657	0.69%	0.163%
220	14.505	14.449	14.547	VV	2123	92615	1.28%	0.303%
221	14.570	14.547	14.581	VV	1727	30856	0.43%	0.101%
222	14.612	14.581	14.627	VV	1664	41361	0.57%	0.136%
223	14.642	14.627	14.658	VV	1685	29011	0.40%	0.095%
224	14.713	14.658	14.734	VV	3540	99686	1.38%	0.327%
225	14.751	14.734	14.777	VV	1998	45094	0.62%	0.148%
226	14.798	14.777	14.814	VV	1891	39291	0.54%	0.129%
227	14.839	14.814	14.861	VV	5793	91380	1.26%	0.299%
228	14.875	14.861	14.894	VV	1761	32004	0.44%	0.105%
229	14.908	14.894	14.924	VV	1577	27502	0.38%	0.090%
230	14.956	14.924	14.971	VV	1691	46340	0.64%	0.152%
231	14.981	14.971	15.021	VV	1747	41680	0.58%	0.137%
232	15.047	15.021	15.081	VV	1566	49194	0.68%	0.161%
233	15.108	15.081	15.144	VV	1943	58754	0.81%	0.193%
234	15.154	15.144	15.171	VV	1542	22922	0.32%	0.075%
235	15.191	15.171	15.206	VV	1547	28660	0.40%	0.094%
236	15.242	15.206	15.256	VV	1717	44197	0.61%	0.145%
237	15.273	15.256	15.295	VV	1783	33075	0.46%	0.108%
238	15.335	15.295	15.354	VV	2168	53464	0.74%	0.175%
239	15.381	15.354	15.410	VV	7353	116493	1.61%	0.382%
240	15.425	15.410	15.441	VV	1447	25365	0.35%	0.083%
241	15.455	15.441	15.475	VV	1503	23754	0.33%	0.078%
242	15.485	15.475	15.503	VV	1014	14278	0.20%	0.047%
243	15.521	15.503	15.554	VV	1039	23194	0.32%	0.076%
244	15.581	15.554	15.611	VV	980	28188	0.39%	0.092%
245	15.614	15.611	15.621	VV	868	4557	0.06%	0.015%
246	15.644	15.621	15.687	VV	935	27094	0.37%	0.089%

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247	15.720	15.687	15.753	VV	1198	30522	0.42%	0.100%
248	15.764	15.753	15.795	VV	744	15320	0.21%	0.050%
249	15.819	15.795	15.834	VV	846	15135	0.21%	0.050%
250	15.904	15.834	15.944	VV	5564	103997	1.44%	0.341%
251	15.952	15.944	15.982	VV	670	10259	0.14%	0.034%
252	15.990	15.982	16.030	VV	343	5854	0.08%	0.019%
253	16.085	16.030	16.104	PV	599	15527	0.21%	0.051%
254	16.109	16.104	16.121	VV	545	4422	0.06%	0.014%
255	16.146	16.121	16.158	VV	1043	15711	0.22%	0.051%
256	16.167	16.158	16.191	VV	741	10873	0.15%	0.036%
257	16.233	16.191	16.268	VV	1153	33090	0.46%	0.108%
258	16.301	16.268	16.334	VV	1040	20953	0.29%	0.069%
259	16.368	16.334	16.380	VV	1058	16851	0.23%	0.055%
260	16.406	16.380	16.431	VV	6698	92919	1.28%	0.304%
261	16.446	16.431	16.491	VV	1032	16951	0.23%	0.056%
262	16.505	16.491	16.544	PV	585	7529	0.10%	0.025%
263	16.631	16.544	16.668	PV	1482	48110	0.67%	0.158%
264	16.722	16.668	16.741	PV	1077	27929	0.39%	0.092%
265	16.786	16.741	16.824	VV	1292	35599	0.49%	0.117%
266	16.891	16.824	16.953	VV	6351	117374	1.62%	0.385%
267	16.964	16.953	16.974	VV	298	3211	0.04%	0.011%
268	17.051	16.974	17.088	VV	1059	43832	0.61%	0.144%
269	17.127	17.088	17.151	VV	855	22875	0.32%	0.075%
270	17.172	17.151	17.182	VV	818	10322	0.14%	0.034%
271	17.240	17.182	17.272	VV	1427	37952	0.52%	0.124%
272	17.359	17.272	17.384	PV	8776	159799	2.21%	0.524%
273	17.397	17.384	17.427	VV	2844	46850	0.65%	0.154%
274	17.487	17.427	17.532	VV	1593	66264	0.92%	0.217%
275	17.611	17.532	17.665	VV	3213	159681	2.21%	0.523%
276	17.690	17.665	17.700	VV	1770	29920	0.41%	0.098%
277	17.713	17.700	17.734	VV	1801	33459	0.46%	0.110%
278	17.761	17.734	17.779	VV	2482	54518	0.75%	0.179%
279	17.810	17.779	17.851	VV	14332	251431	3.48%	0.824%
280	17.864	17.851	17.881	VV	1675	22961	0.32%	0.075%
281	17.906	17.881	17.918	VV	1455	26928	0.37%	0.088%
282	17.950	17.918	17.978	VV	3661	70613	0.98%	0.231%
283	18.031	17.978	18.058	VV	1191	18411	0.25%	0.060%
284	18.118	18.058	18.138	VV	951	22930	0.32%	0.075%
285	18.164	18.138	18.196	VV	2400	38861	0.54%	0.127%
286	18.249	18.196	18.285	VV	11815	199064	2.75%	0.652%
287	18.295	18.285	18.324	VV	400	7959	0.11%	0.026%
288	18.343	18.324	18.361	VV	1050	10191	0.14%	0.033%
289	18.388	18.361	18.397	VV	1621	18277	0.25%	0.060%
290	18.418	18.397	18.431	VV	3575	53873	0.74%	0.177%
291	18.440	18.431	18.489	VV	2734	49395	0.68%	0.162%
292	18.516	18.489	18.551	VV	1346	24946	0.34%	0.082%
293	18.672	18.551	18.710	VV	11327	217308	3.01%	0.712%
294	18.750	18.710	18.763	PV	2610	44138	0.61%	0.145%
295	18.785	18.763	18.832	VV	4526	98775	1.37%	0.324%
296	18.850	18.832	18.875	VV	1418	25790	0.36%	0.085%
297	18.931	18.875	18.958	VV	1386	41981	0.58%	0.138%
298	18.976	18.958	19.028	VV	684	18467	0.26%	0.061%
299	19.084	19.028	19.118	PV	10298	154473	2.14%	0.506%

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300	19.157	19.118	19.174	VV	1130	27336	0.38%	0.090%
301	19.207	19.174	19.228	VV	2337	46386	0.64%	0.152%
302	19.256	19.228	19.309	VV	2152	62889	0.87%	0.206%
303	19.340	19.309	19.359	VV	1484	29109	0.40%	0.095%
304	19.389	19.359	19.408	VV	1314	27880	0.39%	0.091%
305	19.425	19.408	19.441	VV	863	15277	0.21%	0.050%
306	19.482	19.441	19.514	VV	8671	150714	2.08%	0.494%
307	19.539	19.514	19.568	VV	1724	32716	0.45%	0.107%
308	19.610	19.568	19.625	VV	1528	30751	0.43%	0.101%
309	19.787	19.625	19.808	VV	3040	203902	2.82%	0.668%
310	19.869	19.808	19.901	VV	10087	274679	3.80%	0.900%
311	19.918	19.901	19.937	VV	4614	92938	1.29%	0.305%
312	20.010	19.937	20.028	VV	5774	252603	3.49%	0.828%
313	20.039	20.028	20.059	VV	5596	101866	1.41%	0.334%
314	20.108	20.059	20.124	VV	6180	214738	2.97%	0.704%
315	20.195	20.124	20.203	VV	6678	305542	4.23%	1.001%
316	20.245	20.203	20.284	VV	12172	426886	5.90%	1.399%
317	20.307	20.284	20.321	VV	9183	191756	2.65%	0.628%
318	20.326	20.321	20.339	VV	8876	92345	1.28%	0.303%
319	20.536	20.339	20.578	VV	13620	1555750	21.51%	5.097%
320	20.611	20.578	20.634	VV	17555	515367	7.13%	1.689%
321	20.766	20.634	20.818	VV	18303	1853662	25.63%	6.074%
322	20.845	20.818	20.867	VV	17561	512693	7.09%	1.680%
323	20.891	20.867	20.905	VV	17651	390213	5.40%	1.279%
324	20.912	20.905	20.924	VV	17258	191354	2.65%	0.627%
325	20.933	20.924	20.946	VV	17080	224780	3.11%	0.736%
326	20.977	20.946	21.008	VV	17934	620834	8.59%	2.034%
327	21.040	21.008	21.053	VV	15818	425950	5.89%	1.396%
328	21.119	21.053	21.220	VV	17670	1562339	21.61%	5.119%
329	21.242	21.220	21.263	VV	13558	341664	4.72%	1.119%
330	21.351	21.263	21.370	VV	13801	869355	12.02%	2.848%
331	21.393	21.370	21.487	VV	14240	823513	11.39%	2.698%
332	21.498	21.487	21.554	VV	10019	382171	5.28%	1.252%
333	21.692	21.554	21.731	VV	9965	993869	13.74%	3.256%
334	21.753	21.731	21.835	VV	9226	512598	7.09%	1.680%
335	21.850	21.835	21.890	VV	6714	189397	2.62%	0.621%
336	22.011	21.890	22.042	VV	5313	439148	6.07%	1.439%
337	22.052	22.042	22.059	VV	4771	48834	0.68%	0.160%
338	22.088	22.059	22.208	VV	4881	328199	4.54%	1.075%
339	22.225	22.208	22.244	VV	1854	35881	0.50%	0.118%
340	22.284	22.244	22.298	VV	1673	50247	0.69%	0.165%
341	22.382	22.298	22.428	VV	3881	206624	2.86%	0.677%
342	22.438	22.428	22.474	VV	2467	55812	0.77%	0.183%
343	22.488	22.474	22.514	VV	1297	21216	0.29%	0.070%
344	22.526	22.514	22.531	VV	119	1032	0.01%	0.003%
Sum of corrected areas:					30520126			

Aliphatic EPH 080125.M Mon Aug 25 12:26:38 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC080125AL

AreaCount

Parameter Range	FC069558.D	FC069559.D	FC069560.D	FC069561.D	FC069562.D	
Aliphatic C9-C12	42068648.000	19691016.000	8965532.000	4370721.000	2351668.000	
Aliphatic C12-C16	27843527.000	13014807.000	5942321.000	2897742.000	1543652.000	
Aliphatic C16-C21	38214284.000	18201524.000	8181971.000	4119976.000	2180745.000	
Aliphatic C21-C28	44820531.000	21625949.000	9610305.000	4868005.000	2590582.000	
Aliphatic C28-C40	52282691.000	25521026.000	11594465.000	5791453.000	3336702.000	
Aliphatic EPH	205229681.000	98054322.000	44294594.000	22047897.000	12003349.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	144679.273333	6.643				
Aliphatic C12-C16	143435.206	6.448				
Aliphatic C16-C21	133561.231333	6.997				
Aliphatic C21-C28	118307.822	7.116				
Aliphatic C28-C40	95315.2126662	10.853				
Aliphatic EPH	120373.0272216	7.787				

Concentration

Parameter Range	FC069558.D	FC069559.D	FC069560.D	FC069561.D	FC069562.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	FC069558.D	FC069559.D	FC069560.D	FC069561.D	FC069562.D	
Aliphatic C9-C12	140228.826666	131273.440000	149425.533333	145690.700000	156777.866666	
Aliphatic C12-C16	139217.635000	130148.070000	148558.025000	144887.100000	154365.200000	
Aliphatic C16-C21	127380.946666	121343.493333	136366.183333	137332.533333	145383.000000	

Initial Calibration Report for SequenceID : FC080125AL

Aliphatic C21-C28	112051.327500	108129.745000	120128.812500	121700.125000	129529.100000	
Aliphatic C28-C40	87137.818333	85070.086666	96620.541666	96524.216666	111223.400000	
Aliphatic EPH	114016.489444	108949.246666	123040.538888	122488.316666	133370.544444	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
 Data File : FC069558.D
 Signal(s) : FID1A.ch
 Acq On : 01 Aug 2025 11:01
 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: Aug 01 13:16:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 QLast Update : Fri Aug 01 13:14:26 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)	11.682	14253274	96.812 ug/ml
Spiked Amount 50.000		Recovery =	193.62%
12) S 1-chlorooctadecane (S...	13.114	10515548	97.189 ug/ml
Spiked Amount 50.000		Recovery =	194.38%
Target Compounds			
1) T n-Nonane (C9)	3.407	13774723	96.965 ug/ml
2) T n-Decane (C10)	4.480	14093050	96.720 ug/ml
3) T A~Naphthalene (C11.7)	6.077	15000524	96.766 ug/ml
4) T n-Dodecane (C12)	6.506	14200875	96.793 ug/ml
5) T A~2-methylnaphthalene...	7.138	14366902	97.187 ug/ml
6) T n-Tetradecane (C14)	8.306	13912392	96.899 ug/ml
7) T n-Hexadecane (C16)	9.911	13931135	96.610 ug/ml
8) T n-Octadecane (C18)	11.358	13539702	96.568 ug/ml
10) T n-Eicosane (C20)	12.667	12534426	96.547 ug/ml
11) T n-Heneicosane (C21)	13.281	12140156	96.669 ug/ml
13) T n-Docosane (C22)	13.868	11884209	96.620 ug/ml
14) T n-Tetracosane (C24)	14.973	11473067	96.721 ug/ml
15) T n-Hexacosane (C26)	15.994	10972164	96.635 ug/ml
16) T n-Octacosane (C28)	16.945	10491091	96.074 ug/ml
17) T n-Tricontane (C30)	17.836	10399552	94.945 ug/ml
18) T n-Dotriacontane (C32)	18.669	9912896	94.027 ug/ml
19) T n-Tetratriacontane (C34)	19.454	9172293	94.283 ug/ml
20) T n-Hexatriacontane (C36)	20.195	8138973	94.805 ug/ml
21) T n-Octatriacontane (C38)	20.962	7522009	95.506 ug/ml
22) T n-Tetracontane (C40)	21.931	7136968	95.899 ug/ml

(f)=RT Delta > 1/2 Window

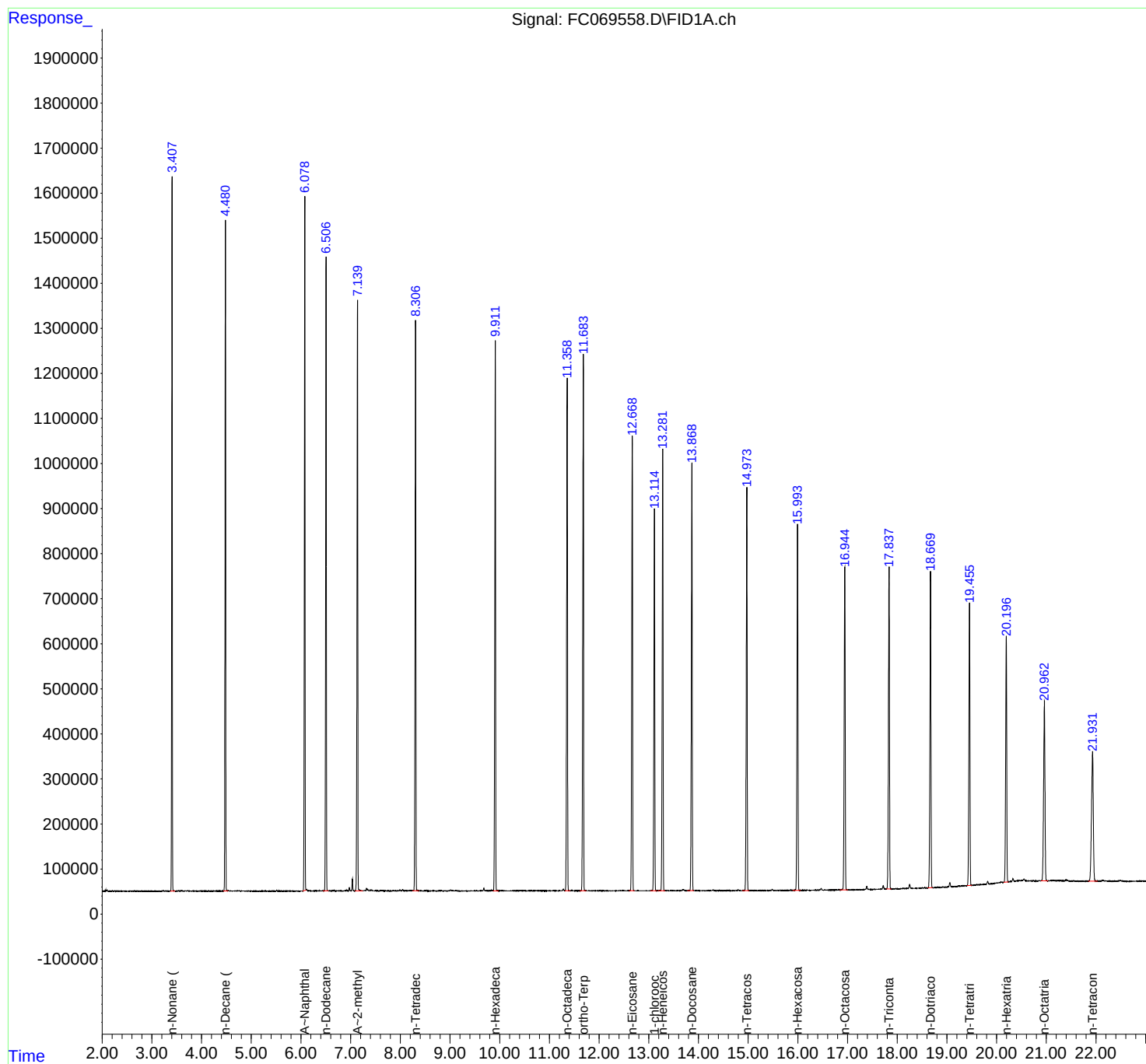
(m)=manual int.

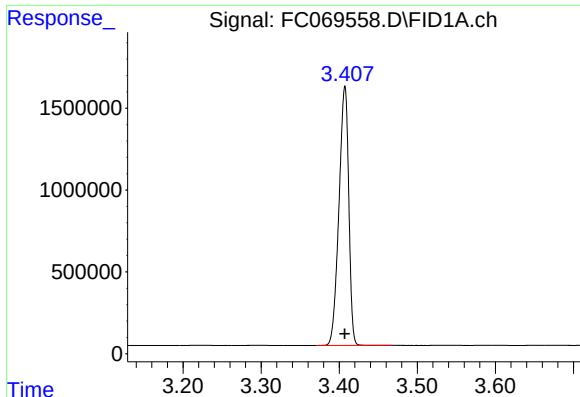
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069558.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 11:01
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Aug 01 13:16:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:14:26 2025
Response via : Initial Calibration
Integrator: ChemStation

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

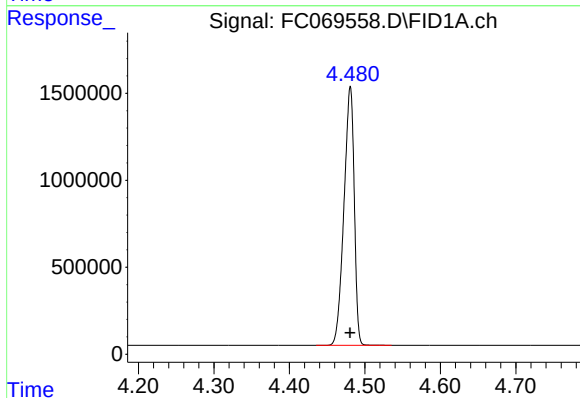




#1 n-Nonane (C9)

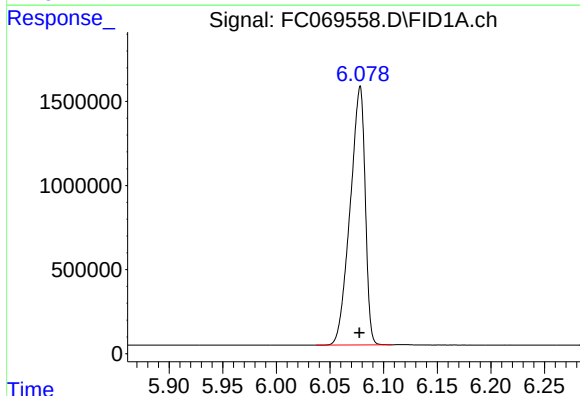
R.T.: 3.407 min
Delta R.T.: 0.000 min
Response: 13774723
Conc: 96.97 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



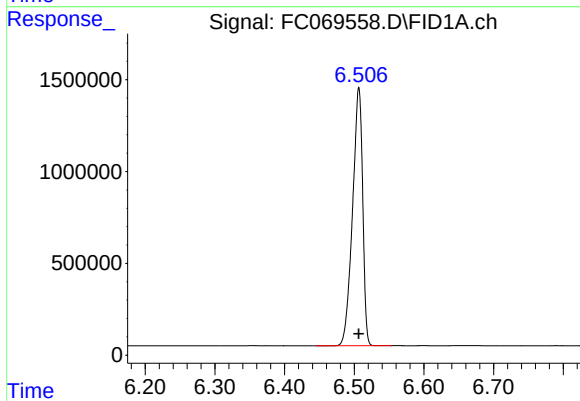
#2 n-Decane (C10)

R.T.: 4.480 min
Delta R.T.: 0.000 min
Response: 14093050
Conc: 96.72 ug/ml



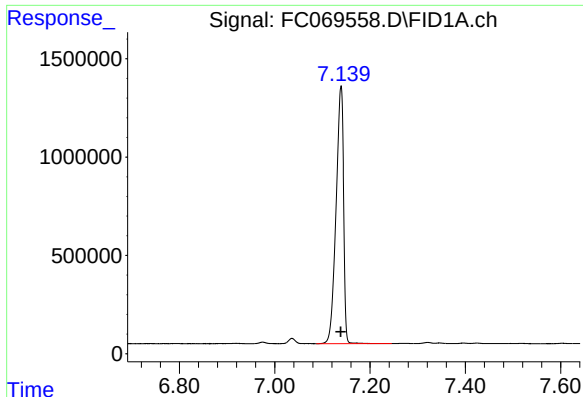
#3 A~Naphthalene (C11.7)

R.T.: 6.077 min
Delta R.T.: 0.000 min
Response: 15000524
Conc: 96.77 ug/ml



#4 n-Dodecane (C12)

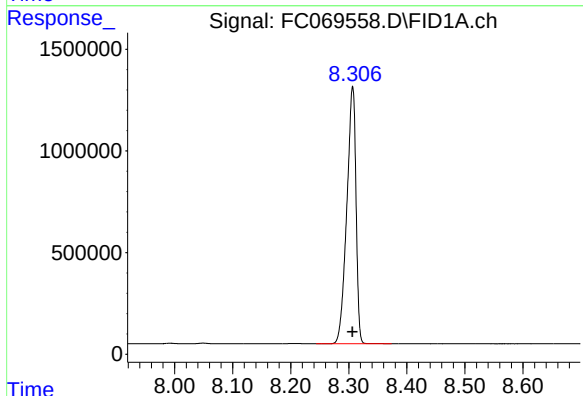
R.T.: 6.506 min
Delta R.T.: 0.000 min
Response: 14200875
Conc: 96.79 ug/ml



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

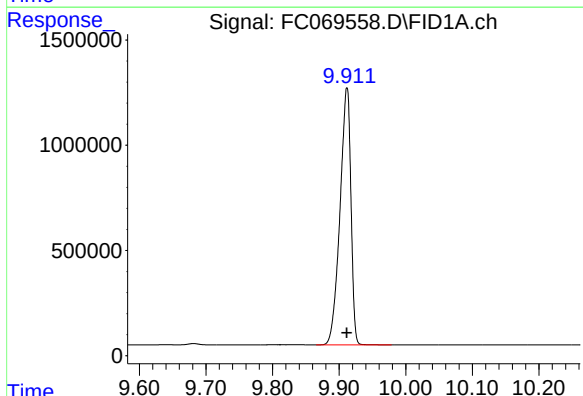
R.T.: 7.138 min
Delta R.T.: 0.000 min
Response: 14366902
Conc: 97.19 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



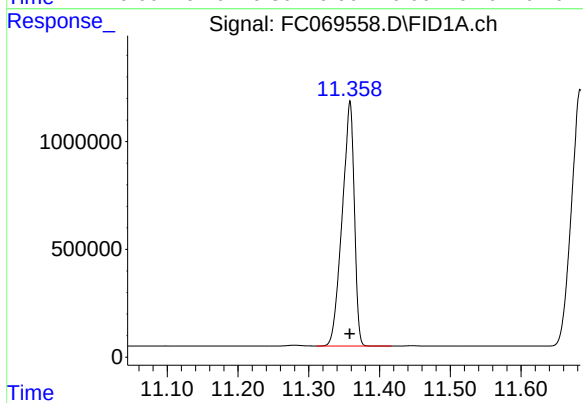
#6 n-Tetradecane (C14)

R.T.: 8.306 min
Delta R.T.: 0.000 min
Response: 13912392
Conc: 96.90 ug/ml



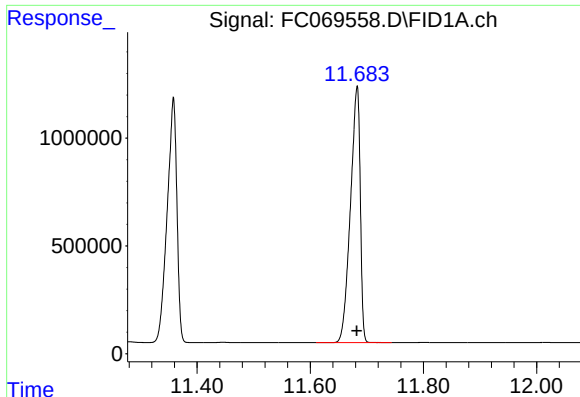
#7 n-Hexadecane (C16)

R.T.: 9.911 min
Delta R.T.: 0.000 min
Response: 13931135
Conc: 96.61 ug/ml



#8 n-Octadecane (C18)

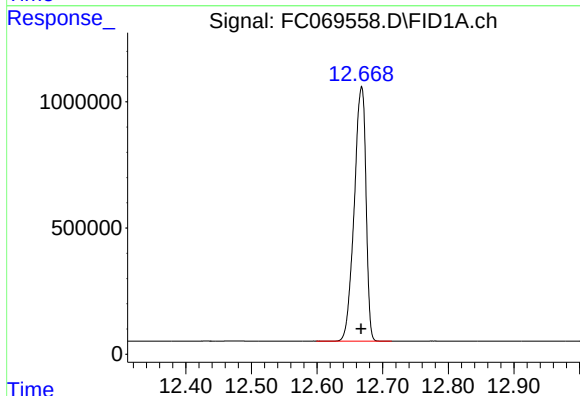
R.T.: 11.358 min
Delta R.T.: 0.000 min
Response: 13539702
Conc: 96.57 ug/ml



#9 ortho-Terphenyl (SURR)

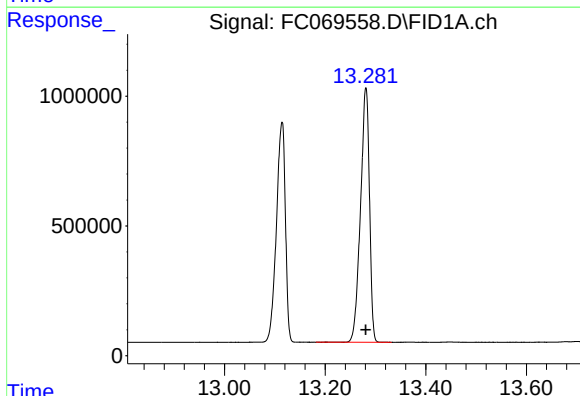
R.T.: 11.682 min
Delta R.T.: 0.000 min
Response: 14253274
Conc: 96.81 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



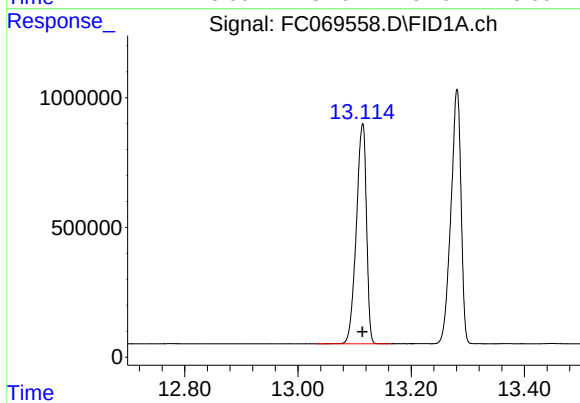
#10 n-Eicosane (C20)

R.T.: 12.667 min
Delta R.T.: 0.000 min
Response: 12534426
Conc: 96.55 ug/ml



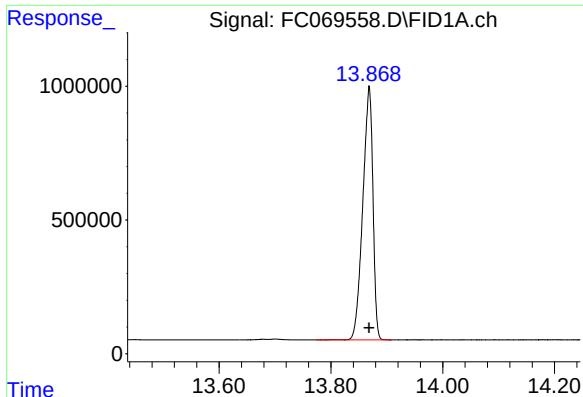
#11 n-Heneicosane (C21)

R.T.: 13.281 min
Delta R.T.: 0.000 min
Response: 12140156
Conc: 96.67 ug/ml



#12 1-chlorooctadecane (SURR)

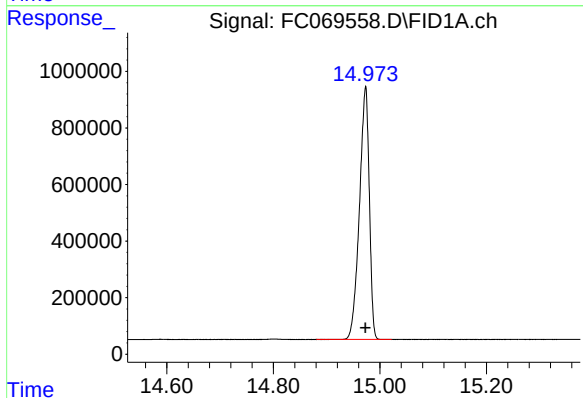
R.T.: 13.114 min
Delta R.T.: 0.000 min
Response: 10515548
Conc: 97.19 ug/ml



#13 n-Docosane (C22)

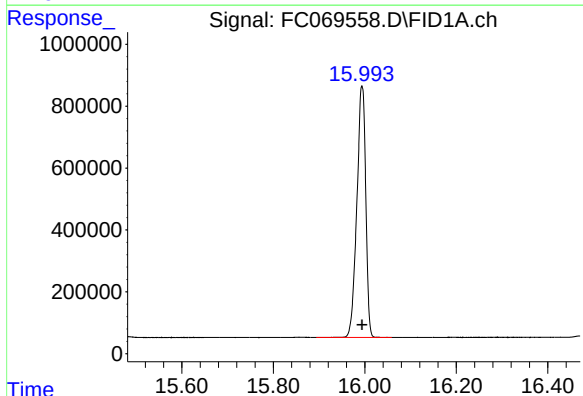
R.T.: 13.868 min
Delta R.T.: 0.000 min
Response: 11884209
Conc: 96.62 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



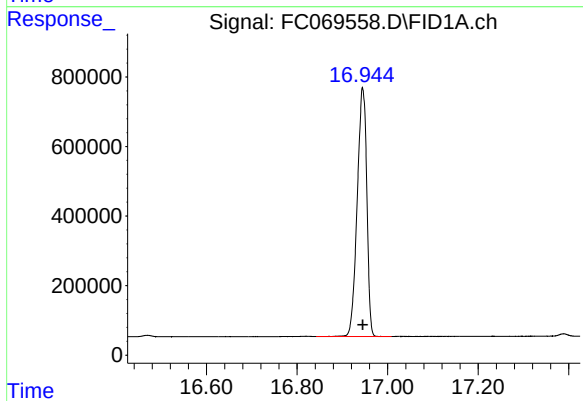
#14 n-Tetracosane (C24)

R.T.: 14.973 min
Delta R.T.: 0.000 min
Response: 11473067
Conc: 96.72 ug/ml



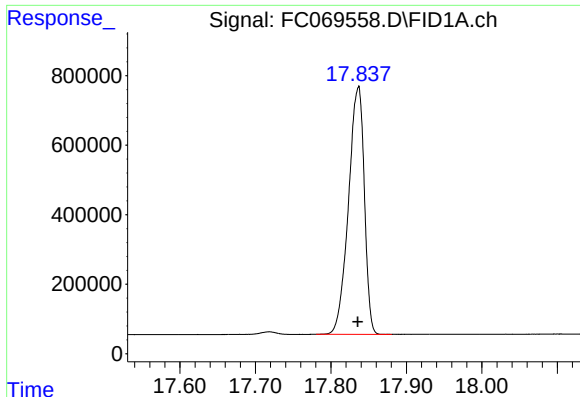
#15 n-Hexacosane (C26)

R.T.: 15.994 min
Delta R.T.: 0.000 min
Response: 10972164
Conc: 96.63 ug/ml



#16 n-Octacosane (C28)

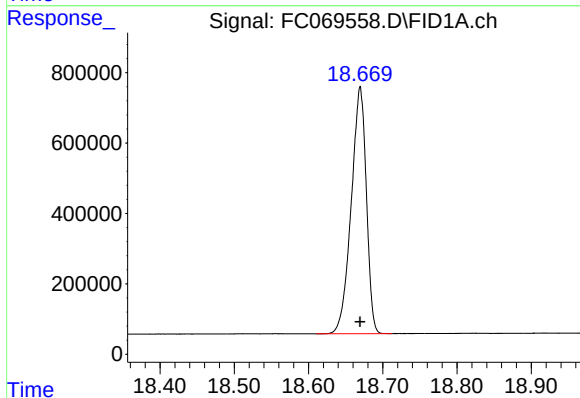
R.T.: 16.945 min
Delta R.T.: 0.000 min
Response: 10491091
Conc: 96.07 ug/ml



#17 n-Tricontane (C30)

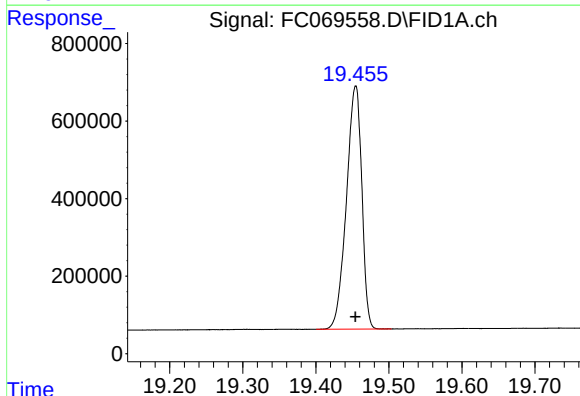
R.T.: 17.836 min
Delta R.T.: 0.000 min
Response: 10399552
Conc: 94.94 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



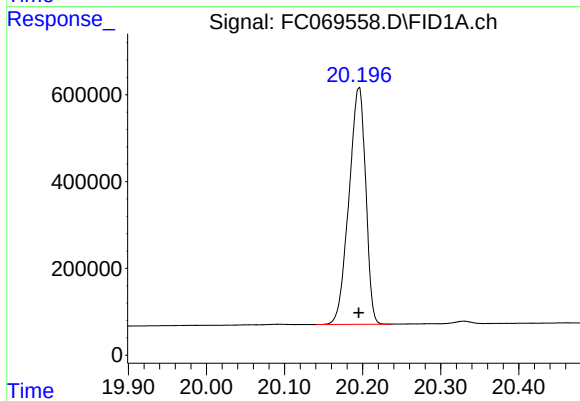
#18 n-Dotriacontane (C32)

R.T.: 18.669 min
Delta R.T.: 0.000 min
Response: 9912896
Conc: 94.03 ug/ml



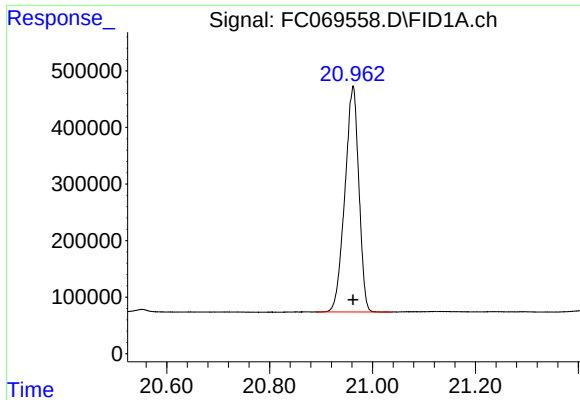
#19 n-Tetratriacontane (C34)

R.T.: 19.454 min
Delta R.T.: 0.000 min
Response: 9172293
Conc: 94.28 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.195 min
Delta R.T.: 0.000 min
Response: 8138973
Conc: 94.80 ug/ml



#21 n-Octatriacontane (C38)

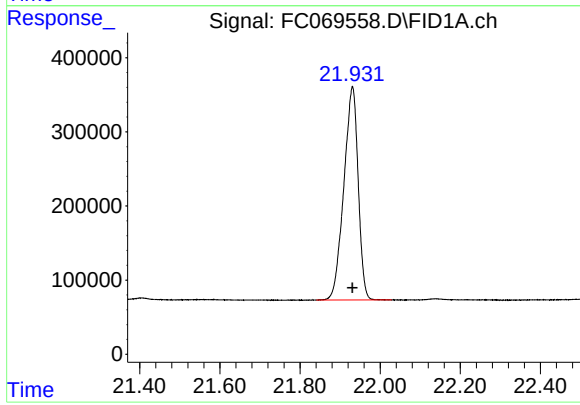
R.T.: 20.962 min
Delta R.T.: 0.000 min
Response: 7522009
Conc: 95.51 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.931 min
Delta R.T.: 0.000 min
Response: 7136968
Conc: 95.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069558.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 11:01
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 080125.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	3.370	3.467	BB	1587444	13774723	91.83%	5.311%
2	4.480	4.435	4.535	BB	1491680	14093050	93.95%	5.434%
3	6.077	6.037	6.107	BV	1521287	15000524	100.00%	5.784%
4	6.506	6.445	6.554	BB	1414300	14200875	94.67%	5.475%
5	7.138	7.087	7.245	BB	1309498	14366902	95.78%	5.539%
6	8.306	8.244	8.374	BB	1270779	13912392	92.75%	5.364%
7	9.911	9.865	9.979	BB	1227725	13931135	92.87%	5.371%
8	11.358	11.310	11.417	BB	1144490	13539702	90.26%	5.220%
9	11.682	11.610	11.744	BB	1181092	14253274	95.02%	5.495%
10	12.667	12.599	12.714	BB	1005716	12534426	83.56%	4.833%
11	13.114	13.032	13.165	BB	847551	10515548	70.10%	4.054%
12	13.281	13.182	13.332	BB	980354	12140156	80.93%	4.681%
13	13.868	13.774	13.909	BB	952859	11884209	79.23%	4.582%
14	14.973	14.880	15.022	BB	889036	11473067	76.48%	4.424%
15	15.994	15.894	16.059	BB	812438	10972164	73.15%	4.230%
16	16.945	16.842	17.009	BB	711087	10491091	69.94%	4.045%
17	17.836	17.780	17.880	BB	708633	10399552	69.33%	4.010%
18	18.669	18.610	18.712	BB	700961	9912896	66.08%	3.822%
19	19.454	19.400	19.504	BB	626705	9172293	61.15%	3.536%
20	20.195	20.140	20.237	BV	545514	8138973	54.26%	3.138%
21	20.962	20.890	21.037	BV	399679	7522009	50.14%	2.900%
22	21.931	21.840	22.029	BB	288157	7136968	47.58%	2.752%
Sum of corrected areas:						259365928		

Aliphatic EPH 080125.M Fri Aug 01 15:08:06 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
 Data File : FC069559.D
 Signal(s) : FID1A.ch
 Acq On : 01 Aug 2025 11:43
 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: Aug 01 13:17:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 13:14:26 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)	11.674	6835847	47.562 ug/ml
Spiked Amount 50.000		Recovery =	95.12%
12) S 1-chlorooctadecane (S...	13.109	5030704	47.608 ug/ml
Spiked Amount 50.000		Recovery =	95.22%
Target Compounds			
1) T n-Nonane (C9)	3.402	6460632	46.892 ug/ml
2) T n-Decane (C10)	4.476	6602241	46.773 ug/ml
3) T A~Naphthalene (C11.7)	6.072	7117131	47.198 ug/ml
4) T n-Dodecane (C12)	6.501	6628143	46.678 ug/ml
5) T A~2-methylnaphthalene...	7.132	6792629	47.225 ug/ml
6) T n-Tetradecane (C14)	8.301	6486829	46.680 ug/ml
7) T n-Hexadecane (C16)	9.906	6527978	46.744 ug/ml
8) T n-Octadecane (C18)	11.351	6407218	47.047 ug/ml
10) T n-Eicosane (C20)	12.662	5985413	47.333 ug/ml
11) T n-Heneicosane (C21)	13.275	5808893	47.439 ug/ml
13) T n-Docosane (C22)	13.862	5705652	47.532 ug/ml
14) T n-Tetracosane (C24)	14.967	5527058	47.677 ug/ml
15) T n-Hexacosane (C26)	15.990	5299336	47.731 ug/ml
16) T n-Octacosane (C28)	16.941	5093903	47.715 ug/ml
17) T n-Tricontane (C30)	17.830	5089600	47.587 ug/ml
18) T n-Dotriacontane (C32)	18.663	4885889	47.502 ug/ml
19) T n-Tetratriacontane (C34)	19.449	4493512	47.393 ug/ml
20) T n-Hexatriacontane (C36)	20.189	3952844	47.291 ug/ml
21) T n-Octatriacontane (C38)	20.953	3637053	47.386 ug/ml
22) T n-Tetracontane (C40)	21.922	3462128	47.625 ug/ml

(f)=RT Delta > 1/2 Window

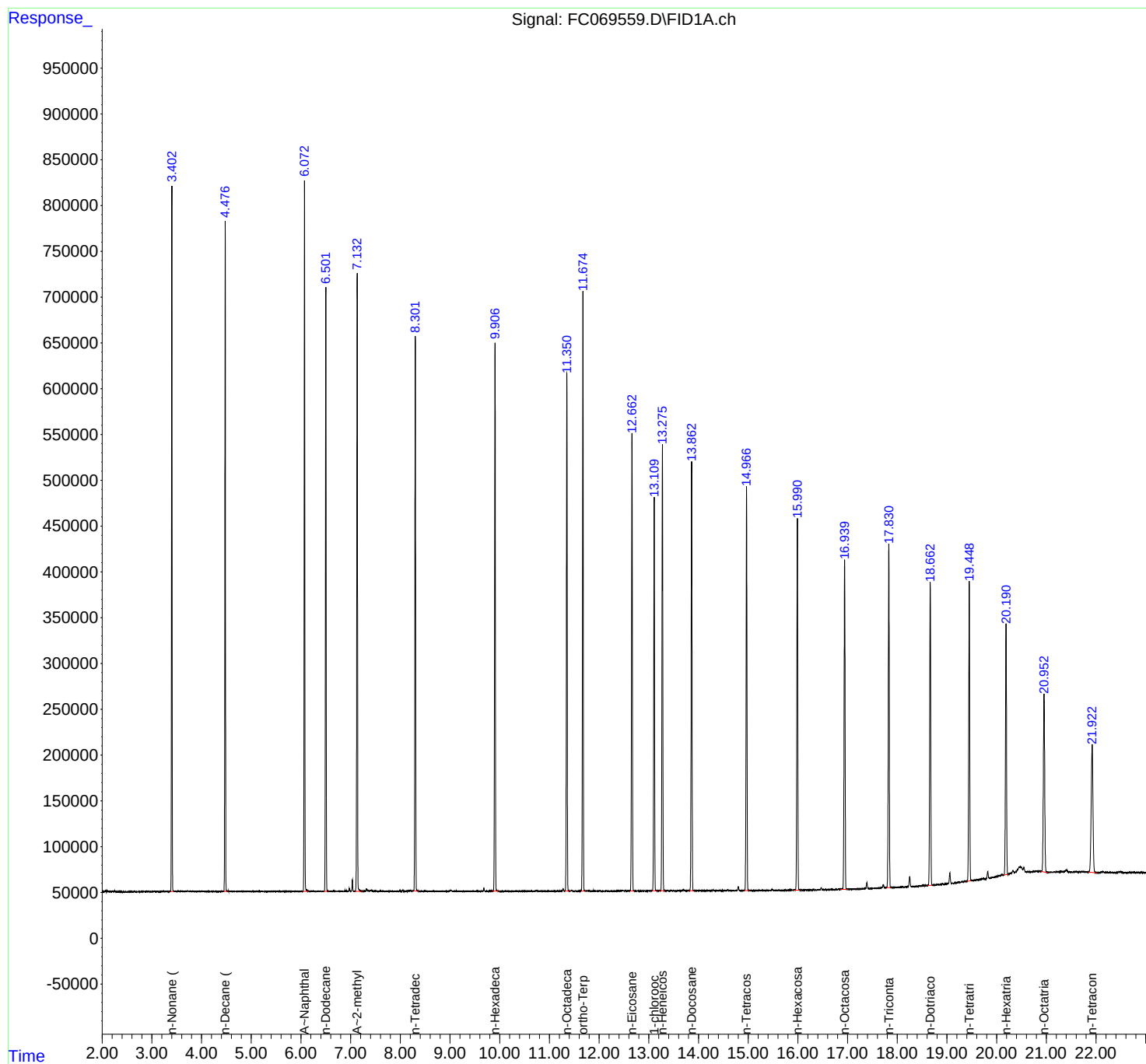
(m)=manual int.

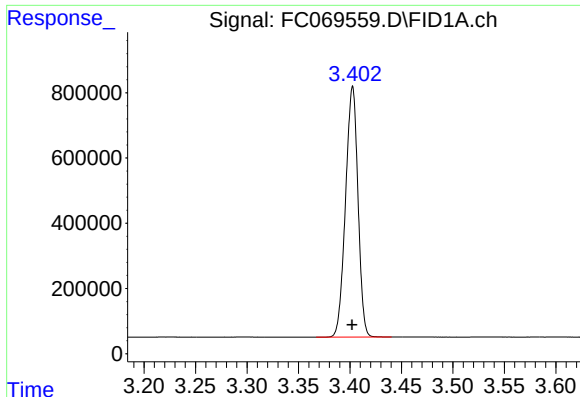
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069559.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 11:43
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Aug 01 13:17:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:14:26 2025
Response via : Initial Calibration
Integrator: ChemStation

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

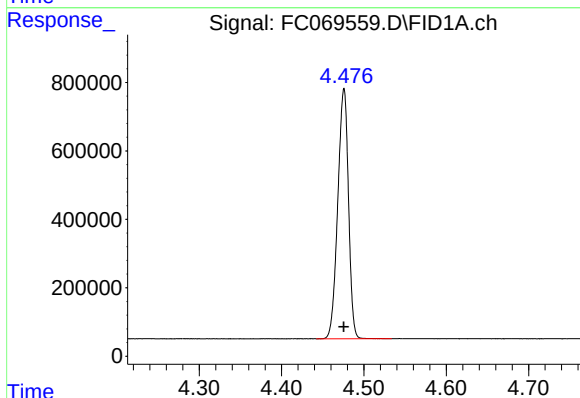




#1 n-Nonane (C9)

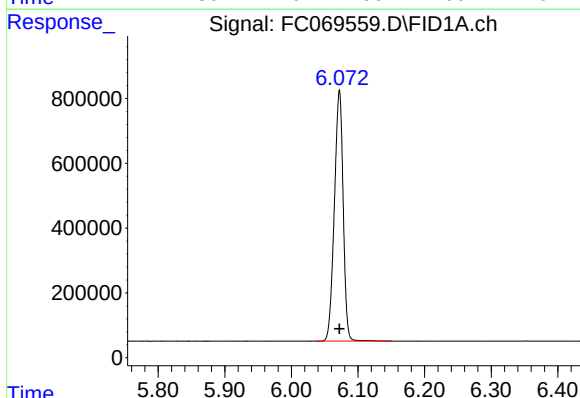
R.T.: 3.402 min
Delta R.T.: 0.000 min
Response: 6460632
Conc: 46.89 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



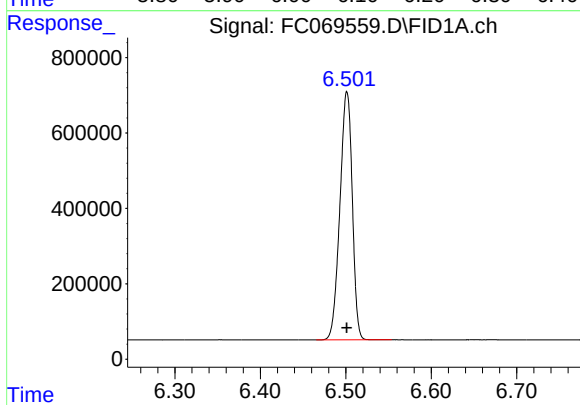
#2 n-Decane (C10)

R.T.: 4.476 min
Delta R.T.: 0.000 min
Response: 6602241
Conc: 46.77 ug/ml



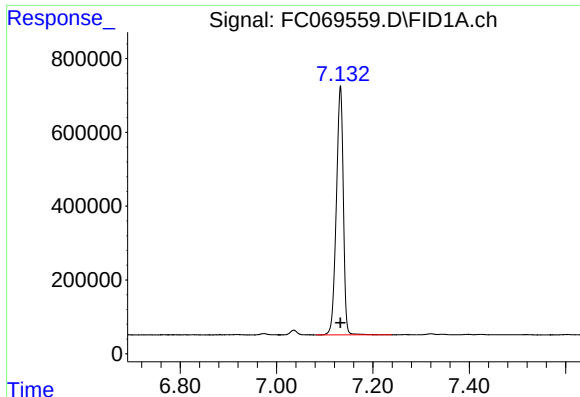
#3 A~Naphthalene (C11.7)

R.T.: 6.072 min
Delta R.T.: 0.000 min
Response: 7117131
Conc: 47.20 ug/ml



#4 n-Dodecane (C12)

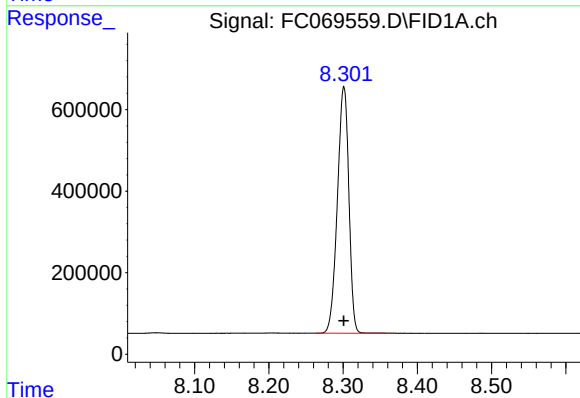
R.T.: 6.501 min
Delta R.T.: 0.000 min
Response: 6628143
Conc: 46.68 ug/ml



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

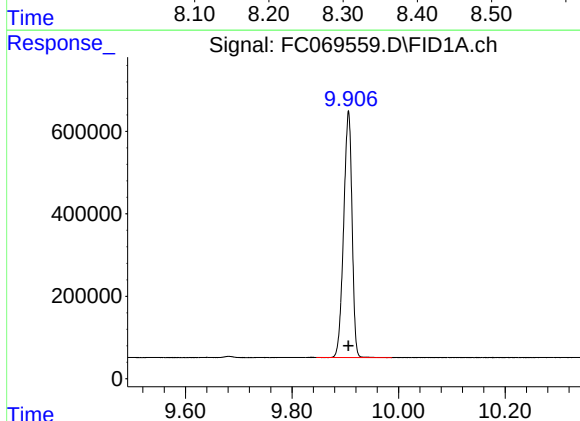
R.T.: 7.132 min
Delta R.T.: 0.000 min
Response: 6792629
Conc: 47.22 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



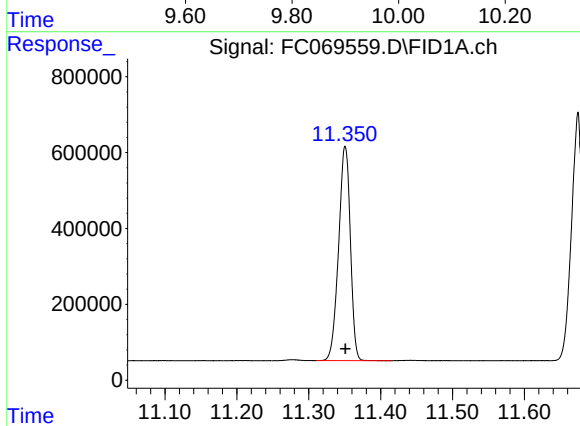
#6 n-Tetradecane (C14)

R.T.: 8.301 min
Delta R.T.: 0.000 min
Response: 6486829
Conc: 46.68 ug/ml



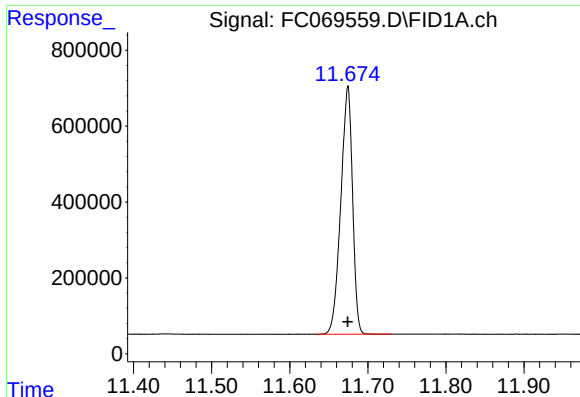
#7 n-Hexadecane (C16)

R.T.: 9.906 min
Delta R.T.: 0.000 min
Response: 6527978
Conc: 46.74 ug/ml



#8 n-Octadecane (C18)

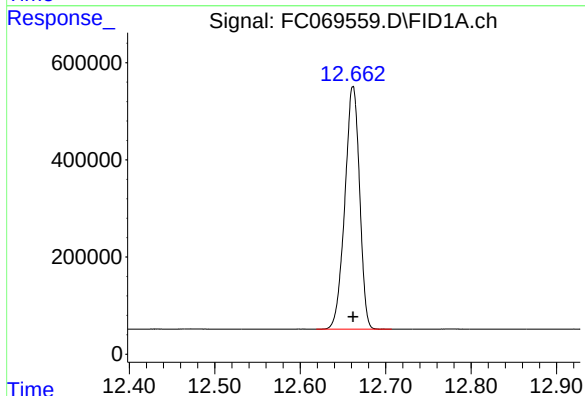
R.T.: 11.351 min
Delta R.T.: 0.000 min
Response: 6407218
Conc: 47.05 ug/ml



#9 ortho-Terphenyl (SURR)

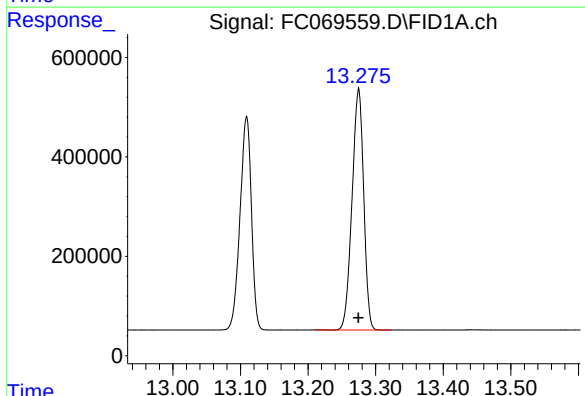
R.T.: 11.674 min
Delta R.T.: 0.000 min
Response: 6835847
Conc: 47.56 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



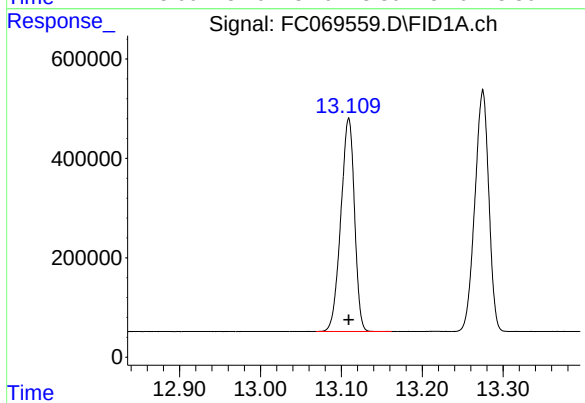
#10 n-Eicosane (C20)

R.T.: 12.662 min
Delta R.T.: 0.000 min
Response: 5985413
Conc: 47.33 ug/ml



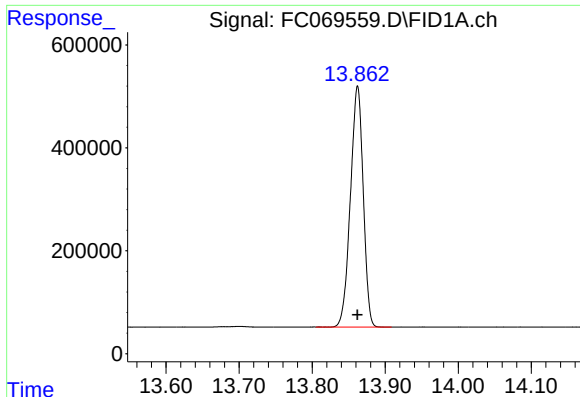
#11 n-Heneicosane (C21)

R.T.: 13.275 min
Delta R.T.: 0.000 min
Response: 5808893
Conc: 47.44 ug/ml



#12 1-chlorooctadecane (SURR)

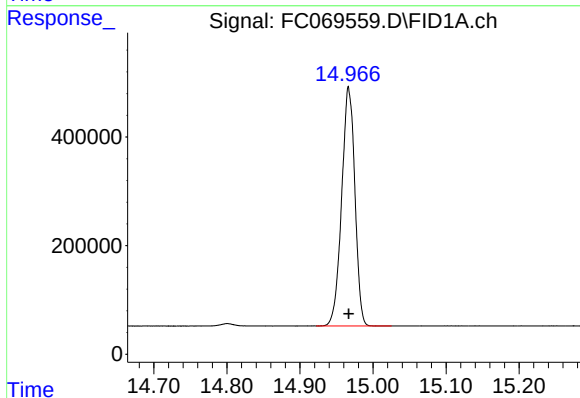
R.T.: 13.109 min
Delta R.T.: 0.000 min
Response: 5030704
Conc: 47.61 ug/ml



#13 n-Docosane (C22)

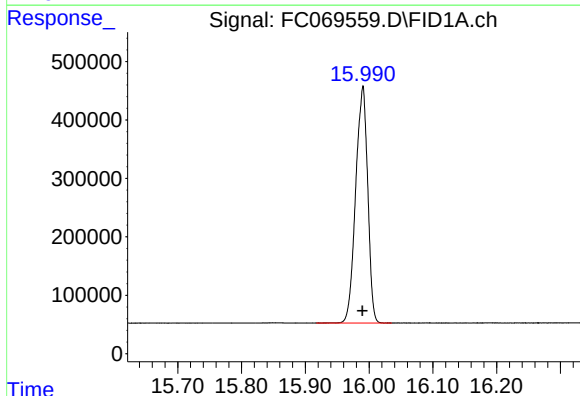
R.T.: 13.862 min
Delta R.T.: 0.000 min
Response: 5705652
Conc: 47.53 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



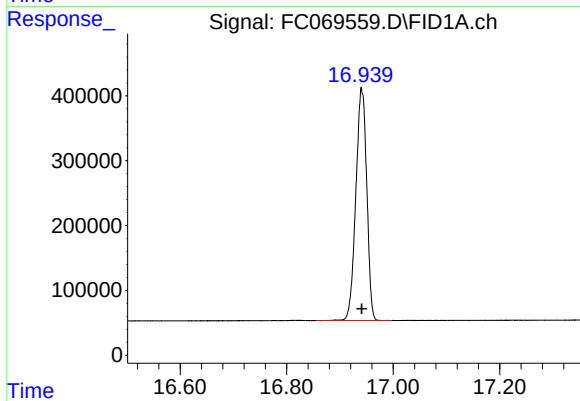
#14 n-Tetracosane (C24)

R.T.: 14.967 min
Delta R.T.: 0.000 min
Response: 5527058
Conc: 47.68 ug/ml



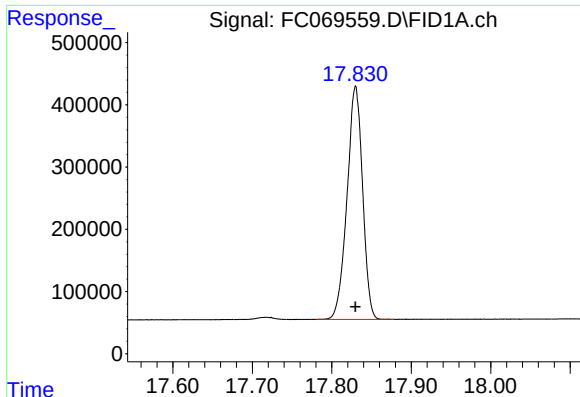
#15 n-Hexacosane (C26)

R.T.: 15.990 min
Delta R.T.: 0.000 min
Response: 5299336
Conc: 47.73 ug/ml



#16 n-Octacosane (C28)

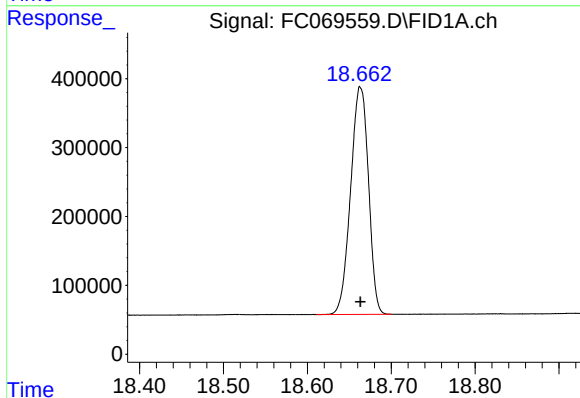
R.T.: 16.941 min
Delta R.T.: 0.000 min
Response: 5093903
Conc: 47.71 ug/ml



#17 n-Tricontane (C30)

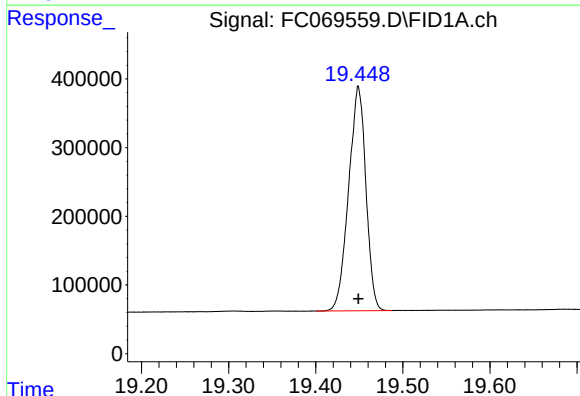
R.T.: 17.830 min
Delta R.T.: 0.000 min
Response: 5089600
Conc: 47.59 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



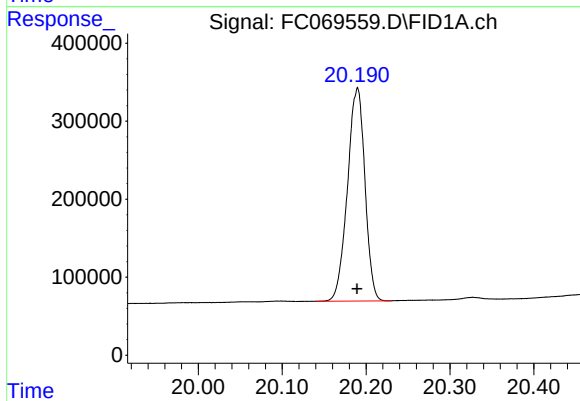
#18 n-Dotriacontane (C32)

R.T.: 18.663 min
Delta R.T.: 0.000 min
Response: 4885889
Conc: 47.50 ug/ml



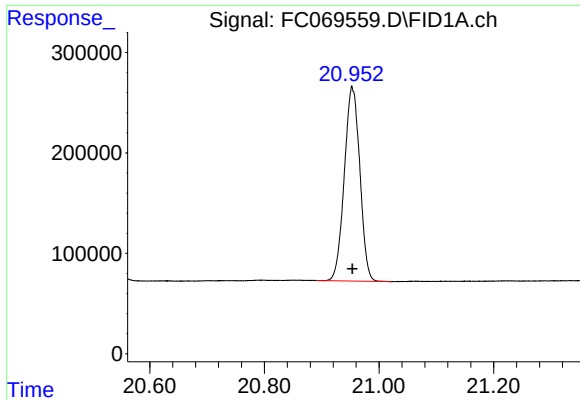
#19 n-Tetratriacontane (C34)

R.T.: 19.449 min
Delta R.T.: 0.000 min
Response: 4493512
Conc: 47.39 ug/ml



#20 n-Hexatriacontane (C36)

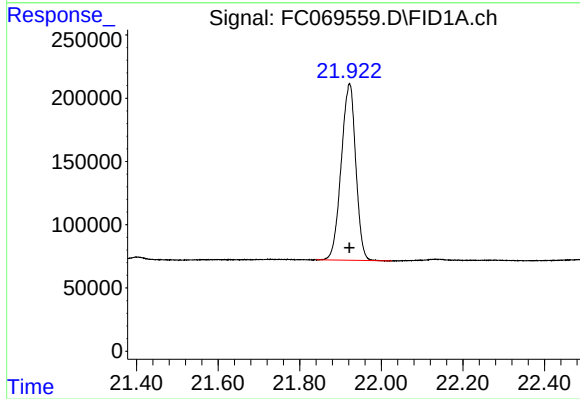
R.T.: 20.189 min
Delta R.T.: 0.000 min
Response: 3952844
Conc: 47.29 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.953 min
Delta R.T.: 0.000 min
Response: 3637053
Conc: 47.39 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.922 min
Delta R.T.: 0.000 min
Response: 3462128
Conc: 47.63 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069559.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 11:43
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 080125.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	3.402	3.367	3.440	BB	767884	6460632	90.78%	5.217%
2	4.476	4.442	4.534	BB	730907	6602241	92.77%	5.332%
3	6.072	6.037	6.150	BB	777576	7117131	100.00%	5.747%
4	6.501	6.465	6.554	BB	659056	6628143	93.13%	5.353%
5	7.132	7.082	7.239	BB	674204	6792629	95.44%	5.485%
6	8.301	8.264	8.365	BB	604554	6486829	91.14%	5.238%
7	9.906	9.845	9.987	BB	596945	6527978	91.72%	5.272%
8	11.351	11.310	11.415	BB	565203	6407218	90.03%	5.174%
9	11.674	11.634	11.730	BB	651686	6835847	96.05%	5.520%
10	12.662	12.619	12.707	BB	499653	5985413	84.10%	4.834%
11	13.109	13.069	13.162	BB	428770	5030704	70.68%	4.063%
12	13.275	13.212	13.324	BB	487675	5808893	81.62%	4.691%
13	13.862	13.805	13.909	BB	469221	5705652	80.17%	4.608%
14	14.967	14.922	15.025	BB	435680	5527058	77.66%	4.463%
15	15.990	15.917	16.035	BB	406930	5299336	74.46%	4.280%
16	16.941	16.855	16.997	BB	357249	5093903	71.57%	4.114%
17	17.830	17.780	17.875	BB	375927	5089600	71.51%	4.110%
18	18.663	18.610	18.700	BB	328772	4885889	68.65%	3.946%
19	19.449	19.400	19.487	BB	326962	4493512	63.14%	3.629%
20	20.189	20.140	20.230	BV	271528	3952844	55.54%	3.192%
21	20.953	20.890	21.022	BB	192089	3637053	51.10%	2.937%
22	21.922	21.840	22.025	BB	139624	3462128	48.64%	2.796%
Sum of corrected areas:						123830632		

Aliphatic EPH 080125.M Fri Aug 01 15:08:48 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
 Data File : FC069560.D
 Signal(s) : FID1A.ch
 Acq On : 01 Aug 2025 12:24
 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: Aug 01 13:14:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 13:14:26 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)	11.671	3038421	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.106	2224752	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.402	2927397	20.000 ug/ml
2) T n-Decane (C10)	4.474	3009770	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.070	3200665	20.000 ug/ml
4) T n-Dodecane (C12)	6.499	3028365	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.130	3039698	20.000 ug/ml
6) T n-Tetradecane (C14)	8.299	2960582	20.000 ug/ml
7) T n-Hexadecane (C16)	9.902	2981739	20.000 ug/ml
8) T n-Octadecane (C18)	11.348	2900399	20.000 ug/ml
10) T n-Eicosane (C20)	12.659	2686211	20.000 ug/ml
11) T n-Heneicosane (C21)	13.273	2595361	20.000 ug/ml
13) T n-Docosane (C22)	13.860	2543151	20.000 ug/ml
14) T n-Tetracosane (C24)	14.964	2450175	20.000 ug/ml
15) T n-Hexacosane (C26)	15.986	2347283	20.000 ug/ml
16) T n-Octacosane (C28)	16.938	2269696	20.000 ug/ml
17) T n-Tricontane (C30)	17.827	2301407	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.660	2234449	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.446	2056944	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.186	1806195	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.952	1645997	20.000 ug/ml
22) T n-Tetracontane (C40)	21.918	1549473	20.000 ug/ml

(f)=RT Delta > 1/2 Window

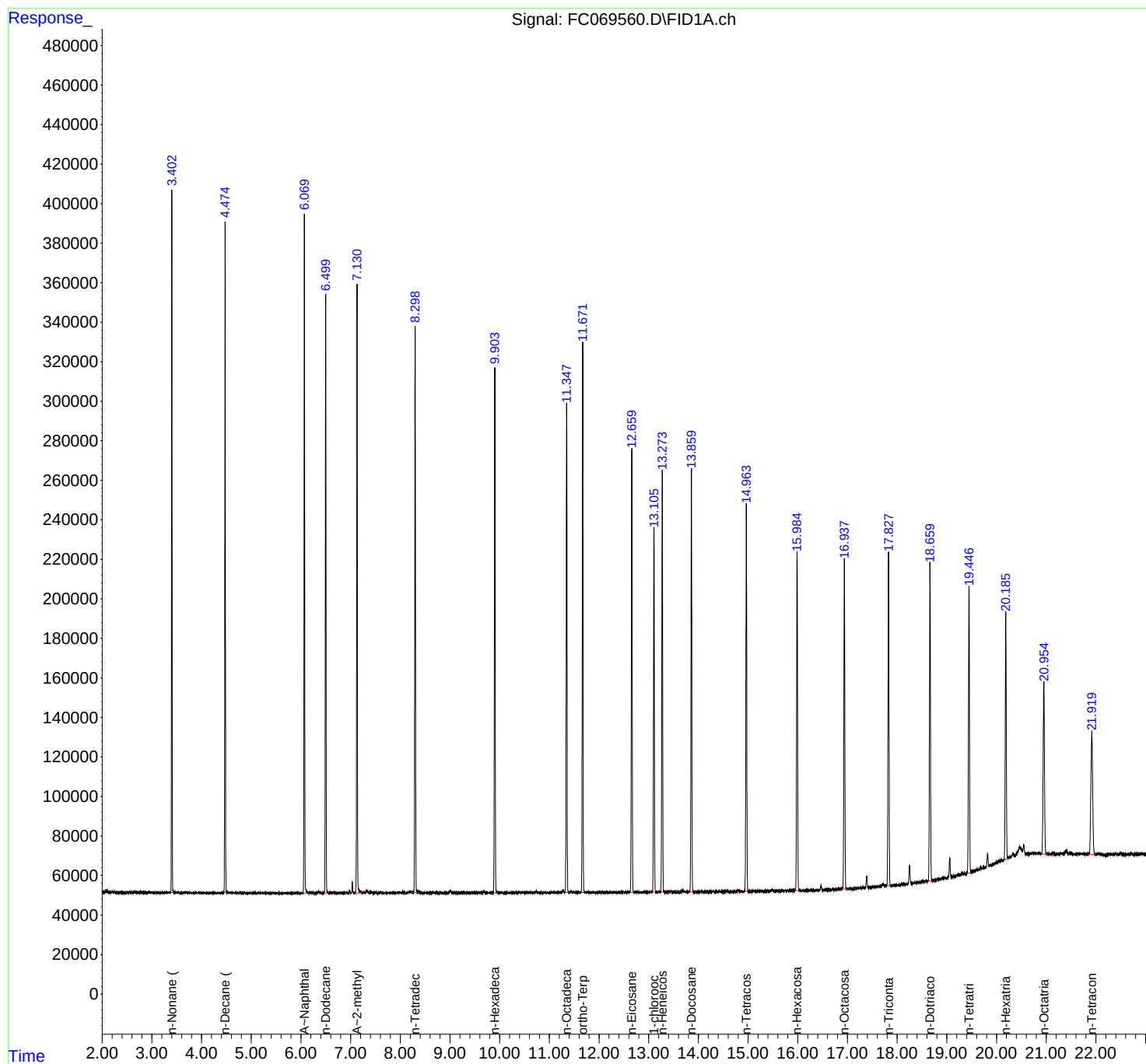
(m)=manual int.

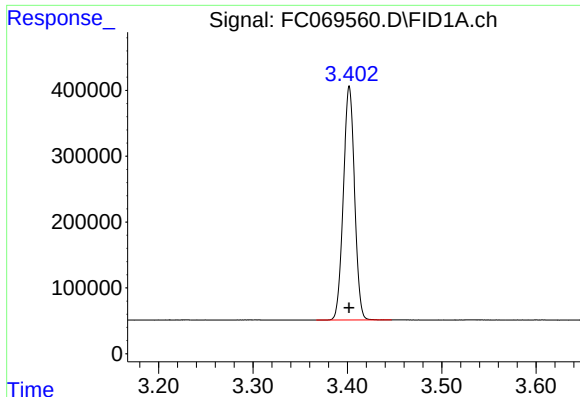
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069560.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 12:24
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Aug 01 13:14:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:14:26 2025
Response via : Initial Calibration
Integrator: ChemStation

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

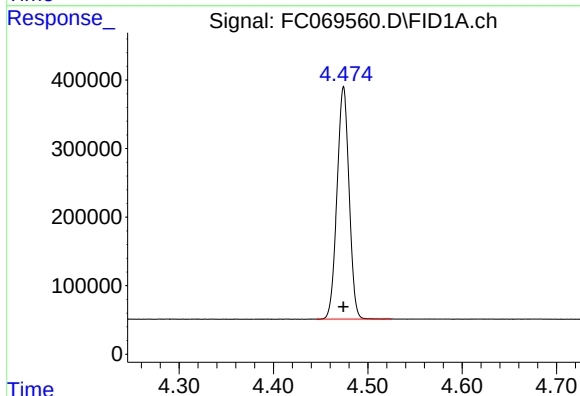




#1 n-Nonane (C9)

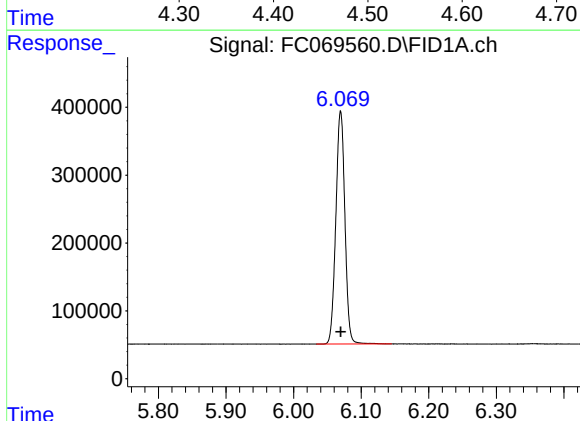
R.T.: 3.402 min
Delta R.T.: 0.000 min
Response: 2927397
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



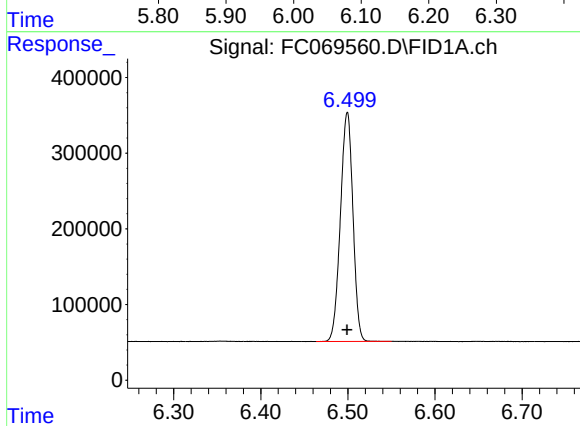
#2 n-Decane (C10)

R.T.: 4.474 min
Delta R.T.: 0.000 min
Response: 3009770
Conc: 20.00 ug/ml



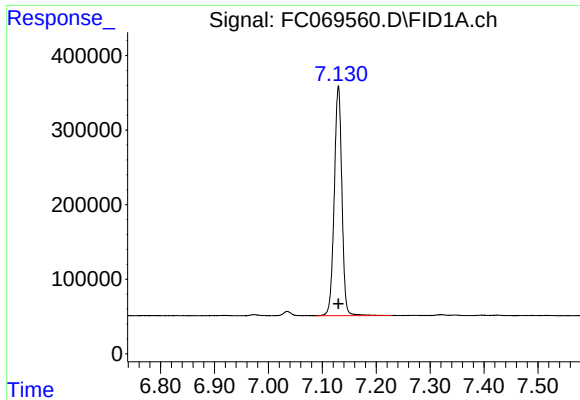
#3 A~Naphthalene (C11.7)

R.T.: 6.070 min
Delta R.T.: 0.000 min
Response: 3200665
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

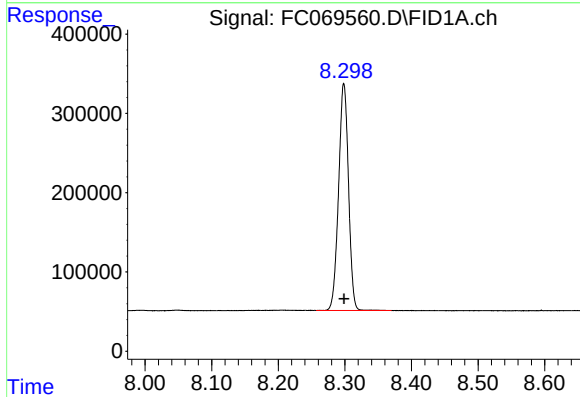
R.T.: 6.499 min
Delta R.T.: 0.000 min
Response: 3028365
Conc: 20.00 ug/ml



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

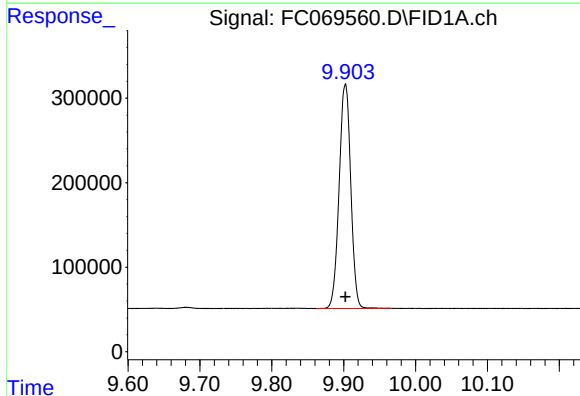
R.T.: 7.130 min
Delta R.T.: 0.000 min
Response: 3039698
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



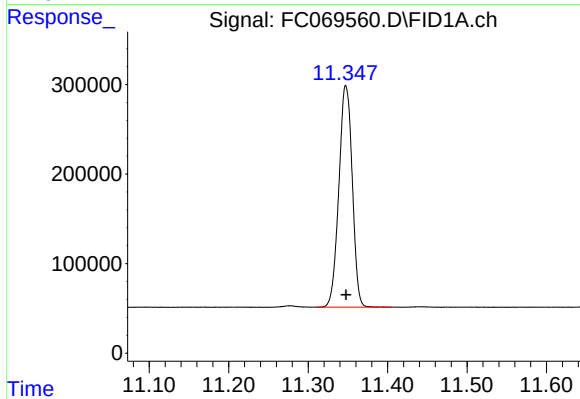
#6 n-Tetradecane (C14)

R.T.: 8.299 min
Delta R.T.: 0.000 min
Response: 2960582
Conc: 20.00 ug/ml



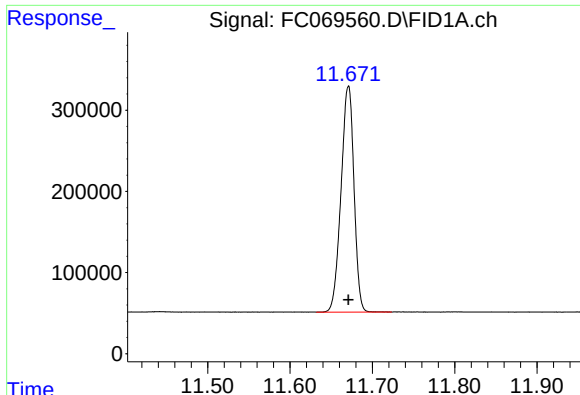
#7 n-Hexadecane (C16)

R.T.: 9.902 min
Delta R.T.: 0.000 min
Response: 2981739
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

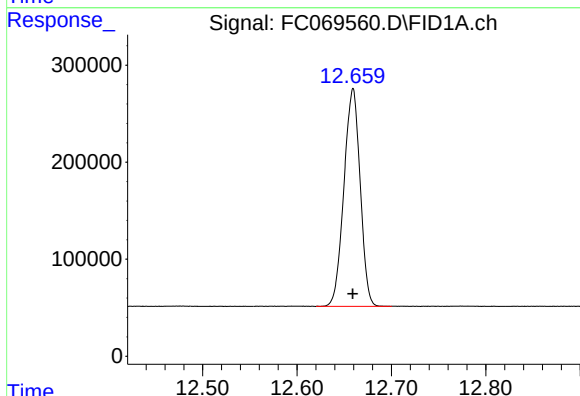
R.T.: 11.348 min
Delta R.T.: 0.000 min
Response: 2900399
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

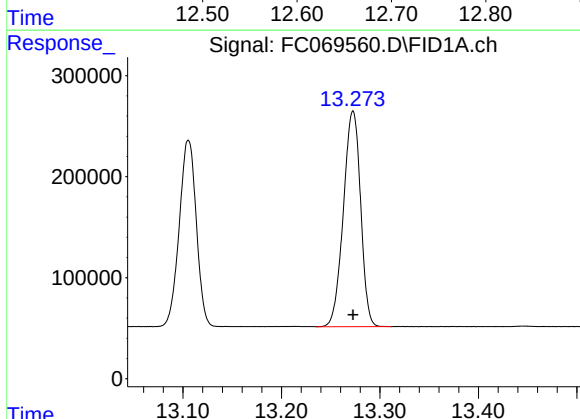
R.T.: 11.671 min
Delta R.T.: 0.000 min
Response: 3038421
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



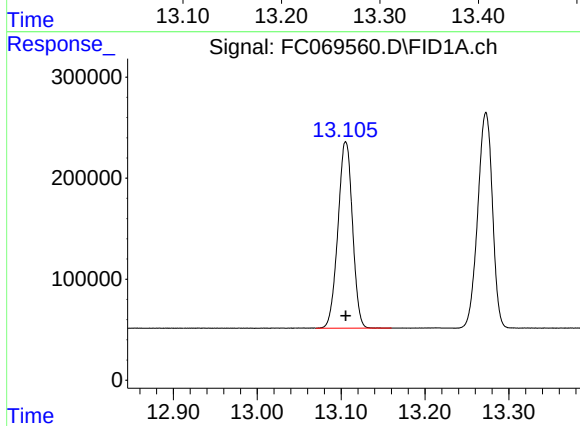
#10 n-Eicosane (C20)

R.T.: 12.659 min
Delta R.T.: 0.000 min
Response: 2686211
Conc: 20.00 ug/ml



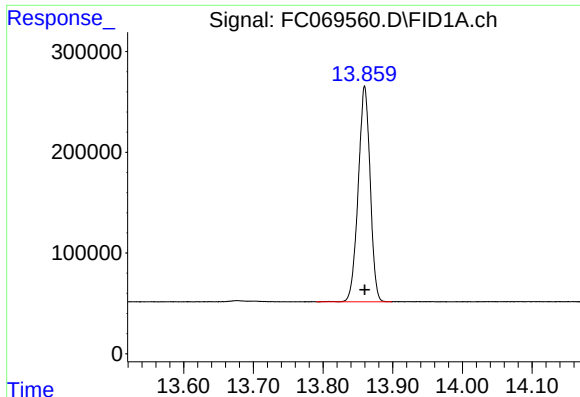
#11 n-Heneicosane (C21)

R.T.: 13.273 min
Delta R.T.: 0.000 min
Response: 2595361
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

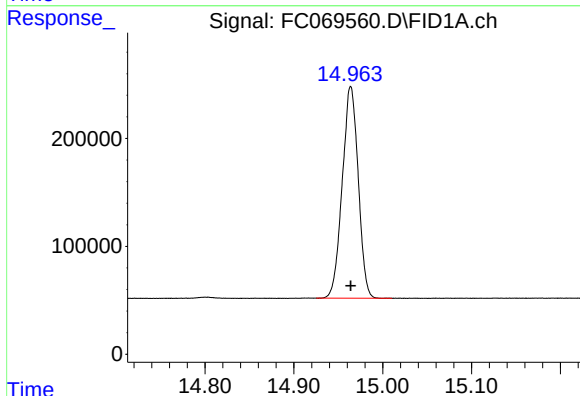
R.T.: 13.106 min
Delta R.T.: 0.000 min
Response: 2224752
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

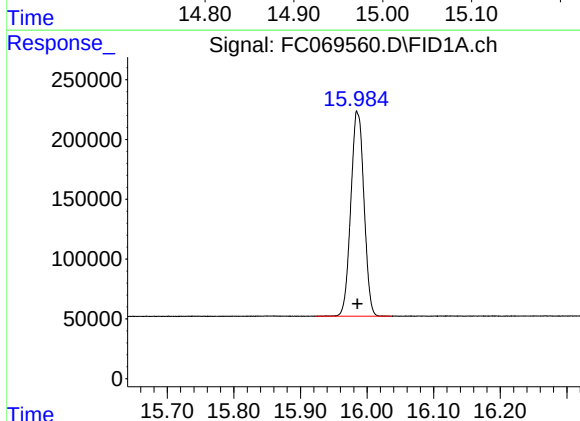
R.T.: 13.860 min
Delta R.T.: 0.000 min
Response: 2543151
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



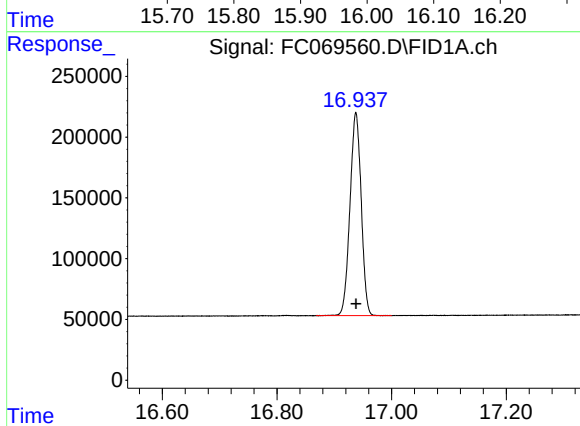
#14 n-Tetracosane (C24)

R.T.: 14.964 min
Delta R.T.: 0.000 min
Response: 2450175
Conc: 20.00 ug/ml



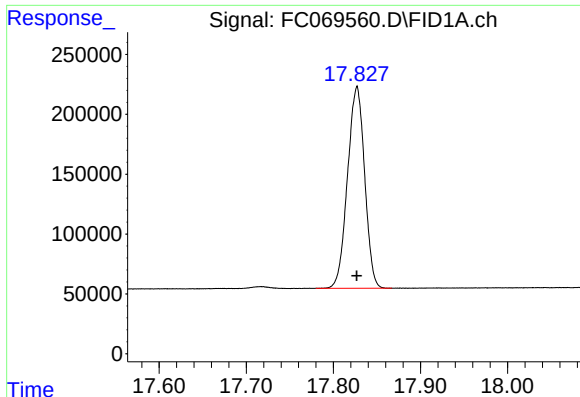
#15 n-Hexacosane (C26)

R.T.: 15.986 min
Delta R.T.: 0.000 min
Response: 2347283
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

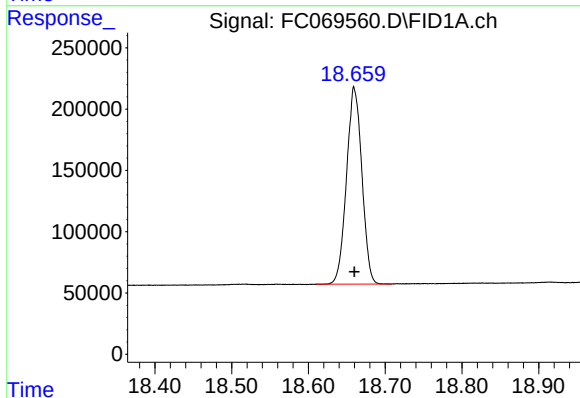
R.T.: 16.938 min
Delta R.T.: 0.000 min
Response: 2269696
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

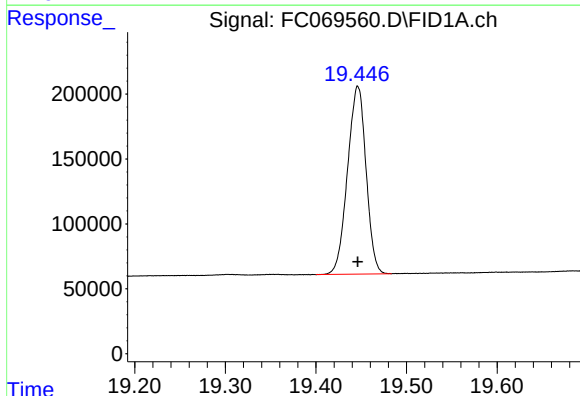
R.T.: 17.827 min
Delta R.T.: 0.000 min
Response: 2301407
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



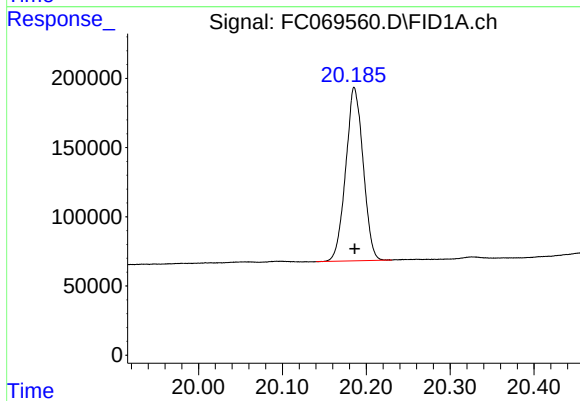
#18 n-Dotriacontane (C32)

R.T.: 18.660 min
Delta R.T.: 0.000 min
Response: 2234449
Conc: 20.00 ug/ml



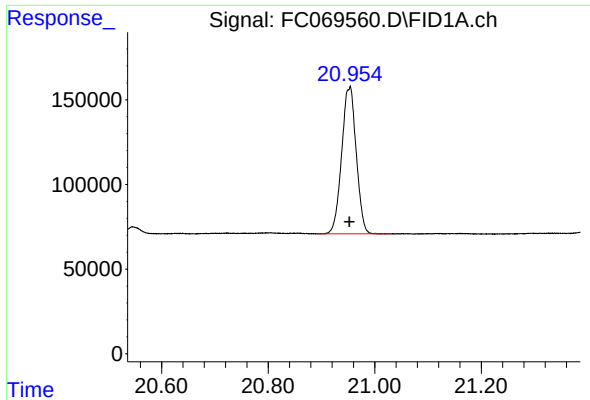
#19 n-Tetratriacontane (C34)

R.T.: 19.446 min
Delta R.T.: 0.000 min
Response: 2056944
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

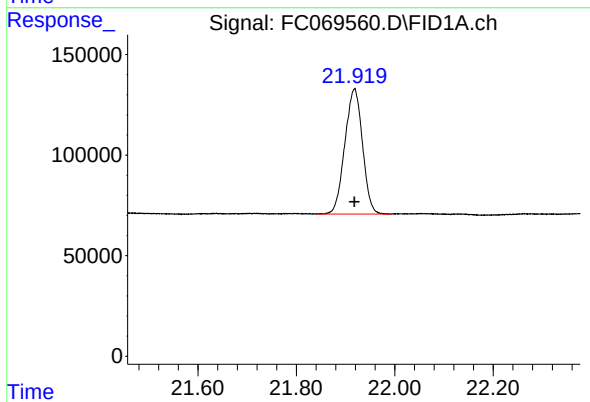
R.T.: 20.186 min
Delta R.T.: 0.000 min
Response: 1806195
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.952 min
Delta R.T.: 0.000 min
Response: 1645997
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.918 min
Delta R.T.: 0.000 min
Response: 1549473
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
 Data File : FC069560.D
 Signal(s) : FID1A.ch
 Acq On : 01 Aug 2025 12:24
 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 080125.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	3.402	3.367	3.447	BB	355162	2927397	91.46%	5.246%
2	4.474	4.445	4.525	BB	338269	3009770	94.04%	5.394%
3	6.070	6.033	6.145	BB	343195	3200665	100.00%	5.736%
4	6.499	6.463	6.550	BB	302438	3028365	94.62%	5.427%
5	7.130	7.088	7.228	BB	308518	3039698	94.97%	5.448%
6	8.299	8.257	8.370	BB	286366	2960582	92.50%	5.306%
7	9.902	9.862	9.967	BB	264774	2981739	93.16%	5.344%
8	11.348	11.310	11.405	BB	246104	2900399	90.62%	5.198%
9	11.671	11.632	11.723	BB	277969	3038421	94.93%	5.445%
10	12.659	12.620	12.700	BB	224081	2686211	83.93%	4.814%
11	13.106	13.070	13.160	BB	184547	2224752	69.51%	3.987%
12	13.273	13.235	13.312	BB	213340	2595361	81.09%	4.651%
13	13.860	13.790	13.898	BB	214096	2543151	79.46%	4.558%
14	14.964	14.925	15.010	BB	196220	2450175	76.55%	4.391%
15	15.986	15.923	16.037	BB	170402	2347283	73.34%	4.207%
16	16.938	16.868	17.000	BB	167286	2269696	70.91%	4.068%
17	17.827	17.780	17.867	BB	168435	2301407	71.90%	4.125%
18	18.660	18.610	18.708	BB	158841	2234449	69.81%	4.005%
19	19.446	19.400	19.483	BB	144512	2056944	64.27%	3.686%
20	20.186	20.140	20.230	BV	124468	1806195	56.43%	3.237%
21	20.952	20.890	21.032	BB	85565	1645997	51.43%	2.950%
22	21.918	21.840	21.993	BB	62374	1549473	48.41%	2.777%
Sum of corrected areas:						55798128		

Aliphatic EPH 080125.M Fri Aug 01 15:09:21 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
 Data File : FC069561.D
 Signal(s) : FID1A.ch
 Acq On : 01 Aug 2025 13:06
 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: Aug 01 13:29:21 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 13:29:13 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)	11.669	1534923	10.501 ug/ml
Spiked Amount 50.000		Recovery =	21.00%
12) S 1-chlorooctadecane (S...	13.105	1117333	10.424 ug/ml
Spiked Amount 50.000		Recovery =	20.85%
Target Compounds			
1) T n-Nonane (C9)	3.400	1439879	10.334 ug/ml
2) T n-Decane (C10)	4.473	1462951	10.271 ug/ml
3) T A~Naphthalene (C11.7)	6.069	1569203	10.302 ug/ml
4) T n-Dodecane (C12)	6.498	1467891	10.251 ug/ml
5) T A~2-methylnaphthalene...	7.128	1485813	10.245 ug/ml
6) T n-Tetradecane (C14)	8.297	1433466	10.235 ug/ml
7) T n-Hexadecane (C16)	9.902	1464276	10.359 ug/ml
8) T n-Octadecane (C18)	11.346	1447437	10.464 ug/ml
10) T n-Eicosane (C20)	12.658	1356080	10.533 ug/ml
11) T n-Heneicosane (C21)	13.271	1316459	10.553 ug/ml
13) T n-Docosane (C22)	13.858	1289069	10.544 ug/ml
14) T n-Tetracosane (C24)	14.963	1243261	10.534 ug/ml
15) T n-Hexacosane (C26)	15.985	1187475	10.513 ug/ml
16) T n-Octacosane (C28)	16.937	1148200	10.556 ug/ml
17) T n-Tricontane (C30)	17.825	1169356	10.684 ug/ml
18) T n-Dotriacontane (C32)	18.659	1129813	10.721 ug/ml
19) T n-Tetratriacontane (C34)	19.444	1035291	10.674 ug/ml
20) T n-Hexatriacontane (C36)	20.186	908236	10.636 ug/ml
21) T n-Octatriacontane (C38)	20.951	799482	10.309 ug/ml
22) T n-Tetracontane (C40)	21.915	749275	10.229 ug/ml

(f)=RT Delta > 1/2 Window

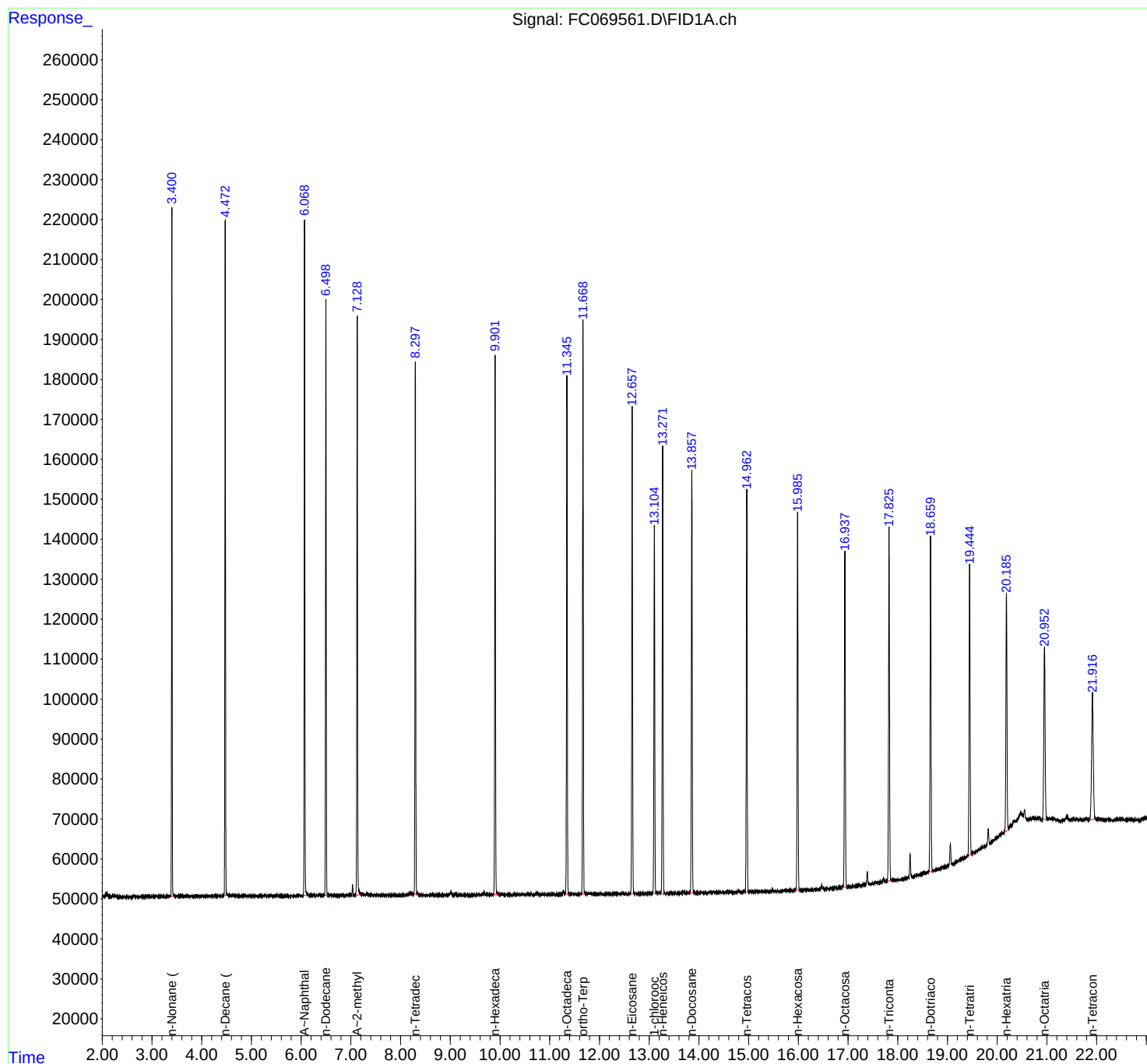
(m)=manual int.

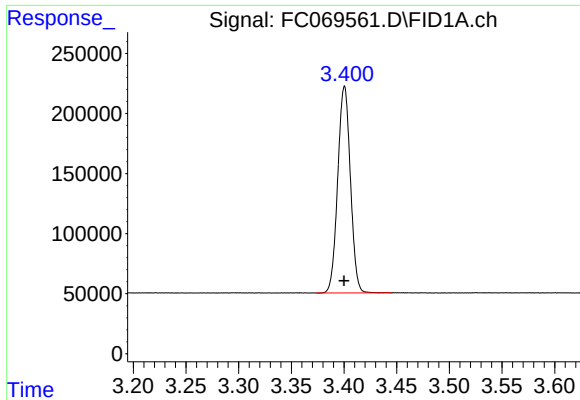
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069561.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 13:06
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Aug 01 13:29:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:29:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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

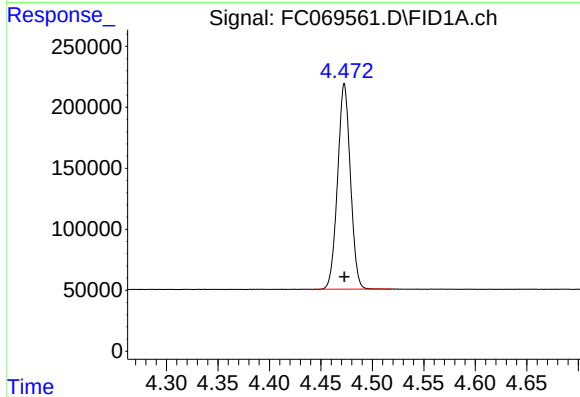




#1 n-Nonane (C9)

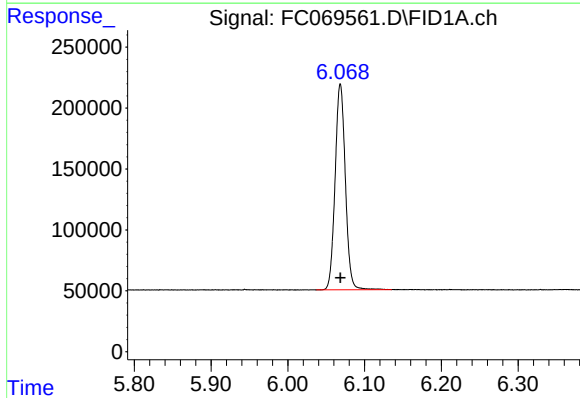
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 1439879
Conc: 10.33 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



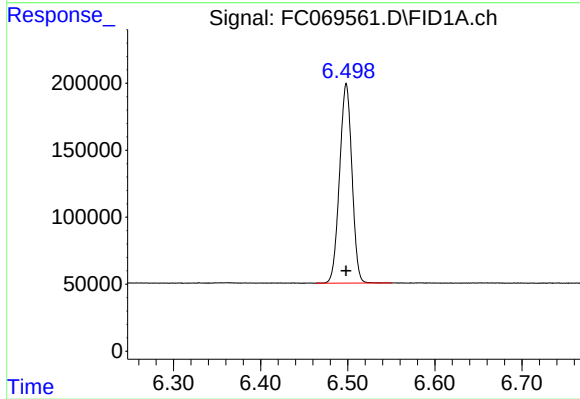
#2 n-Decane (C10)

R.T.: 4.473 min
Delta R.T.: 0.000 min
Response: 1462951
Conc: 10.27 ug/ml



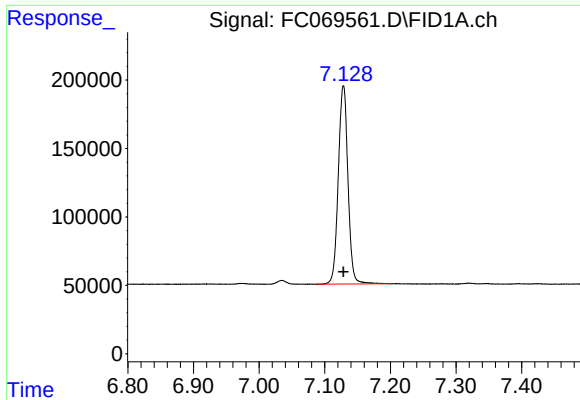
#3 A~Naphthalene (C11.7)

R.T.: 6.069 min
Delta R.T.: 0.000 min
Response: 1569203
Conc: 10.30 ug/ml



#4 n-Dodecane (C12)

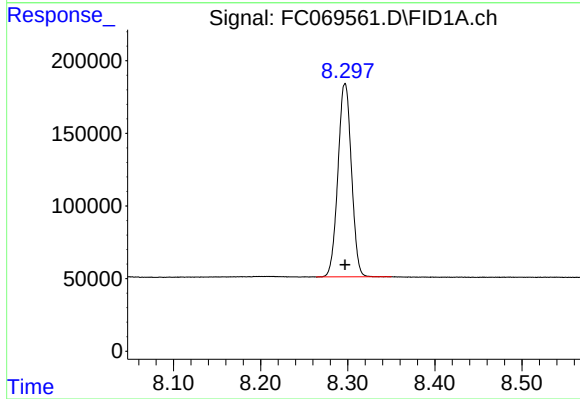
R.T.: 6.498 min
Delta R.T.: 0.000 min
Response: 1467891
Conc: 10.25 ug/ml



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

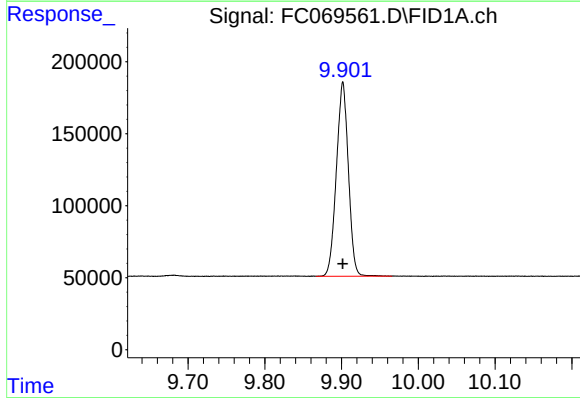
R.T.: 7.128 min
Delta R.T.: 0.000 min
Response: 1485813
Conc: 10.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



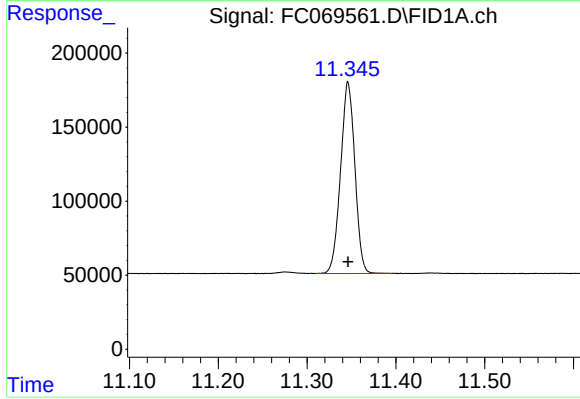
#6 n-Tetradecane (C14)

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 1433466
Conc: 10.23 ug/ml



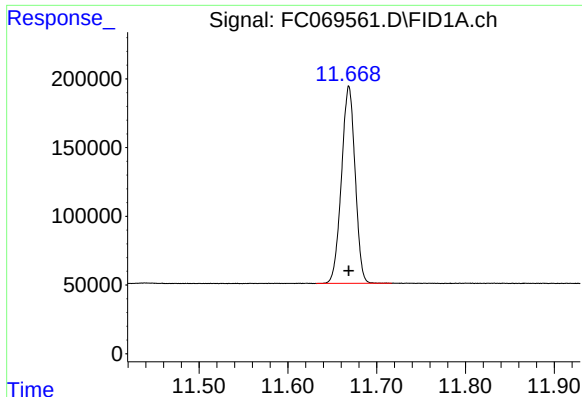
#7 n-Hexadecane (C16)

R.T.: 9.902 min
Delta R.T.: 0.000 min
Response: 1464276
Conc: 10.36 ug/ml



#8 n-Octadecane (C18)

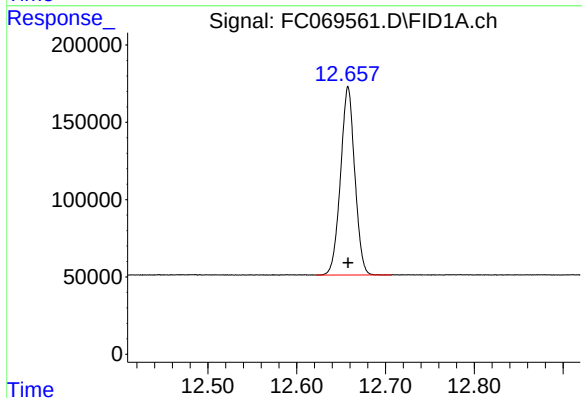
R.T.: 11.346 min
Delta R.T.: 0.000 min
Response: 1447437
Conc: 10.46 ug/ml



#9 ortho-Terphenyl (SURR)

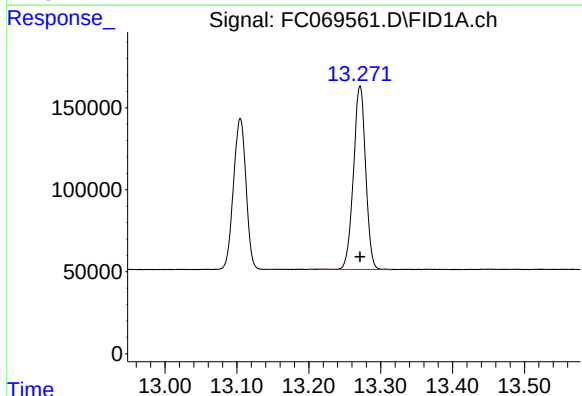
R.T.: 11.669 min
Delta R.T.: 0.000 min
Response: 1534923
Conc: 10.50 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



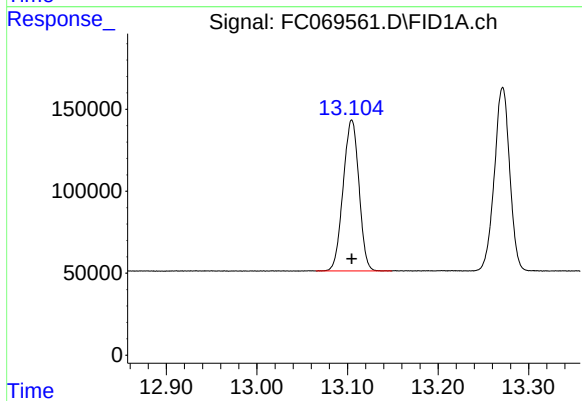
#10 n-Eicosane (C20)

R.T.: 12.658 min
Delta R.T.: 0.000 min
Response: 1356080
Conc: 10.53 ug/ml



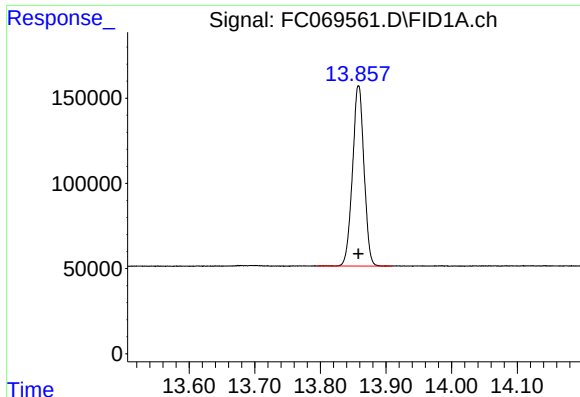
#11 n-Heneicosane (C21)

R.T.: 13.271 min
Delta R.T.: 0.000 min
Response: 1316459
Conc: 10.55 ug/ml



#12 1-chlorooctadecane (SURR)

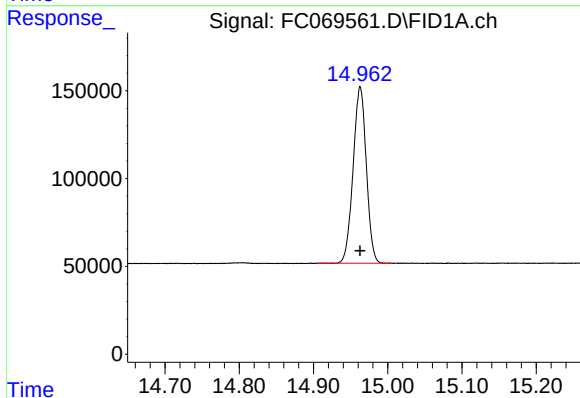
R.T.: 13.105 min
Delta R.T.: 0.000 min
Response: 1117333
Conc: 10.42 ug/ml



#13 n-Docosane (C22)

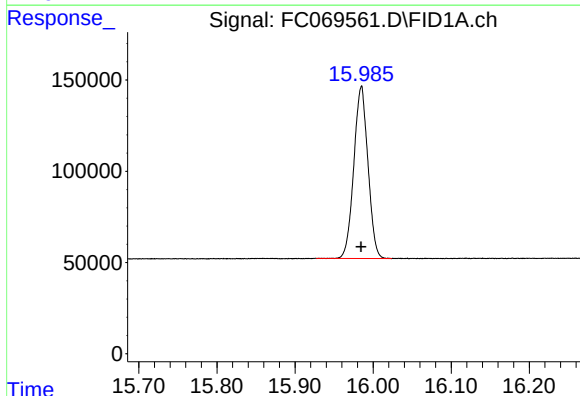
R.T.: 13.858 min
Delta R.T.: 0.000 min
Response: 1289069
Conc: 10.54 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



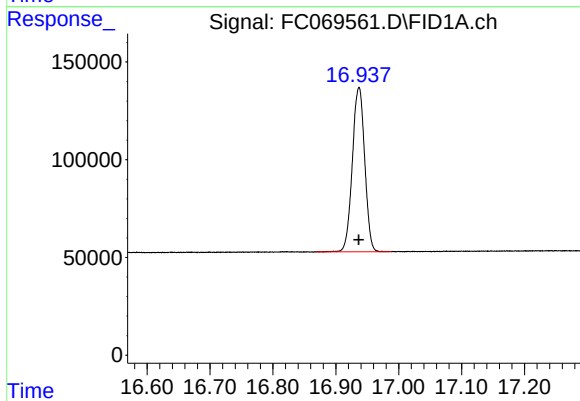
#14 n-Tetracosane (C24)

R.T.: 14.963 min
Delta R.T.: 0.000 min
Response: 1243261
Conc: 10.53 ug/ml



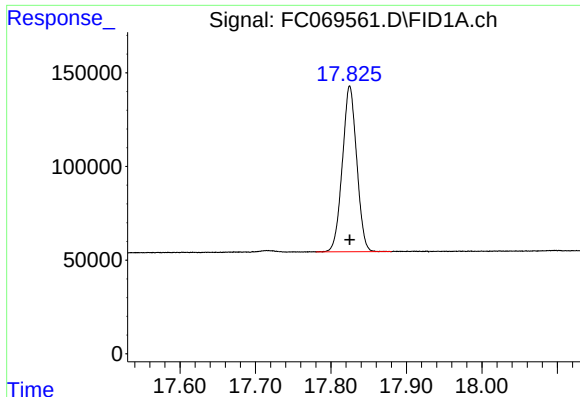
#15 n-Hexacosane (C26)

R.T.: 15.985 min
Delta R.T.: 0.000 min
Response: 1187475
Conc: 10.51 ug/ml



#16 n-Octacosane (C28)

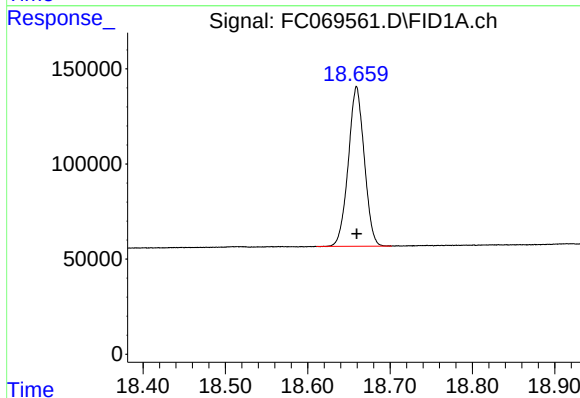
R.T.: 16.937 min
Delta R.T.: 0.000 min
Response: 1148200
Conc: 10.56 ug/ml



#17 n-Tricontane (C30)

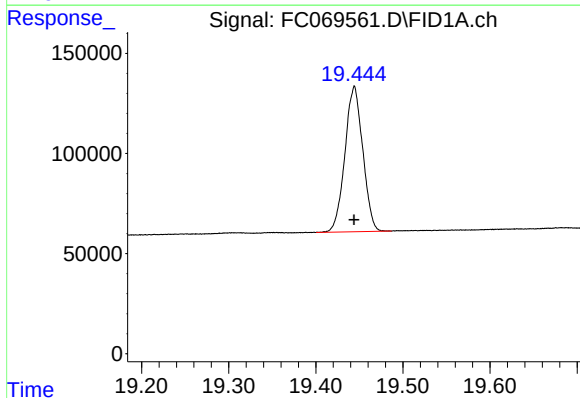
R.T.: 17.825 min
Delta R.T.: 0.000 min
Response: 1169356
Conc: 10.68 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



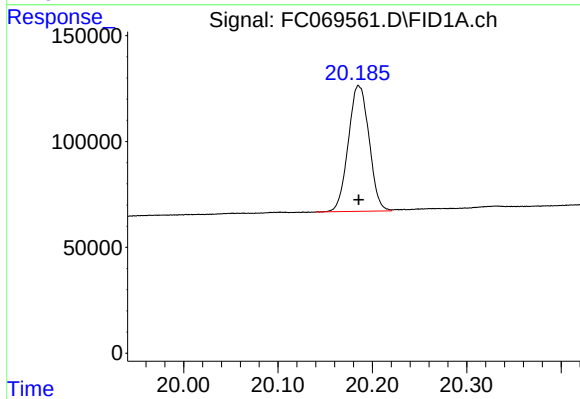
#18 n-Dotriacontane (C32)

R.T.: 18.659 min
Delta R.T.: 0.000 min
Response: 1129813
Conc: 10.72 ug/ml



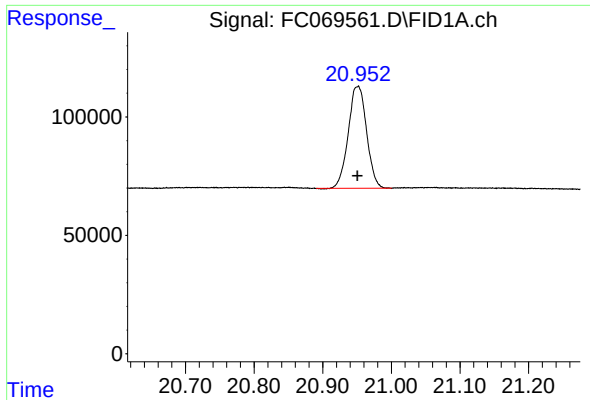
#19 n-Tetratriacontane (C34)

R.T.: 19.444 min
Delta R.T.: 0.000 min
Response: 1035291
Conc: 10.67 ug/ml



#20 n-Hexatriacontane (C36)

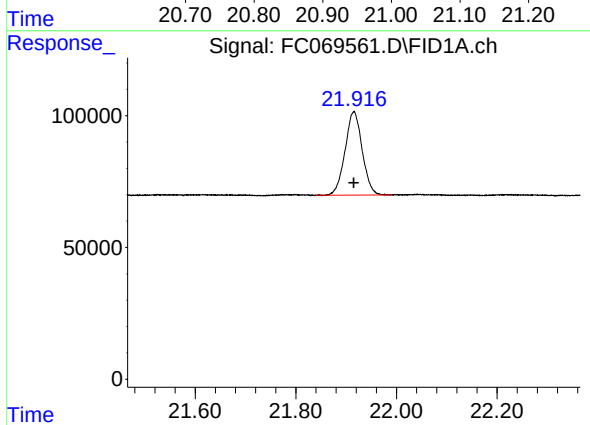
R.T.: 20.186 min
Delta R.T.: 0.000 min
Response: 908236
Conc: 10.64 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.951 min
Delta R.T.: 0.000 min
Response: 799482
Conc: 10.31 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.915 min
Delta R.T.: 0.000 min
Response: 749275
Conc: 10.23 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
 Data File : FC069561.D
 Signal(s) : FID1A.ch
 Acq On : 01 Aug 2025 13:06
 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 080125.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	3.400	3.374	3.445	BB	172113	1439879	91.76%	5.188%
2	4.473	4.445	4.519	BB	167943	1462951	93.23%	5.271%
3	6.069	6.037	6.135	BB	168967	1569203	100.00%	5.654%
4	6.498	6.464	6.550	BB	149172	1467891	93.54%	5.289%
5	7.128	7.087	7.202	BB	145315	1485813	94.69%	5.353%
6	8.297	8.264	8.350	BB	133068	1433466	91.35%	5.165%
7	9.902	9.867	9.965	BB	135234	1464276	93.31%	5.276%
8	11.346	11.310	11.395	BB	128377	1447437	92.24%	5.215%
9	11.669	11.632	11.717	BB	143989	1534923	97.82%	5.530%
10	12.658	12.622	12.707	BB	121821	1356080	86.42%	4.886%
11	13.105	13.065	13.149	BB	92191	1117333	71.20%	4.026%
12	13.271	13.210	13.315	BB	112196	1316459	83.89%	4.743%
13	13.858	13.794	13.909	BB	105843	1289069	82.15%	4.644%
14	14.963	14.904	15.005	BB	100401	1243261	79.23%	4.479%
15	15.985	15.927	16.024	BB	94931	1187475	75.67%	4.278%
16	16.937	16.869	16.989	BB	84232	1148200	73.17%	4.137%
17	17.825	17.780	17.880	BB	88459	1169356	74.52%	4.213%
18	18.659	18.610	18.702	BB	84000	1129813	72.00%	4.071%
19	19.444	19.400	19.487	BB	72518	1035291	65.98%	3.730%
20	20.186	20.140	20.220	BV	59413	908236	57.88%	3.272%
21	20.951	20.890	21.000	BB	42908	799482	50.95%	2.880%
22	21.915	21.840	21.990	BB	31700	749275	47.75%	2.700%
Sum of corrected areas:						27755170		

Aliphatic EPH 080125.M Fri Aug 01 15:09:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
 Data File : FC069562.D
 Signal(s) : FID1A.ch
 Acq On : 01 Aug 2025 13:47
 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: Aug 01 14:13:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 14:13:39 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)	11.667	806321	5.405 ug/ml
Spiked Amount 50.000		Recovery =	10.81%
12) S 1-chlorooctadecane (S...	13.104	581885	5.337 ug/ml
Spiked Amount 50.000		Recovery =	10.67%
Target Compounds			
1) T n-Nonane (C9)	3.401	775207	5.441 ug/ml
2) T n-Decane (C10)	4.473	785741	5.405 ug/ml
3) T A~Naphthalene (C11.7)	6.068	832580	5.366 ug/ml
4) T n-Dodecane (C12)	6.497	790720	5.409 ug/ml
5) T A~2-methylnaphthalene...	7.128	781407	5.306 ug/ml
6) T n-Tetradecane (C14)	8.297	766590	5.372 ug/ml
7) T n-Hexadecane (C16)	9.901	777062	5.390 ug/ml
8) T n-Octadecane (C18)	11.345	768778	5.436 ug/ml
10) T n-Eicosane (C20)	12.656	718355	5.453 ug/ml
11) T n-Heneicosane (C21)	13.270	693612	5.438 ug/ml
13) T n-Docosane (C22)	13.857	677921	5.427 ug/ml
14) T n-Tetracosane (C24)	14.962	656255	5.438 ug/ml
15) T n-Hexacosane (C26)	15.984	629658	5.449 ug/ml
16) T n-Octacosane (C28)	16.935	626748	5.592 ug/ml
17) T n-Tricontane (C30)	17.824	673441	5.882 ug/ml
18) T n-Dotriacontane (C32)	18.658	669294	6.025 ug/ml
19) T n-Tetratriacontane (C34)	19.443	605748	5.949 ug/ml
20) T n-Hexatriacontane (C36)	20.185	521228	5.846 ug/ml
21) T n-Octatriacontane (C38)	20.949	460015	5.719 ug/ml
22) T n-Tetracontane (C40)	21.915	406976	5.435 ug/ml

(f)=RT Delta > 1/2 Window

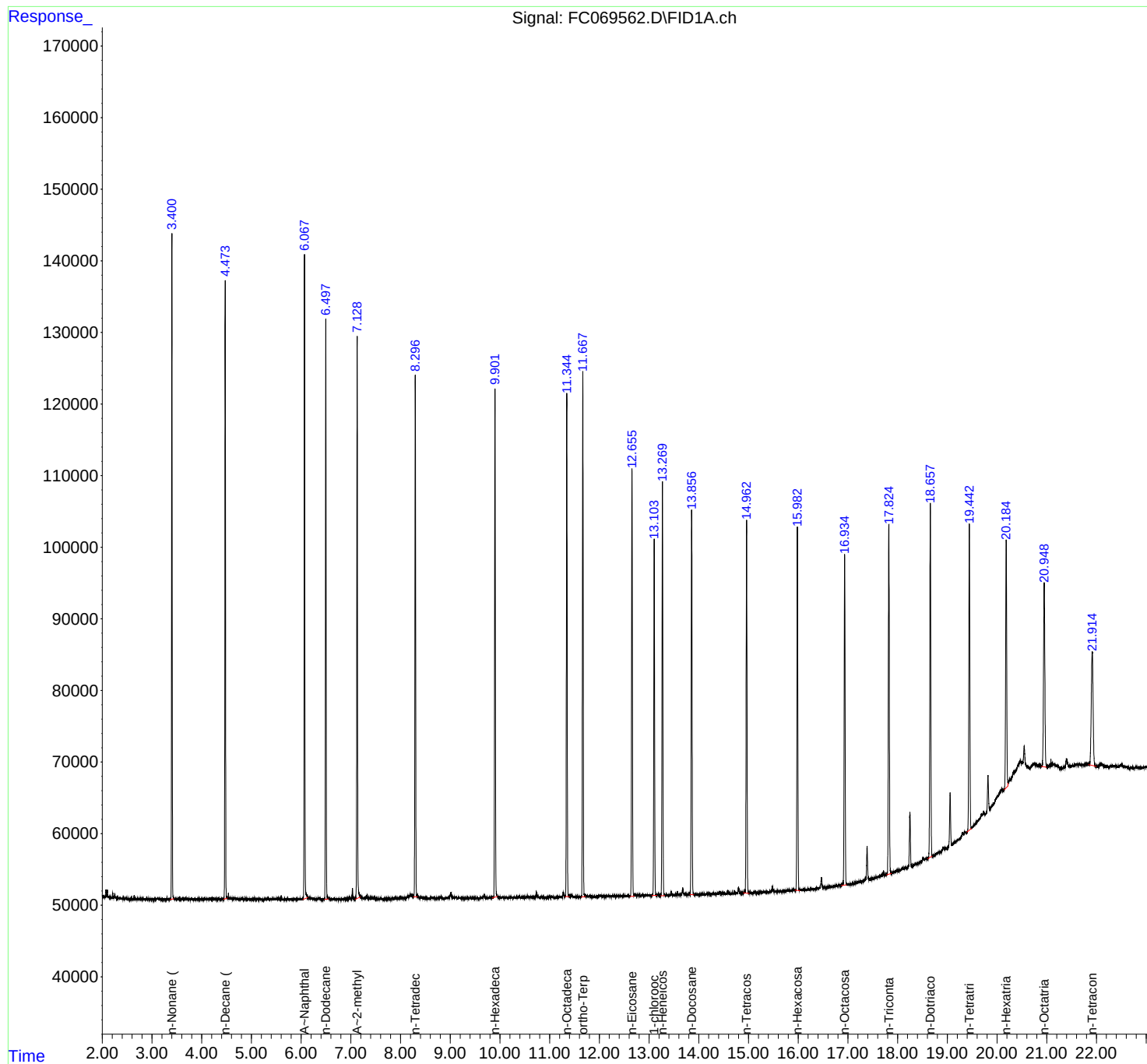
(m)=manual int.

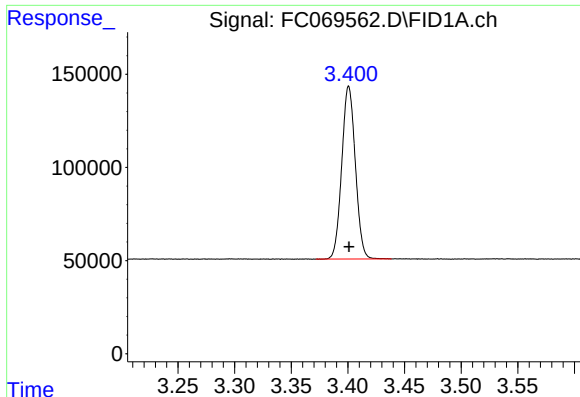
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069562.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 13:47
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Aug 01 14:13:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:13:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

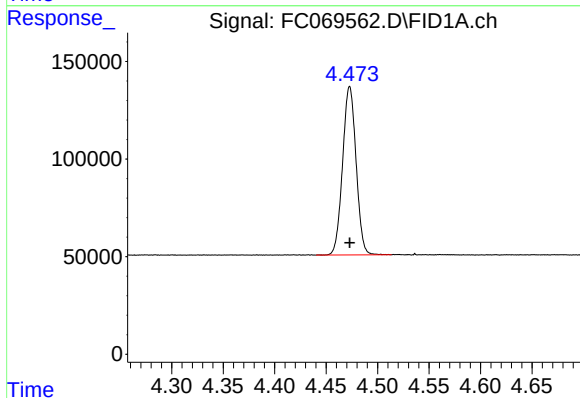




#1 n-Nonane (C9)

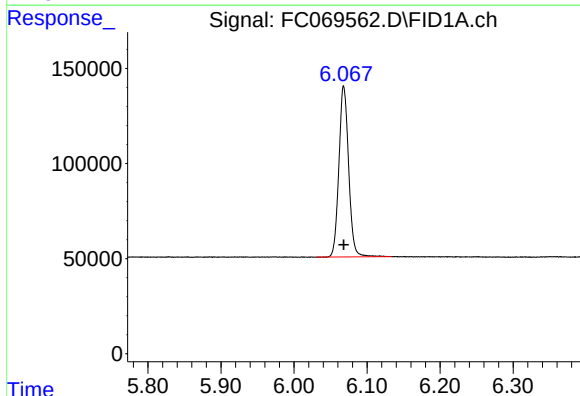
R.T.: 3.401 min
Delta R.T.: 0.000 min
Response: 775207
Conc: 5.44 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



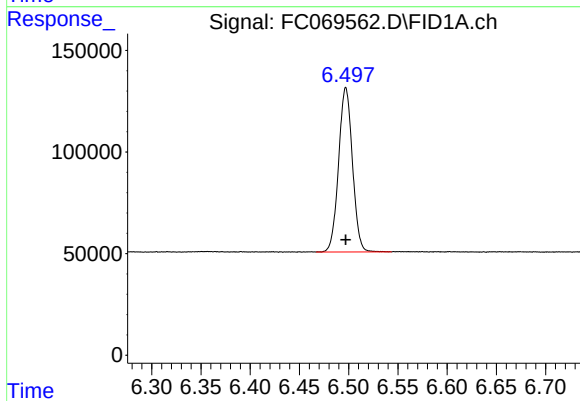
#2 n-Decane (C10)

R.T.: 4.473 min
Delta R.T.: 0.000 min
Response: 785741
Conc: 5.40 ug/ml



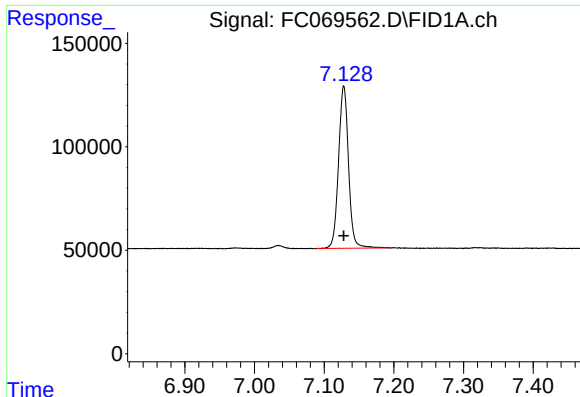
#3 A~Naphthalene (C11.7)

R.T.: 6.068 min
Delta R.T.: 0.000 min
Response: 832580
Conc: 5.37 ug/ml



#4 n-Dodecane (C12)

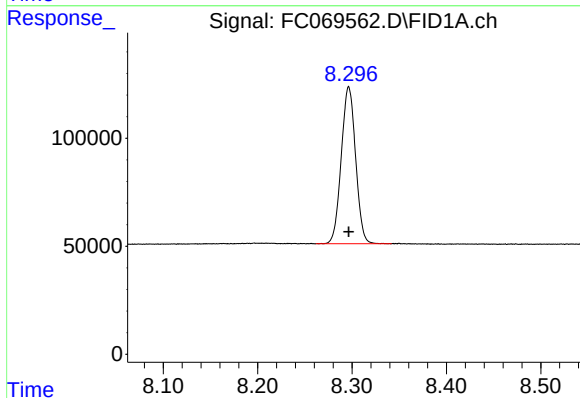
R.T.: 6.497 min
Delta R.T.: 0.000 min
Response: 790720
Conc: 5.41 ug/ml



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

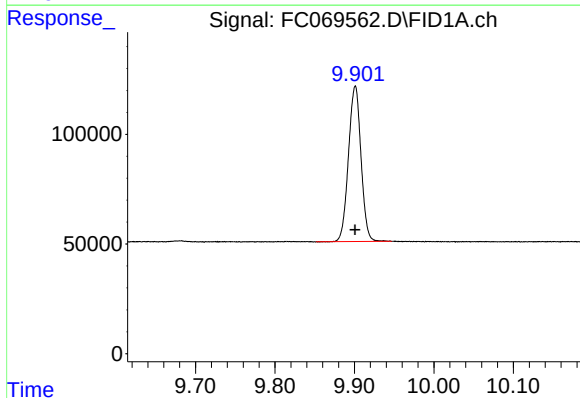
R.T.: 7.128 min
Delta R.T.: 0.000 min
Response: 781407
Conc: 5.31 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



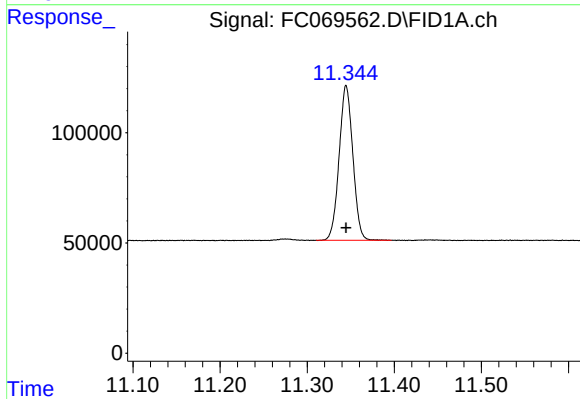
#6 n-Tetradecane (C14)

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 766590
Conc: 5.37 ug/ml



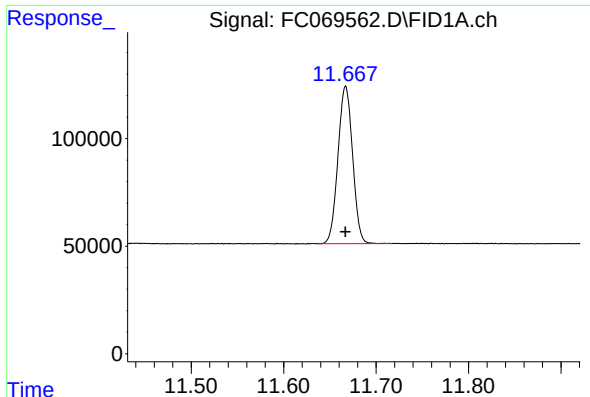
#7 n-Hexadecane (C16)

R.T.: 9.901 min
Delta R.T.: 0.000 min
Response: 777062
Conc: 5.39 ug/ml



#8 n-Octadecane (C18)

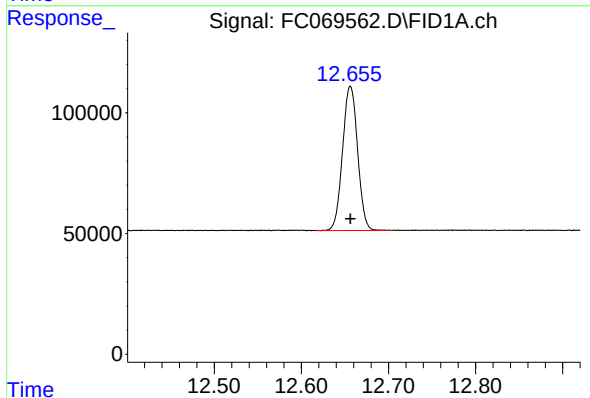
R.T.: 11.345 min
Delta R.T.: 0.000 min
Response: 768778
Conc: 5.44 ug/ml



#9 ortho-Terphenyl (SURR)

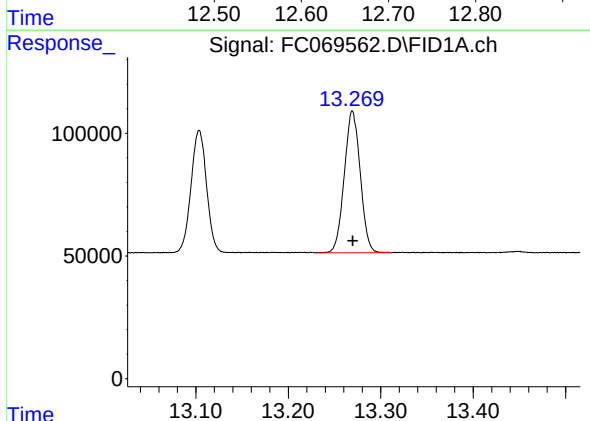
R.T.: 11.667 min
Delta R.T.: 0.000 min
Response: 806321
Conc: 5.40 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



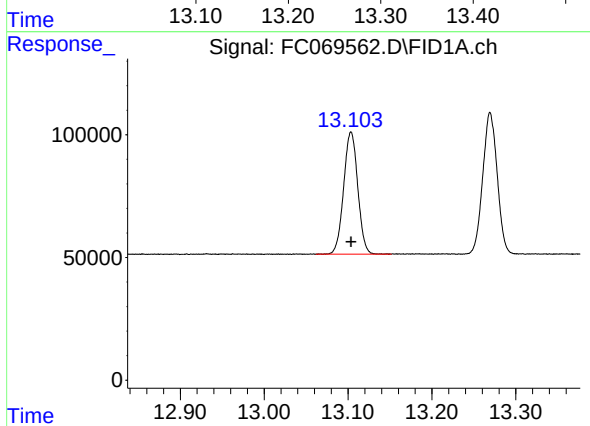
#10 n-Eicosane (C20)

R.T.: 12.656 min
Delta R.T.: 0.000 min
Response: 718355
Conc: 5.45 ug/ml



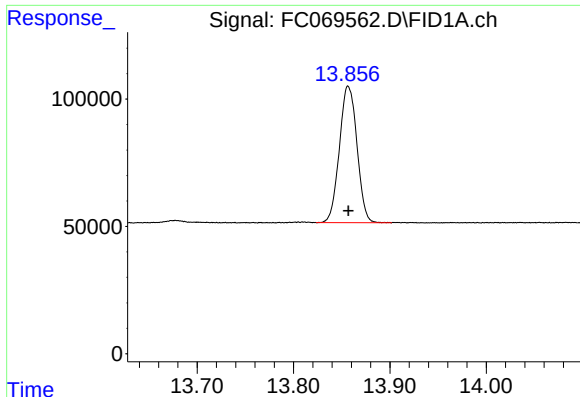
#11 n-Heneicosane (C21)

R.T.: 13.270 min
Delta R.T.: 0.000 min
Response: 693612
Conc: 5.44 ug/ml



#12 1-chlorooctadecane (SURR)

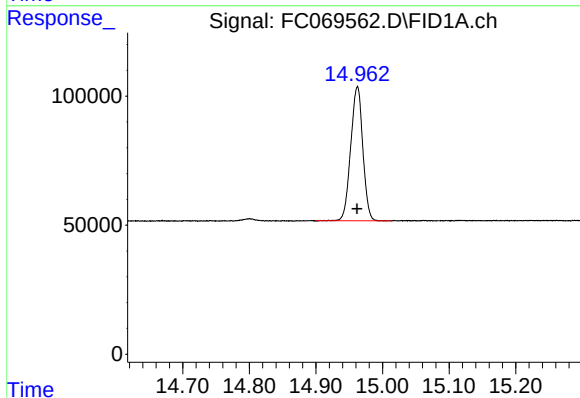
R.T.: 13.104 min
Delta R.T.: 0.000 min
Response: 581885
Conc: 5.34 ug/ml



#13 n-Docosane (C22)

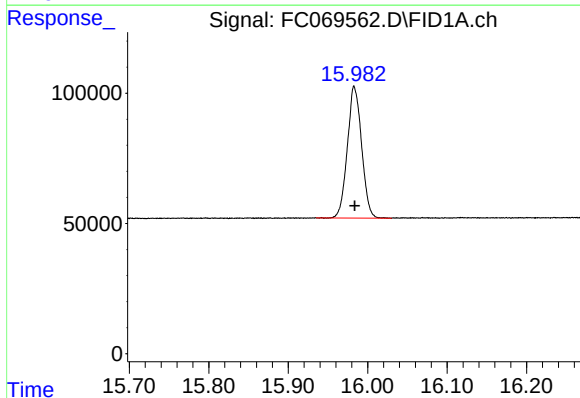
R.T.: 13.857 min
Delta R.T.: 0.000 min
Response: 677921
Conc: 5.43 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



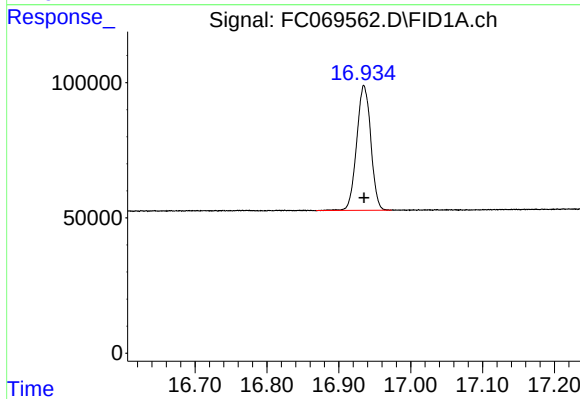
#14 n-Tetracosane (C24)

R.T.: 14.962 min
Delta R.T.: 0.000 min
Response: 656255
Conc: 5.44 ug/ml



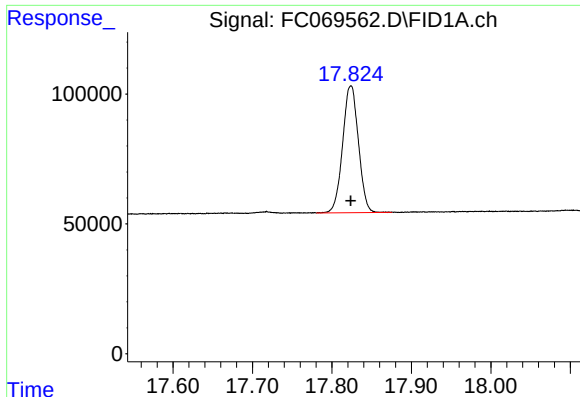
#15 n-Hexacosane (C26)

R.T.: 15.984 min
Delta R.T.: 0.000 min
Response: 629658
Conc: 5.45 ug/ml



#16 n-Octacosane (C28)

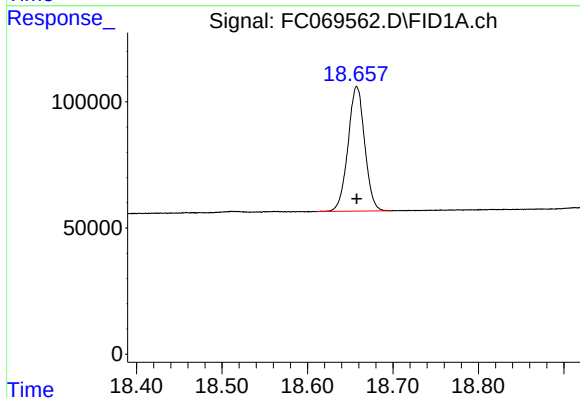
R.T.: 16.935 min
Delta R.T.: 0.000 min
Response: 626748
Conc: 5.59 ug/ml



#17 n-Tricontane (C30)

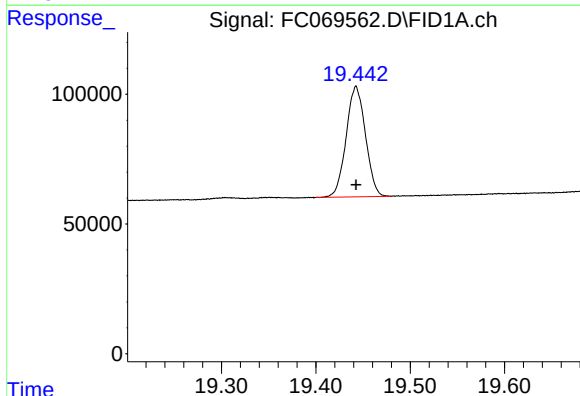
R.T.: 17.824 min
Delta R.T.: 0.000 min
Response: 673441
Conc: 5.88 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



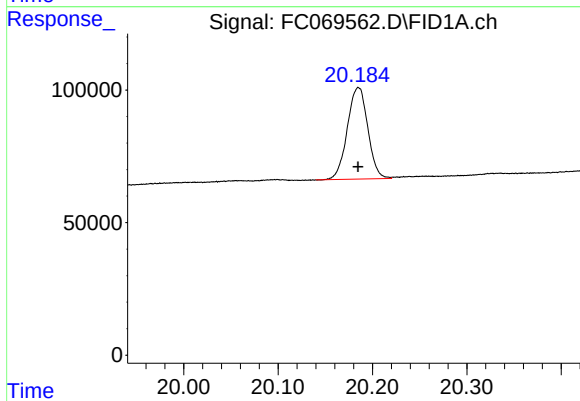
#18 n-Dotriacontane (C32)

R.T.: 18.658 min
Delta R.T.: 0.000 min
Response: 669294
Conc: 6.03 ug/ml



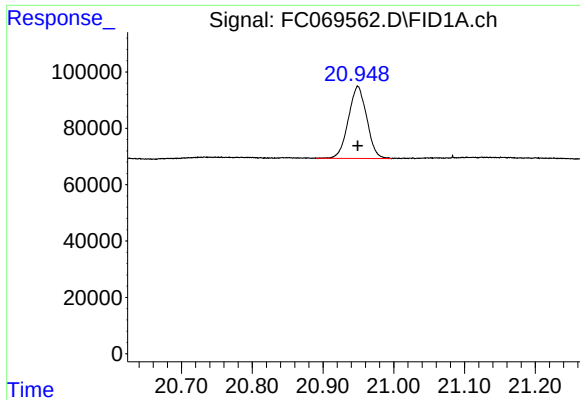
#19 n-Tetratriacontane (C34)

R.T.: 19.443 min
Delta R.T.: 0.000 min
Response: 605748
Conc: 5.95 ug/ml



#20 n-Hexatriacontane (C36)

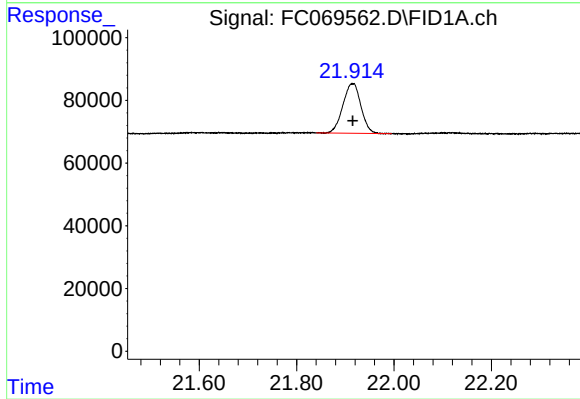
R.T.: 20.185 min
Delta R.T.: 0.000 min
Response: 521228
Conc: 5.85 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.949 min
Delta R.T.: 0.000 min
Response: 460015
Conc: 5.72 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.915 min
Delta R.T.: 0.000 min
Response: 406976
Conc: 5.43 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069562.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 13:47
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 080125.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	3.401	3.372	3.439	BB	92846	775207	93.11%	5.166%
2	4.473	4.440	4.514	BB	86387	785741	94.37%	5.236%
3	6.068	6.030	6.134	BB	89375	832580	100.00%	5.548%
4	6.497	6.467	6.544	BB	81025	790720	94.97%	5.270%
5	7.128	7.089	7.197	BB	78607	781407	93.85%	5.207%
6	8.297	8.262	8.342	BB	72705	766590	92.07%	5.109%
7	9.901	9.852	9.947	BB	70840	777062	93.33%	5.178%
8	11.345	11.310	11.397	BB	70089	768778	92.34%	5.123%
9	11.667	11.635	11.717	BB	73361	806321	96.85%	5.373%
10	12.656	12.617	12.704	BB	59753	718355	86.28%	4.787%
11	13.104	13.062	13.152	BB	49853	581885	69.89%	3.878%
12	13.270	13.230	13.312	BB	57609	693612	83.31%	4.622%
13	13.857	13.824	13.902	BB	53524	677921	81.42%	4.518%
14	14.962	14.900	15.014	BB	51940	656255	78.82%	4.373%
15	15.984	15.935	16.030	BB	50097	629658	75.63%	4.196%
16	16.935	16.869	16.974	BB	46038	626748	75.28%	4.177%
17	17.824	17.780	17.875	BB	48811	673441	80.89%	4.488%
18	18.658	18.610	18.699	BB	49432	669294	80.39%	4.460%
19	19.443	19.400	19.480	BB	42595	605748	72.76%	4.037%
20	20.185	20.140	20.220	BV	34631	521228	62.60%	3.474%
21	20.949	20.890	20.997	BB	25663	460015	55.25%	3.066%
22	21.915	21.840	21.995	BB	15790	406976	48.88%	2.712%
Sum of corrected areas:						15005541		

Aliphatic EPH 080125.M Fri Aug 01 15:10:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
 Data File : FC069563.D
 Signal(s) : FID1A.ch
 Acq On : 01 Aug 2025 14:28
 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: Aug 01 15:10:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 14:14:17 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)	11.669	3105191	20.814 ug/ml
Spiked Amount 50.000		Recovery =	41.63%
12) S 1-chlorooctadecane (S...	13.104	2286929	20.976 ug/ml
Spiked Amount 50.000		Recovery =	41.95%
Target Compounds			
1) T n-Nonane (C9)	3.400	2855286	20.041 ug/ml
2) T n-Decane (C10)	4.473	2929618	20.151 ug/ml
3) T A~Naphthalene (C11.7)	6.069	3158669	20.357 ug/ml
4) T n-Dodecane (C12)	6.498	2937597	20.095 ug/ml
5) T A~2-methylnaphthalene...	7.129	3013832	20.464 ug/ml
6) T n-Tetradecane (C14)	8.298	2888977	20.244 ug/ml
7) T n-Hexadecane (C16)	9.902	2948651	20.454 ug/ml
8) T n-Octadecane (C18)	11.346	2922239	20.665 ug/ml
10) T n-Eicosane (C20)	12.658	2742899	20.822 ug/ml
11) T n-Heneicosane (C21)	13.271	2664174	20.888 ug/ml
13) T n-Docosane (C22)	13.858	2615907	20.941 ug/ml
14) T n-Tetracosane (C24)	14.963	2528973	20.957 ug/ml
15) T n-Hexacosane (C26)	15.987	2413151	20.884 ug/ml
16) T n-Octacosane (C28)	16.937	2329648	20.784 ug/ml
17) T n-Tricontane (C30)	17.826	2357945	20.594 ug/ml
18) T n-Dotriacontane (C32)	18.659	2285649	20.576 ug/ml
19) T n-Tetratriacontane (C34)	19.445	2091381	20.539 ug/ml
20) T n-Hexatriacontane (C36)	20.186	1824700	20.464 ug/ml
21) T n-Octatriacontane (C38)	20.951	1652539	20.543 ug/ml
22) T n-Tetracontane (C40)	21.914	1550924	20.712 ug/ml

(f)=RT Delta > 1/2 Window

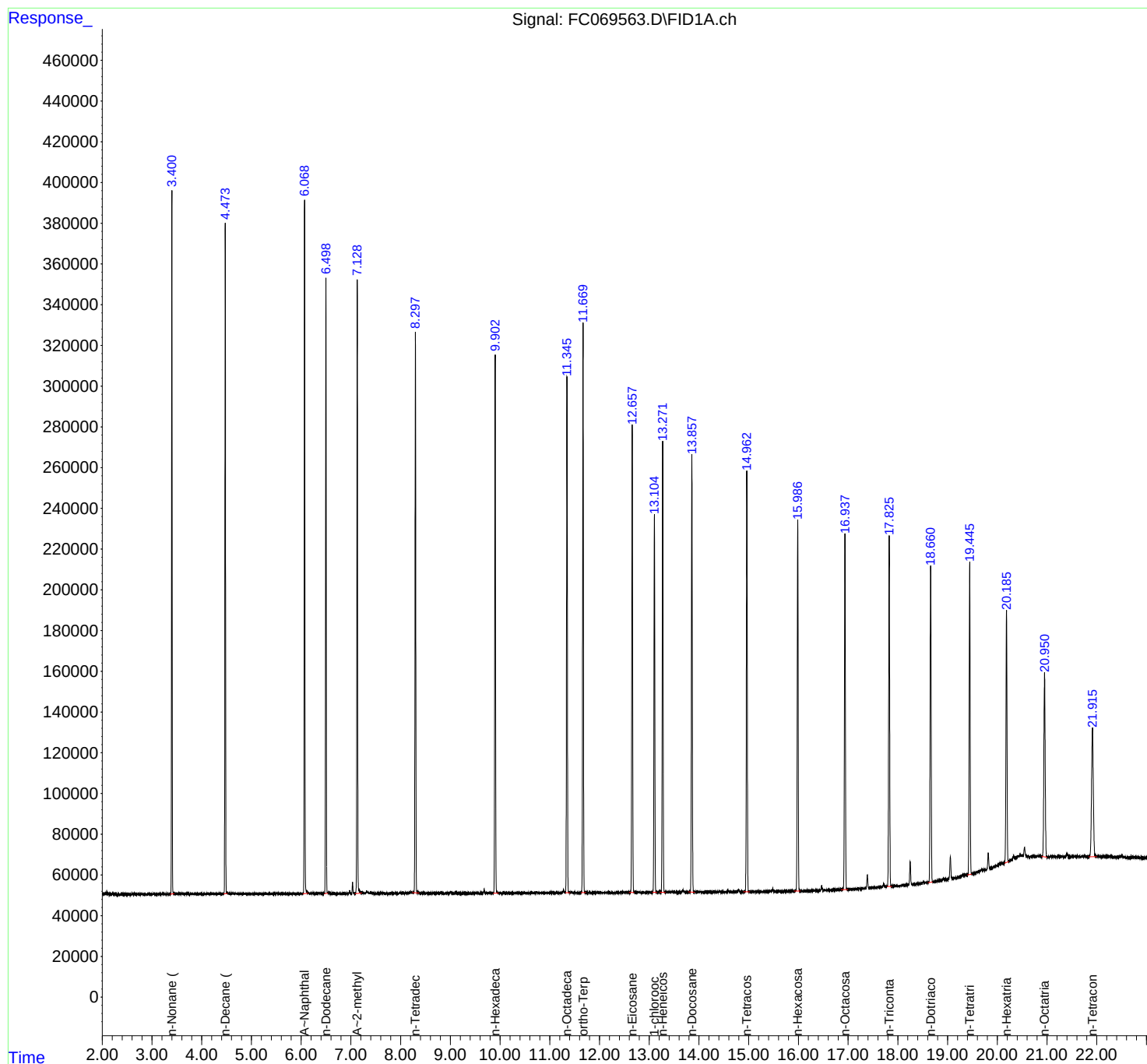
(m)=manual int.

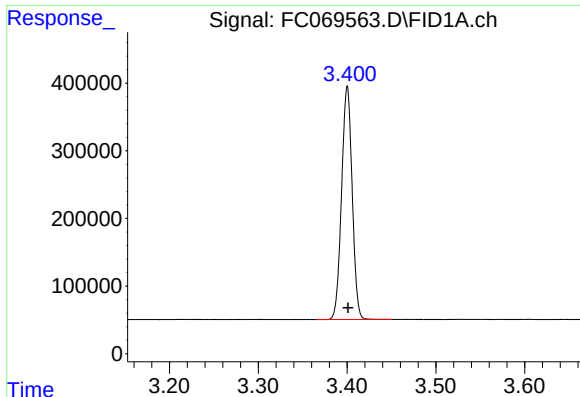
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069563.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 14:28
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Aug 01 15:10:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:14:17 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)

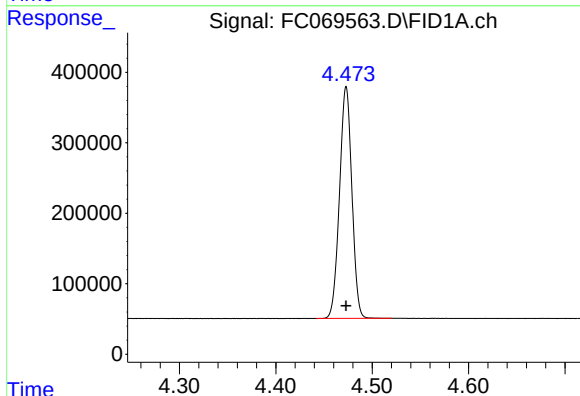
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 2855286
Conc: 20.04 ug/ml

Instrument :

FID_C

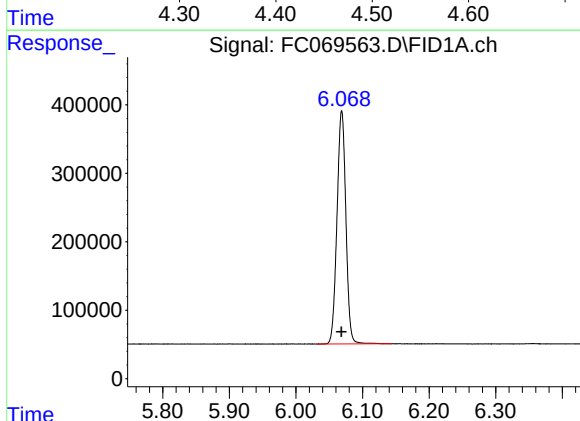
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



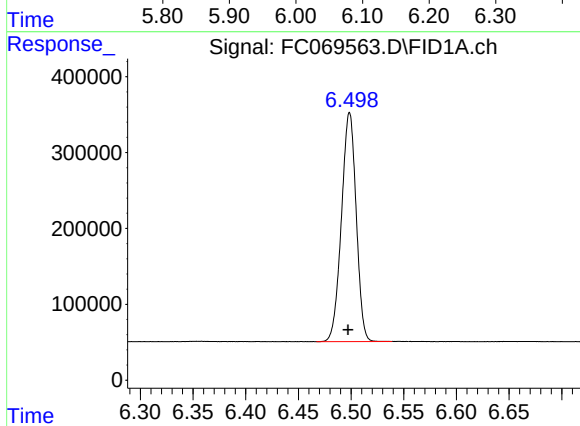
#2 n-Decane (C10)

R.T.: 4.473 min
Delta R.T.: 0.000 min
Response: 2929618
Conc: 20.15 ug/ml



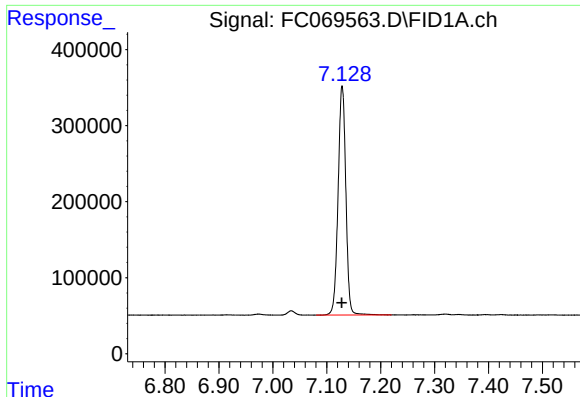
#3 A~Naphthalene (C11.7)

R.T.: 6.069 min
Delta R.T.: 0.000 min
Response: 3158669
Conc: 20.36 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.498 min
Delta R.T.: 0.001 min
Response: 2937597
Conc: 20.10 ug/ml



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

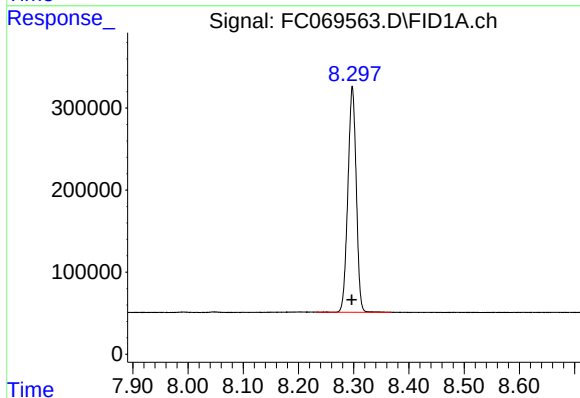
R.T.: 7.129 min
Delta R.T.: 0.000 min
Response: 3013832
Conc: 20.46 ug/ml

Instrument :

FID_C

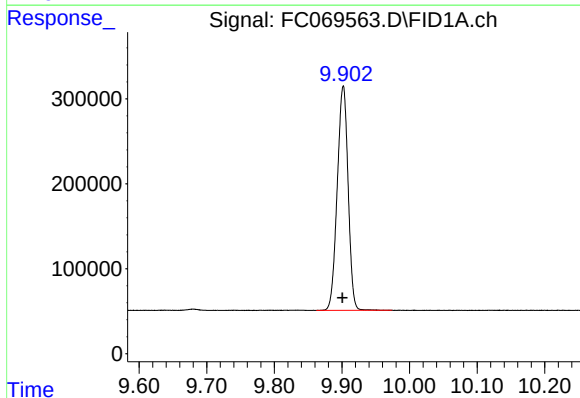
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



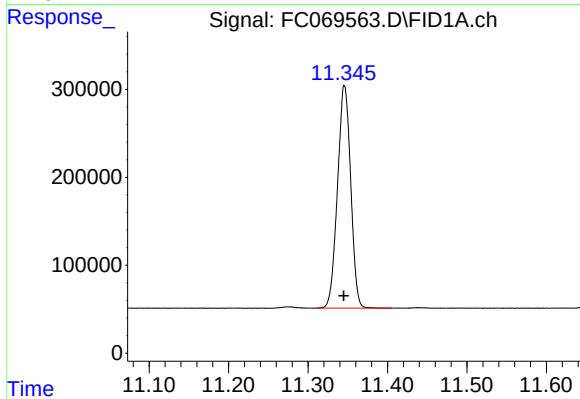
#6 n-Tetradecane (C14)

R.T.: 8.298 min
Delta R.T.: 0.001 min
Response: 2888977
Conc: 20.24 ug/ml



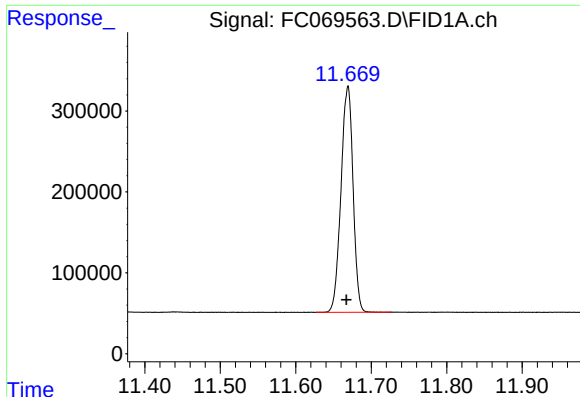
#7 n-Hexadecane (C16)

R.T.: 9.902 min
Delta R.T.: 0.000 min
Response: 2948651
Conc: 20.45 ug/ml



#8 n-Octadecane (C18)

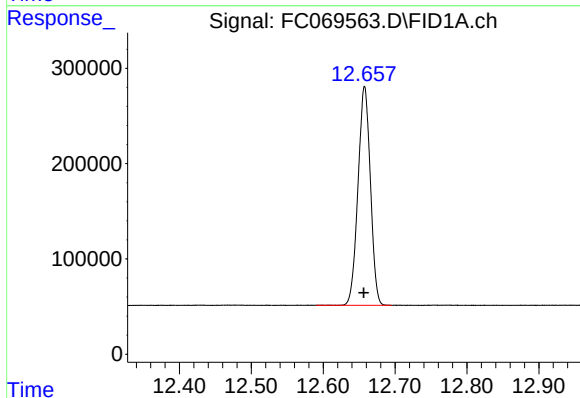
R.T.: 11.346 min
Delta R.T.: 0.001 min
Response: 2922239
Conc: 20.66 ug/ml



#9 ortho-Terphenyl (SURR)

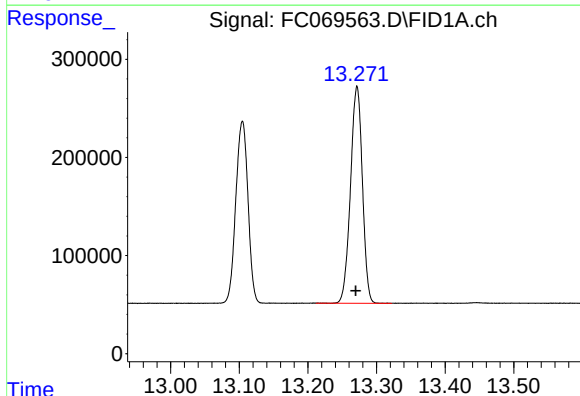
R.T.: 11.669 min
Delta R.T.: 0.002 min
Response: 3105191
Conc: 20.81 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



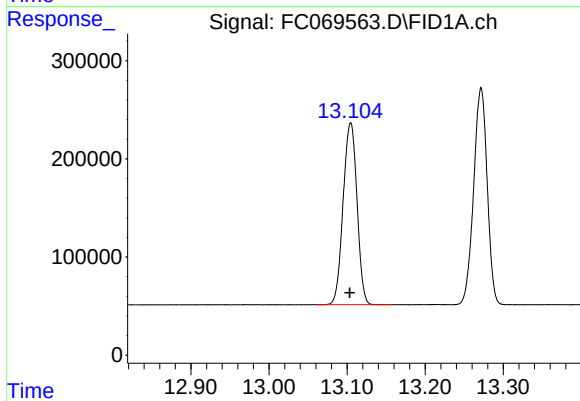
#10 n-Eicosane (C20)

R.T.: 12.658 min
Delta R.T.: 0.001 min
Response: 2742899
Conc: 20.82 ug/ml



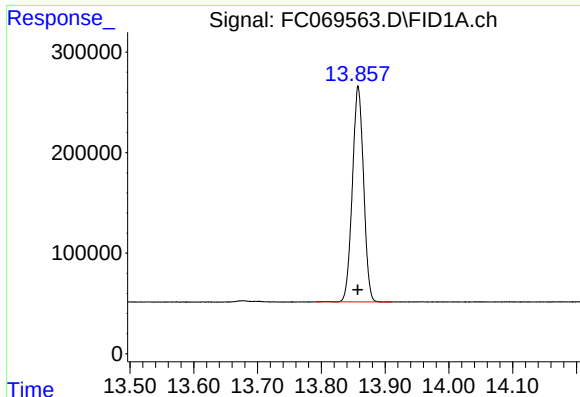
#11 n-Heneicosane (C21)

R.T.: 13.271 min
Delta R.T.: 0.002 min
Response: 2664174
Conc: 20.89 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.104 min
Delta R.T.: 0.000 min
Response: 2286929
Conc: 20.98 ug/ml



#13 n-Docosane (C22)

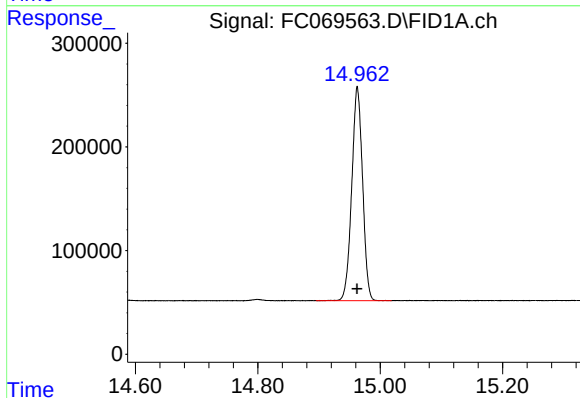
R.T.: 13.858 min
Delta R.T.: 0.000 min
Response: 2615907
Conc: 20.94 ug/ml

Instrument :

FID_C

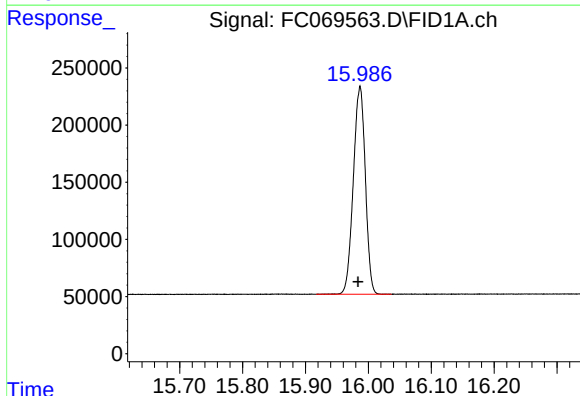
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



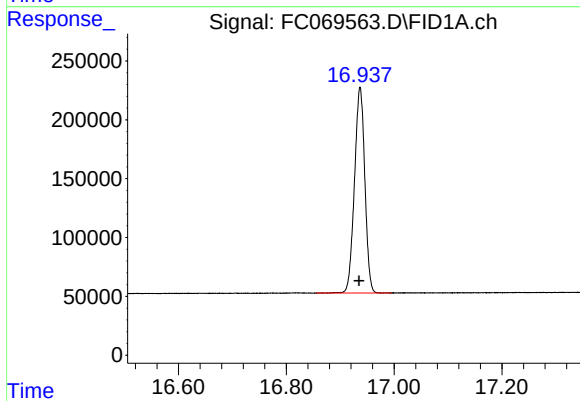
#14 n-Tetracosane (C24)

R.T.: 14.963 min
Delta R.T.: 0.000 min
Response: 2528973
Conc: 20.96 ug/ml



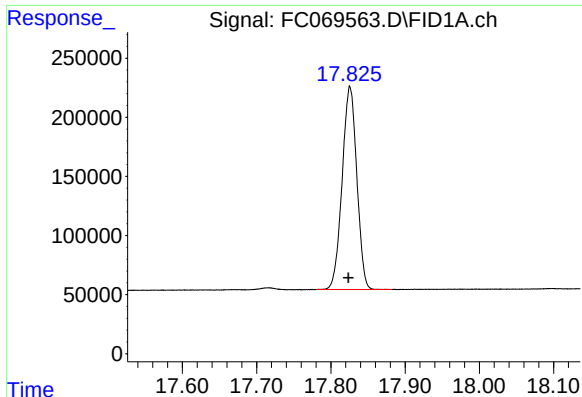
#15 n-Hexacosane (C26)

R.T.: 15.987 min
Delta R.T.: 0.003 min
Response: 2413151
Conc: 20.88 ug/ml



#16 n-Octacosane (C28)

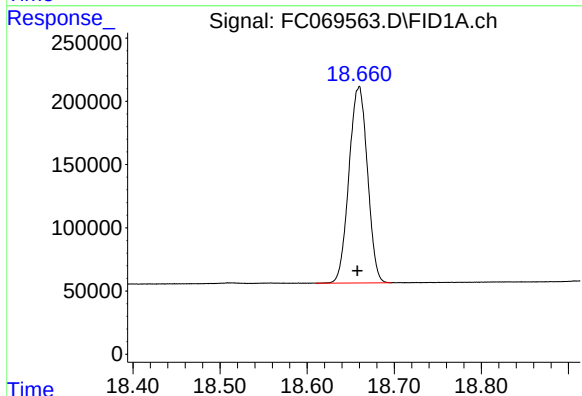
R.T.: 16.937 min
Delta R.T.: 0.002 min
Response: 2329648
Conc: 20.78 ug/ml



#17 n-Tricontane (C30)

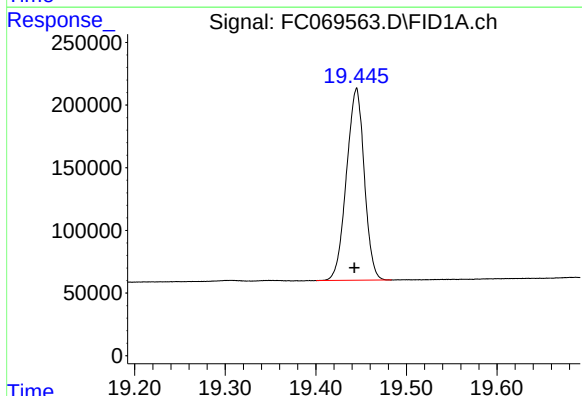
R.T.: 17.826 min
Delta R.T.: 0.002 min
Response: 2357945
Conc: 20.59 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



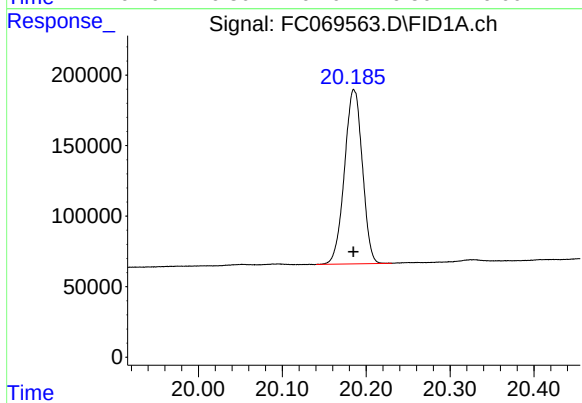
#18 n-Dotriacontane (C32)

R.T.: 18.659 min
Delta R.T.: 0.002 min
Response: 2285649
Conc: 20.58 ug/ml



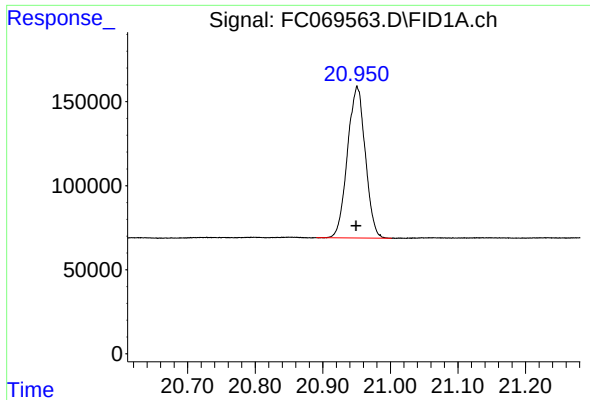
#19 n-Tetratriacontane (C34)

R.T.: 19.445 min
Delta R.T.: 0.002 min
Response: 2091381
Conc: 20.54 ug/ml



#20 n-Hexatriacontane (C36)

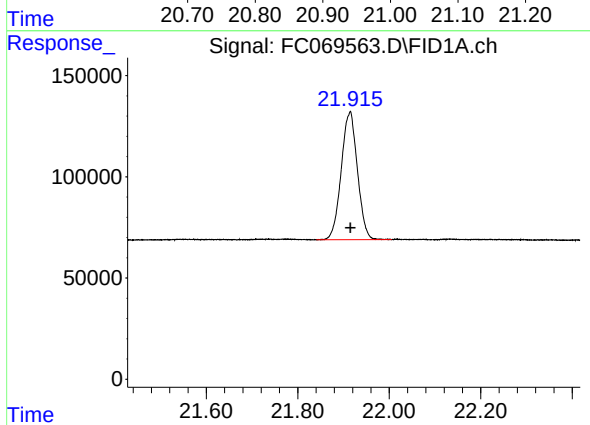
R.T.: 20.186 min
Delta R.T.: 0.000 min
Response: 1824700
Conc: 20.46 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.951 min
Delta R.T.: 0.002 min
Response: 1652539
Conc: 20.54 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.914 min
Delta R.T.: -0.001 min
Response: 1550924
Conc: 20.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC080125AL\
Data File : FC069563.D
Signal(s) : FID1A.ch
Acq On : 01 Aug 2025 14:28
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 080125.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	3.400	3.365	3.450	BB	345533	2855286	90.40%	5.089%
2	4.473	4.442	4.520	BB	329590	2929618	92.75%	5.222%
3	6.069	6.030	6.144	BB	341017	3158669	100.00%	5.630%
4	6.498	6.467	6.539	BB	302521	2937597	93.00%	5.236%
5	7.129	7.080	7.220	BB	301277	3013832	95.41%	5.372%
6	8.298	8.232	8.369	BB	275150	2888977	91.46%	5.149%
7	9.902	9.862	9.974	BB	264575	2948651	93.35%	5.256%
8	11.346	11.310	11.405	BB	253768	2922239	92.51%	5.209%
9	11.669	11.627	11.727	BB	278698	3105191	98.31%	5.535%
10	12.658	12.590	12.695	BB	229882	2742899	86.84%	4.889%
11	13.104	13.060	13.157	BB	186071	2286929	72.40%	4.076%
12	13.271	13.212	13.322	BB	221820	2664174	84.34%	4.749%
13	13.858	13.792	13.910	BB	213600	2615907	82.82%	4.663%
14	14.963	14.895	15.019	BB	204760	2528973	80.06%	4.508%
15	15.987	15.917	16.037	BB	182485	2413151	76.40%	4.301%
16	16.937	16.855	16.995	BB	174956	2329648	73.75%	4.152%
17	17.826	17.780	17.882	BB	172096	2357945	74.65%	4.203%
18	18.659	18.610	18.697	BB	154350	2285649	72.36%	4.074%
19	19.445	19.400	19.484	BB	153912	2091381	66.21%	3.728%
20	20.186	20.140	20.230	BV	123578	1824700	57.77%	3.252%
21	20.951	20.890	21.002	BB	90222	1652539	52.32%	2.945%
22	21.914	21.840	22.005	BB	63034	1550924	49.10%	2.764%
Sum of corrected areas:						56104876		

Aliphatic EPH 080125.M Fri Aug 01 15:12:08 2025

Initial Calibration Report for SequenceID : FD081125AR

AreaCount

Parameter Range	FD049605.D	FD049606.D	FD049607.D	FD049608.D	FD049609.D	
Aromatic C10-C12	21248208.000	10706275.000	4323481.000	2259486.000	1053332.000	
Aromatic C12-C16	36818737.000	18573883.000	7415425.000	3854530.000	1789065.000	
Aromatic C16-C21	50607212.000	25605422.000	10134035.000	5257097.000	2395676.000	
Aromatic C21-C36	99935947.000	50494933.000	20336032.000	10453913.000	4981852.000	
Aromatic EPH	208610104.000	105380513.000	42208973.000	21825026.000	10219925.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	107939.663	2.772				
Aromatic C12-C16	123580.1519996	2.666				
Aromatic C16-C21	126486.3605	3.348				
Aromatic C21-C36	112618.2539996	1.932				
Aromatic EPH	117007.1949996	2.388				

Concentration

Parameter Range	FD049605.D	FD049606.D	FD049607.D	FD049608.D	FD049609.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	FD049605.D	FD049606.D	FD049607.D	FD049608.D	FD049609.D	
Aromatic C10-C12	106241.040000	107062.750000	108087.025000	112974.300000	105333.200000	
Aromatic C12-C16	122729.123333	123825.886666	123590.416666	128484.333333	119271.000000	
Aromatic C16-C21	126518.030000	128027.110000	126675.437500	131427.425000	119783.800000	
Aromatic C21-C36	111039.941111	112210.962222	112977.955555	116154.588888	110707.822222	
Aromatic EPH	115894.502222	117089.458888	117247.147222	121250.144444	113554.722222	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049605.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 10:39
 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: Aug 11 12:30:37 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 12:28:11 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...	7.718	10200327	99.624 ug/ml
Spiked Amount 50.000		Recovery =	199.25%
6) S 2-Fluorobiphenyl (SURR)	8.585	7342726	100.298 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	200.60%#
11) S ortho-Terphenyl (SURR)	11.633	12735425	99.064 ug/ml
Spiked Amount 50.000		Recovery =	198.13%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.507	9872310	98.594 ug/ml
2) T Naphthalene (C11.7)	6.053	11375898	99.617 ug/ml
3) T 2-Methylnaphthalene (...)	7.110	11900671	99.814 ug/ml
5) T Acenaphthylene (C15.06)	8.390	12459323	99.536 ug/ml
7) T Acenaphthene (C15.5)	8.688	12458743	99.608 ug/ml
8) T Flouorene (C16.55)	9.470	12598476	99.741 ug/ml
9) T Phenanthrene (C19.36)	10.869	12906091	100.034 ug/ml
10) T Anthracene (C19.43)	10.946	12367340	100.028 ug/ml
12) T Fluoranthene (C21.85)	12.686	12816378	99.939 ug/ml
13) T Pyrene (C20.8)	12.985	12735305	99.947 ug/ml
14) T Benzo[a]anthracene (C...	14.856	11649435	100.300 ug/ml
15) T Chrysene (C27.41)	14.904	11783614	100.111 ug/ml
16) T benzo[b]fluoranthene ...	16.408	11290529	99.519 ug/ml
17) T Bnezo[k]fluoranthene ...	16.448	10514497	99.479 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.792	10929465	99.023 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.157	10293944	99.925 ug/ml
20) T Dibenz[a,h]anthracene...	18.198	10048965	96.503 ug/ml
21) T Benzo[g,h,i]perylene ...	18.419	10609120	98.208 ug/ml

(f)=RT Delta > 1/2 Window

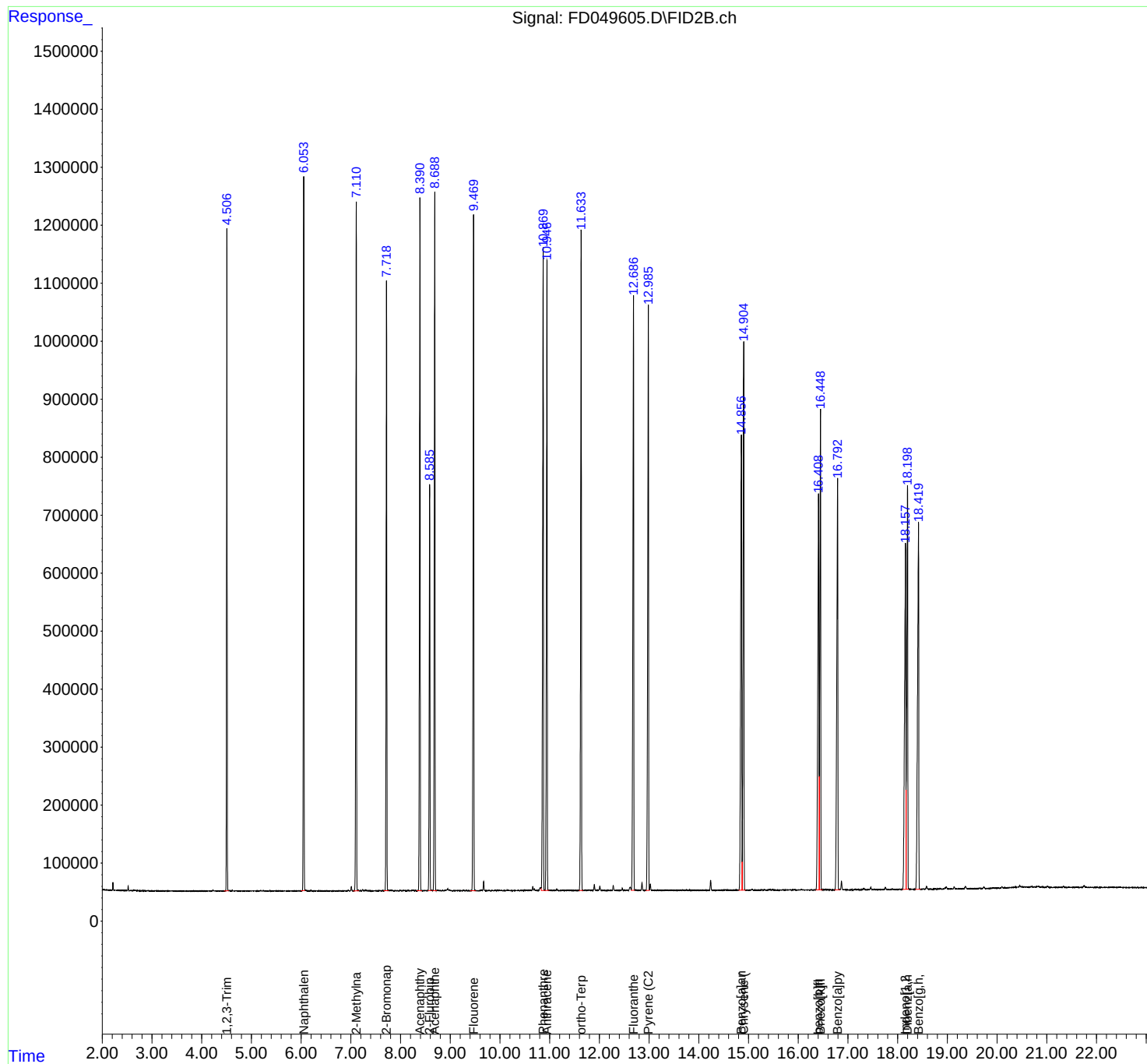
(m)=manual int.

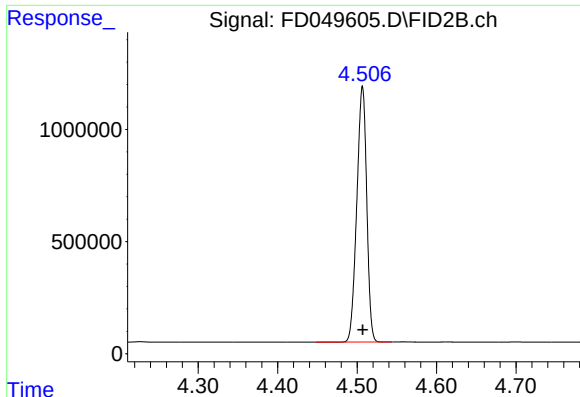
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
Data File : FD049605.D
Signal(s) : FID2B.ch
Acq On : 11 Aug 2025 10:39
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Aug 11 12:30:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 12:28:11 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)

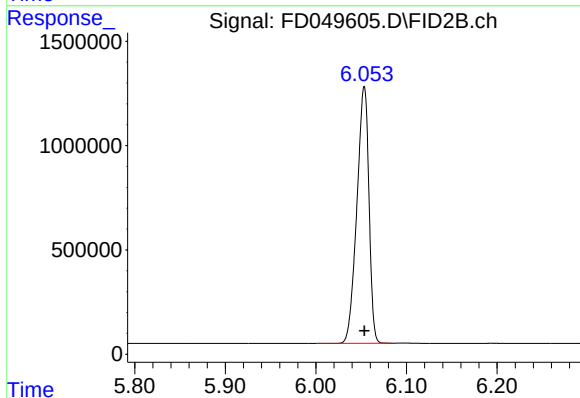
R.T.: 4.507 min
Delta R.T.: 0.000 min
Response: 9872310
Conc: 98.59 ug/ml

Instrument :

FID_D

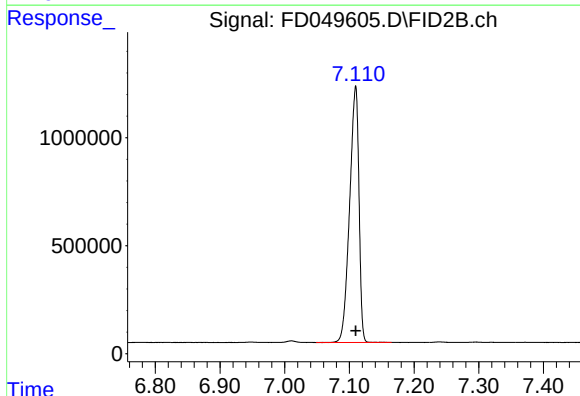
ClientSampleId :

100 PPM AROMATIC HC STD1



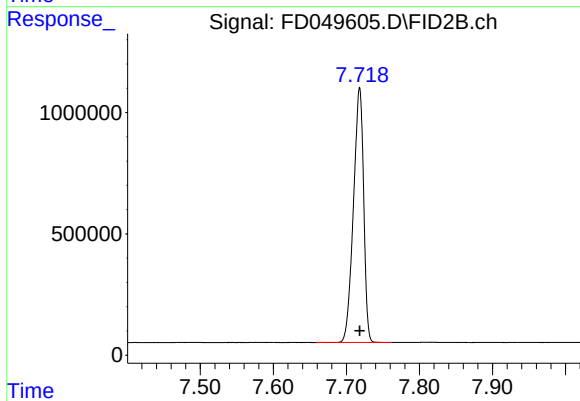
#2 Naphthalene (C11.7)

R.T.: 6.053 min
Delta R.T.: 0.000 min
Response: 11375898
Conc: 99.62 ug/ml



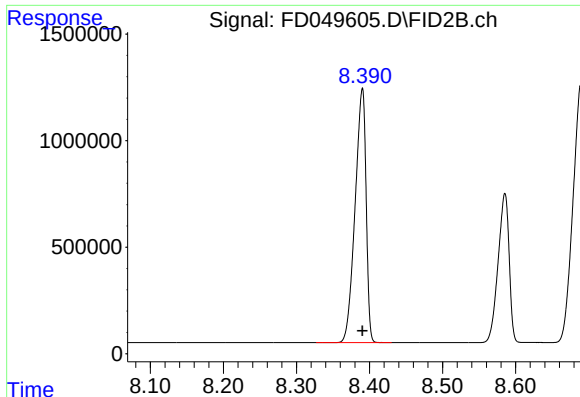
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.110 min
Delta R.T.: 0.000 min
Response: 11900671
Conc: 99.81 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.718 min
Delta R.T.: 0.000 min
Response: 10200327
Conc: 99.62 ug/ml



#5 Acenaphthylene (C15.06)

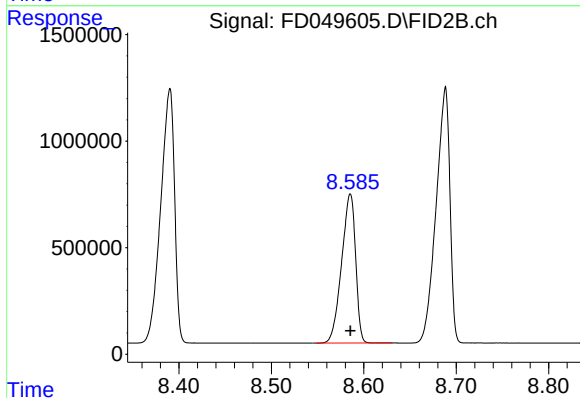
R.T.: 8.390 min
Delta R.T.: 0.000 min
Response: 12459323
Conc: 99.54 ug/ml

Instrument :

FID_D

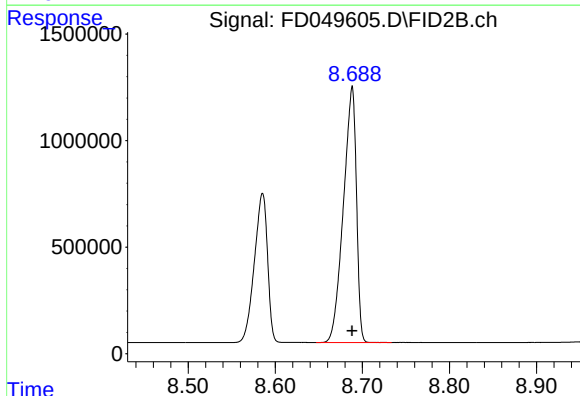
ClientSampleId :

100 PPM AROMATIC HC STD1



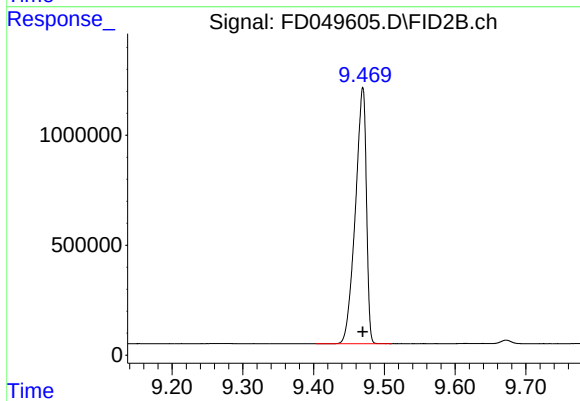
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.585 min
Delta R.T.: 0.000 min
Response: 7342726
Conc: 100.30 ug/ml



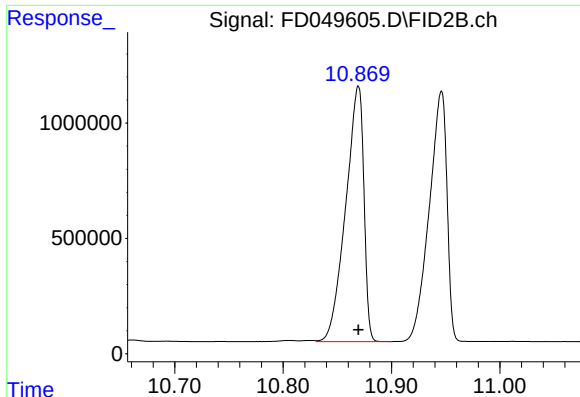
#7 Acenaphthene (C15.5)

R.T.: 8.688 min
Delta R.T.: 0.000 min
Response: 12458743
Conc: 99.61 ug/ml



#8 Fluorene (C16.55)

R.T.: 9.470 min
Delta R.T.: 0.000 min
Response: 12598476
Conc: 99.74 ug/ml



#9 Phenanthrene (C19.36)

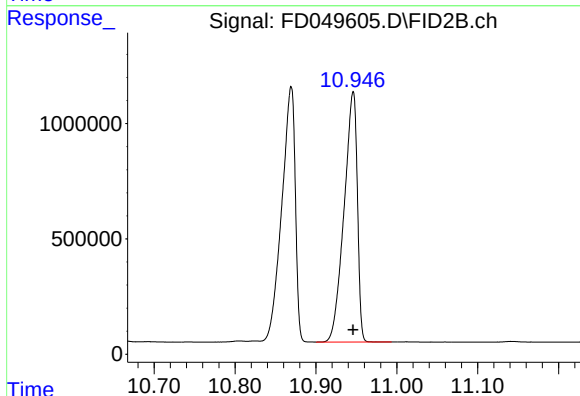
R.T.: 10.869 min
Delta R.T.: 0.000 min
Response: 12906091
Conc: 100.03 ug/ml

Instrument :

FID_D

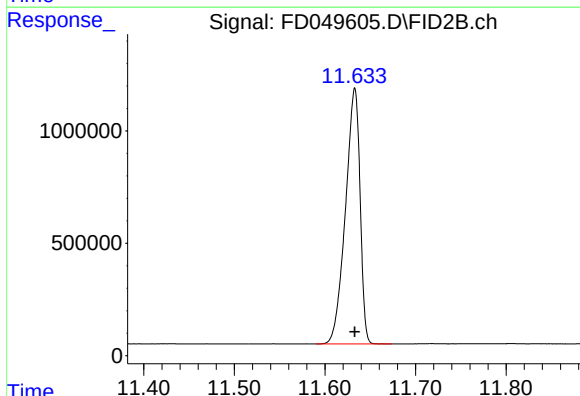
ClientSampleId :

100 PPM AROMATIC HC STD1



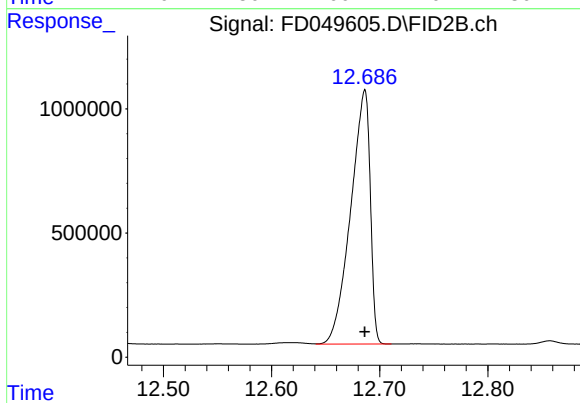
#10 Anthracene (C19.43)

R.T.: 10.946 min
Delta R.T.: 0.000 min
Response: 12367340
Conc: 100.03 ug/ml



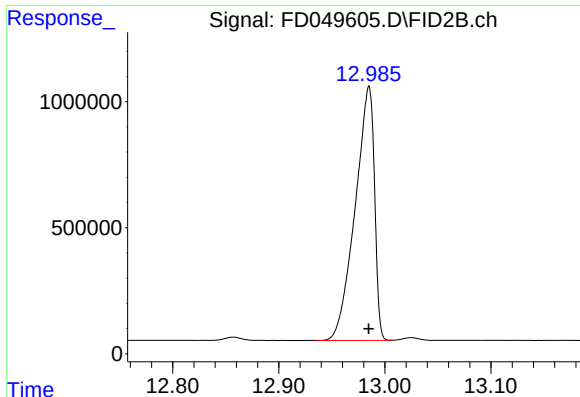
#11 ortho-Terphenyl (SURR)

R.T.: 11.633 min
Delta R.T.: 0.000 min
Response: 12735425
Conc: 99.06 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.686 min
Delta R.T.: 0.000 min
Response: 12816378
Conc: 99.94 ug/ml



#13 Pyrene (C20.8)

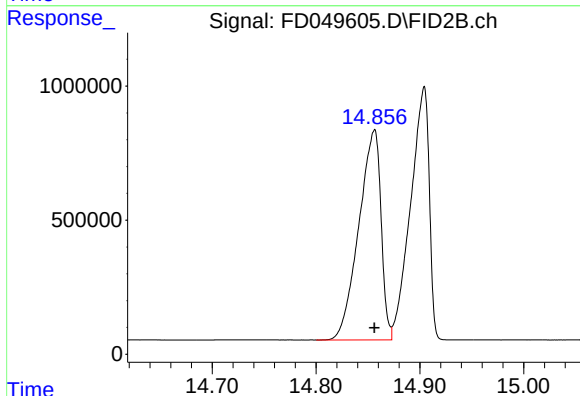
R.T.: 12.985 min
Delta R.T.: 0.000 min
Response: 12735305
Conc: 99.95 ug/ml

Instrument :

FID_D

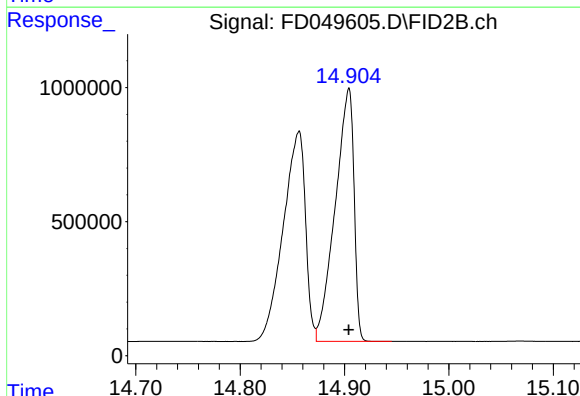
ClientSampleId :

100 PPM AROMATIC HC STD1



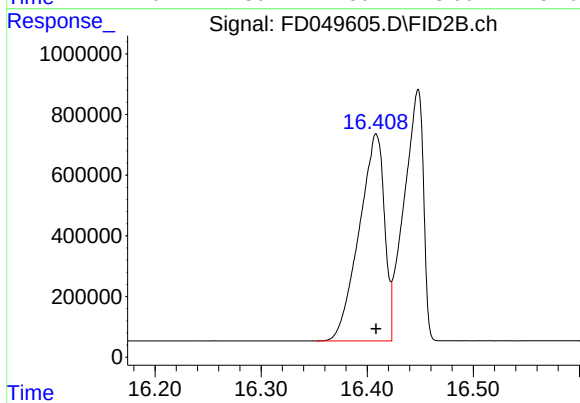
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.856 min
Delta R.T.: 0.000 min
Response: 11649435
Conc: 100.30 ug/ml



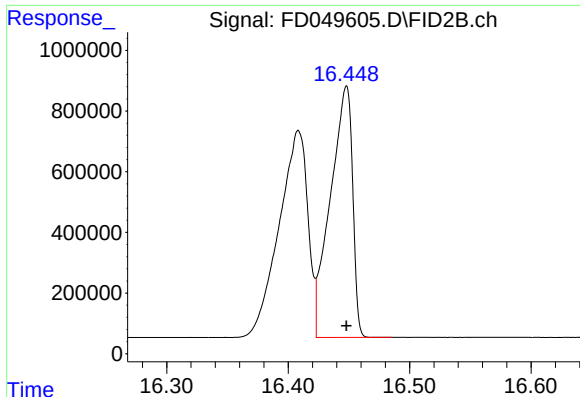
#15 Chrysene (C27.41)

R.T.: 14.904 min
Delta R.T.: 0.000 min
Response: 11783614
Conc: 100.11 ug/ml



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

R.T.: 16.408 min
Delta R.T.: 0.000 min
Response: 11290529
Conc: 99.52 ug/ml



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

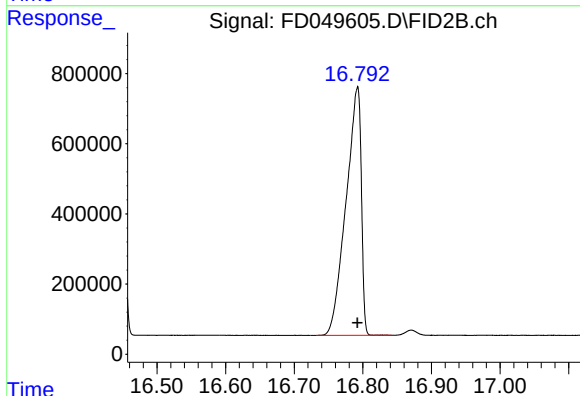
R.T.: 16.448 min
Delta R.T.: 0.000 min
Response: 10514497
Conc: 99.48 ug/ml

Instrument :

FID_D

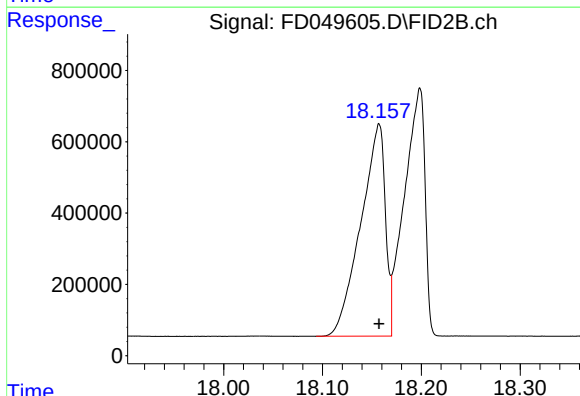
ClientSampleId :

100 PPM AROMATIC HC STD1



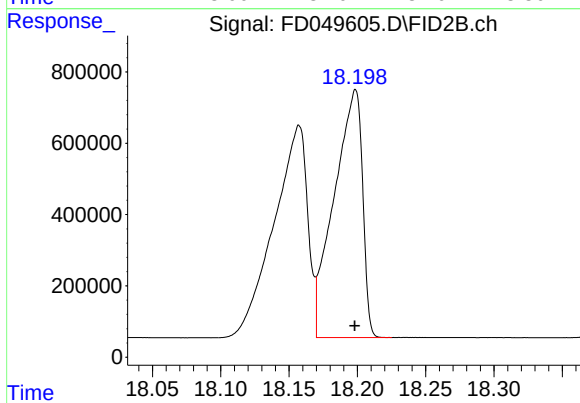
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.792 min
Delta R.T.: 0.000 min
Response: 10929465
Conc: 99.02 ug/ml



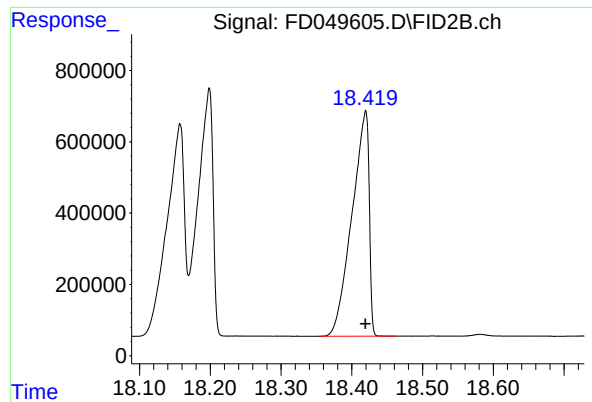
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.157 min
Delta R.T.: 0.000 min
Response: 10293944
Conc: 99.92 ug/ml



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

R.T.: 18.198 min
Delta R.T.: 0.000 min
Response: 10048965
Conc: 96.50 ug/ml



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

R.T.: 18.419 min
Delta R.T.: 0.000 min
Response: 10609120
Conc: 98.21 ug/ml

Instrument :

FID_D

ClientSampleId :

100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049605.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 10:39
 Sample : 100 PPM AROMATIC HC STD1
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.507	4.449	4.544	BB	1141335	9872310	76.49%	4.133%
2	6.053	6.000	6.084	BV	1232326	11375898	88.14%	4.762%
3	7.110	7.049	7.165	BB	1193315	11900671	92.21%	4.982%
4	7.718	7.659	7.762	BB	1052763	10200327	79.03%	4.270%
5	8.390	8.327	8.430	BB	1194531	12459323	96.54%	5.216%
6	8.585	8.549	8.630	BB	700871	7342726	56.89%	3.074%
7	8.688	8.647	8.734	BB	1206036	12458743	96.53%	5.215%
8	9.470	9.404	9.510	BB	1170891	12598476	97.62%	5.274%
9	10.869	10.831	10.900	VV	1112371	12906091	100.00%	5.403%
10	10.946	10.900	10.994	PB	1091936	12367340	95.83%	5.177%
11	11.633	11.590	11.674	BB	1140991	12735425	98.68%	5.331%
12	12.686	12.641	12.711	VV	1029175	12816378	99.30%	5.365%
13	12.985	12.935	13.006	BV	1011040	12735305	98.68%	5.331%
14	14.856	14.800	14.873	BV	787772	11649435	90.26%	4.877%
15	14.904	14.873	14.945	VB	941380	11783614	91.30%	4.933%
16	16.408	16.352	16.423	BV	682171	11290529	87.48%	4.726%
17	16.448	16.423	16.485	VB	832070	10514497	81.47%	4.401%
18	16.792	16.732	16.842	BB	705881	10929465	84.68%	4.575%
19	18.157	18.094	18.170	BV	596663	10293944	79.76%	4.309%
20	18.198	18.170	18.225	VB	697209	10048965	77.86%	4.207%
21	18.419	18.355	18.462	BB	635357	10609120	82.20%	4.441%
Sum of corrected areas:						238888581		

Aromatic EPH 081125.M Mon Aug 11 14:16:27 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049606.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 11:22
 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: Aug 11 12:32:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 12:28:11 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...	7.716	5149719	50.197 ug/ml
Spiked Amount 50.000		Recovery =	100.39%
6) S 2-Fluorobiphenyl (SURR)	8.582	3690104	50.269 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	100.54%
11) S ortho-Terphenyl (SURR)	11.628	6490866	50.325 ug/ml
Spiked Amount 50.000		Recovery =	100.65%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.508	4987840	49.875 ug/ml
2) T Naphthalene (C11.7)	6.052	5718435	50.050 ug/ml
3) T 2-Methylnaphthalene (...)	7.107	5978513	50.096 ug/ml
5) T Acenaphthylene (C15.06)	8.386	6294153	50.189 ug/ml
7) T Acenaphthene (C15.5)	8.683	6301217	50.252 ug/ml
8) T Flouorene (C16.55)	9.464	6371712	50.295 ug/ml
9) T Phenanthrene (C19.36)	10.863	6554001	50.530 ug/ml
10) T Anthracene (C19.43)	10.938	6232974	50.275 ug/ml
12) T Fluoranthene (C21.85)	12.678	6495094	50.429 ug/ml
13) T Pyrene (C20.8)	12.976	6446735	50.395 ug/ml
14) T Benzo[a]anthracene (C...	14.848	5855556	50.276 ug/ml
15) T Chrysene (C27.41)	14.892	5929995	50.253 ug/ml
16) T benzo[b]fluoranthene ...	16.398	5664067	49.950 ug/ml
17) T Bnezo[k]fluoranthene ...	16.434	5334431	50.109 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.780	5508103	49.936 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.144	5093146	49.625 ug/ml
20) T Dibenz[a,h]anthracene...	18.184	5242339	50.022 ug/ml
21) T Benzo[g,h,i]perylene ...	18.403	5372202	49.820 ug/ml

(f)=RT Delta > 1/2 Window

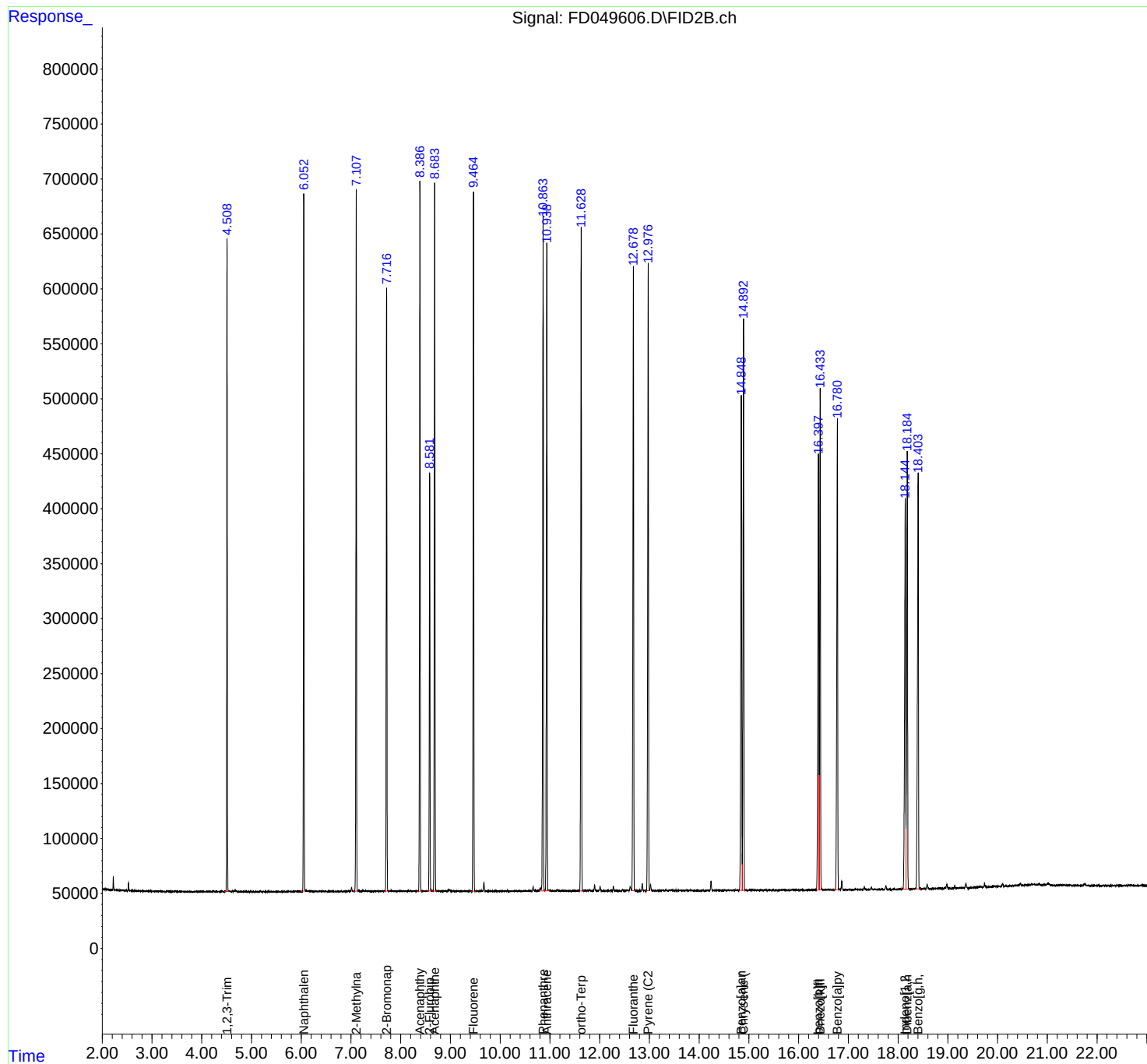
(m)=manual int.

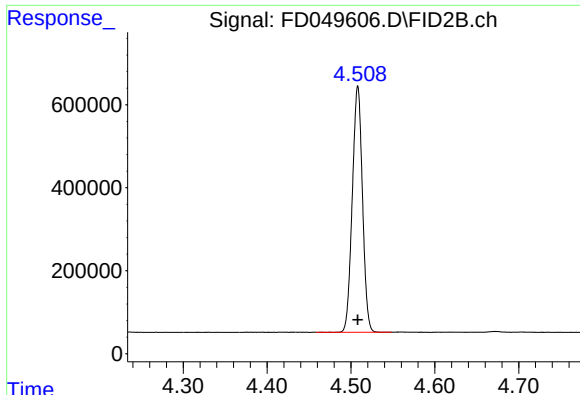
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
Data File : FD049606.D
Signal(s) : FID2B.ch
Acq On : 11 Aug 2025 11:22
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Aug 11 12:32:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 12:28:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

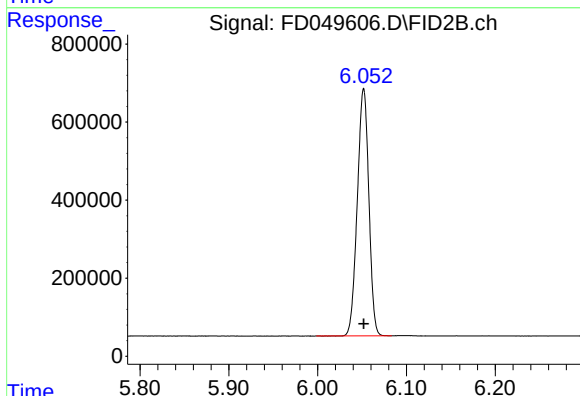




#1 1,2,3-Trimethylbenzene (C10.1)

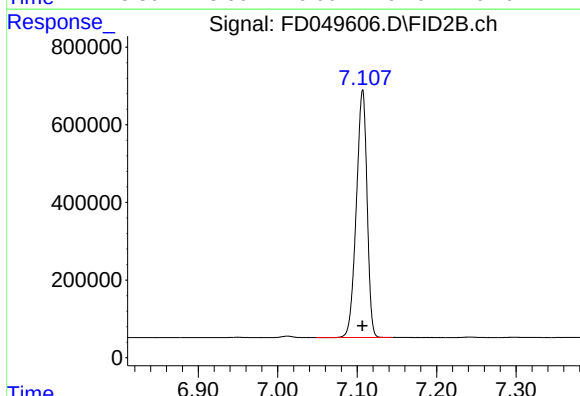
R.T.: 4.508 min
Delta R.T.: 0.000 min
Response: 4987840
Conc: 49.88 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



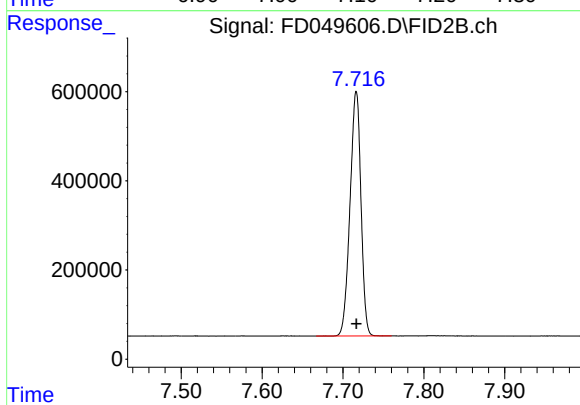
#2 Naphthalene (C11.7)

R.T.: 6.052 min
Delta R.T.: 0.000 min
Response: 5718435
Conc: 50.05 ug/ml



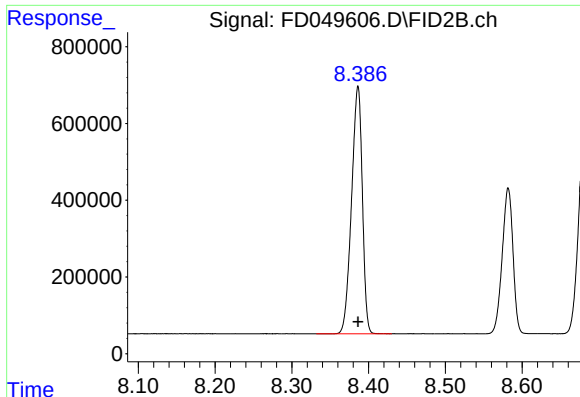
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.107 min
Delta R.T.: 0.000 min
Response: 5978513
Conc: 50.10 ug/ml



#4 2-Bromonaphthalene (SURR)

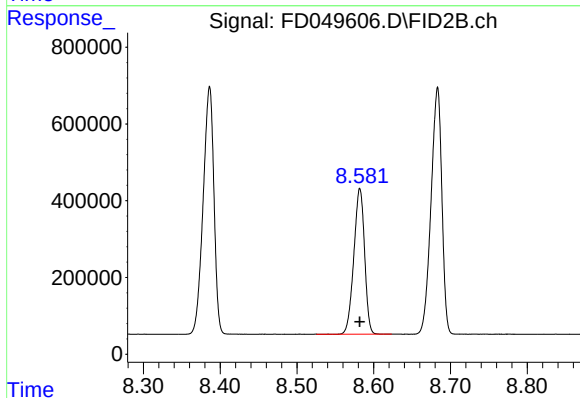
R.T.: 7.716 min
Delta R.T.: 0.000 min
Response: 5149719
Conc: 50.20 ug/ml



#5 Acenaphthylene (C15.06)

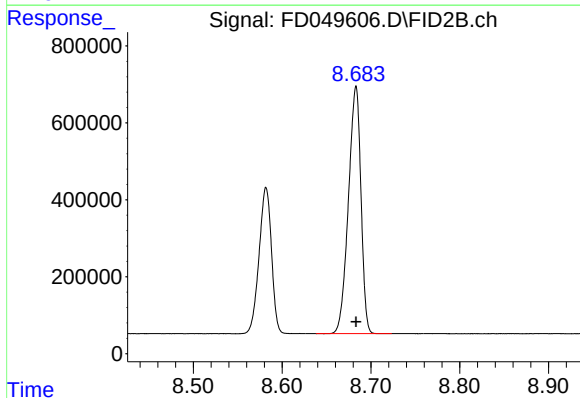
R.T.: 8.386 min
Delta R.T.: 0.000 min
Response: 6294153
Conc: 50.19 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



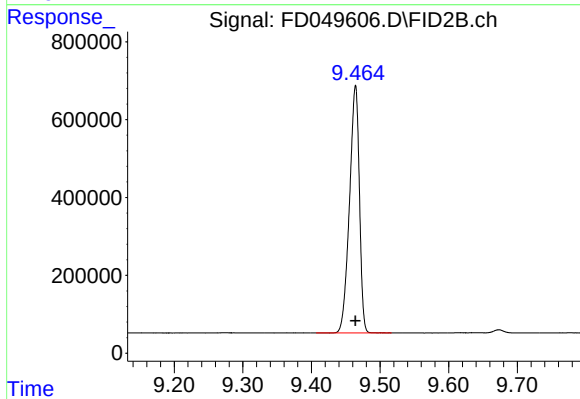
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.582 min
Delta R.T.: 0.000 min
Response: 3690104
Conc: 50.27 ug/ml



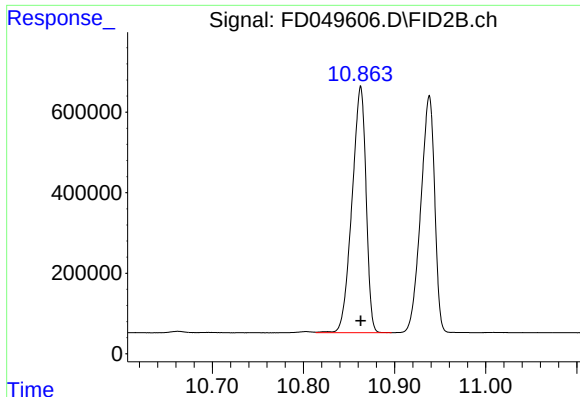
#7 Acenaphthene (C15.5)

R.T.: 8.683 min
Delta R.T.: 0.000 min
Response: 6301217
Conc: 50.25 ug/ml



#8 Flouorene (C16.55)

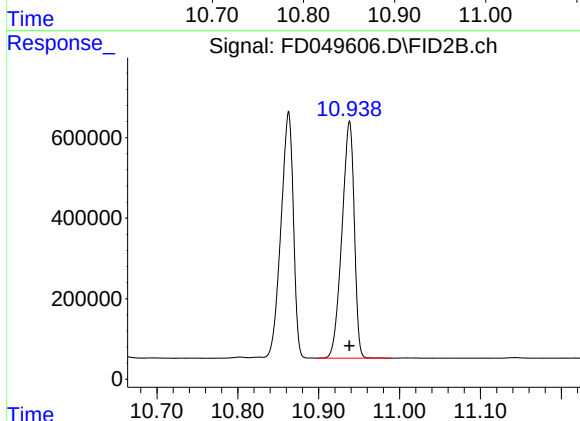
R.T.: 9.464 min
Delta R.T.: 0.000 min
Response: 6371712
Conc: 50.30 ug/ml



#9 Phenanthrene (C19.36)

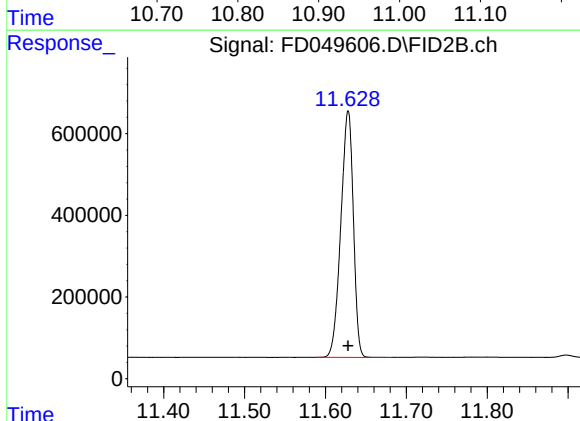
R.T.: 10.863 min
Delta R.T.: 0.000 min
Response: 6554001
Conc: 50.53 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



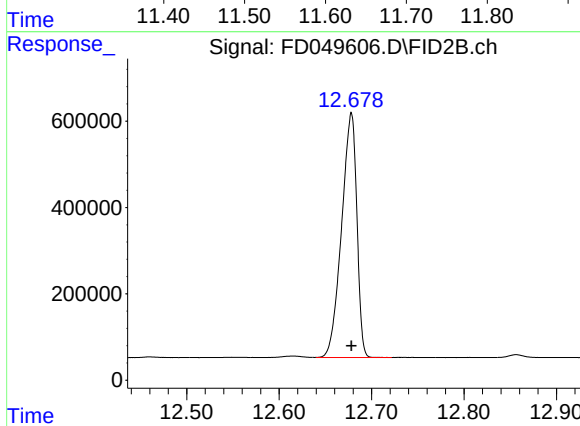
#10 Anthracene (C19.43)

R.T.: 10.938 min
Delta R.T.: 0.000 min
Response: 6232974
Conc: 50.27 ug/ml



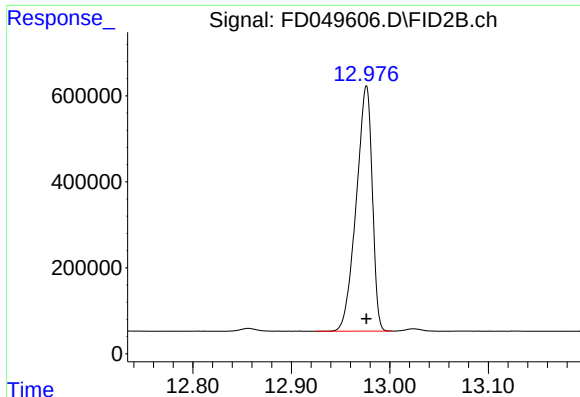
#11 ortho-Terphenyl (SURR)

R.T.: 11.628 min
Delta R.T.: 0.000 min
Response: 6490866
Conc: 50.33 ug/ml



#12 Fluoranthene (C21.85)

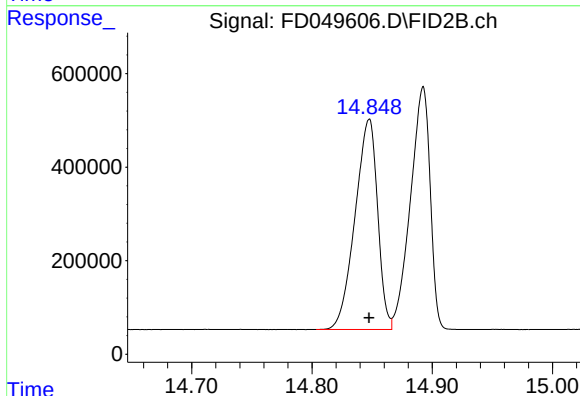
R.T.: 12.678 min
Delta R.T.: 0.000 min
Response: 6495094
Conc: 50.43 ug/ml



#13 Pyrene (C20.8)

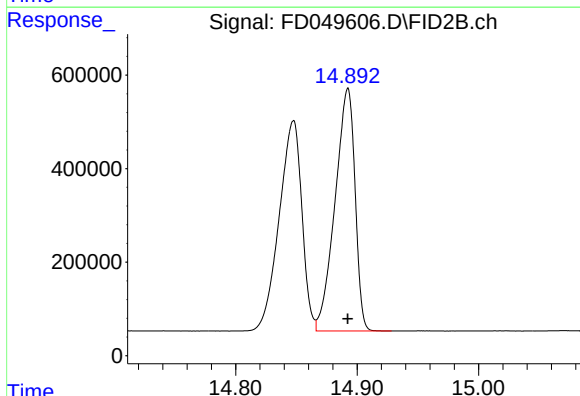
R.T.: 12.976 min
Delta R.T.: 0.000 min
Response: 6446735
Conc: 50.39 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



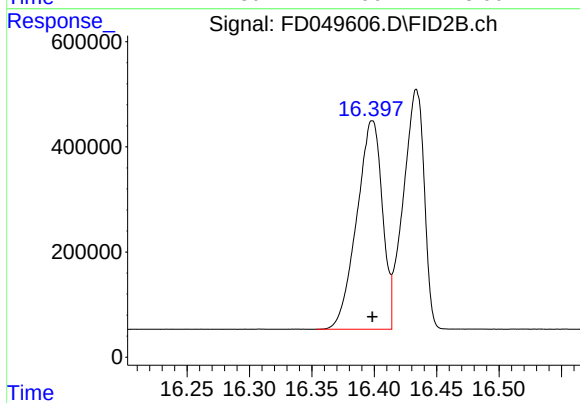
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.848 min
Delta R.T.: 0.000 min
Response: 5855556
Conc: 50.28 ug/ml



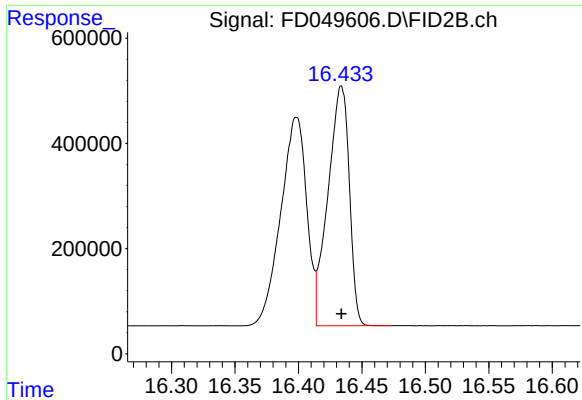
#15 Chrysene (C27.41)

R.T.: 14.892 min
Delta R.T.: 0.000 min
Response: 5929995
Conc: 50.25 ug/ml



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

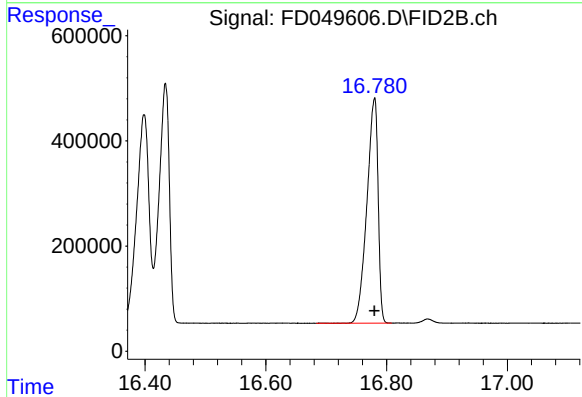
R.T.: 16.398 min
Delta R.T.: 0.000 min
Response: 5664067
Conc: 49.95 ug/ml



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

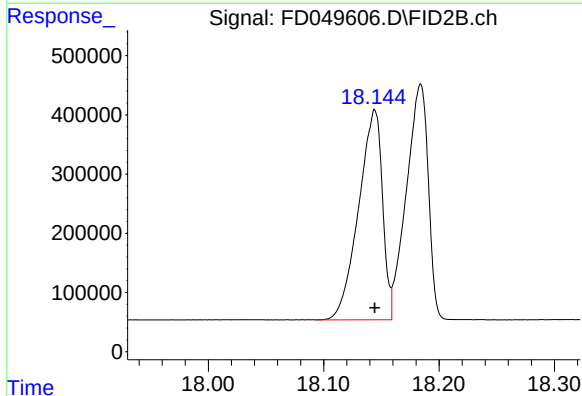
R.T.: 16.434 min
Delta R.T.: 0.000 min
Response: 5334431
Conc: 50.11 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



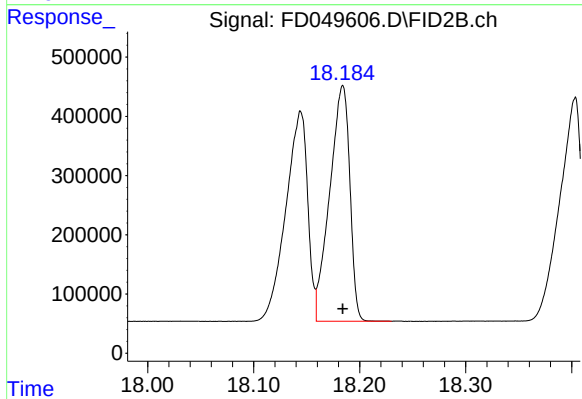
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.780 min
Delta R.T.: 0.000 min
Response: 5508103
Conc: 49.94 ug/ml



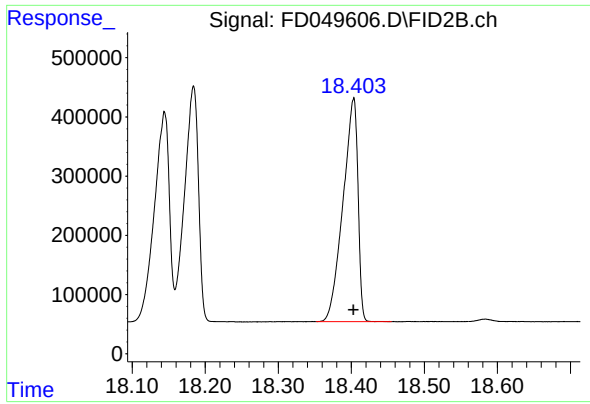
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.144 min
Delta R.T.: 0.000 min
Response: 5093146
Conc: 49.63 ug/ml



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

R.T.: 18.184 min
Delta R.T.: 0.000 min
Response: 5242339
Conc: 50.02 ug/ml



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

R.T.: 18.403 min
Delta R.T.: 0.000 min
Response: 5372202
Conc: 49.82 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049606.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 11:22
 Sample : 50 PPM AROMATIC HC STD2
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.508	4.458	4.548	BB	594060	4987840	76.10%	4.132%
2	6.052	5.998	6.083	BV	633679	5718435	87.25%	4.737%
3	7.107	7.048	7.143	BB	638187	5978513	91.22%	4.953%
4	7.717	7.667	7.760	BB	548709	5149719	78.57%	4.266%
5	8.386	8.332	8.430	BB	646941	6294153	96.04%	5.214%
6	8.582	8.525	8.623	BB	380406	3690104	56.30%	3.057%
7	8.683	8.638	8.723	BB	644877	6301217	96.14%	5.220%
8	9.464	9.407	9.517	BB	634560	6371712	97.22%	5.278%
9	10.863	10.814	10.897	VV	613072	6554001	100.00%	5.429%
10	10.938	10.897	10.990	VB	589694	6232974	95.10%	5.164%
11	11.628	11.588	11.682	BB	604101	6490866	99.04%	5.377%
12	12.678	12.640	12.722	VB	567673	6495094	99.10%	5.381%
13	12.976	12.925	13.002	BV	572311	6446735	98.36%	5.341%
14	14.848	14.803	14.866	BV	449499	5855556	89.34%	4.851%
15	14.892	14.866	14.928	VB	517700	5929995	90.48%	4.913%
16	16.398	16.353	16.414	BV	396670	5664067	86.42%	4.692%
17	16.434	16.414	16.473	VB	456635	5334431	81.39%	4.419%
18	16.780	16.683	16.808	BB	428347	5508103	84.04%	4.563%
19	18.144	18.093	18.159	BV	353390	5093146	77.71%	4.219%
20	18.184	18.159	18.230	VB	398025	5242339	79.99%	4.343%
21	18.403	18.352	18.455	BB	378020	5372202	81.97%	4.450%
Sum of corrected areas:						120711201		

Aromatic EPH 081125.M Mon Aug 11 14:16:59 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049607.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 12:06
 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: Aug 11 12:28:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 12:28:11 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...	7.715	2055465	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
6) S 2-Fluorobiphenyl (SURR)	8.579	1459830	20.000 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	40.00%
11) S ortho-Terphenyl (SURR)	11.625	2595234	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.508	2030793	20.000 ug/ml
2) T Naphthalene (C11.7)	6.051	2292688	20.000 ug/ml
3) T 2-Methylnaphthalene (...)	7.105	2388988	20.000 ug/ml
5) T Acenaphthylene (C15.06)	8.383	2515082	20.000 ug/ml
7) T Acenaphthene (C15.5)	8.679	2511355	20.000 ug/ml
8) T Flouorene (C16.55)	9.460	2532761	20.000 ug/ml
9) T Phenanthrene (C19.36)	10.858	2579454	20.000 ug/ml
10) T Anthracene (C19.43)	10.933	2472061	20.000 ug/ml
12) T Fluoranthene (C21.85)	12.672	2566419	20.000 ug/ml
13) T Pyrene (C20.8)	12.969	2549759	20.000 ug/ml
14) T Benzo[a]anthracene (C...	14.840	2315935	20.000 ug/ml
15) T Chrysene (C27.41)	14.883	2351504	20.000 ug/ml
16) T benzo[b]fluoranthene ...	16.391	2279925	20.000 ug/ml
17) T Bnezo[k]fluoranthene ...	16.424	2150720	20.000 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.770	2229041	20.000 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.134	2061894	20.000 ug/ml
20) T Dibenz[a,h]anthracene...	18.174	2181315	20.000 ug/ml
21) T Benzo[g,h,i]perylene ...	18.389	2199279	20.000 ug/ml

(f)=RT Delta > 1/2 Window

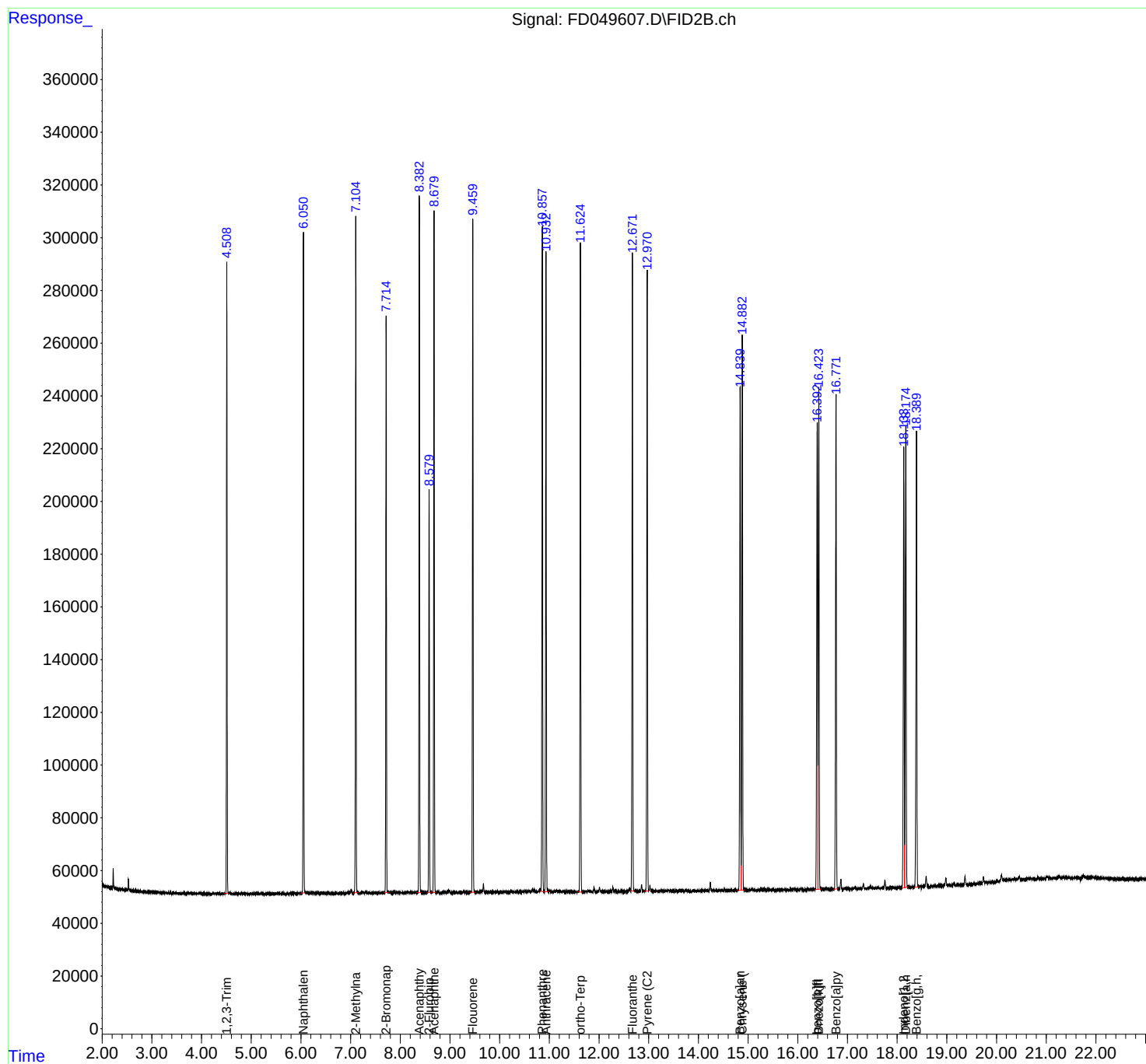
(m)=manual int.

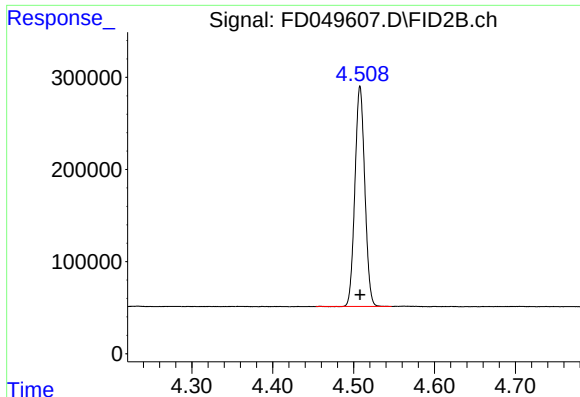
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
Data File : FD049607.D
Signal(s) : FID2B.ch
Acq On : 11 Aug 2025 12:06
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Aug 11 12:28:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 12:28:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

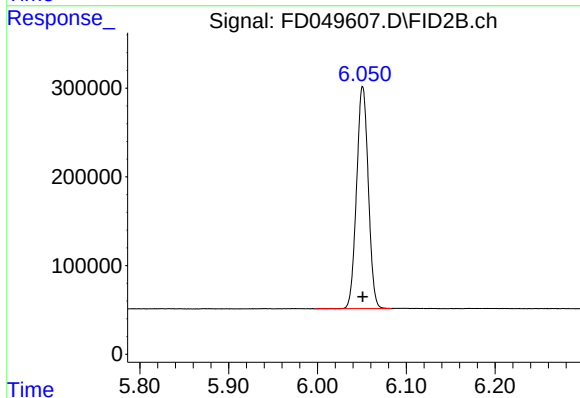




#1 1,2,3-Trimethylbenzene (C10.1)

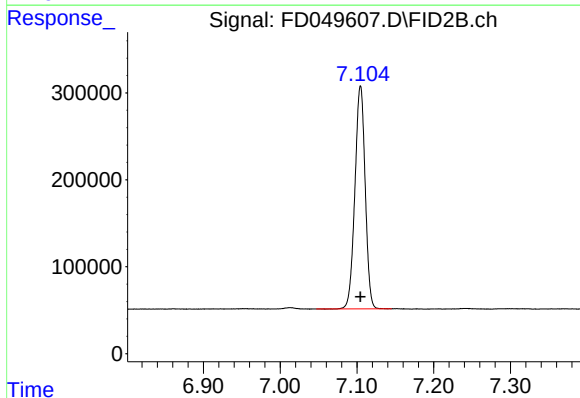
R.T.: 4.508 min
Delta R.T.: 0.000 min
Response: 2030793
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



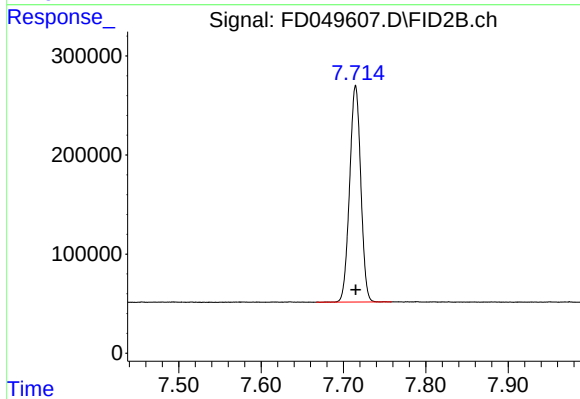
#2 Naphthalene (C11.7)

R.T.: 6.051 min
Delta R.T.: 0.000 min
Response: 2292688
Conc: 20.00 ug/ml



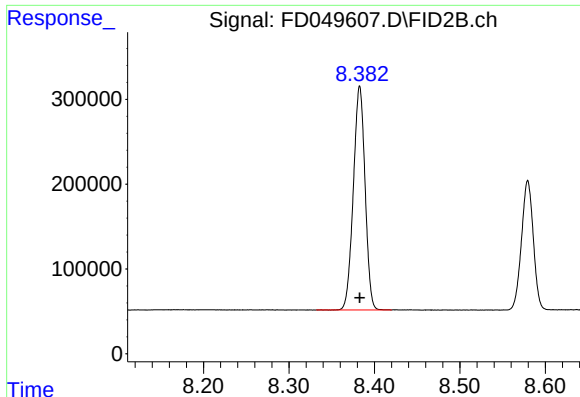
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.105 min
Delta R.T.: 0.000 min
Response: 2388988
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

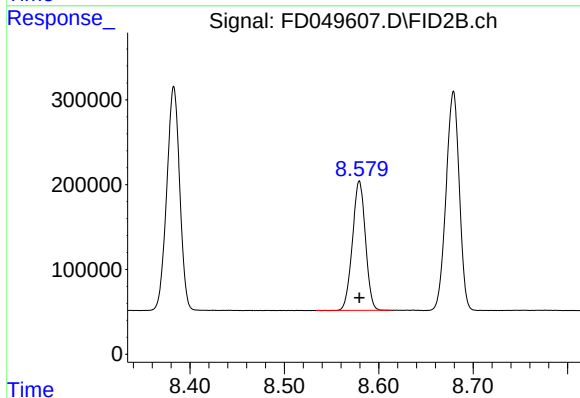
R.T.: 7.715 min
Delta R.T.: 0.000 min
Response: 2055465
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

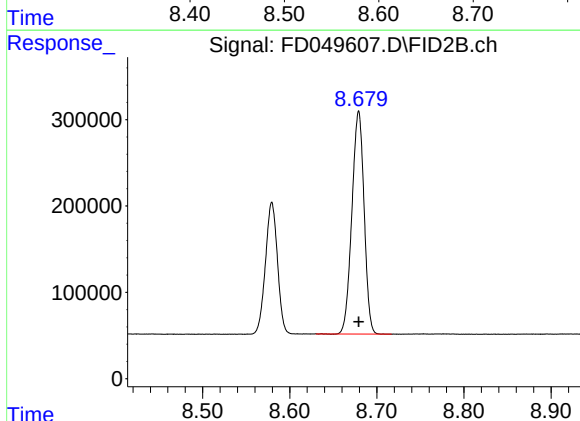
R.T.: 8.383 min
Delta R.T.: 0.000 min
Response: 2515082
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



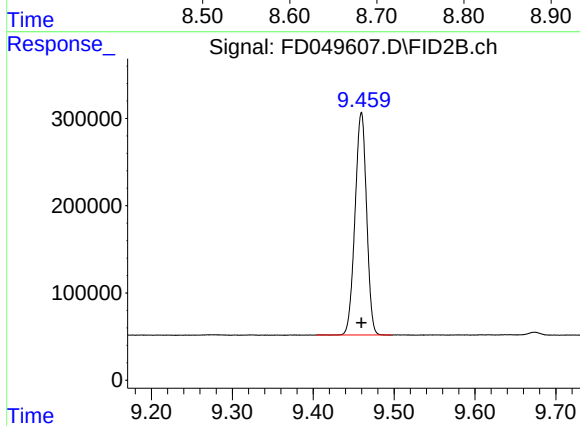
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.579 min
Delta R.T.: 0.000 min
Response: 1459830
Conc: 20.00 ug/ml



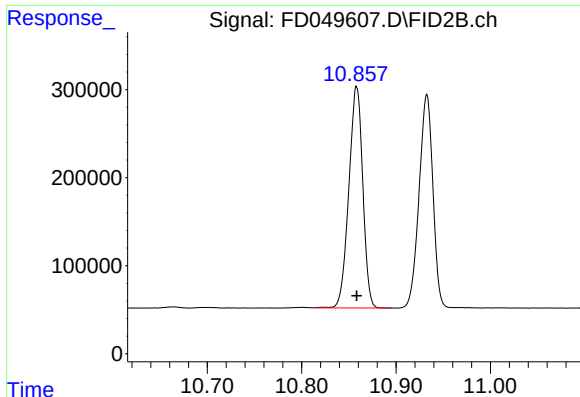
#7 Acenaphthene (C15.5)

R.T.: 8.679 min
Delta R.T.: 0.000 min
Response: 2511355
Conc: 20.00 ug/ml



#8 Fluorene (C16.55)

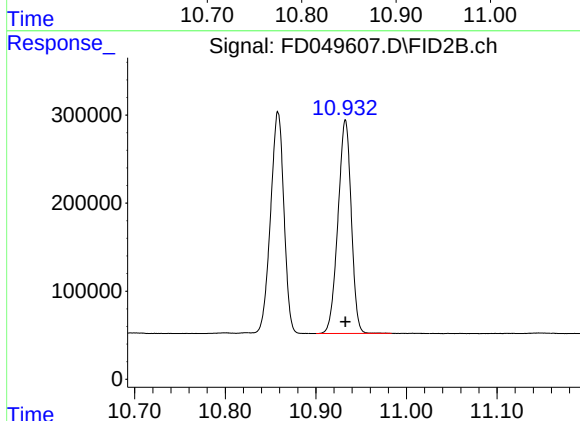
R.T.: 9.460 min
Delta R.T.: 0.000 min
Response: 2532761
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

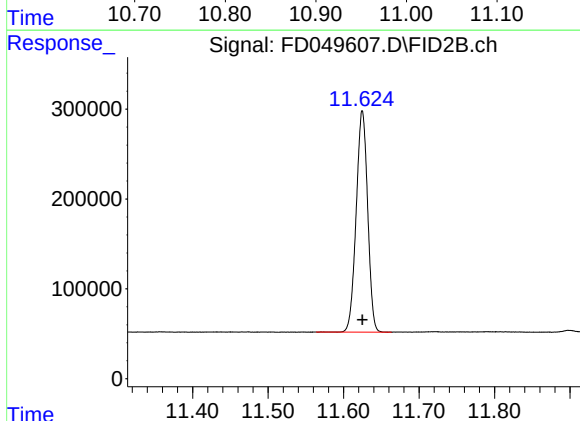
R.T.: 10.858 min
Delta R.T.: 0.000 min
Response: 2579454
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



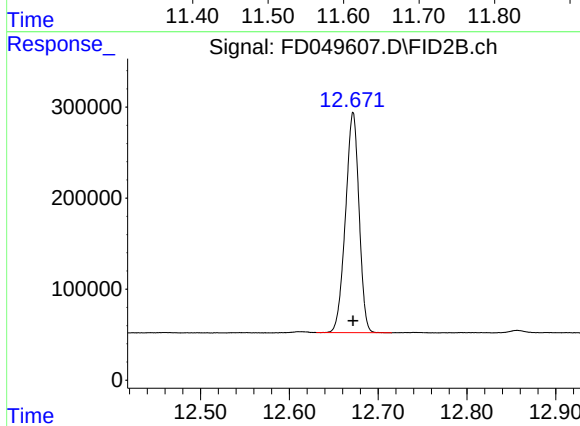
#10 Anthracene (C19.43)

R.T.: 10.933 min
Delta R.T.: 0.000 min
Response: 2472061
Conc: 20.00 ug/ml



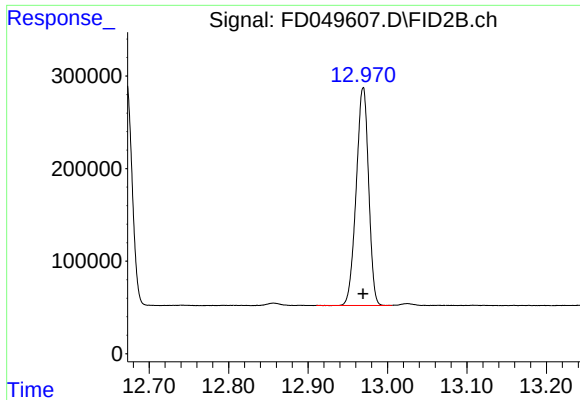
#11 ortho-Terphenyl (SURR)

R.T.: 11.625 min
Delta R.T.: 0.000 min
Response: 2595234
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

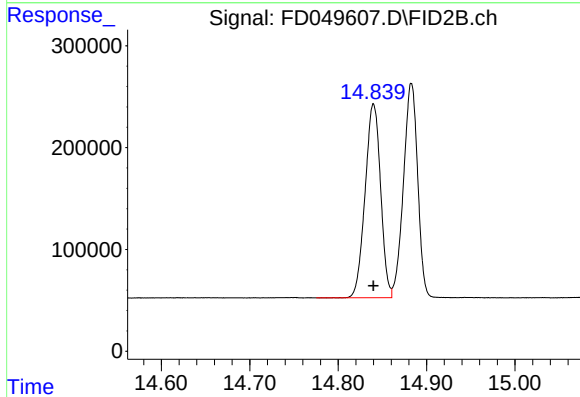
R.T.: 12.672 min
Delta R.T.: 0.000 min
Response: 2566419
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

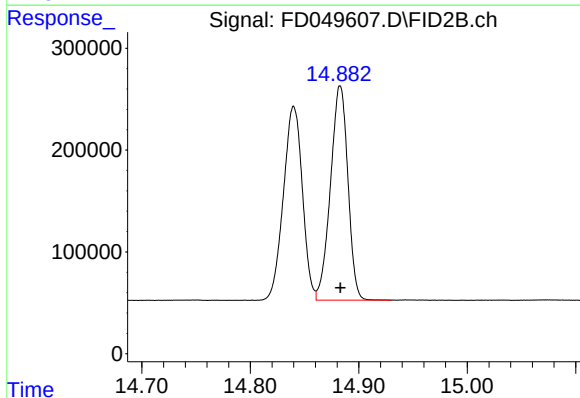
R.T.: 12.969 min
Delta R.T.: 0.000 min
Response: 2549759
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



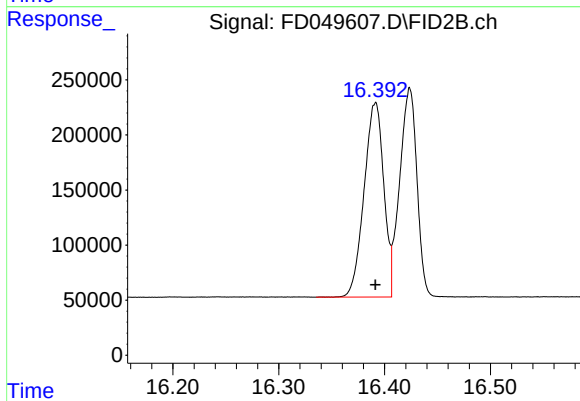
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.840 min
Delta R.T.: 0.000 min
Response: 2315935
Conc: 20.00 ug/ml



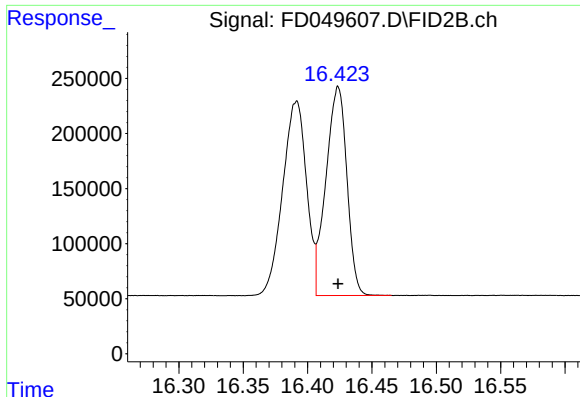
#15 Chrysene (C27.41)

R.T.: 14.883 min
Delta R.T.: 0.000 min
Response: 2351504
Conc: 20.00 ug/ml



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

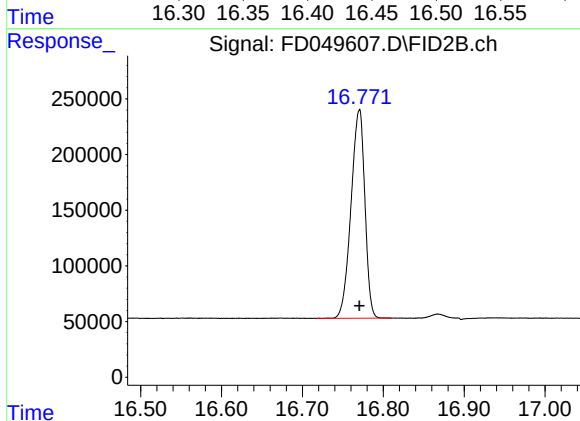
R.T.: 16.391 min
Delta R.T.: 0.000 min
Response: 2279925
Conc: 20.00 ug/ml



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

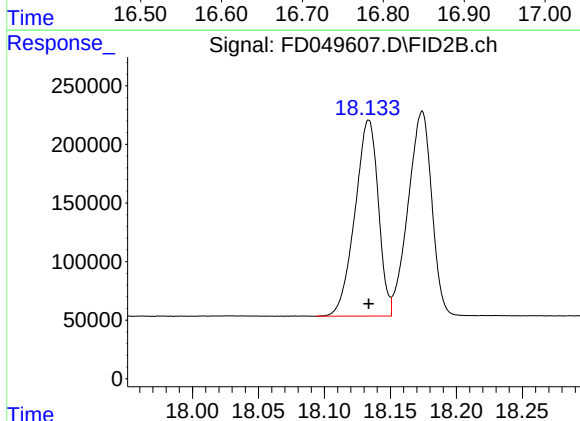
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 2150720
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



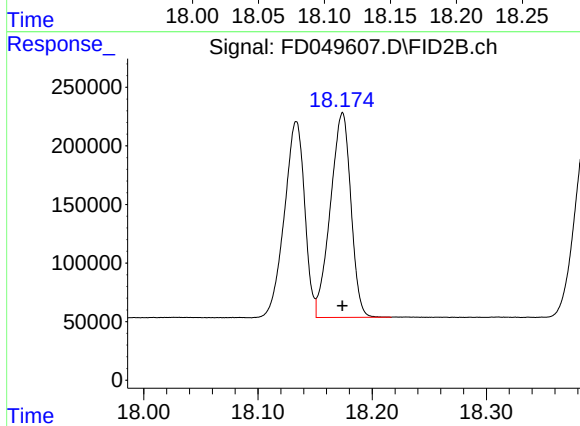
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.770 min
Delta R.T.: 0.000 min
Response: 2229041
Conc: 20.00 ug/ml



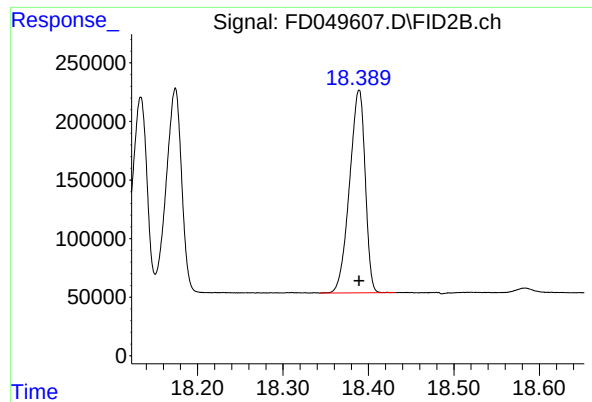
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.134 min
Delta R.T.: 0.000 min
Response: 2061894
Conc: 20.00 ug/ml



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

R.T.: 18.174 min
Delta R.T.: 0.000 min
Response: 2181315
Conc: 20.00 ug/ml



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

R.T.: 18.389 min
Delta R.T.: 0.000 min
Response: 2199279
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049607.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 12:06
 Sample : 20 PPM AROMATIC HC STD3
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.508	4.454	4.547	BB	239366	2030793	78.25%	4.203%
2	6.051	5.999	6.084	BB	251063	2292688	88.34%	4.745%
3	7.105	7.047	7.145	BB	257204	2388988	92.05%	4.944%
4	7.715	7.667	7.759	BB	218613	2055465	79.20%	4.254%
5	8.383	8.332	8.420	BB	263921	2515082	96.91%	5.205%
6	8.580	8.534	8.614	BB	152589	1459830	56.25%	3.021%
7	8.679	8.630	8.717	BB	257790	2511355	96.77%	5.197%
8	9.460	9.404	9.497	BB	255731	2532761	97.59%	5.242%
9	10.858	10.815	10.895	BB	251224	2579454	99.39%	5.338%
10	10.933	10.900	10.984	BB	242357	2472061	95.25%	5.116%
11	11.625	11.564	11.664	BB	246386	2595234	100.00%	5.371%
12	12.672	12.630	12.715	BB	242358	2566419	98.89%	5.311%
13	12.969	12.910	13.005	BV	235436	2549759	98.25%	5.277%
14	14.840	14.775	14.861	BV	190466	2315935	89.24%	4.793%
15	14.883	14.861	14.930	VB	210656	2351504	90.61%	4.867%
16	16.391	16.335	16.407	BV	177186	2279925	87.85%	4.718%
17	16.424	16.407	16.465	VB	190164	2150720	82.87%	4.451%
18	16.770	16.717	16.810	BB	187082	2229041	85.89%	4.613%
19	18.134	18.094	18.151	BV	167493	2061894	79.45%	4.267%
20	18.174	18.151	18.217	VB	174460	2181315	84.05%	4.514%
21	18.389	18.344	18.432	BB	173101	2199279	84.74%	4.552%
Sum of corrected areas:							48319501	

Aromatic EPH 081125.M Mon Aug 11 14:17:24 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049608.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 12:51
 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: Aug 11 13:20:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 13:20:05 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...	7.714	1068284	10.307 ug/ml
Spiked Amount 50.000		Recovery =	20.61%
6) S 2-Fluorobiphenyl (SURR)	8.578	754720	10.210 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	20.42%
11) S ortho-Terphenyl (SURR)	11.624	1353873	10.368 ug/ml
Spiked Amount 50.000		Recovery =	20.74%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.508	1067057	10.494 ug/ml
2) T Naphthalene (C11.7)	6.051	1192429	10.324 ug/ml
3) T 2-Methylnaphthalene (...)	7.104	1240342	10.292 ug/ml
5) T Acenaphthylene (C15.06)	8.382	1305549	10.305 ug/ml
7) T Acenaphthene (C15.5)	8.677	1308639	10.324 ug/ml
8) T Flouorene (C16.55)	9.459	1317291	10.296 ug/ml
9) T Phenanthrene (C19.36)	10.857	1346915	10.286 ug/ml
10) T Anthracene (C19.43)	10.931	1285725	10.275 ug/ml
12) T Fluoranthene (C21.85)	12.669	1323090	10.203 ug/ml
13) T Pyrene (C20.8)	12.967	1307166	10.163 ug/ml
14) T Benzo[a]anthracene (C...	14.837	1177863	10.085 ug/ml
15) T Chrysene (C27.41)	14.879	1195016	10.095 ug/ml
16) T benzo[b]fluoranthene ...	16.387	1167896	10.223 ug/ml
17) T Bnezo[k]fluoranthene ...	16.419	1101425	10.257 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.766	1147311	10.298 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.129	1064699	10.278 ug/ml
20) T Dibenz[a,h]anthracene...	18.170	1136118	10.618 ug/ml
21) T Benzo[g,h,i]perylene ...	18.383	1140495	10.426 ug/ml

(f)=RT Delta > 1/2 Window

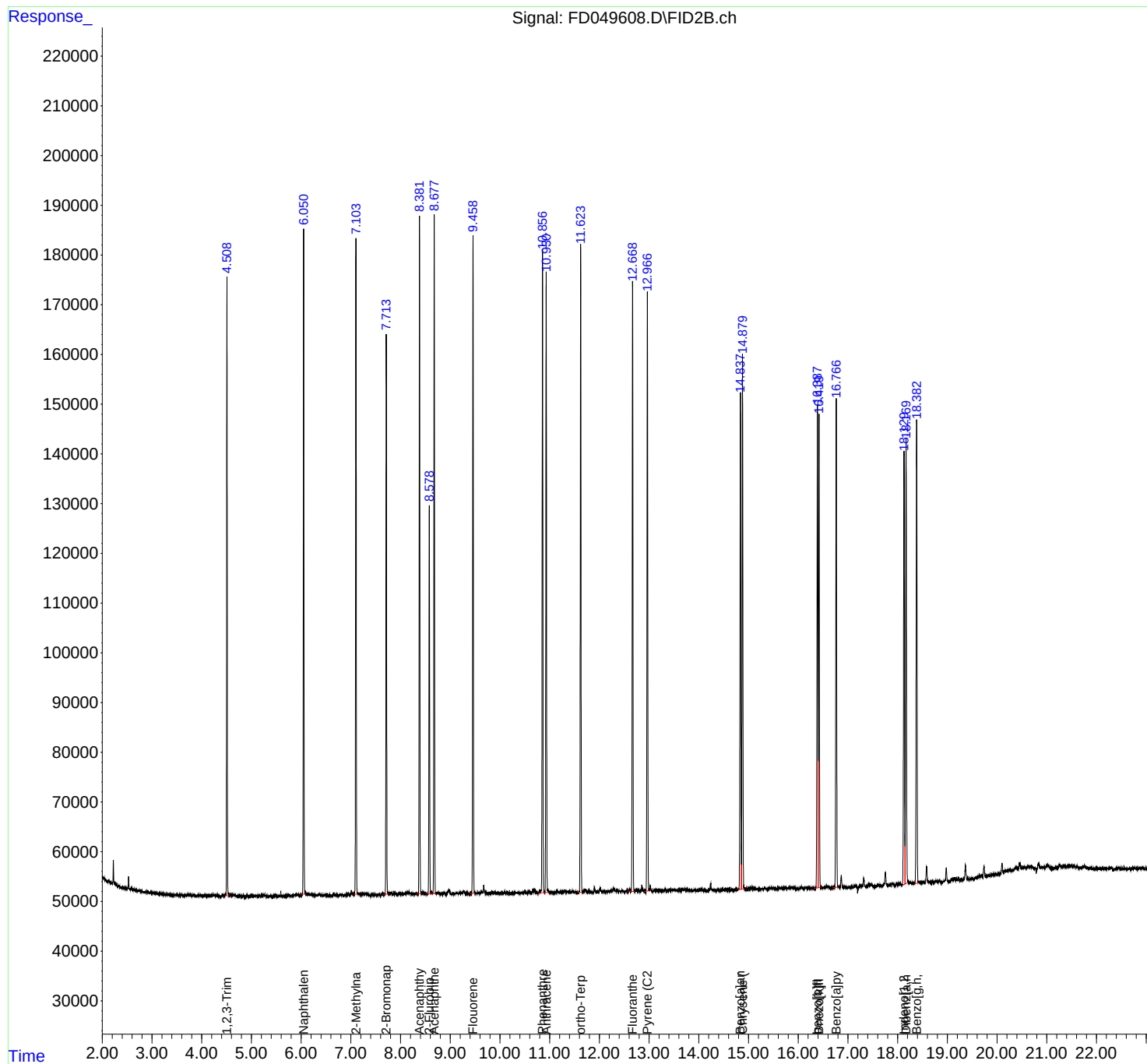
(m)=manual int.

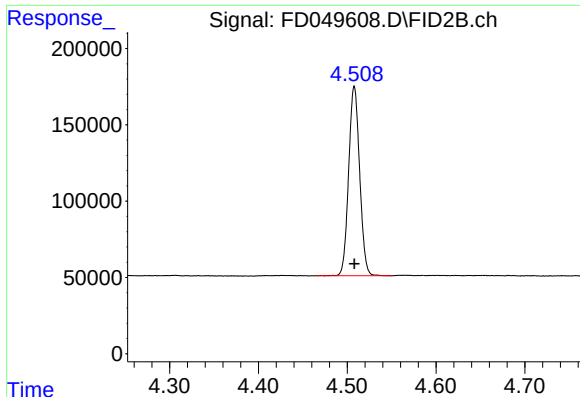
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
Data File : FD049608.D
Signal(s) : FID2B.ch
Acq On : 11 Aug 2025 12:51
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Aug 11 13:20:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 13:20:05 2025
Response via : Initial Calibration
Integrator: ChemStation

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

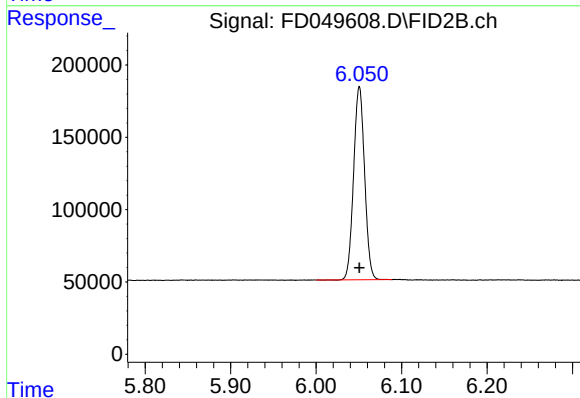




#1 1,2,3-Trimethylbenzene (C10.1)

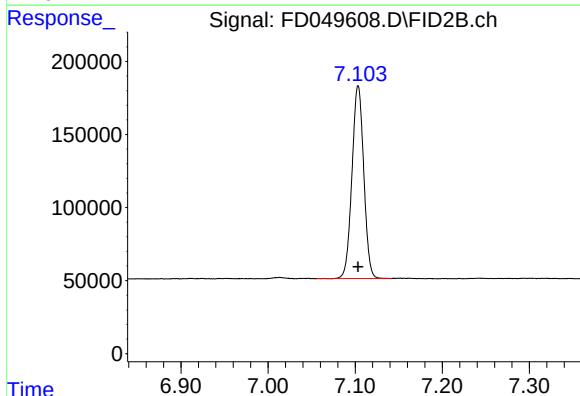
R.T.: 4.508 min
Delta R.T.: 0.000 min
Response: 1067057
Conc: 10.49 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



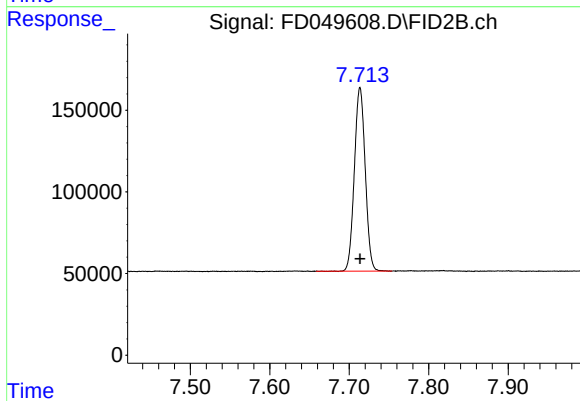
#2 Naphthalene (C11.7)

R.T.: 6.051 min
Delta R.T.: 0.000 min
Response: 1192429
Conc: 10.32 ug/ml



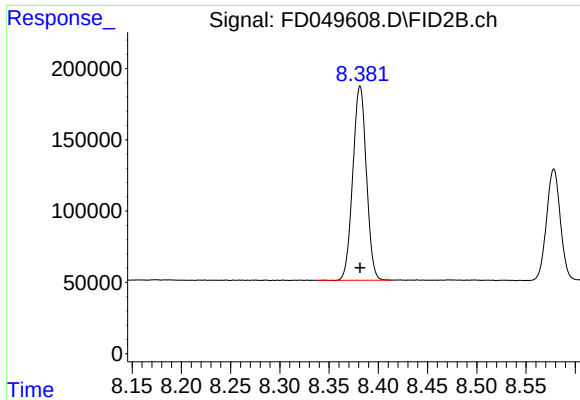
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.104 min
Delta R.T.: 0.000 min
Response: 1240342
Conc: 10.29 ug/ml



#4 2-Bromonaphthalene (SURR)

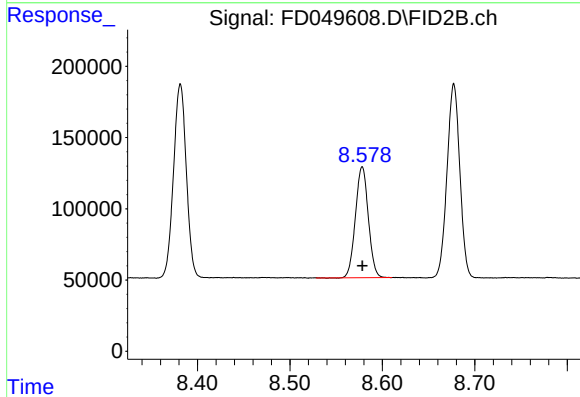
R.T.: 7.714 min
Delta R.T.: 0.000 min
Response: 1068284
Conc: 10.31 ug/ml



#5 Acenaphthylene (C15.06)

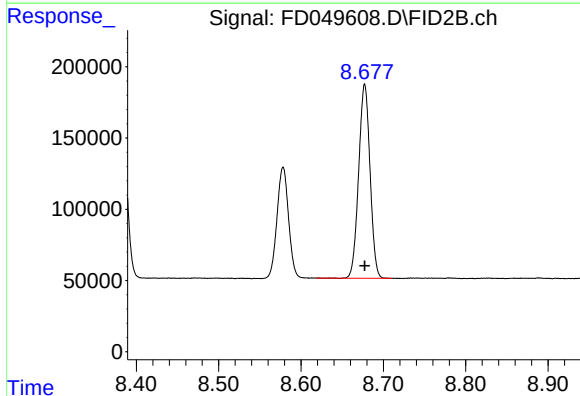
R.T.: 8.382 min
Delta R.T.: 0.000 min
Response: 1305549
Conc: 10.30 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



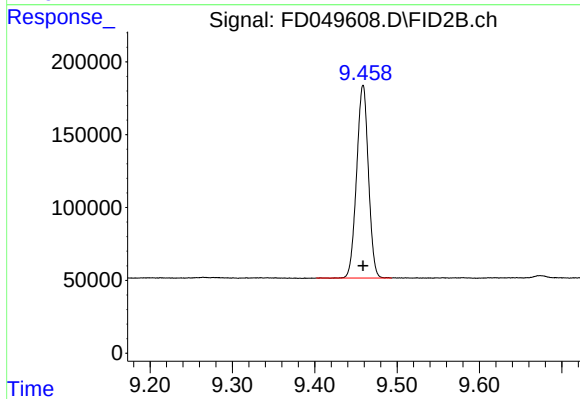
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.578 min
Delta R.T.: 0.000 min
Response: 754720
Conc: 10.21 ug/ml



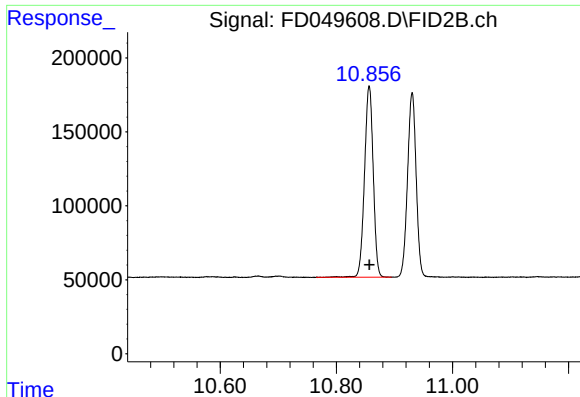
#7 Acenaphthene (C15.5)

R.T.: 8.677 min
Delta R.T.: 0.000 min
Response: 1308639
Conc: 10.32 ug/ml



#8 Flouorene (C16.55)

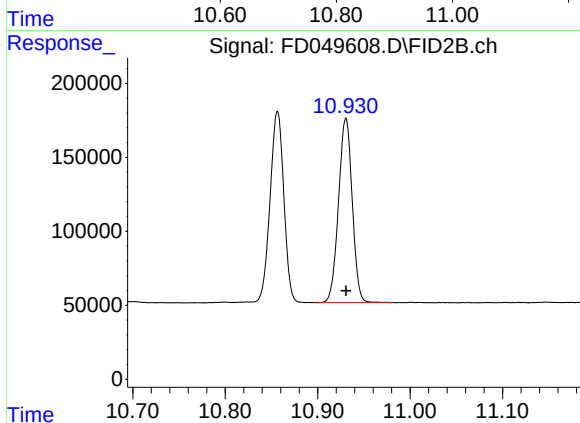
R.T.: 9.459 min
Delta R.T.: 0.000 min
Response: 1317291
Conc: 10.30 ug/ml



#9 Phenanthrene (C19.36)

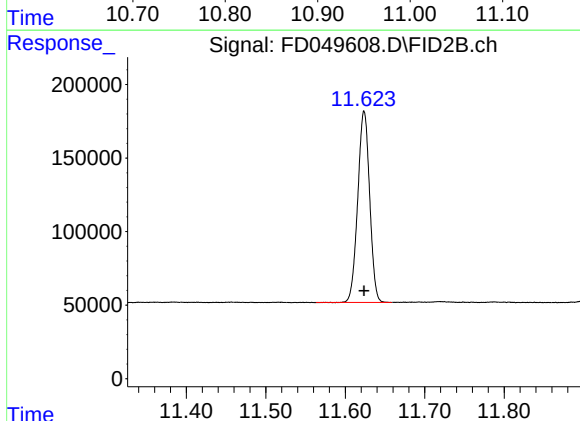
R.T.: 10.857 min
Delta R.T.: 0.000 min
Response: 1346915
Conc: 10.29 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



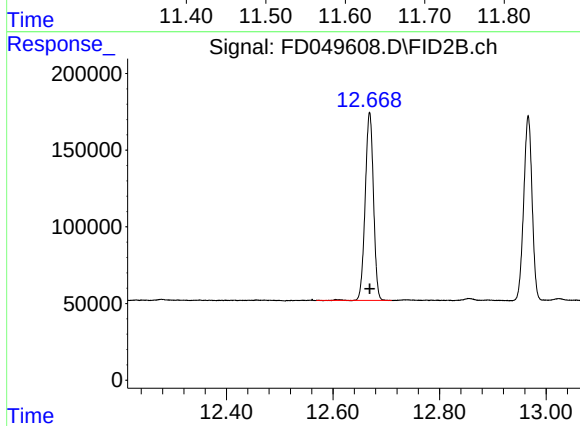
#10 Anthracene (C19.43)

R.T.: 10.931 min
Delta R.T.: 0.000 min
Response: 1285725
Conc: 10.28 ug/ml



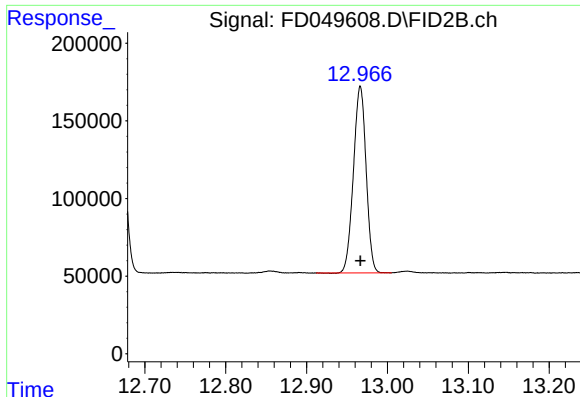
#11 ortho-Terphenyl (SURR)

R.T.: 11.624 min
Delta R.T.: 0.000 min
Response: 1353873
Conc: 10.37 ug/ml



#12 Fluoranthene (C21.85)

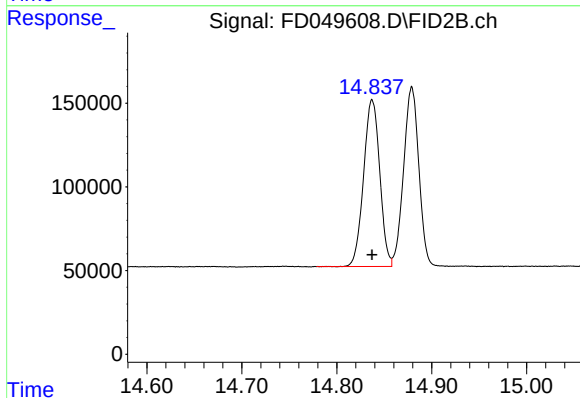
R.T.: 12.669 min
Delta R.T.: 0.000 min
Response: 1323090
Conc: 10.20 ug/ml



#13 Pyrene (C20.8)

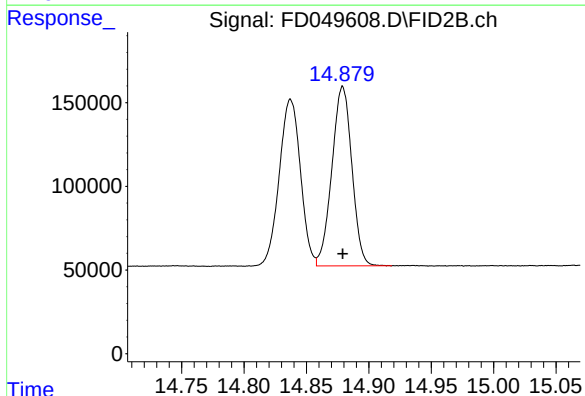
R.T.: 12.967 min
Delta R.T.: 0.000 min
Response: 1307166
Conc: 10.16 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



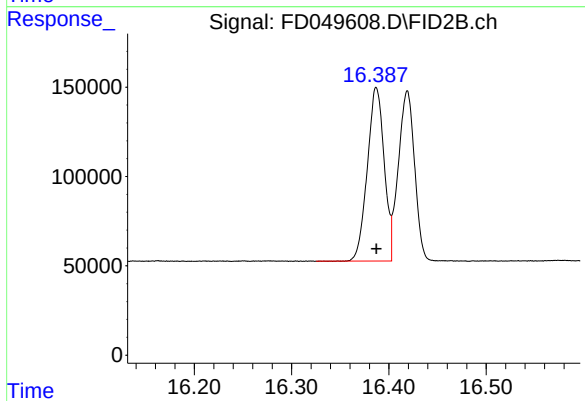
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.837 min
Delta R.T.: 0.000 min
Response: 1177863
Conc: 10.08 ug/ml



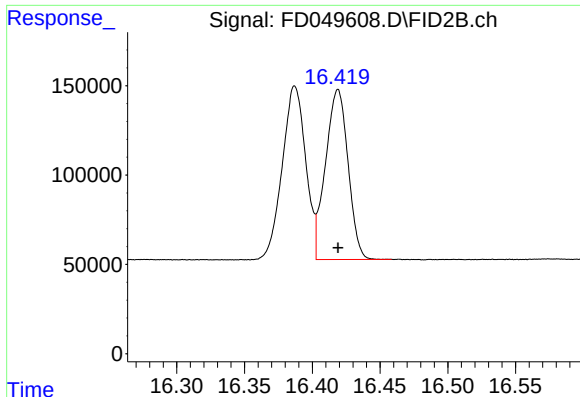
#15 Chrysene (C27.41)

R.T.: 14.879 min
Delta R.T.: 0.000 min
Response: 1195016
Conc: 10.09 ug/ml



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

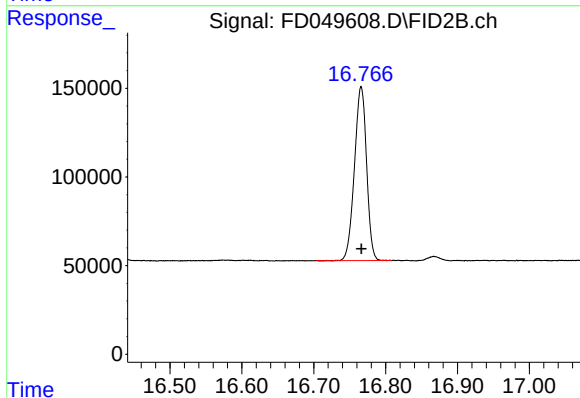
R.T.: 16.387 min
Delta R.T.: 0.000 min
Response: 1167896
Conc: 10.22 ug/ml



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

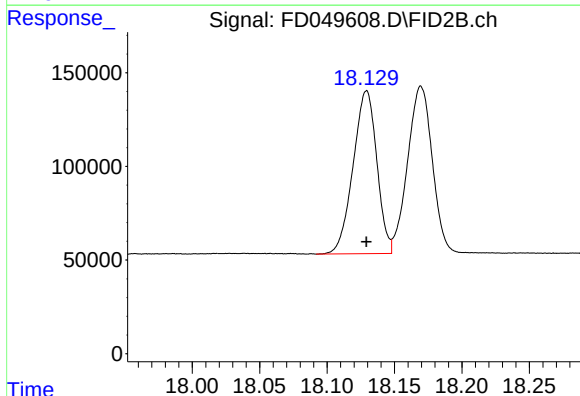
R.T.: 16.419 min
Delta R.T.: 0.000 min
Response: 1101425
Conc: 10.26 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



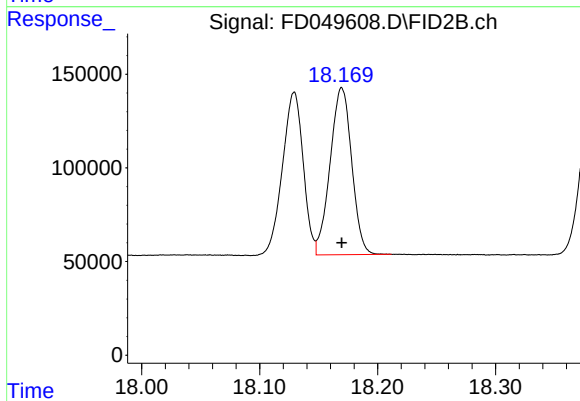
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.766 min
Delta R.T.: 0.000 min
Response: 1147311
Conc: 10.30 ug/ml



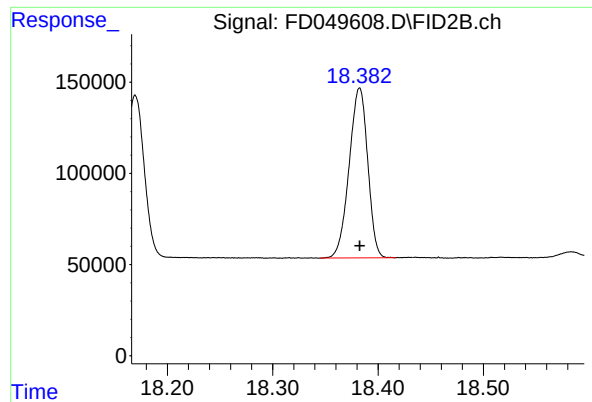
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.129 min
Delta R.T.: 0.000 min
Response: 1064699
Conc: 10.28 ug/ml



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

R.T.: 18.170 min
Delta R.T.: 0.000 min
Response: 1136118
Conc: 10.62 ug/ml



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

R.T.: 18.383 min
Delta R.T.: 0.000 min
Response: 1140495
Conc: 10.43 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049608.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 12:51
 Sample : 10 PPM AROMATIC HC STD4
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.508	4.465	4.550	BB	124203	1067057	78.82%	4.268%
2	6.051	6.000	6.088	BB	133593	1192429	88.08%	4.769%
3	7.104	7.055	7.142	BB	132072	1240342	91.61%	4.961%
4	7.714	7.658	7.753	BB	112547	1068284	78.91%	4.273%
5	8.382	8.337	8.413	BB	136232	1305549	96.43%	5.222%
6	8.578	8.528	8.610	BB	78021	754720	55.75%	3.019%
7	8.677	8.618	8.710	BB	136385	1308639	96.66%	5.234%
8	9.459	9.402	9.493	BB	132485	1317291	97.30%	5.269%
9	10.857	10.765	10.895	BB	129368	1346915	99.49%	5.387%
10	10.931	10.898	10.980	BB	124483	1285725	94.97%	5.143%
11	11.624	11.563	11.658	BB	130213	1353873	100.00%	5.415%
12	12.669	12.568	12.710	BB	122744	1323090	97.73%	5.292%
13	12.967	12.912	13.005	BB	120343	1307166	96.55%	5.228%
14	14.837	14.778	14.858	BV	99690	1177863	87.00%	4.711%
15	14.879	14.858	14.918	VB	107084	1195016	88.27%	4.780%
16	16.387	16.325	16.403	BV	97212	1167896	86.26%	4.671%
17	16.419	16.403	16.458	VB	95169	1101425	81.35%	4.405%
18	16.766	16.703	16.808	BB	98091	1147311	84.74%	4.589%
19	18.129	18.092	18.148	BV	87037	1064699	78.64%	4.258%
20	18.170	18.148	18.212	VB	89131	1136118	83.92%	4.544%
21	18.383	18.345	18.417	BB	93255	1140495	84.24%	4.562%
Sum of corrected areas:						25001902		

Aromatic EPH 081125.M Mon Aug 11 14:17:48 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049609.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 13:35
 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: Aug 11 14:11:26 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:17 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...	7.714	489176	4.773 ug/ml
Spiked Amount 50.000		Recovery =	9.55%
6) S 2-Fluorobiphenyl (SURR)	8.578	347680	4.760 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	9.52%
11) S ortho-Terphenyl (SURR)	11.623	633269	4.879 ug/ml
Spiked Amount 50.000		Recovery =	9.76%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.509	496869	4.909 ug/ml
2) T Naphthalene (C11.7)	6.052	556463	4.853 ug/ml
3) T 2-Methylnaphthalene (...)	7.104	572023	4.795 ug/ml
5) T Acenaphthylene (C15.06)	8.381	608871	4.843 ug/ml
7) T Acenaphthene (C15.5)	8.677	608171	4.837 ug/ml
8) T Flouorene (C16.55)	9.458	606295	4.789 ug/ml
9) T Phenanthrene (C19.36)	10.856	610414	4.725 ug/ml
10) T Anthracene (C19.43)	10.930	577291	4.686 ug/ml
12) T Fluoranthene (C21.85)	12.669	606942	4.741 ug/ml
13) T Pyrene (C20.8)	12.966	601676	4.739 ug/ml
14) T Benzo[a]anthracene (C...	14.836	548941	4.757 ug/ml
15) T Chrysene (C27.41)	14.878	559500	4.779 ug/ml
16) T benzo[b]fluoranthene ...	16.386	558498	4.911 ug/ml
17) T Bnezo[k]fluoranthene ...	16.416	528624	4.938 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.764	545214	4.915 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.126	505114	4.900 ug/ml
20) T Dibenz[a,h]anthracene...	18.168	584886	5.366 ug/ml
21) T Benzo[g,h,i]perylene ...	18.380	544133	4.979 ug/ml

(f)=RT Delta > 1/2 Window

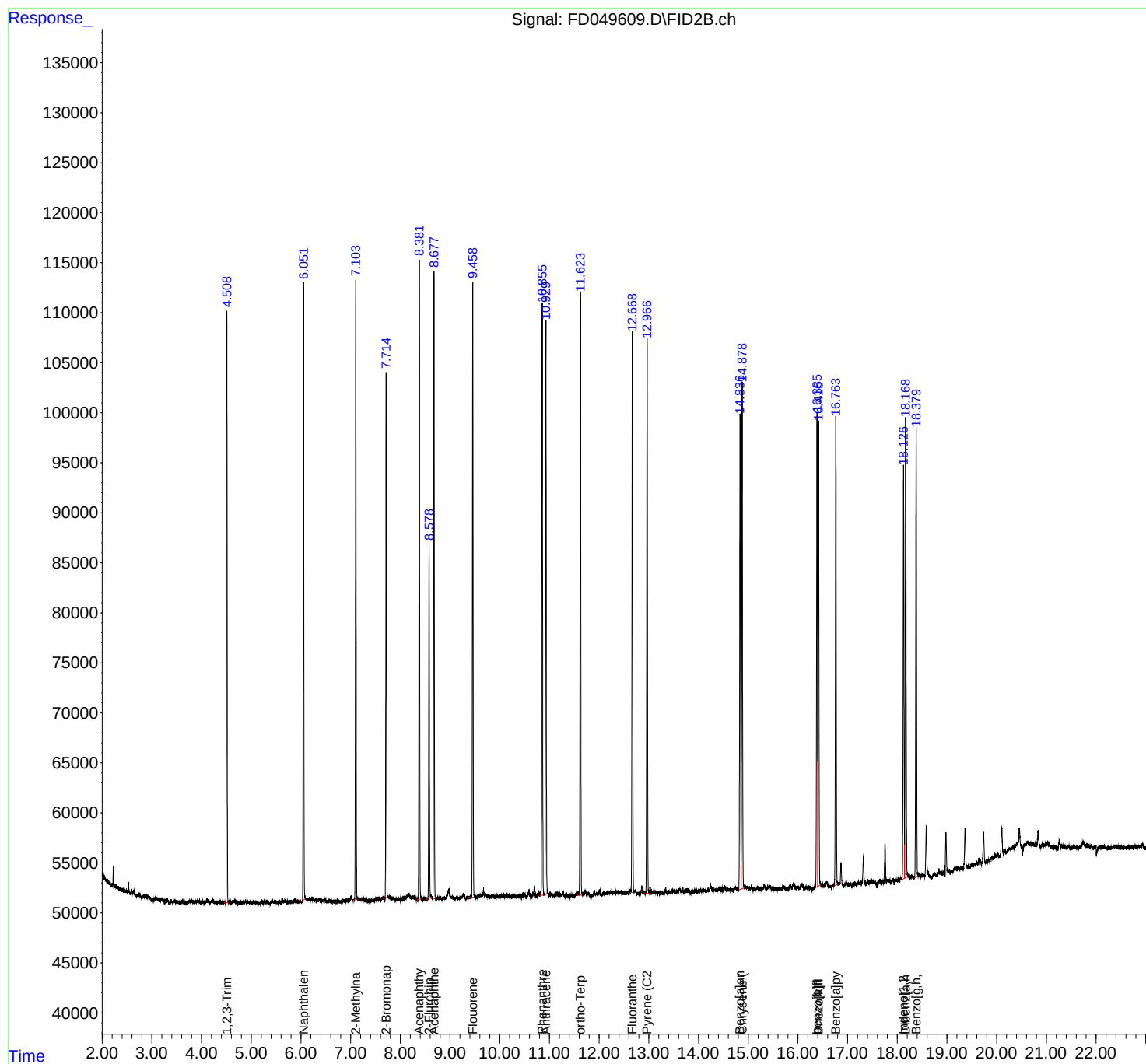
(m)=manual int.

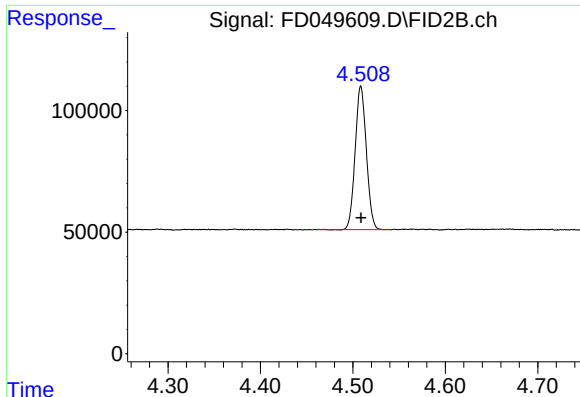
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
Data File : FD049609.D
Signal(s) : FID2B.ch
Acq On : 11 Aug 2025 13:35
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Aug 11 14:11:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:17 2025
Response via : Initial Calibration
Integrator: ChemStation

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

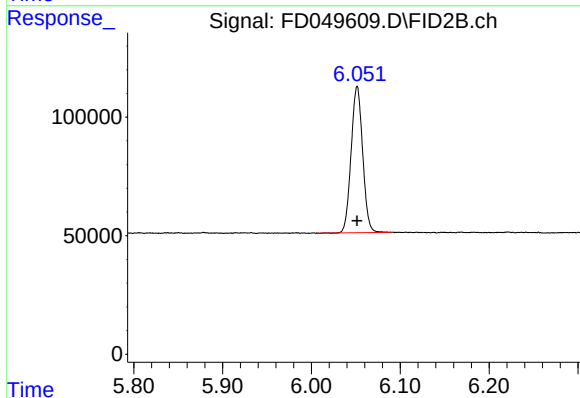




#1 1,2,3-Trimethylbenzene (C10.1)

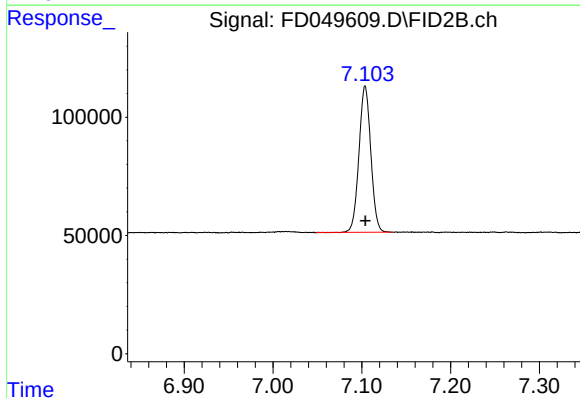
R.T.: 4.509 min
Delta R.T.: 0.000 min
Response: 496869
Conc: 4.91 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



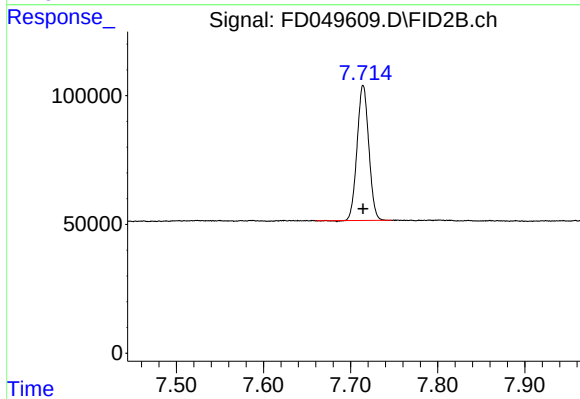
#2 Naphthalene (C11.7)

R.T.: 6.052 min
Delta R.T.: 0.000 min
Response: 556463
Conc: 4.85 ug/ml



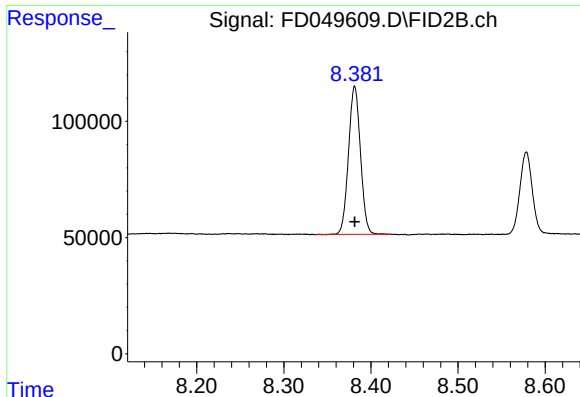
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.104 min
Delta R.T.: 0.000 min
Response: 572023
Conc: 4.80 ug/ml



#4 2-Bromonaphthalene (SURR)

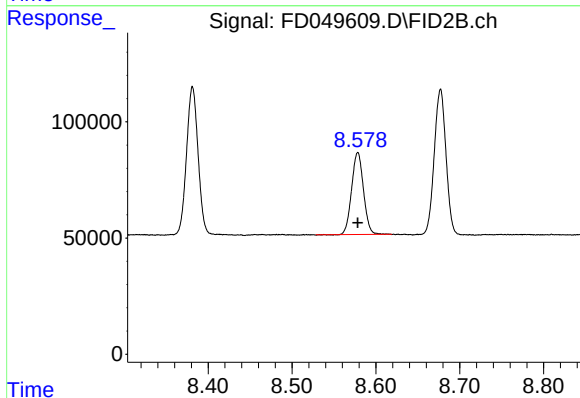
R.T.: 7.714 min
Delta R.T.: 0.000 min
Response: 489176
Conc: 4.77 ug/ml



#5 Acenaphthylene (C15.06)

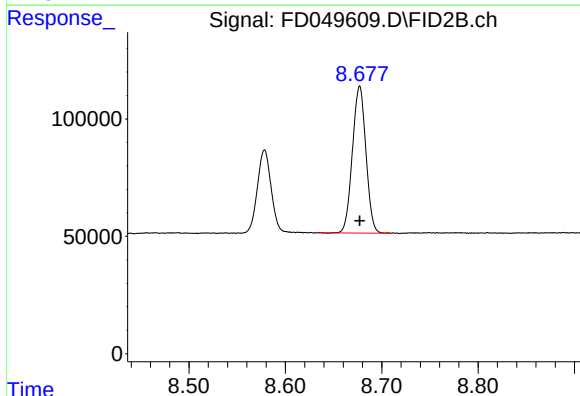
R.T.: 8.381 min
Delta R.T.: 0.000 min
Response: 608871
Conc: 4.84 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



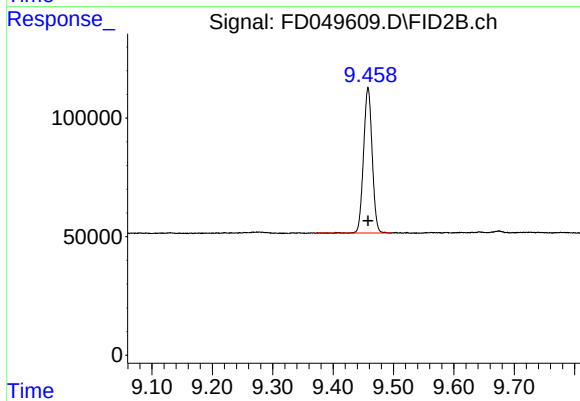
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.578 min
Delta R.T.: 0.000 min
Response: 347680
Conc: 4.76 ug/ml



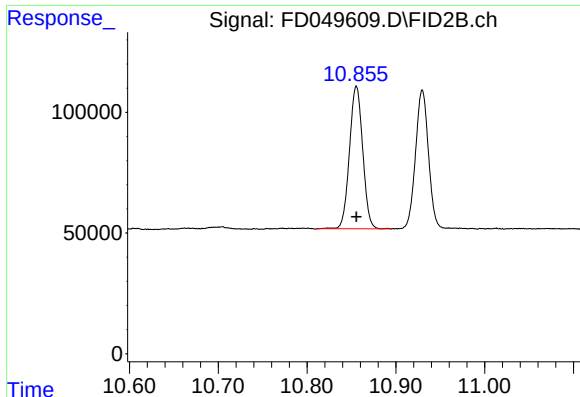
#7 Acenaphthene (C15.5)

R.T.: 8.677 min
Delta R.T.: 0.000 min
Response: 608171
Conc: 4.84 ug/ml



#8 Fluorene (C16.55)

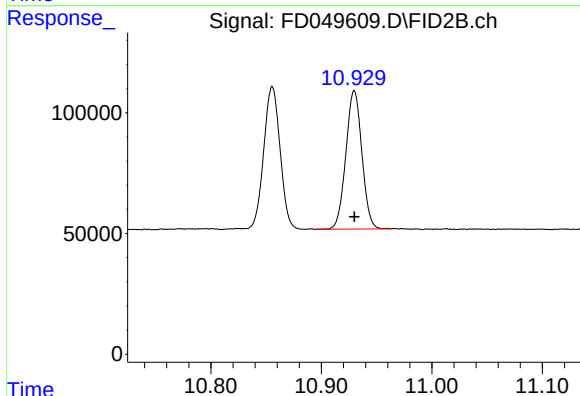
R.T.: 9.458 min
Delta R.T.: 0.000 min
Response: 606295
Conc: 4.79 ug/ml



#9 Phenanthrene (C19.36)

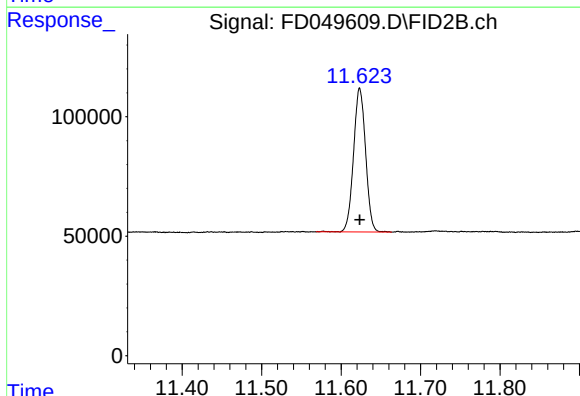
R.T.: 10.856 min
Delta R.T.: 0.000 min
Response: 610414
Conc: 4.73 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



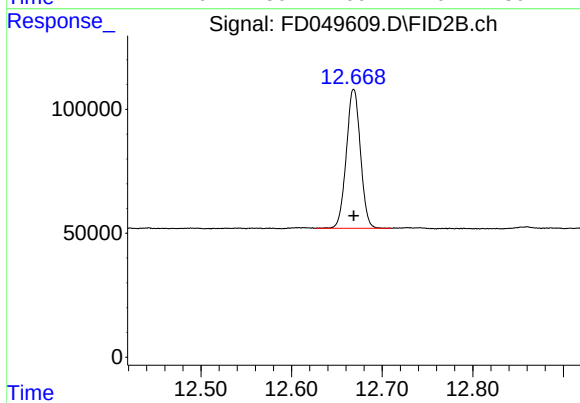
#10 Anthracene (C19.43)

R.T.: 10.930 min
Delta R.T.: 0.000 min
Response: 577291
Conc: 4.69 ug/ml



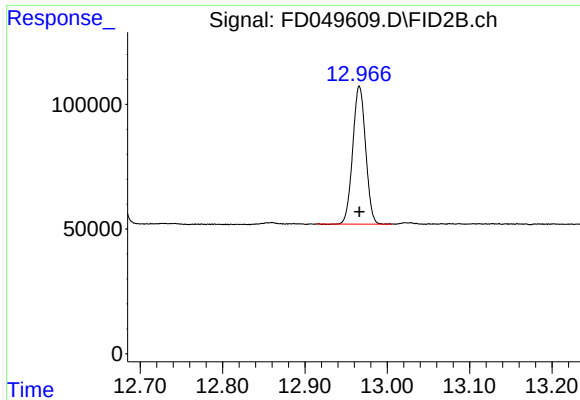
#11 ortho-Terphenyl (SURR)

R.T.: 11.623 min
Delta R.T.: 0.000 min
Response: 633269
Conc: 4.88 ug/ml



#12 Fluoranthene (C21.85)

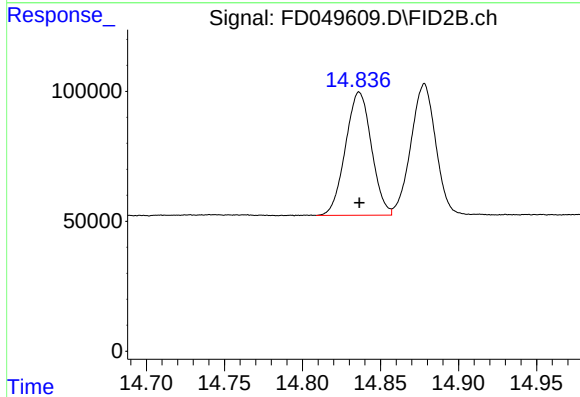
R.T.: 12.669 min
Delta R.T.: 0.000 min
Response: 606942
Conc: 4.74 ug/ml



#13 Pyrene (C20.8)

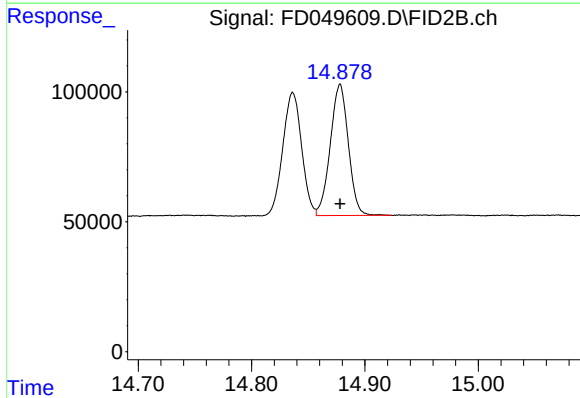
R.T.: 12.966 min
Delta R.T.: 0.000 min
Response: 601676
Conc: 4.74 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



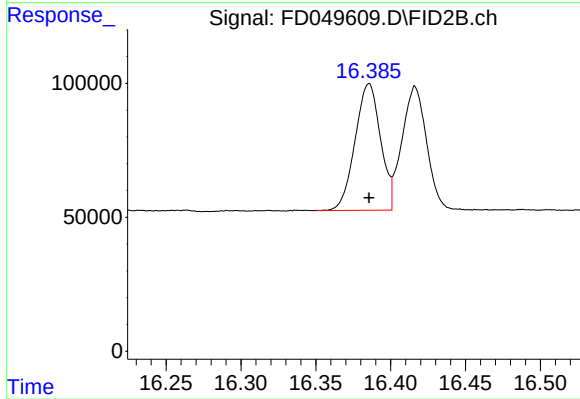
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.836 min
Delta R.T.: 0.000 min
Response: 548941
Conc: 4.76 ug/ml



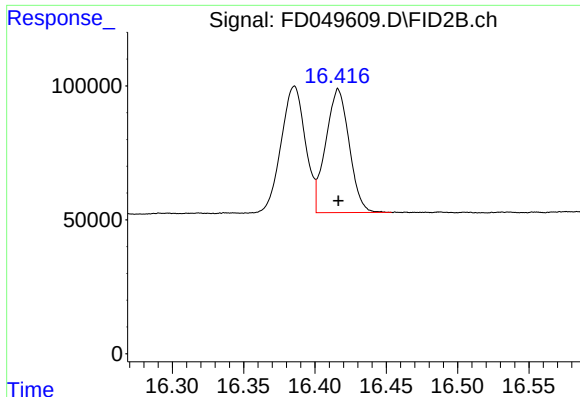
#15 Chrysene (C27.41)

R.T.: 14.878 min
Delta R.T.: 0.000 min
Response: 559500
Conc: 4.78 ug/ml



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

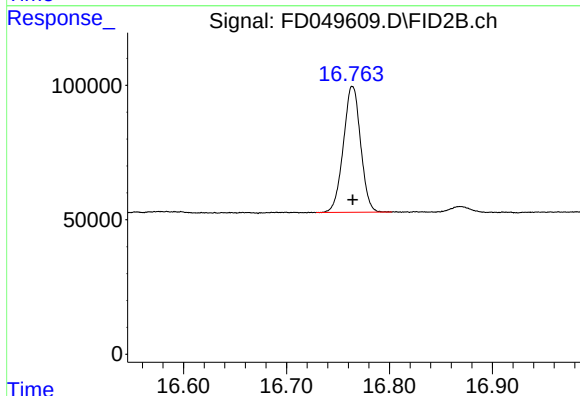
R.T.: 16.386 min
Delta R.T.: 0.000 min
Response: 558498
Conc: 4.91 ug/ml



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

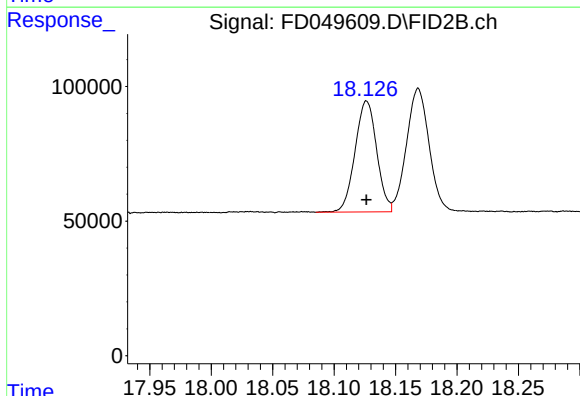
R.T.: 16.416 min
Delta R.T.: 0.000 min
Response: 528624
Conc: 4.94 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



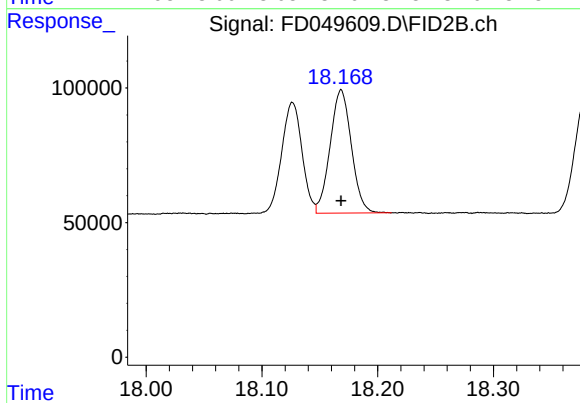
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.764 min
Delta R.T.: 0.000 min
Response: 545214
Conc: 4.91 ug/ml



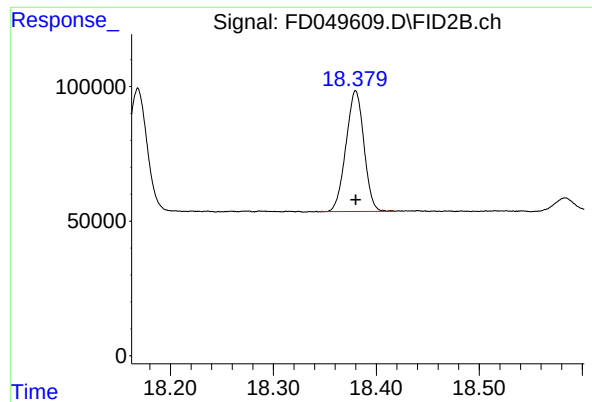
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.126 min
Delta R.T.: 0.000 min
Response: 505114
Conc: 4.90 ug/ml



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

R.T.: 18.168 min
Delta R.T.: 0.000 min
Response: 584886
Conc: 5.37 ug/ml



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

R.T.: 18.380 min
Delta R.T.: 0.000 min
Response: 544133
Conc: 4.98 ug/ml

Instrument :

FID_D

ClientSampleId :

5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049609.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 13:35
 Sample : 5 PPM AROMATIC HC STD5
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.509	4.460	4.542	BB	58983	496869	78.46%	4.250%
2	6.052	6.005	6.090	BB	61904	556463	87.87%	4.760%
3	7.104	7.049	7.134	BB	61965	572023	90.33%	4.893%
4	7.714	7.660	7.747	BB	52619	489176	77.25%	4.185%
5	8.381	8.337	8.424	BB	63651	608871	96.15%	5.208%
6	8.578	8.529	8.619	BB	35392	347680	54.90%	2.974%
7	8.677	8.632	8.710	BB	62726	608171	96.04%	5.202%
8	9.458	9.372	9.497	BB	61426	606295	95.74%	5.186%
9	10.856	10.810	10.895	BB	59128	610414	96.39%	5.222%
10	10.930	10.895	10.964	BB	57372	577291	91.16%	4.938%
11	11.623	11.569	11.664	BB	60145	633269	100.00%	5.417%
12	12.669	12.627	12.710	BB	56100	606942	95.84%	5.192%
13	12.966	12.914	13.005	BB	55412	601676	95.01%	5.147%
14	14.836	14.809	14.857	BV	47365	548941	86.68%	4.696%
15	14.878	14.857	14.924	VB	50761	559500	88.35%	4.786%
16	16.386	16.350	16.401	BV	47301	558498	88.19%	4.778%
17	16.416	16.401	16.454	VB	46025	528624	83.48%	4.522%
18	16.764	16.729	16.802	BB	46885	545214	86.10%	4.664%
19	18.126	18.085	18.147	BV	41217	505114	79.76%	4.321%
20	18.168	18.147	18.212	VB	45951	584886	92.36%	5.003%
21	18.380	18.345	18.419	BB	44914	544133	85.92%	4.655%
Sum of corrected areas:							11690051	

Aromatic EPH 081125.M Mon Aug 11 14:18:08 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049610.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 14:20
 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: Aug 11 14:41:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.714	1993626	19.452 ug/ml
Spiked Amount 50.000		Recovery =	38.90%
6) S 2-Fluorobiphenyl (SURR)	8.579	1416425	19.391 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	38.78%
11) S ortho-Terphenyl (SURR)	11.624	2524095	19.447 ug/ml
Spiked Amount 50.000		Recovery =	38.89%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.507	1969226	19.455 ug/ml
2) T Naphthalene (C11.7)	6.050	2224882	19.404 ug/ml
3) T 2-Methylnaphthalene (...)	7.104	2316479	19.418 ug/ml
5) T Acenaphthylene (C15.06)	8.382	2441662	19.423 ug/ml
7) T Acenaphthene (C15.5)	8.678	2442527	19.426 ug/ml
8) T Flouorene (C16.55)	9.459	2466026	19.477 ug/ml
9) T Phenanthrene (C19.36)	10.858	2532616	19.606 ug/ml
10) T Anthracene (C19.43)	10.932	2405056	19.523 ug/ml
12) T Fluoranthene (C21.85)	12.671	2533895	19.793 ug/ml
13) T Pyrene (C20.8)	12.969	2519170	19.841 ug/ml
14) T Benzo[a]anthracene (C...	14.840	2306029	19.984 ug/ml
15) T Chrysene (C27.41)	14.883	2341897	20.002 ug/ml
16) T benzo[b]fluoranthene ...	16.391	2277743	20.027 ug/ml
17) T Bnezo[k]fluoranthene ...	16.423	2148998	20.075 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.770	2225633	20.062 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.134	2048513	19.873 ug/ml
20) T Dibenz[a,h]anthracene...	18.174	2182504	20.023 ug/ml
21) T Benzo[g,h,i]perylene ...	18.389	2213783	20.259 ug/ml

(f)=RT Delta > 1/2 Window

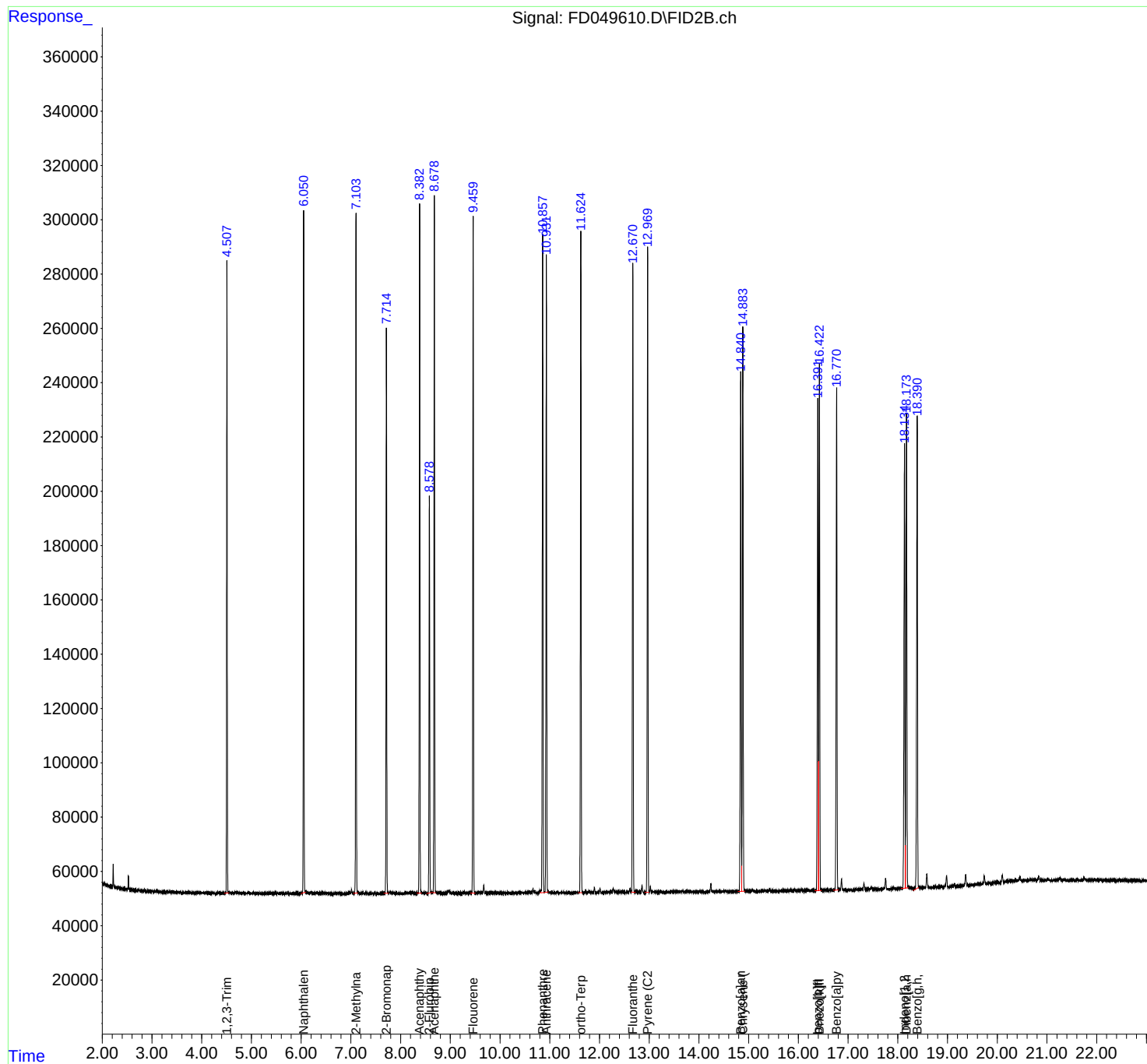
(m)=manual int.

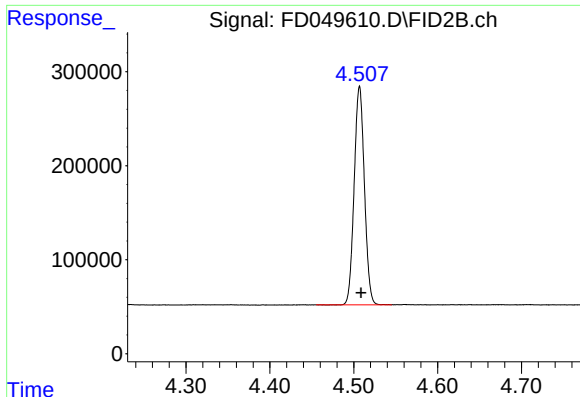
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
Data File : FD049610.D
Signal(s) : FID2B.ch
Acq On : 11 Aug 2025 14:20
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Aug 11 14:41:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

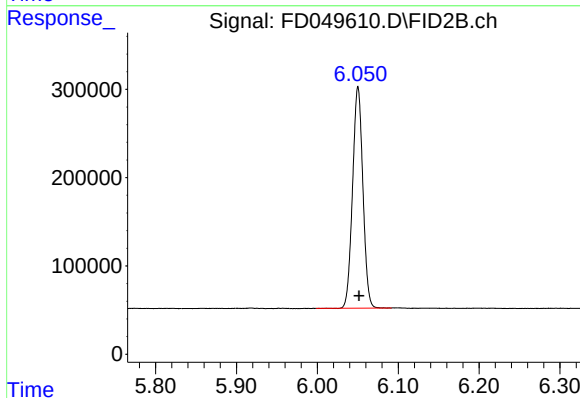




#1 1,2,3-Trimethylbenzene (C10.1)

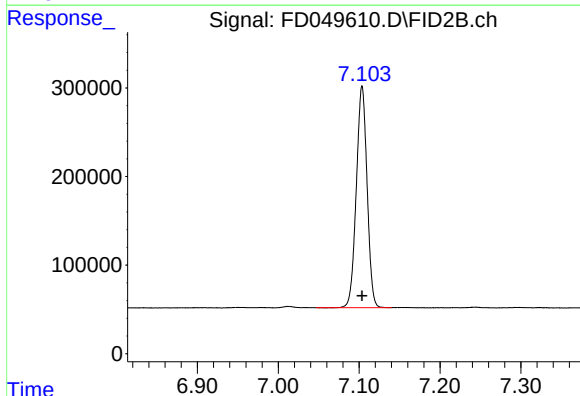
R.T.: 4.507 min
Delta R.T.: -0.002 min
Response: 1969226
Conc: 19.45 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



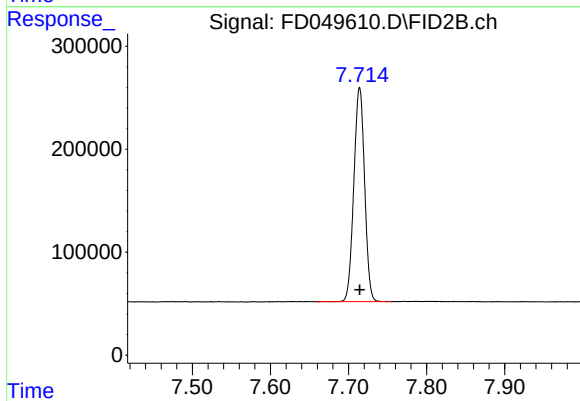
#2 Naphthalene (C11.7)

R.T.: 6.050 min
Delta R.T.: -0.001 min
Response: 2224882
Conc: 19.40 ug/ml



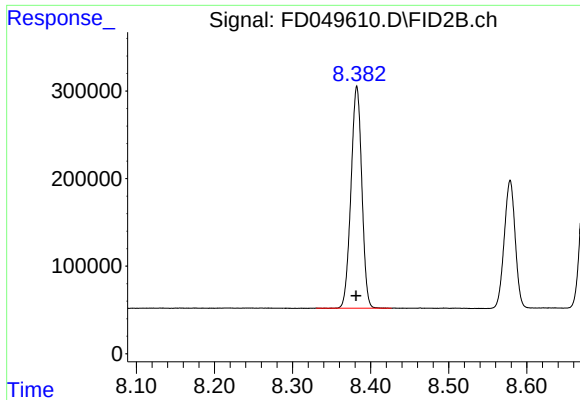
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.104 min
Delta R.T.: 0.000 min
Response: 2316479
Conc: 19.42 ug/ml



#4 2-Bromonaphthalene (SURR)

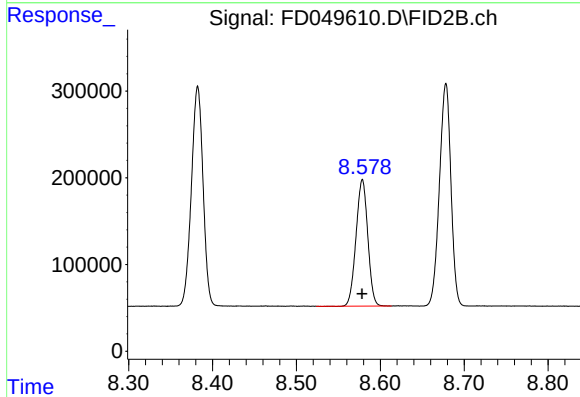
R.T.: 7.714 min
Delta R.T.: 0.000 min
Response: 1993626
Conc: 19.45 ug/ml



#5 Acenaphthylene (C15.06)

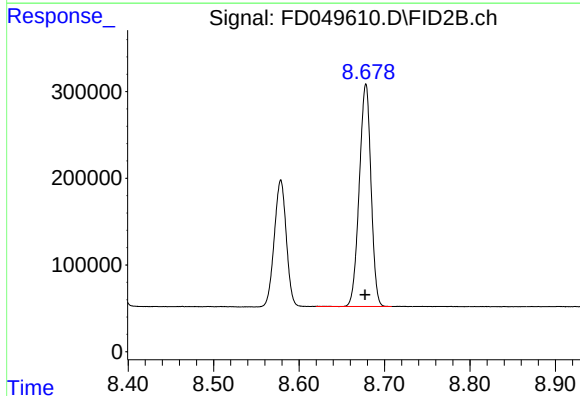
R.T.: 8.382 min
Delta R.T.: 0.000 min
Response: 2441662
Conc: 19.42 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



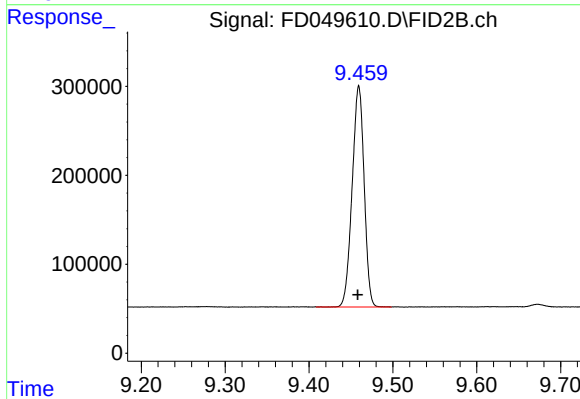
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.579 min
Delta R.T.: 0.000 min
Response: 1416425
Conc: 19.39 ug/ml



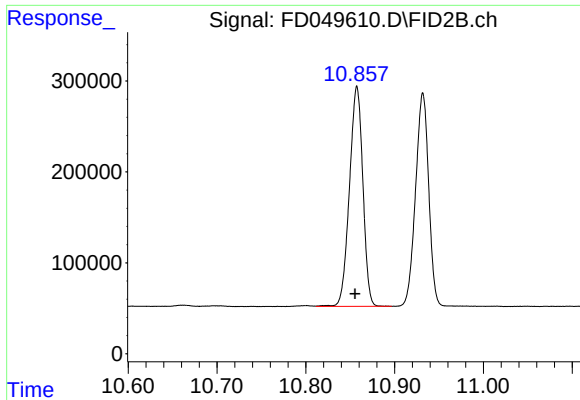
#7 Acenaphthene (C15.5)

R.T.: 8.678 min
Delta R.T.: 0.001 min
Response: 2442527
Conc: 19.43 ug/ml



#8 Fluorene (C16.55)

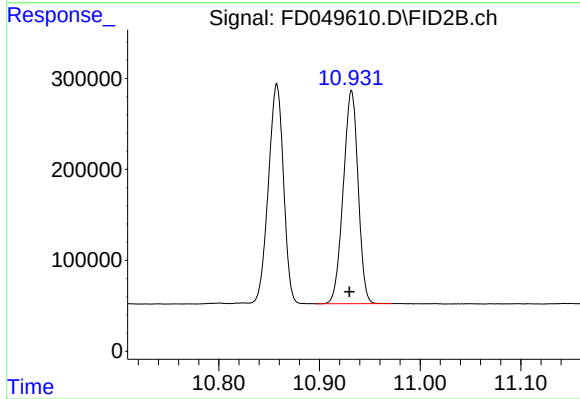
R.T.: 9.459 min
Delta R.T.: 0.001 min
Response: 2466026
Conc: 19.48 ug/ml



#9 Phenanthrene (C19.36)

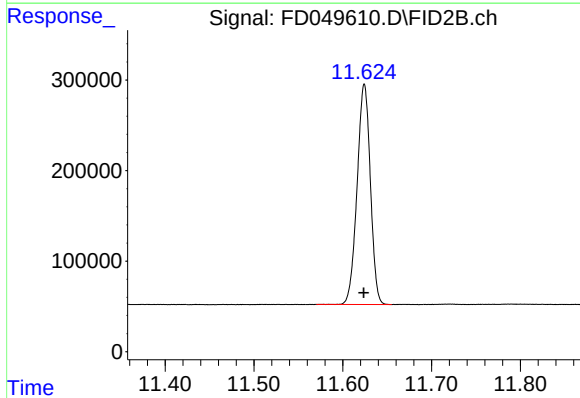
R.T.: 10.858 min
Delta R.T.: 0.002 min
Response: 2532616
Conc: 19.61 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



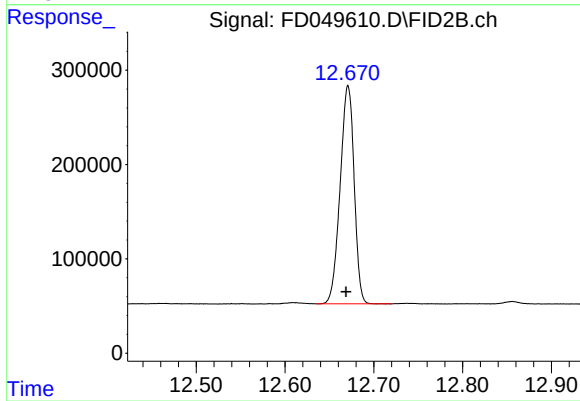
#10 Anthracene (C19.43)

R.T.: 10.932 min
Delta R.T.: 0.002 min
Response: 2405056
Conc: 19.52 ug/ml



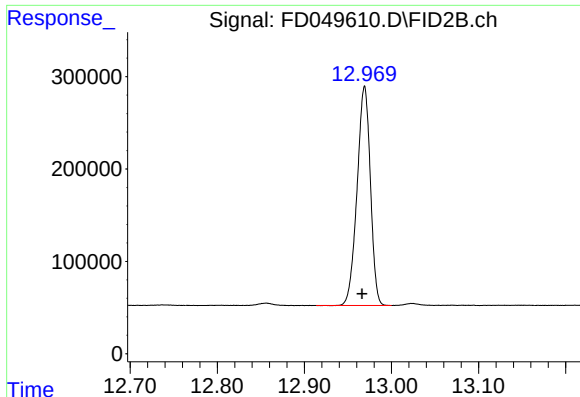
#11 ortho-Terphenyl (SURR)

R.T.: 11.624 min
Delta R.T.: 0.000 min
Response: 2524095
Conc: 19.45 ug/ml



#12 Fluoranthene (C21.85)

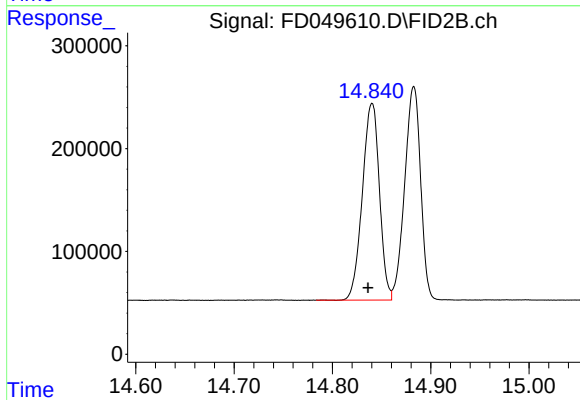
R.T.: 12.671 min
Delta R.T.: 0.002 min
Response: 2533895
Conc: 19.79 ug/ml



#13 Pyrene (C20.8)

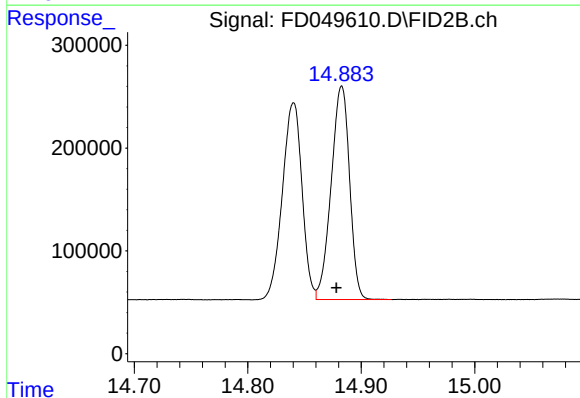
R.T.: 12.969 min
Delta R.T.: 0.003 min
Response: 2519170
Conc: 19.84 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



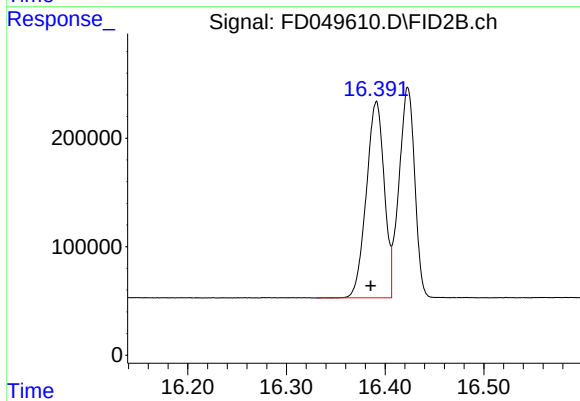
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.840 min
Delta R.T.: 0.004 min
Response: 2306029
Conc: 19.98 ug/ml



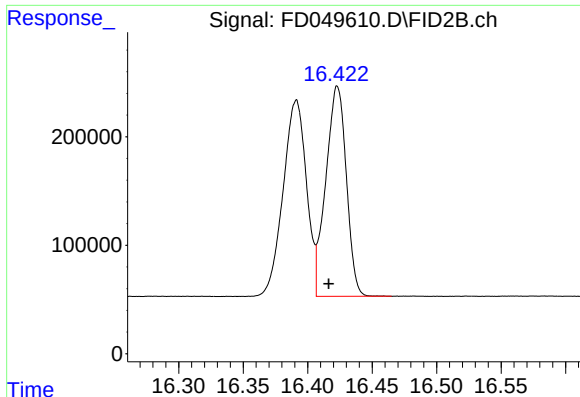
#15 Chrysene (C27.41)

R.T.: 14.883 min
Delta R.T.: 0.005 min
Response: 2341897
Conc: 20.00 ug/ml



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

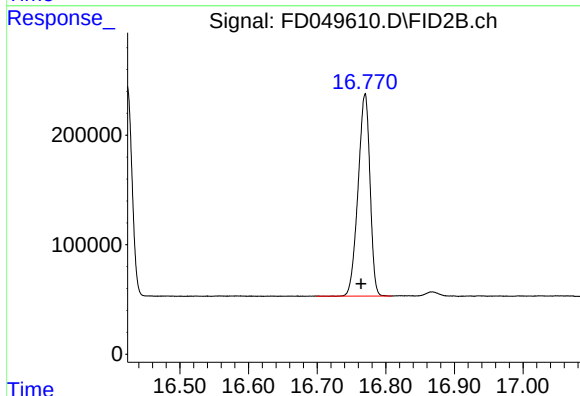
R.T.: 16.391 min
Delta R.T.: 0.006 min
Response: 2277743
Conc: 20.03 ug/ml



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

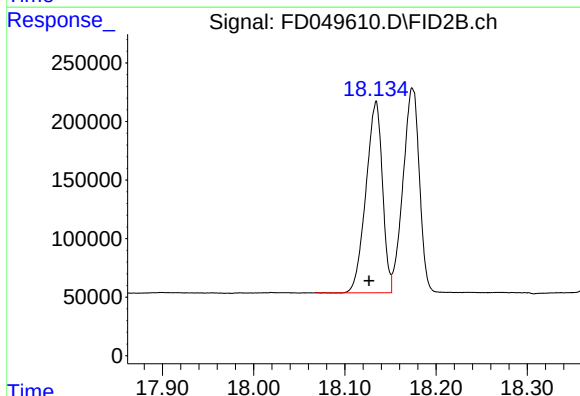
R.T.: 16.423 min
Delta R.T.: 0.007 min
Response: 2148998
Conc: 20.08 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



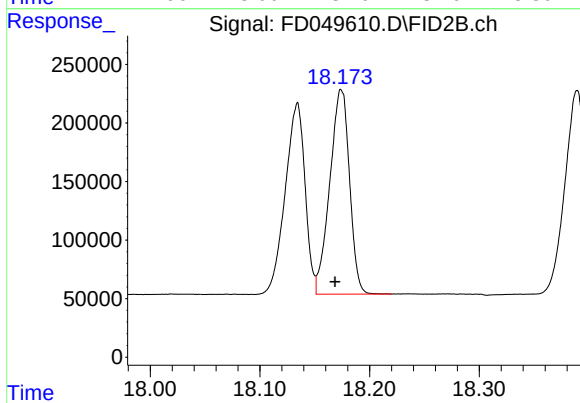
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.770 min
Delta R.T.: 0.006 min
Response: 2225633
Conc: 20.06 ug/ml



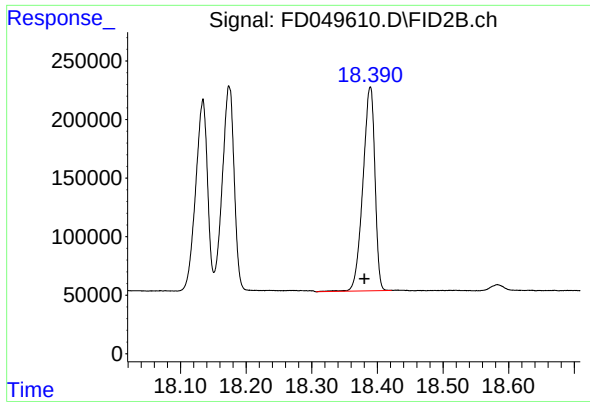
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.134 min
Delta R.T.: 0.008 min
Response: 2048513
Conc: 19.87 ug/ml



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

R.T.: 18.174 min
Delta R.T.: 0.006 min
Response: 2182504
Conc: 20.02 ug/ml



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

R.T.: 18.389 min
Delta R.T.: 0.009 min
Response: 2213783
Conc: 20.26 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD081125AR\
 Data File : FD049610.D
 Signal(s) : FID2B.ch
 Acq On : 11 Aug 2025 14:20
 Sample : 20 PPM AROMATIC HC STD ICV
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.507	4.455	4.545	BB	232408	1969226	77.72%	4.143%
2	6.050	5.998	6.092	BB	251071	2224882	87.80%	4.681%
3	7.104	7.047	7.140	BB	250353	2316479	91.42%	4.874%
4	7.714	7.658	7.755	BB	208160	1993626	78.68%	4.194%
5	8.382	8.330	8.427	BB	253345	2441662	96.36%	5.137%
6	8.579	8.523	8.613	BB	146038	1416425	55.90%	2.980%
7	8.678	8.620	8.708	BB	256974	2442527	96.39%	5.139%
8	9.459	9.408	9.498	BB	248296	2466026	97.32%	5.188%
9	10.858	10.812	10.897	VV	241385	2532616	99.95%	5.328%
10	10.932	10.897	10.972	PB	234713	2405056	94.92%	5.060%
11	11.624	11.570	11.655	BB	243695	2524095	99.61%	5.310%
12	12.671	12.635	12.720	BB	231074	2533895	100.00%	5.331%
13	12.969	12.913	13.000	BV	236843	2519170	99.42%	5.300%
14	14.840	14.783	14.860	BV	191449	2306029	91.01%	4.852%
15	14.883	14.860	14.927	VB	208095	2341897	92.42%	4.927%
16	16.391	16.330	16.407	BV	181654	2277743	89.89%	4.792%
17	16.423	16.407	16.465	VB	193581	2148998	84.81%	4.521%
18	16.770	16.698	16.808	BB	184894	2225633	87.83%	4.683%
19	18.134	18.068	18.151	BV	162549	2048513	80.84%	4.310%
20	18.174	18.151	18.220	VB	175131	2182504	86.13%	4.592%
21	18.389	18.307	18.422	BB	174073	2213783	87.37%	4.658%
Sum of corrected areas:						47530784		

Aromatic EPH 081125.M Mon Aug 11 14:43:00 2025

Initial Calibration Report for SequenceID : FE080125AL

AreaCount

Parameter Range	FE055102.D	FE055103.D	FE055104.D	FE055105.D	FE055106.D	
Aliphatic C9-C12	32408754.000	16891181.000	7003710.000	3577317.000	1909553.000	
Aliphatic C12-C16	23084106.000	11985802.000	4993920.000	2562730.000	1378723.000	
Aliphatic C16-C21	35136636.000	18127790.000	7566457.000	3893517.000	2072383.000	
Aliphatic C21-C28	44556926.000	23024093.000	9601695.000	4948829.000	2645478.000	
Aliphatic C28-C40	61529999.000	31908743.000	13279856.000	7025222.000	3998130.000	
Aliphatic EPH	196716421.000	101937609.000	42445638.000	22007615.000	12004267.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	116782.5973332	6.216				
Aliphatic C12-C16	125227.07	6.84				
Aliphatic C16-C21	126404.887333	6.459				
Aliphatic C21-C28	120505.7185	6.705				
Aliphatic C28-C40	113987.1949996	10.577				
Aliphatic EPH	119220.1465552	7.797				

Concentration

Parameter Range	FE055102.D	FE055103.D	FE055104.D	FE055105.D	FE055106.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	FE055102.D	FE055103.D	FE055104.D	FE055105.D	FE055106.D	
Aliphatic C9-C12	108029.180000	112607.873333	116728.500000	119243.900000	127303.533333	
Aliphatic C12-C16	115420.530000	119858.020000	124848.000000	128136.500000	137872.300000	
Aliphatic C16-C21	117122.120000	120851.933333	126107.616666	129783.900000	138158.866666	

Initial Calibration Report for SequenceID : FE080125AL

Aliphatic C21-C28	111392.315000	115120.465000	120021.187500	123720.725000	132273.900000	
Aliphatic C28-C40	102549.998333	106362.476666	110665.466666	117087.033333	133271.000000	
Aliphatic EPH	109286.900555	113264.010000	117904.550000	122264.527777	133380.744444	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
 Data File : FE055102.D
 Signal(s) : FID1B.ch
 Acq On : 01 Aug 2025 11:24
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Aug 01 12:58:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 QLast Update : Fri Aug 01 12:56:55 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)	12.095	13258959	96.436 ug/ml
Spiked Amount 50.000		Recovery =	192.87%
12) S 1-chlorooctadecane (S...	13.529	10060078	96.779 ug/ml
Spiked Amount 50.000		Recovery =	193.56%
Target Compounds			
1) T n-Nonane (C9)	3.426	10566449	95.907 ug/ml
2) T n-Decane (C10)	4.686	10785569	96.140 ug/ml
3) T A~Naphthalene (C11.7)	6.406	12473805	96.312 ug/ml
4) T n-Dodecane (C12)	6.863	11056736	96.333 ug/ml
5) T A~2-methylnaphthalene...	7.509	12240152	96.717 ug/ml
6) T n-Tetradecane (C14)	8.700	11258265	95.907 ug/ml
7) T n-Hexadecane (C16)	10.316	11825841	96.238 ug/ml
8) T n-Octadecane (C18)	11.768	12080672	96.276 ug/ml
10) T n-Eicosane (C20)	13.081	11630709	96.308 ug/ml
11) T n-Heneicosane (C21)	13.696	11425255	96.335 ug/ml
13) T n-Docosane (C22)	14.284	11344173	96.437 ug/ml
14) T n-Tetracosane (C24)	15.391	11250576	96.251 ug/ml
15) T n-Hexacosane (C26)	16.414	11078971	96.324 ug/ml
16) T n-Octacosane (C28)	17.367	10883206	96.067 ug/ml
17) T n-Tricontane (C30)	18.257	11064265	95.655 ug/ml
18) T n-Dotriacontane (C32)	19.090	10837325	95.887 ug/ml
19) T n-Tetratriacontane (C34)	19.876	10452018	96.017 ug/ml
20) T n-Hexatriacontane (C36)	20.616	9856874	96.586 ug/ml
21) T n-Octatriacontane (C38)	21.400	9704662	96.195 ug/ml
22) T n-Tetracontane (C40)	22.396	9614855	96.961 ug/ml

(f)=RT Delta > 1/2 Window

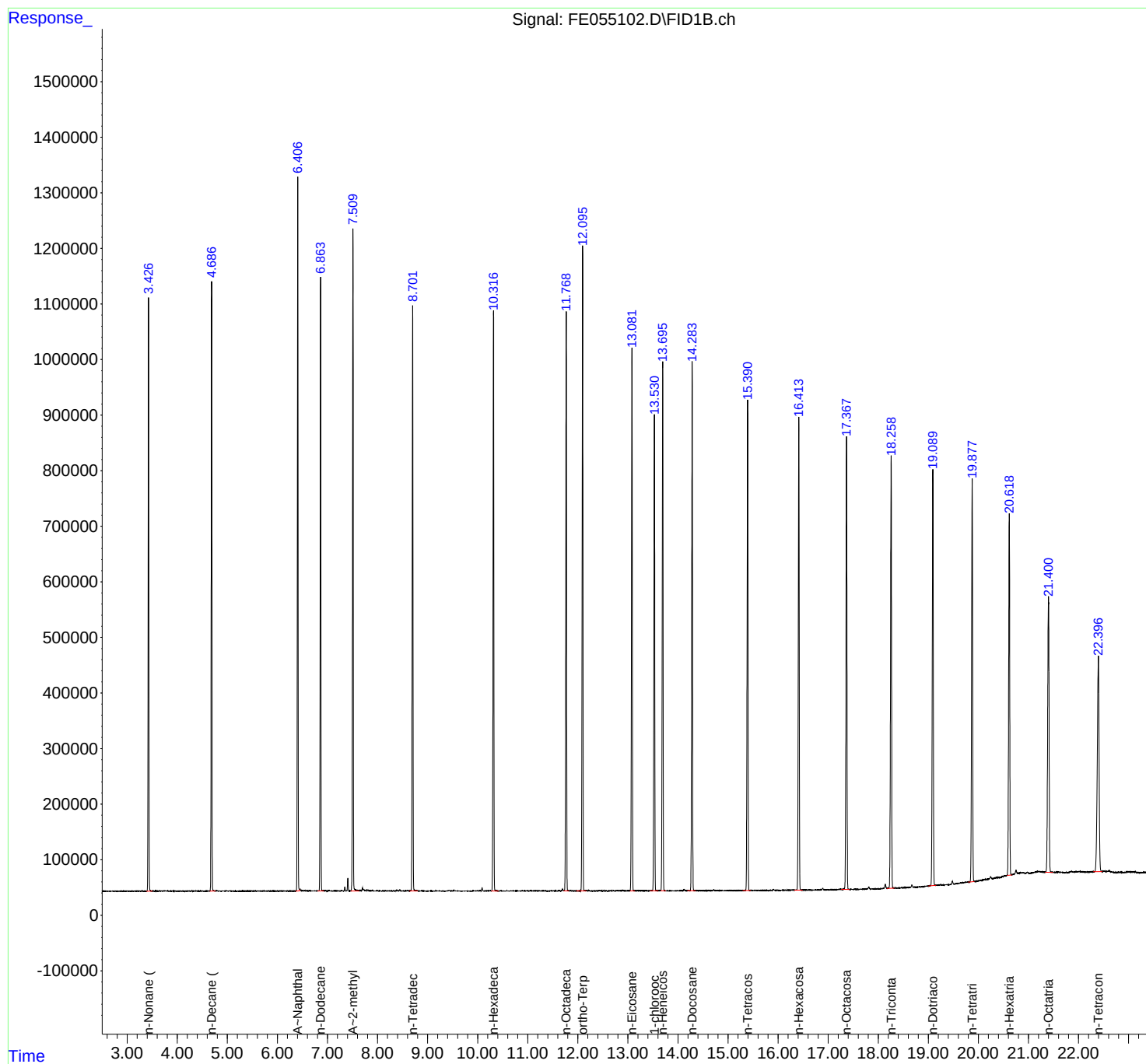
(m)=manual int.

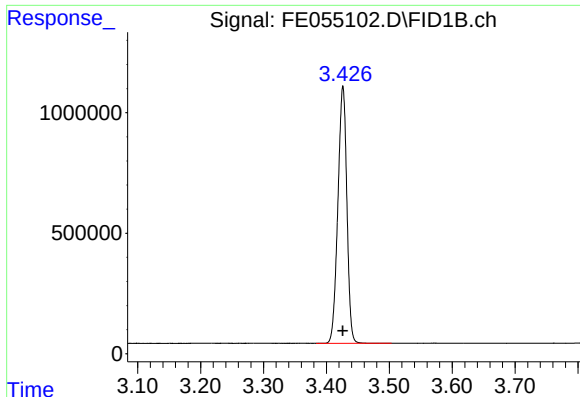
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055102.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 11:24
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Aug 01 12:58:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 12:56:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

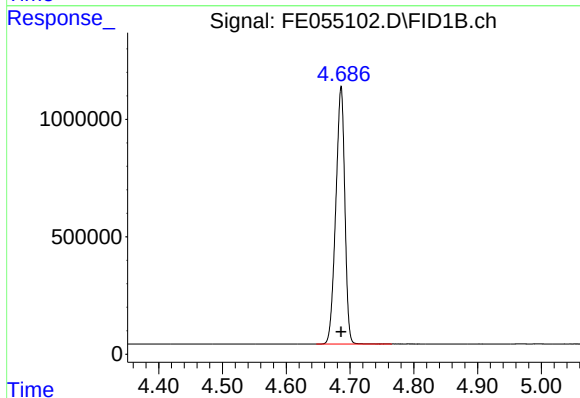




#1 n-Nonane (C9)

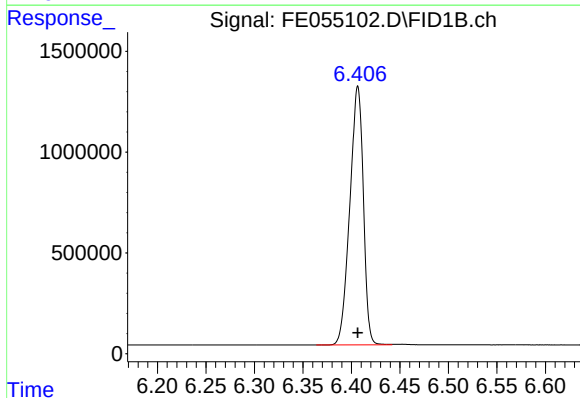
R.T.: 3.426 min
Delta R.T.: 0.000 min
Response: 10566449
Conc: 95.91 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



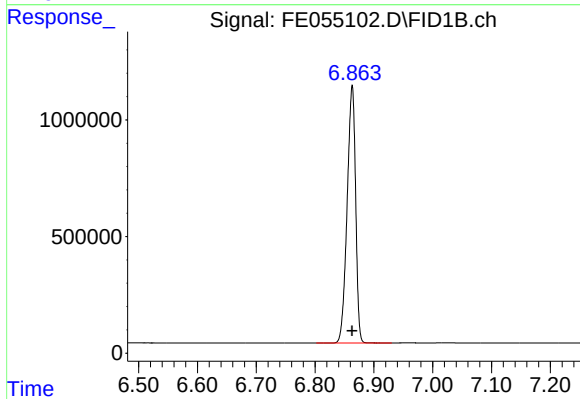
#2 n-Decane (C10)

R.T.: 4.686 min
Delta R.T.: 0.000 min
Response: 10785569
Conc: 96.14 ug/ml



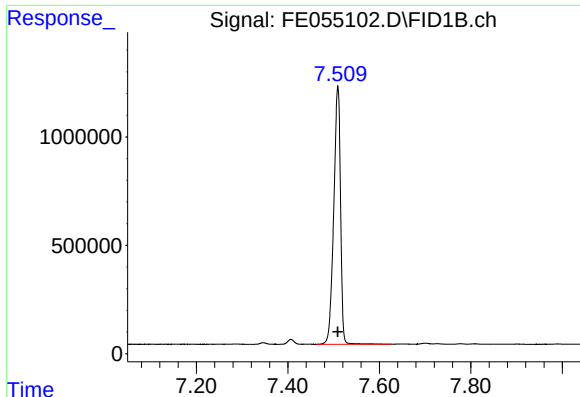
#3 A~Naphthalene (C11.7)

R.T.: 6.406 min
Delta R.T.: 0.000 min
Response: 12473805
Conc: 96.31 ug/ml



#4 n-Dodecane (C12)

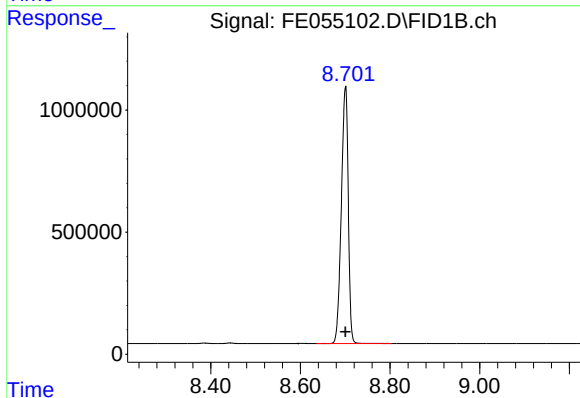
R.T.: 6.863 min
Delta R.T.: 0.000 min
Response: 11056736
Conc: 96.33 ug/ml



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

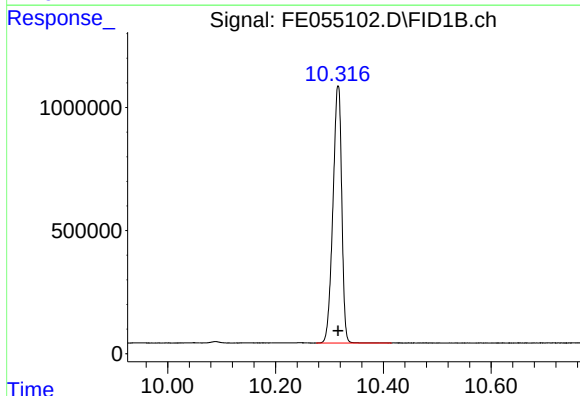
R.T.: 7.509 min
Delta R.T.: 0.000 min
Response: 12240152
Conc: 96.72 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



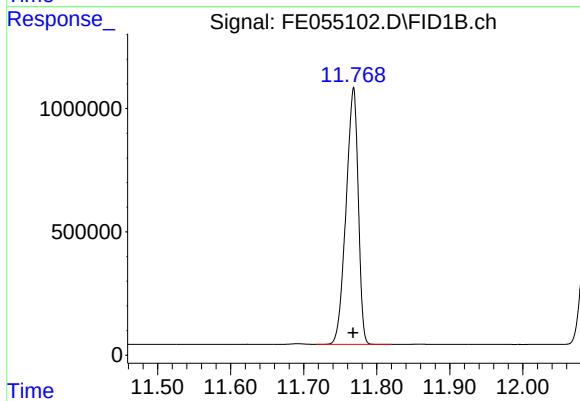
#6 n-Tetradecane (C14)

R.T.: 8.700 min
Delta R.T.: 0.000 min
Response: 11258265
Conc: 95.91 ug/ml



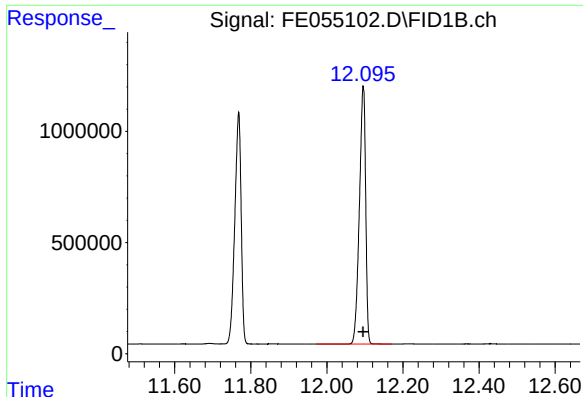
#7 n-Hexadecane (C16)

R.T.: 10.316 min
Delta R.T.: 0.000 min
Response: 11825841
Conc: 96.24 ug/ml



#8 n-Octadecane (C18)

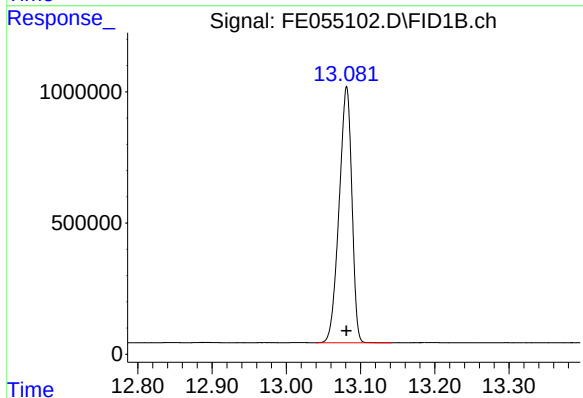
R.T.: 11.768 min
Delta R.T.: 0.000 min
Response: 12080672
Conc: 96.28 ug/ml



#9 ortho-Terphenyl (SURR)

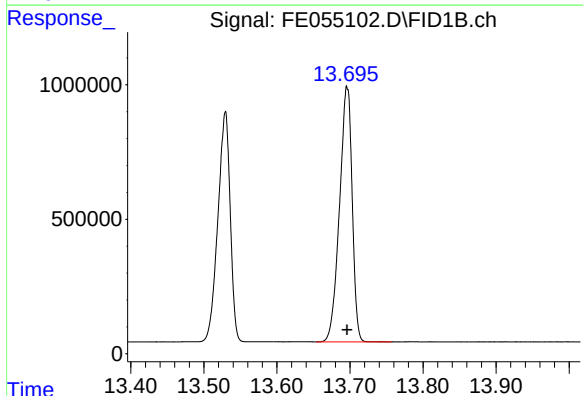
R.T.: 12.095 min
Delta R.T.: 0.000 min
Response: 13258959
Conc: 96.44 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



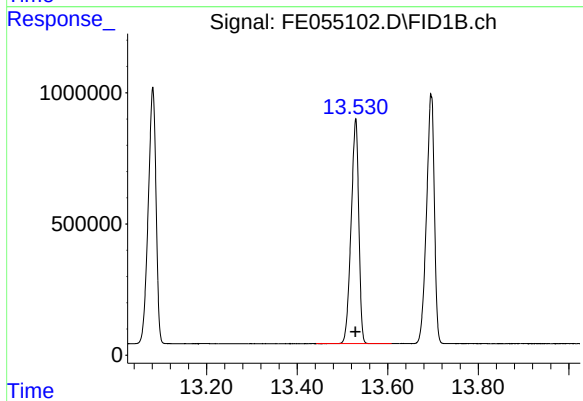
#10 n-Eicosane (C20)

R.T.: 13.081 min
Delta R.T.: 0.000 min
Response: 11630709
Conc: 96.31 ug/ml



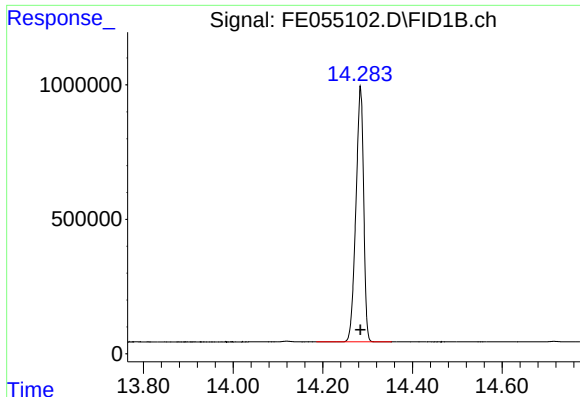
#11 n-Heneicosane (C21)

R.T.: 13.696 min
Delta R.T.: 0.000 min
Response: 11425255
Conc: 96.33 ug/ml



#12 1-chlorooctadecane (SURR)

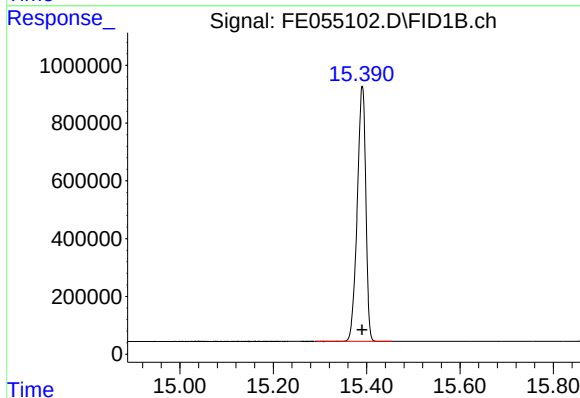
R.T.: 13.529 min
Delta R.T.: 0.000 min
Response: 10060078
Conc: 96.78 ug/ml



#13 n-Docosane (C22)

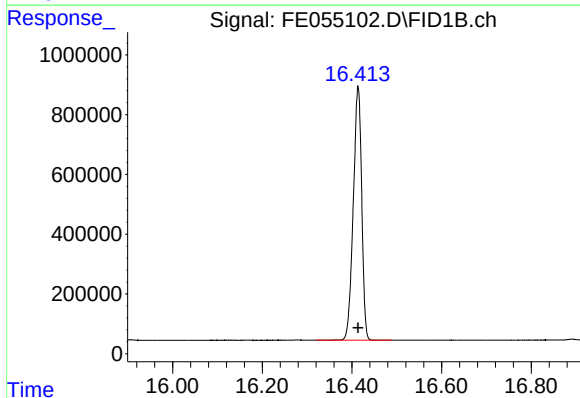
R.T.: 14.284 min
Delta R.T.: 0.000 min
Response: 11344173
Conc: 96.44 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



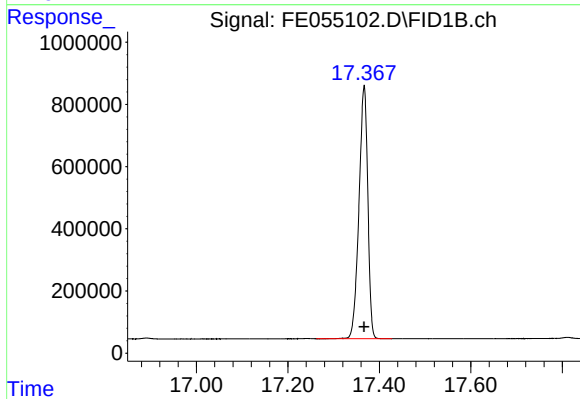
#14 n-Tetracosane (C24)

R.T.: 15.391 min
Delta R.T.: 0.000 min
Response: 11250576
Conc: 96.25 ug/ml



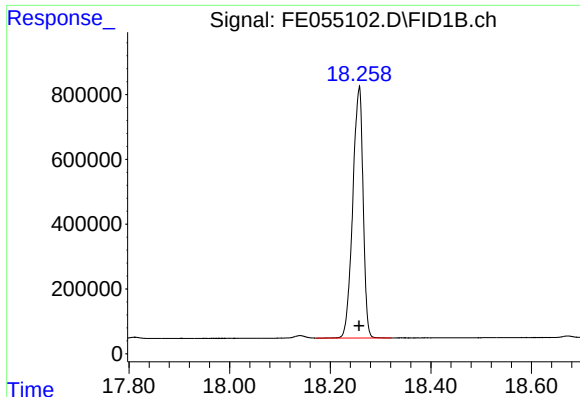
#15 n-Hexacosane (C26)

R.T.: 16.414 min
Delta R.T.: 0.000 min
Response: 11078971
Conc: 96.32 ug/ml



#16 n-Octacosane (C28)

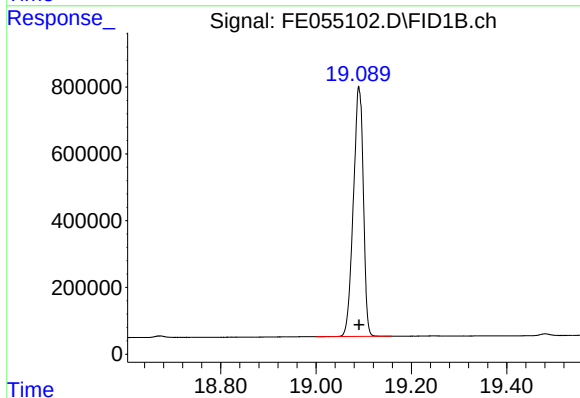
R.T.: 17.367 min
Delta R.T.: 0.000 min
Response: 10883206
Conc: 96.07 ug/ml



#17 n-Tricontane (C30)

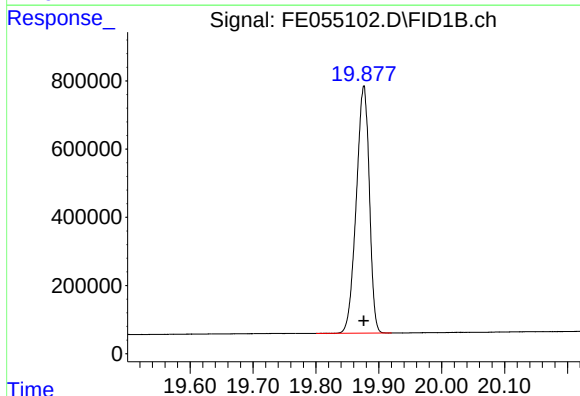
R.T.: 18.257 min
Delta R.T.: 0.000 min
Response: 11064265
Conc: 95.65 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



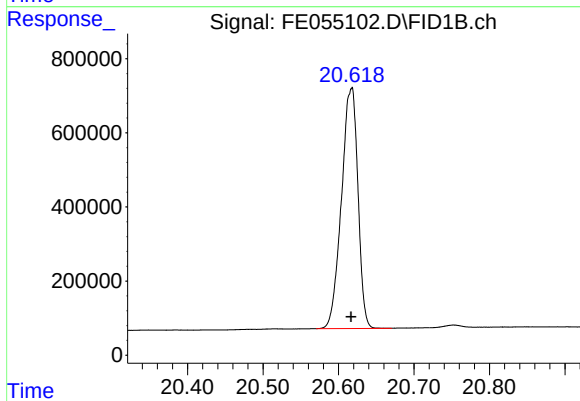
#18 n-Dotriacontane (C32)

R.T.: 19.090 min
Delta R.T.: 0.000 min
Response: 10837325
Conc: 95.89 ug/ml



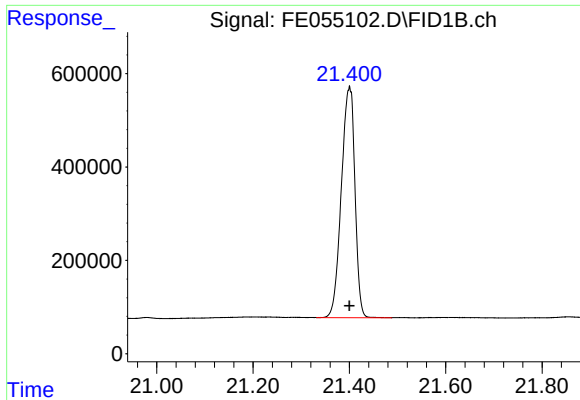
#19 n-Tetratriacontane (C34)

R.T.: 19.876 min
Delta R.T.: 0.000 min
Response: 10452018
Conc: 96.02 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.616 min
Delta R.T.: 0.000 min
Response: 9856874
Conc: 96.59 ug/ml



#21 n-Octatriacontane (C38)

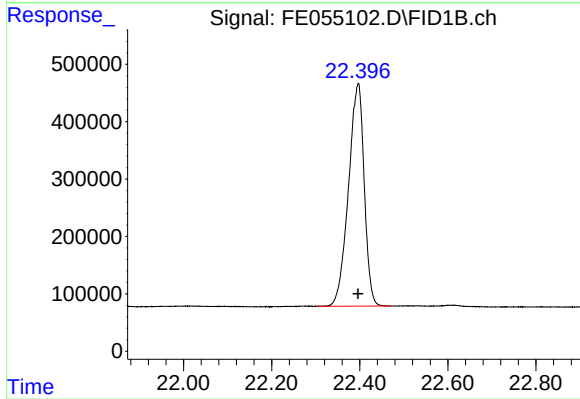
R.T.: 21.400 min
Delta R.T.: 0.000 min
Response: 9704662
Conc: 96.20 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.396 min
Delta R.T.: 0.000 min
Response: 9614855
Conc: 96.96 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055102.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 11:24
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.426	3.384	3.504	BB	1070986	10566449	79.69%	4.317%
2	4.686	4.647	4.765	BB	1091801	10785569	81.35%	4.407%
3	6.406	6.364	6.441	BV	1287901	12473805	94.08%	5.097%
4	6.863	6.802	6.930	BB	1111094	11056736	83.39%	4.518%
5	7.509	7.462	7.627	BV	1186565	12240152	92.32%	5.001%
6	8.700	8.635	8.804	BB	1051624	11258265	84.91%	4.600%
7	10.316	10.275	10.415	PB	1047662	11825841	89.19%	4.832%
8	11.768	11.717	11.820	VB	1049537	12080672	91.11%	4.936%
9	12.095	11.972	12.170	BB	1162473	13258959	100.00%	5.417%
10	13.081	13.040	13.142	PB	976332	11630709	87.72%	4.752%
11	13.529	13.442	13.609	BB	855859	10060078	75.87%	4.110%
12	13.696	13.654	13.757	PB	952985	11425255	86.17%	4.668%
13	14.284	14.185	14.354	BB	950759	11344173	85.56%	4.635%
14	15.391	15.292	15.454	BB	884285	11250576	84.85%	4.597%
15	16.414	16.320	16.489	BB	851287	11078971	83.56%	4.527%
16	17.367	17.262	17.427	BV	815166	10883206	82.08%	4.447%
17	18.257	18.172	18.322	VV	769818	11064265	83.45%	4.521%
18	19.090	19.000	19.159	BB	743160	10837325	81.74%	4.428%
19	19.876	19.800	19.920	BV	723914	10452018	78.83%	4.270%
20	20.617	20.570	20.670	BV	647925	9856874	74.34%	4.027%
21	21.400	21.331	21.488	BV	493523	9704662	73.19%	3.965%
22	22.396	22.301	22.472	BV	390989	9614855	72.52%	3.928%
Sum of corrected areas:						244749413		

Aliphatic EPH 080125.M Fri Aug 01 15:06:37 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
 Data File : FE055103.D
 Signal(s) : FID1B.ch
 Acq On : 01 Aug 2025 11:54
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Aug 01 13:00:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 QLast Update : Fri Aug 01 12:56:55 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)	12.090	6842277	49.844 ug/ml
Spiked Amount 50.000		Recovery =	99.69%
12) S 1-chlorooctadecane (S...	13.525	5171408	49.833 ug/ml
Spiked Amount 50.000		Recovery =	99.67%
Target Compounds			
1) T n-Nonane (C9)	3.424	5514791	50.037 ug/ml
2) T n-Decane (C10)	4.683	5622532	50.078 ug/ml
3) T A~Naphthalene (C11.7)	6.403	6498529	50.117 ug/ml
4) T n-Dodecane (C12)	6.859	5753858	50.087 ug/ml
5) T A~2-methylnaphthalene...	7.505	6326213	49.992 ug/ml
6) T n-Tetradecane (C14)	8.697	5858546	49.938 ug/ml
7) T n-Hexadecane (C16)	10.312	6127256	49.909 ug/ml
8) T n-Octadecane (C18)	11.763	6239947	49.819 ug/ml
10) T n-Eicosane (C20)	13.077	5995916	49.766 ug/ml
11) T n-Heneicosane (C21)	13.691	5891927	49.786 ug/ml
13) T n-Docosane (C22)	14.280	5850962	49.826 ug/ml
14) T n-Tetracosane (C24)	15.386	5809853	49.802 ug/ml
15) T n-Hexacosane (C26)	16.410	5728334	49.869 ug/ml
16) T n-Octacosane (C28)	17.363	5634944	49.826 ug/ml
17) T n-Tricontane (C30)	18.252	5744409	49.775 ug/ml
18) T n-Dotriacontane (C32)	19.086	5642852	49.951 ug/ml
19) T n-Tetratriacontane (C34)	19.872	5420838	49.865 ug/ml
20) T n-Hexatriacontane (C36)	20.611	5110739	50.053 ug/ml
21) T n-Octatriacontane (C38)	21.394	5015684	49.811 ug/ml
22) T n-Tetracontane (C40)	22.388	4974221	50.108 ug/ml

(f)=RT Delta > 1/2 Window

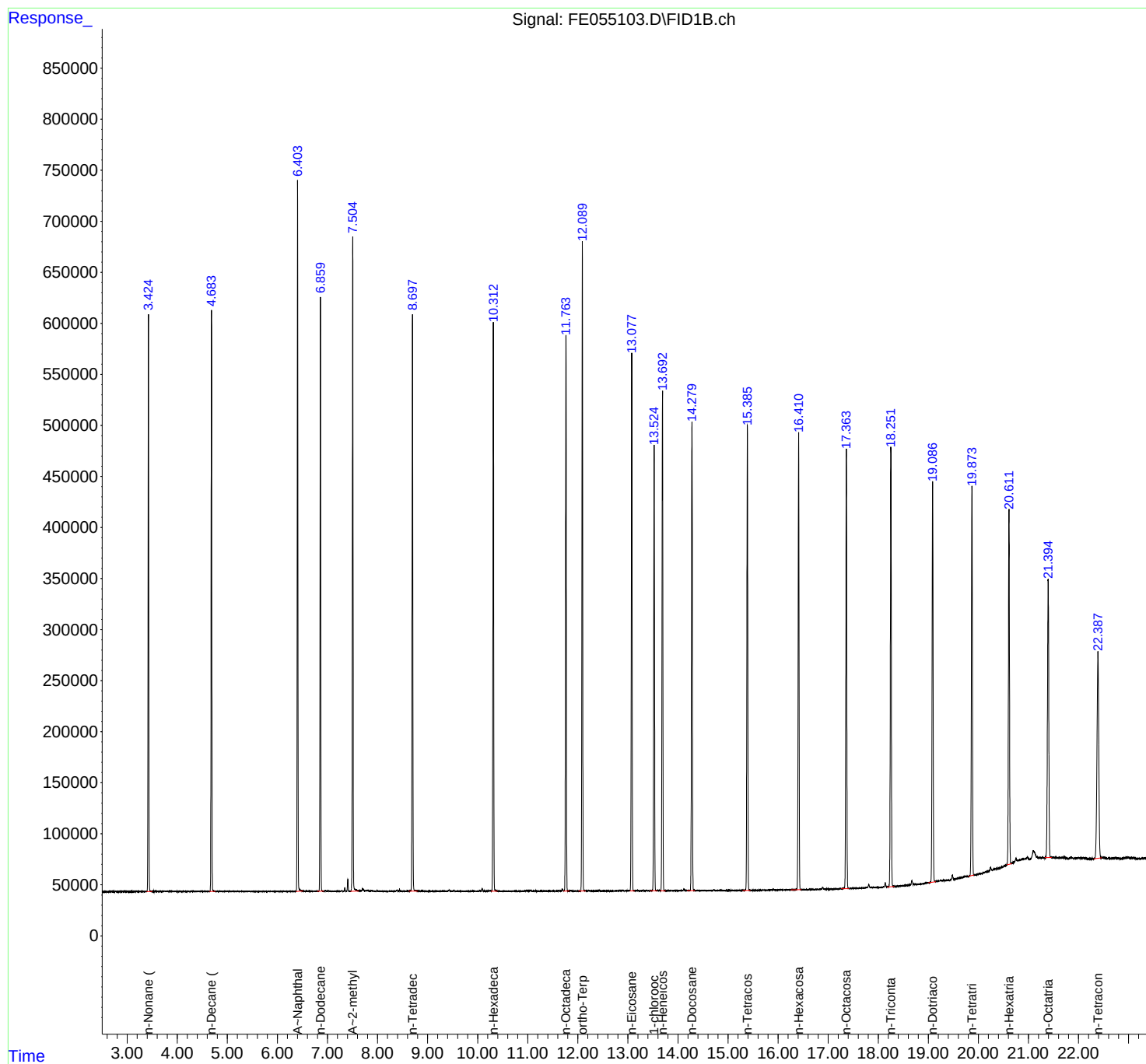
(m)=manual int.

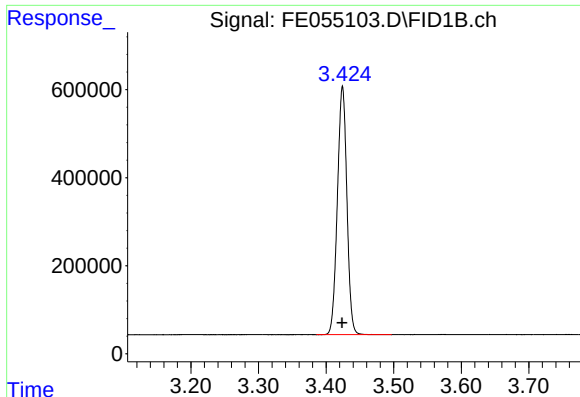
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055103.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 11:54
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Aug 01 13:00:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 12:56:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

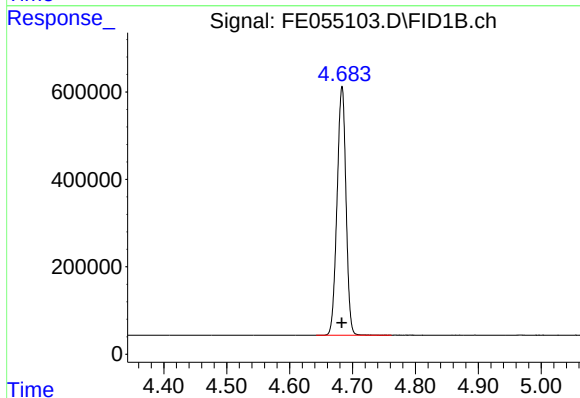




#1 n-Nonane (C9)

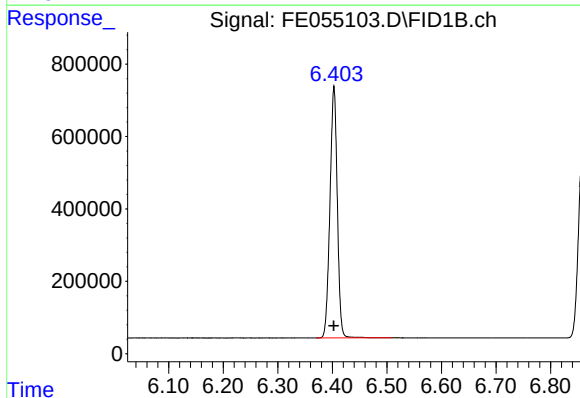
R.T.: 3.424 min
Delta R.T.: 0.000 min
Response: 5514791
Conc: 50.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



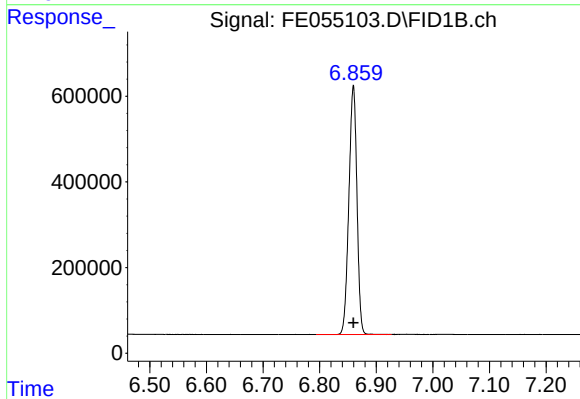
#2 n-Decane (C10)

R.T.: 4.683 min
Delta R.T.: 0.000 min
Response: 5622532
Conc: 50.08 ug/ml



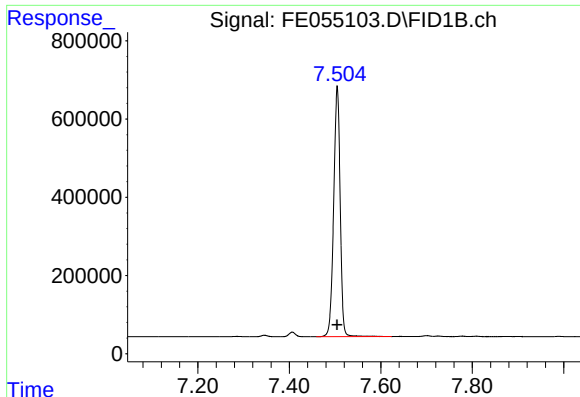
#3 A~Naphthalene (C11.7)

R.T.: 6.403 min
Delta R.T.: 0.000 min
Response: 6498529
Conc: 50.12 ug/ml



#4 n-Dodecane (C12)

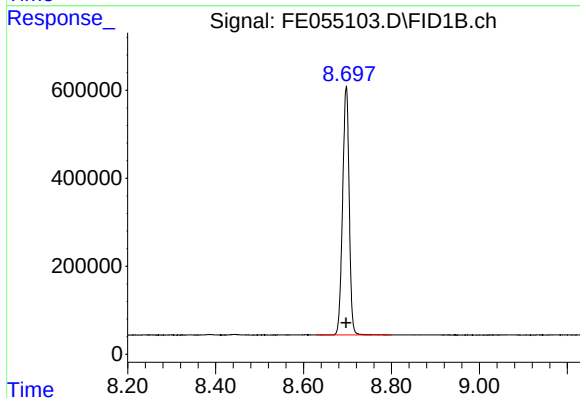
R.T.: 6.859 min
Delta R.T.: 0.000 min
Response: 5753858
Conc: 50.09 ug/ml



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

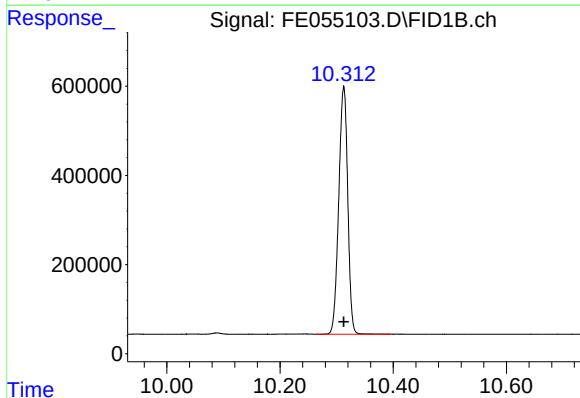
R.T.: 7.505 min
Delta R.T.: 0.000 min
Response: 6326213
Conc: 49.99 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



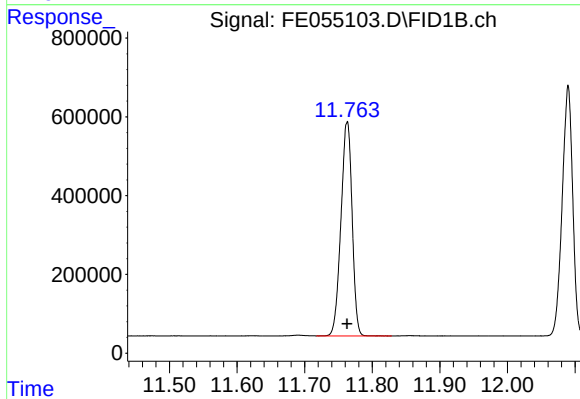
#6 n-Tetradecane (C14)

R.T.: 8.697 min
Delta R.T.: 0.000 min
Response: 5858546
Conc: 49.94 ug/ml



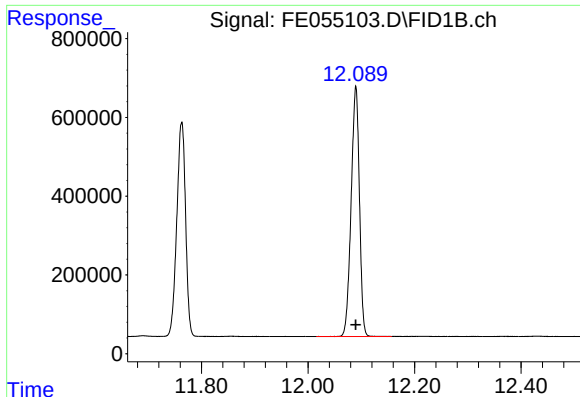
#7 n-Hexadecane (C16)

R.T.: 10.312 min
Delta R.T.: 0.000 min
Response: 6127256
Conc: 49.91 ug/ml



#8 n-Octadecane (C18)

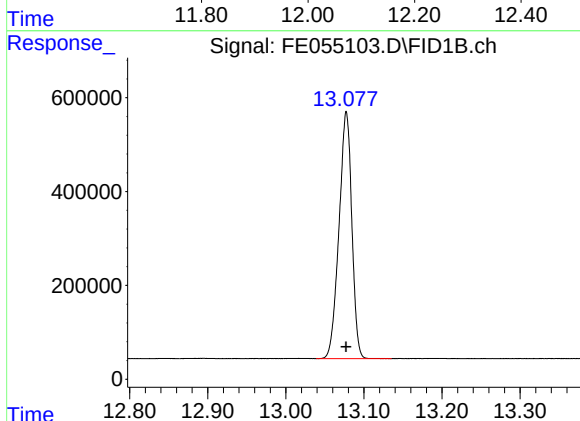
R.T.: 11.763 min
Delta R.T.: 0.000 min
Response: 6239947
Conc: 49.82 ug/ml



#9 ortho-Terphenyl (SURR)

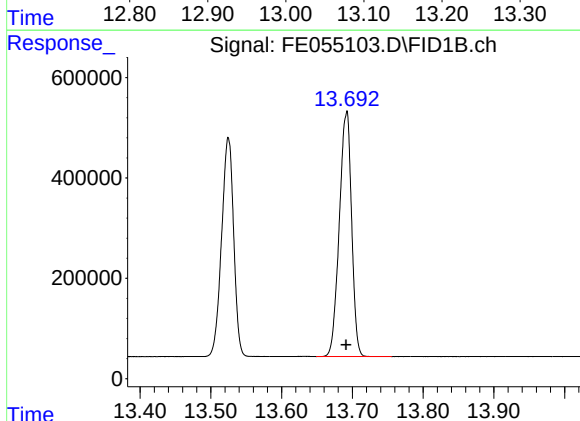
R.T.: 12.090 min
Delta R.T.: 0.000 min
Response: 6842277
Conc: 49.84 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



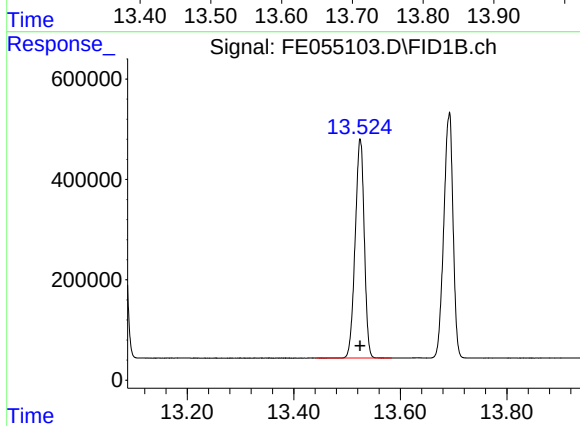
#10 n-Eicosane (C20)

R.T.: 13.077 min
Delta R.T.: 0.000 min
Response: 5995916
Conc: 49.77 ug/ml



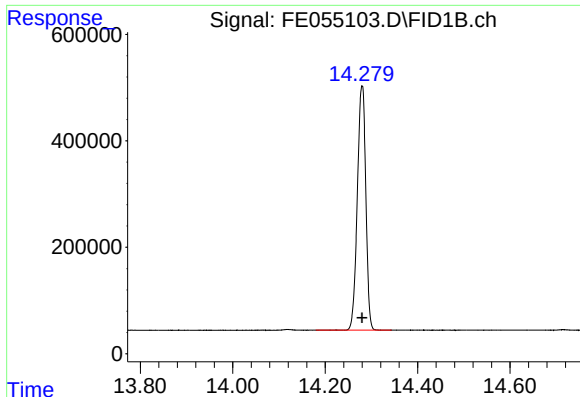
#11 n-Heneicosane (C21)

R.T.: 13.691 min
Delta R.T.: 0.000 min
Response: 5891927
Conc: 49.79 ug/ml



#12 1-chlorooctadecane (SURR)

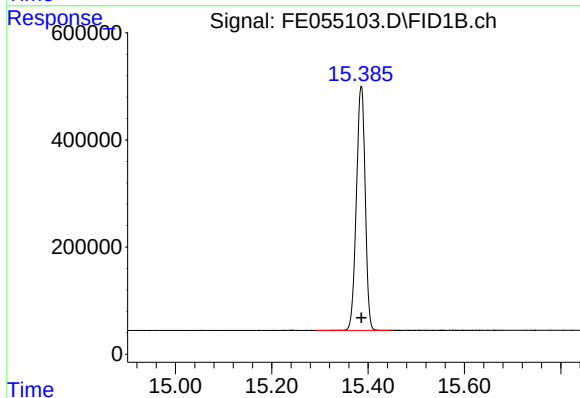
R.T.: 13.525 min
Delta R.T.: 0.000 min
Response: 5171408
Conc: 49.83 ug/ml



#13 n-Docosane (C22)

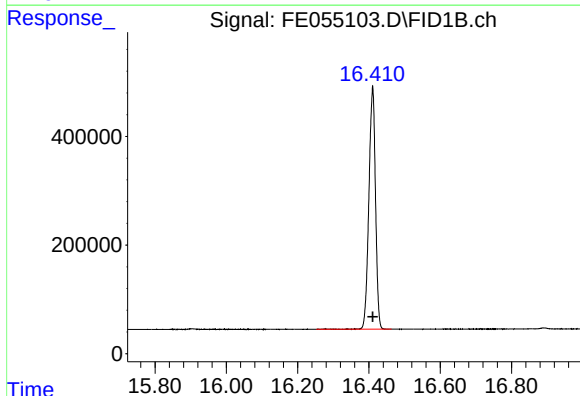
R.T.: 14.280 min
Delta R.T.: 0.000 min
Response: 5850962
Conc: 49.83 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



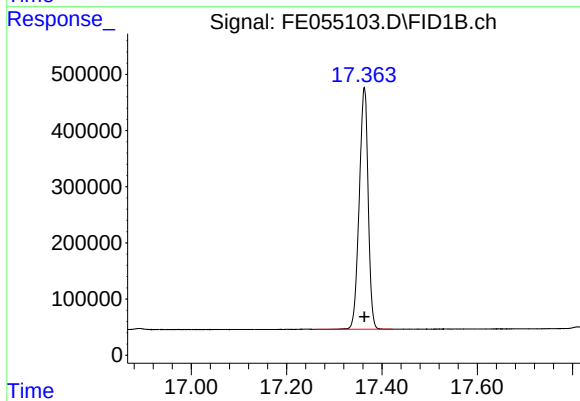
#14 n-Tetracosane (C24)

R.T.: 15.386 min
Delta R.T.: 0.000 min
Response: 5809853
Conc: 49.80 ug/ml



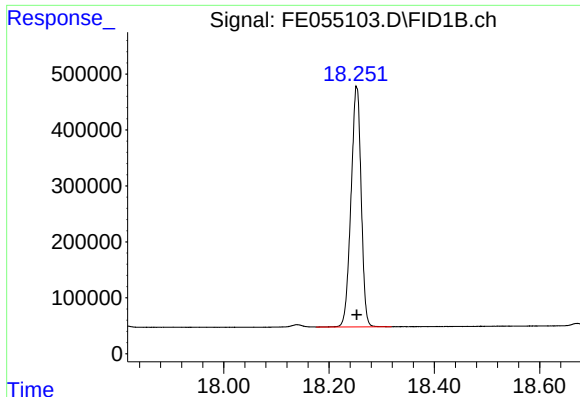
#15 n-Hexacosane (C26)

R.T.: 16.410 min
Delta R.T.: 0.000 min
Response: 5728334
Conc: 49.87 ug/ml



#16 n-Octacosane (C28)

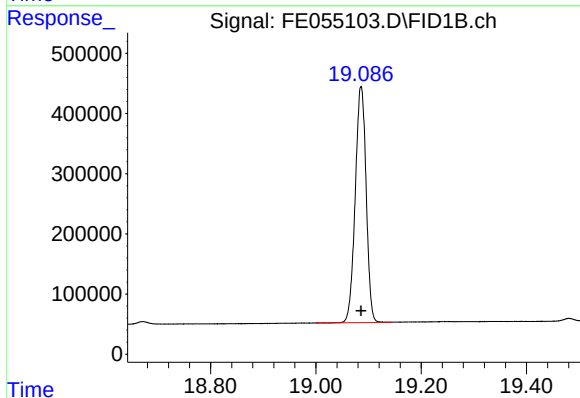
R.T.: 17.363 min
Delta R.T.: 0.000 min
Response: 5634944
Conc: 49.83 ug/ml



#17 n-Tricontane (C30)

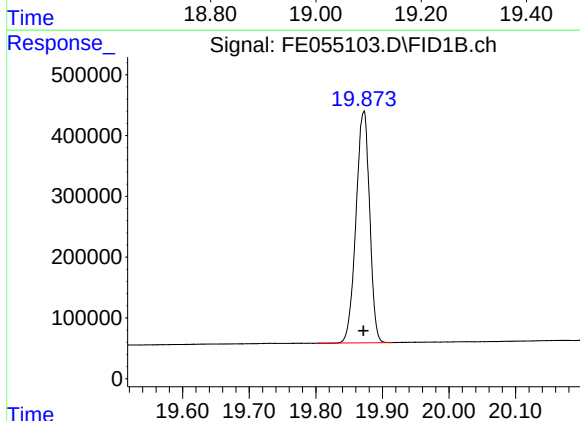
R.T.: 18.252 min
Delta R.T.: 0.000 min
Response: 5744409
Conc: 49.77 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



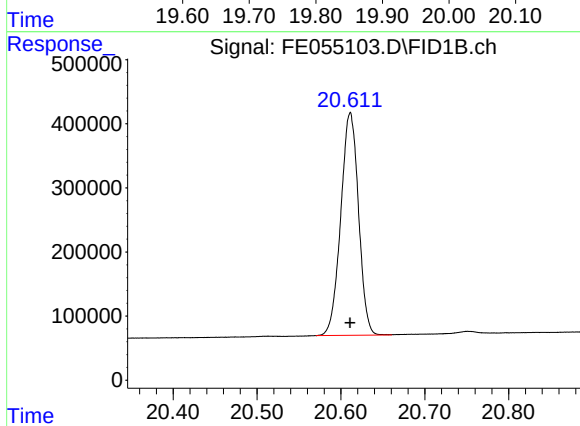
#18 n-Dotriacontane (C32)

R.T.: 19.086 min
Delta R.T.: 0.000 min
Response: 5642852
Conc: 49.95 ug/ml



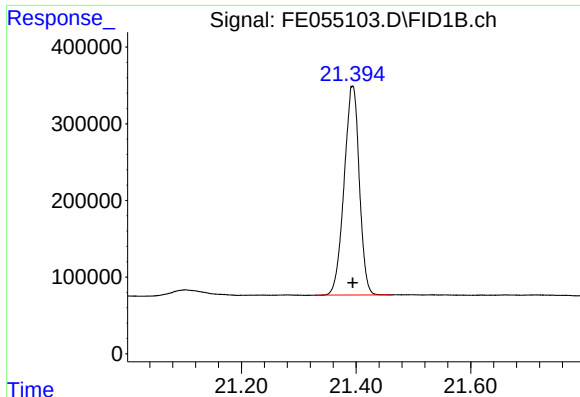
#19 n-Tetratriacontane (C34)

R.T.: 19.872 min
Delta R.T.: 0.000 min
Response: 5420838
Conc: 49.87 ug/ml



#20 n-Hexatriacontane (C36)

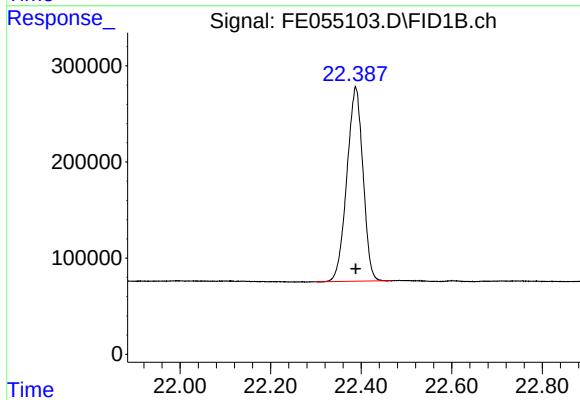
R.T.: 20.611 min
Delta R.T.: 0.000 min
Response: 5110739
Conc: 50.05 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.394 min
Delta R.T.: 0.000 min
Response: 5015684
Conc: 49.81 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.388 min
Delta R.T.: 0.000 min
Response: 4974221
Conc: 50.11 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055103.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 11:54
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.424	3.385	3.497	BB	563993	5514791	80.60%	4.350%
2	4.683	4.642	4.762	BB	572237	5622532	82.17%	4.435%
3	6.403	6.370	6.509	BB	697210	6498529	94.98%	5.126%
4	6.859	6.794	6.927	BB	579388	5753858	84.09%	4.539%
5	7.505	7.459	7.624	BV	640818	6326213	92.46%	4.990%
6	8.697	8.629	8.800	BB	563836	5858546	85.62%	4.621%
7	10.312	10.264	10.397	PB	554501	6127256	89.55%	4.833%
8	11.763	11.717	11.829	VB	543106	6239947	91.20%	4.922%
9	12.090	12.015	12.157	BB	638056	6842277	100.00%	5.397%
10	13.077	13.039	13.135	PB	527247	5995916	87.63%	4.730%
11	13.525	13.442	13.584	BB	435482	5171408	75.58%	4.079%
12	13.691	13.649	13.755	PB	488862	5891927	86.11%	4.648%
13	14.280	14.180	14.344	BB	459818	5850962	85.51%	4.615%
14	15.386	15.292	15.449	BB	456155	5809853	84.91%	4.583%
15	16.410	16.252	16.464	BB	448448	5728334	83.72%	4.518%
16	17.363	17.262	17.420	BB	429672	5634944	82.35%	4.445%
17	18.252	18.175	18.319	PB	429799	5744409	83.95%	4.531%
18	19.086	19.000	19.144	BV	392159	5642852	82.47%	4.451%
19	19.872	19.800	19.914	BV	380396	5420838	79.23%	4.276%
20	20.611	20.570	20.660	BV	346747	5110739	74.69%	4.031%
21	21.394	21.330	21.462	BB	272074	5015684	73.30%	3.956%
22	22.388	22.300	22.467	BV	202367	4974221	72.70%	3.924%
Sum of corrected areas:						126776034		

Aliphatic EPH 080125.M Fri Aug 01 15:05:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
 Data File : FE055104.D
 Signal(s) : FID1B.ch
 Acq On : 01 Aug 2025 12:25
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Aug 01 12:57:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 12:56:55 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)	12.087	2847777	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.522	2145943	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.423	2293663	20.000 ug/ml
2) T n-Decane (C10)	4.682	2330344	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.401	2685834	20.000 ug/ml
4) T n-Dodecane (C12)	6.857	2379703	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.502	2614202	20.000 ug/ml
6) T n-Tetradecane (C14)	8.695	2443850	20.000 ug/ml
7) T n-Hexadecane (C16)	10.310	2550070	20.000 ug/ml
8) T n-Octadecane (C18)	11.759	2603047	20.000 ug/ml
10) T n-Eicosane (C20)	13.074	2504470	20.000 ug/ml
11) T n-Heneicosane (C21)	13.688	2458940	20.000 ug/ml
13) T n-Docosane (C22)	14.277	2436487	20.000 ug/ml
14) T n-Tetracosane (C24)	15.383	2425424	20.000 ug/ml
15) T n-Hexacosane (C26)	16.407	2384923	20.000 ug/ml
16) T n-Octacosane (C28)	17.359	2354861	20.000 ug/ml
17) T n-Tricontane (C30)	18.249	2413903	20.000 ug/ml
18) T n-Dotriacontane (C32)	19.083	2353404	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.868	2263836	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.609	2110743	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.389	2094471	20.000 ug/ml
22) T n-Tetracontane (C40)	22.384	2043499	20.000 ug/ml

(f)=RT Delta > 1/2 Window

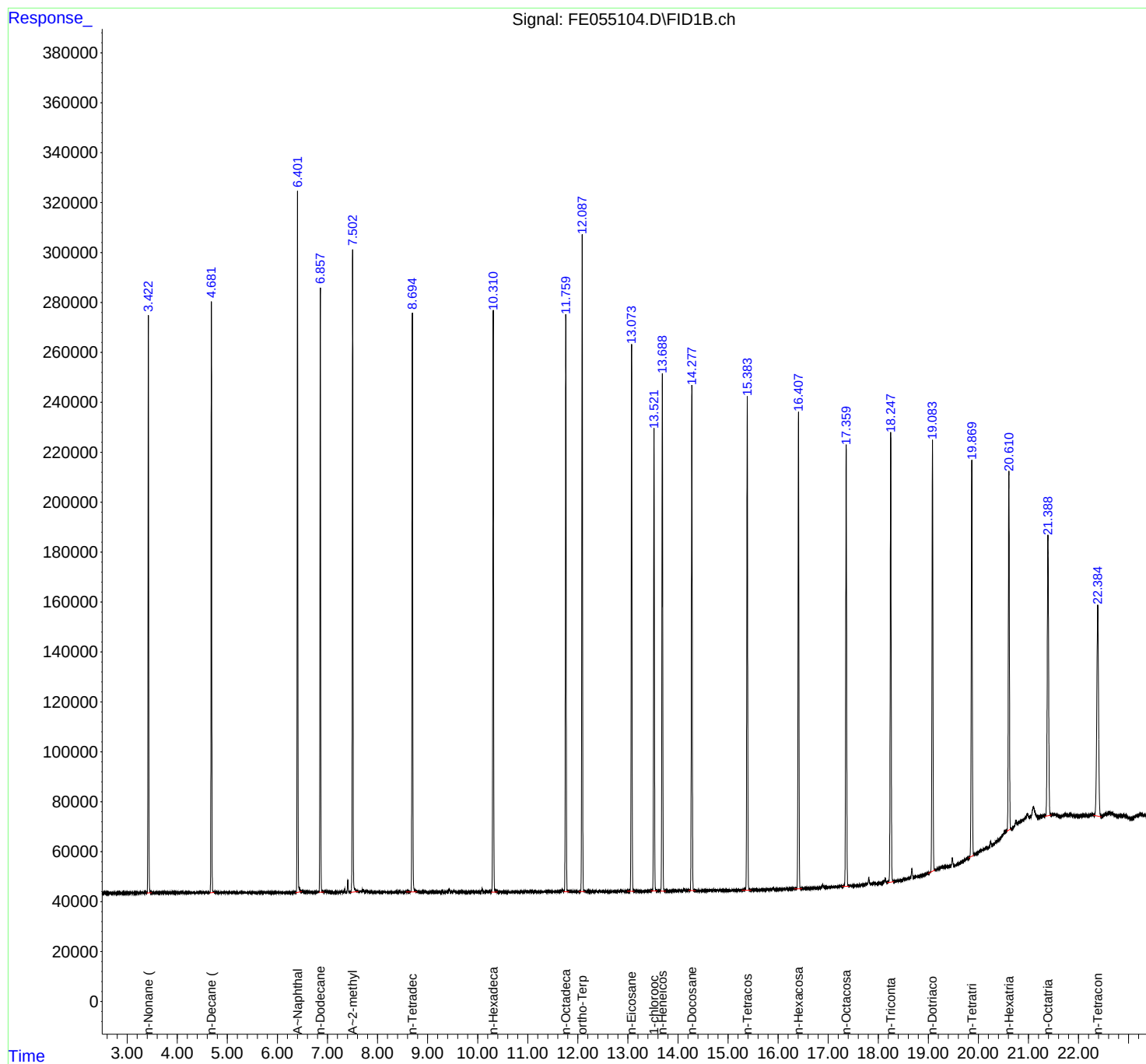
(m)=manual int.

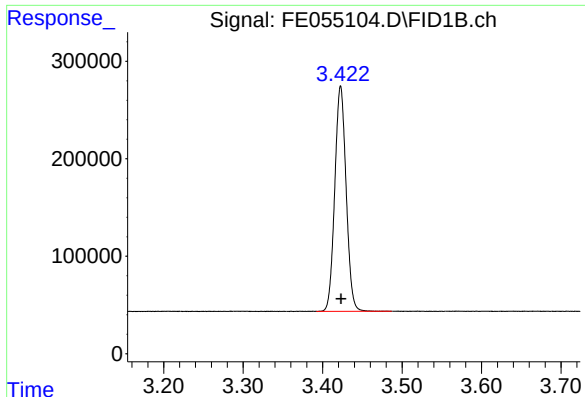
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055104.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 12:25
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Aug 01 12:57:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 12:56:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

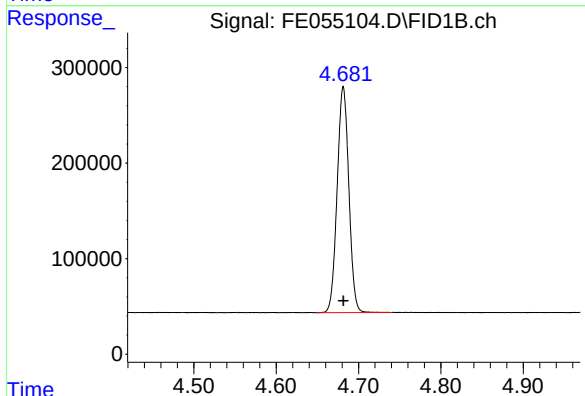




#1 n-Nonane (C9)

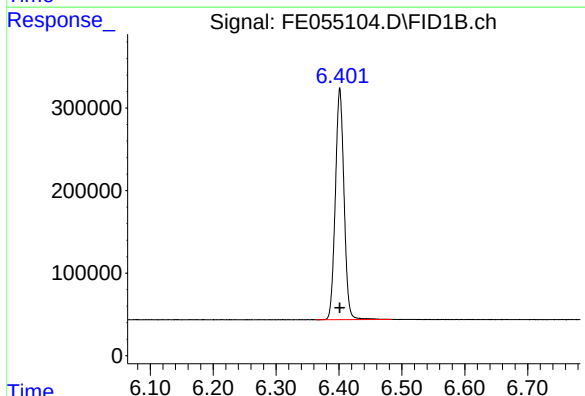
R.T.: 3.423 min
Delta R.T.: 0.000 min
Response: 2293663
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



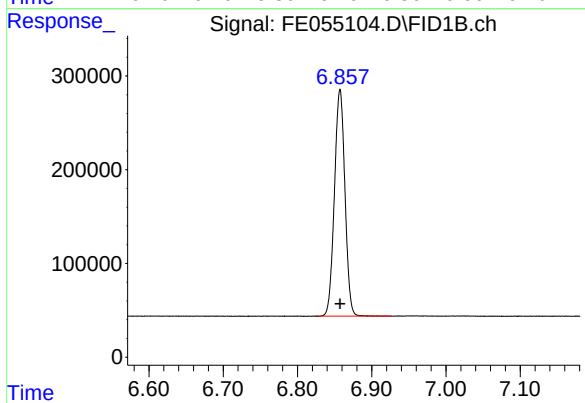
#2 n-Decane (C10)

R.T.: 4.682 min
Delta R.T.: 0.000 min
Response: 2330344
Conc: 20.00 ug/ml



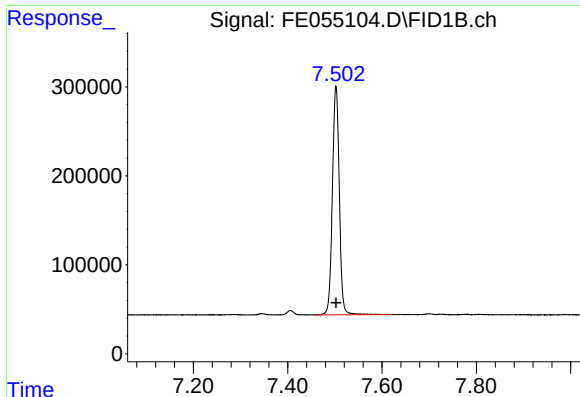
#3 A~Naphthalene (C11.7)

R.T.: 6.401 min
Delta R.T.: 0.000 min
Response: 2685834
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

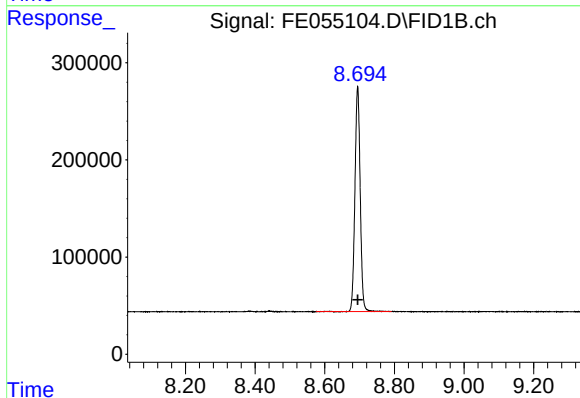
R.T.: 6.857 min
Delta R.T.: 0.000 min
Response: 2379703
Conc: 20.00 ug/ml



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

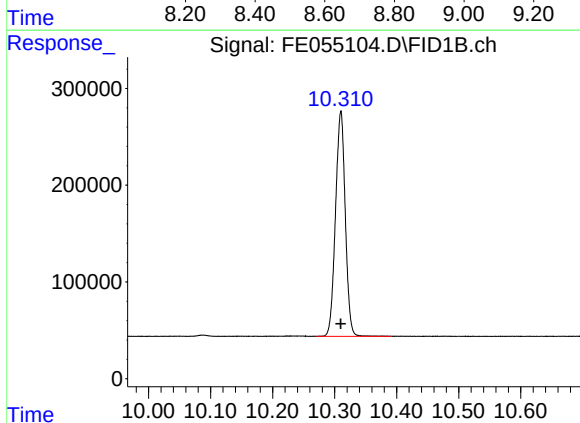
R.T.: 7.502 min
Delta R.T.: 0.000 min
Response: 2614202
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



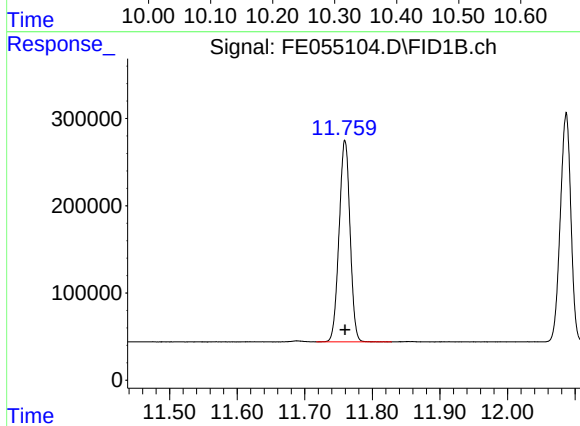
#6 n-Tetradecane (C14)

R.T.: 8.695 min
Delta R.T.: 0.000 min
Response: 2443850
Conc: 20.00 ug/ml



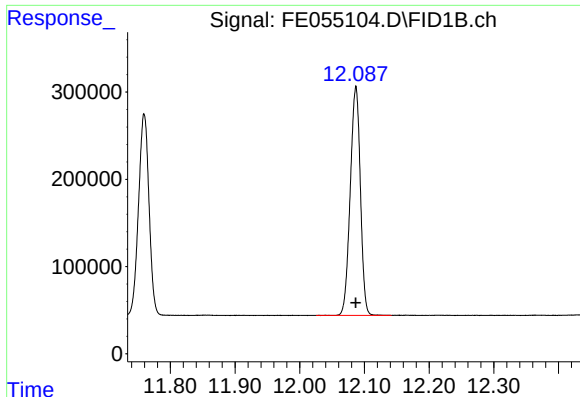
#7 n-Hexadecane (C16)

R.T.: 10.310 min
Delta R.T.: 0.000 min
Response: 2550070
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

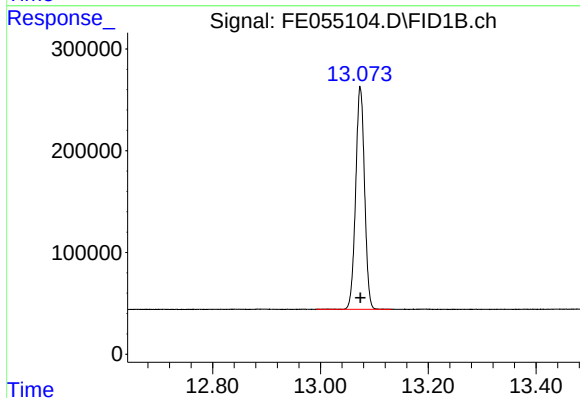
R.T.: 11.759 min
Delta R.T.: 0.000 min
Response: 2603047
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

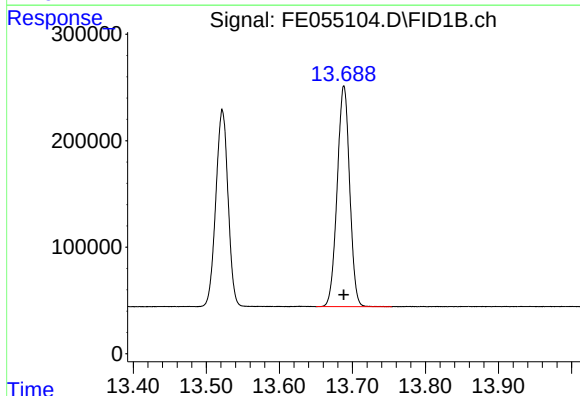
R.T.: 12.087 min
Delta R.T.: 0.000 min
Response: 2847777
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



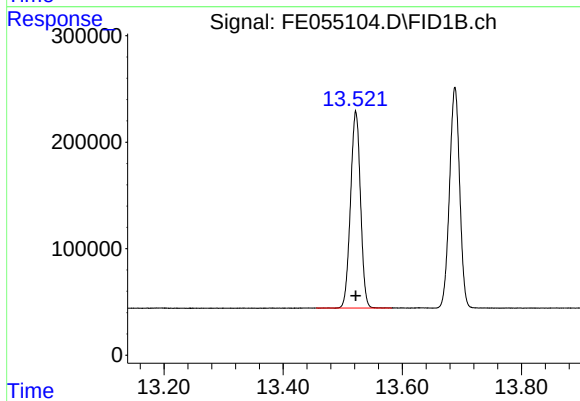
#10 n-Eicosane (C20)

R.T.: 13.074 min
Delta R.T.: 0.000 min
Response: 2504470
Conc: 20.00 ug/ml



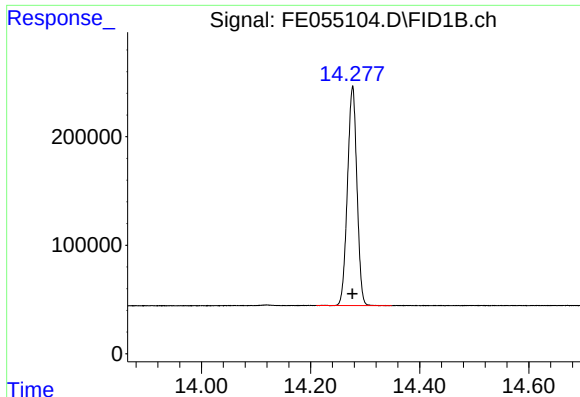
#11 n-Heneicosane (C21)

R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2458940
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

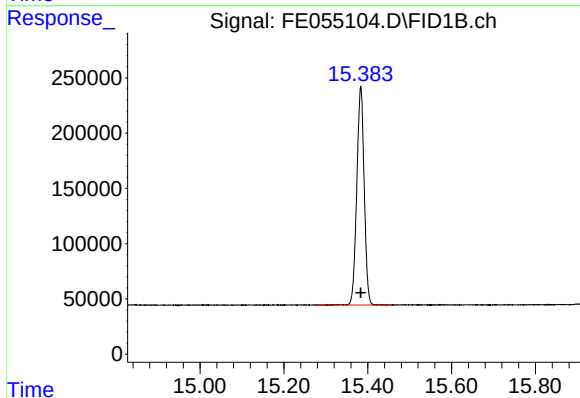
R.T.: 13.522 min
Delta R.T.: 0.000 min
Response: 2145943
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

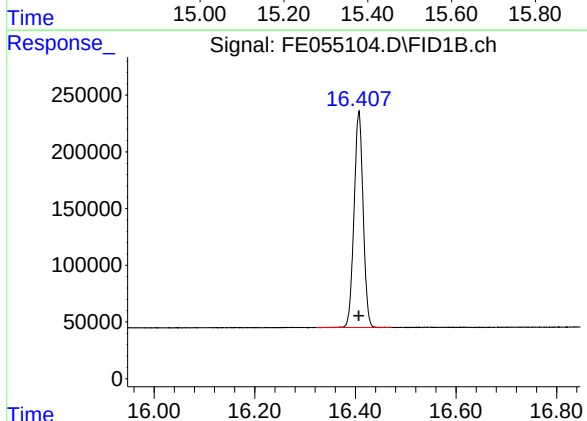
R.T.: 14.277 min
Delta R.T.: 0.000 min
Response: 2436487
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



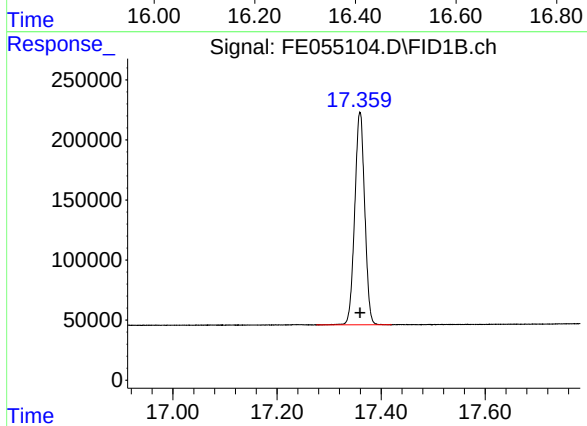
#14 n-Tetracosane (C24)

R.T.: 15.383 min
Delta R.T.: 0.000 min
Response: 2425424
Conc: 20.00 ug/ml



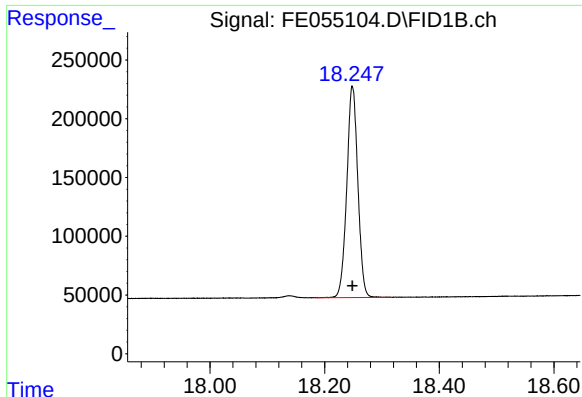
#15 n-Hexacosane (C26)

R.T.: 16.407 min
Delta R.T.: 0.000 min
Response: 2384923
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

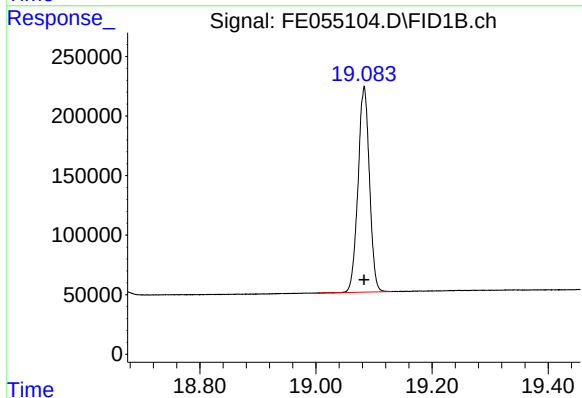
R.T.: 17.359 min
Delta R.T.: 0.000 min
Response: 2354861
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

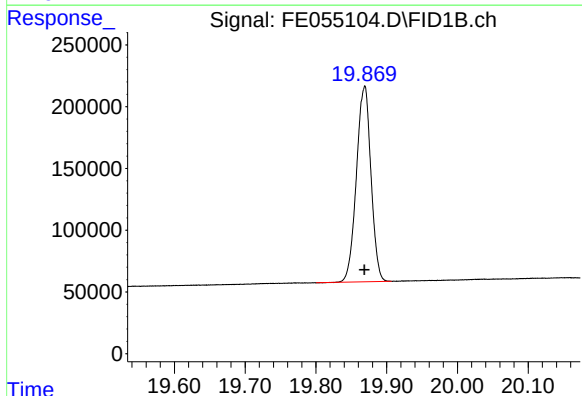
R.T.: 18.249 min
Delta R.T.: 0.000 min
Response: 2413903
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



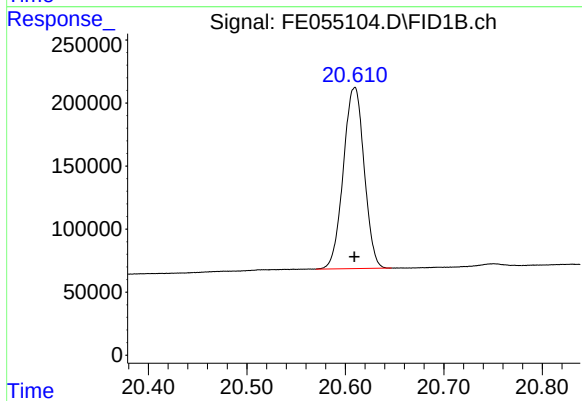
#18 n-Dotriacontane (C32)

R.T.: 19.083 min
Delta R.T.: 0.000 min
Response: 2353404
Conc: 20.00 ug/ml



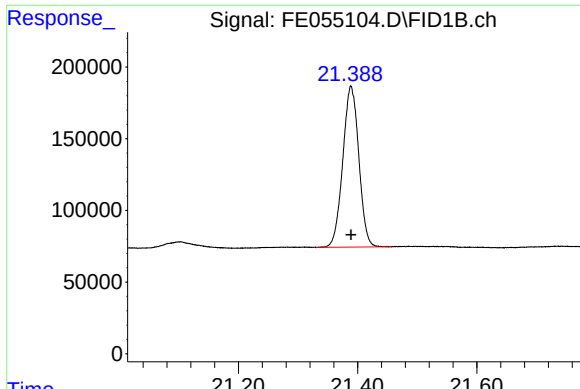
#19 n-Tetratriacontane (C34)

R.T.: 19.868 min
Delta R.T.: 0.000 min
Response: 2263836
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

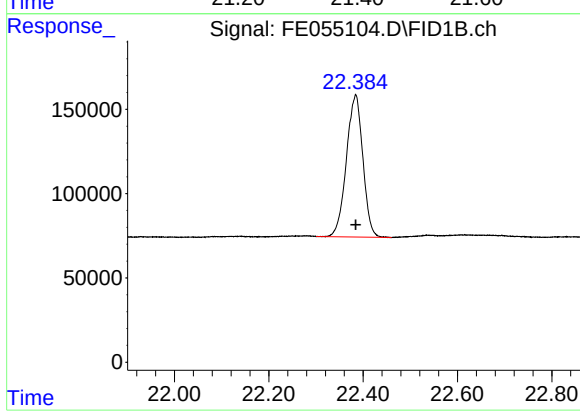
R.T.: 20.609 min
Delta R.T.: 0.000 min
Response: 2110743
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.389 min
Delta R.T.: 0.000 min
Response: 2094471
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.384 min
Delta R.T.: 0.000 min
Response: 2043499
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055104.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 12:25
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.423	3.392	3.487	BB	231134	2293663	80.54%	4.349%
2	4.682	4.649	4.740	BB	236437	2330344	81.83%	4.419%
3	6.401	6.364	6.484	BB	280151	2685834	94.31%	5.093%
4	6.857	6.825	6.927	BB	241634	2379703	83.56%	4.512%
5	7.502	7.460	7.620	BB	257118	2614202	91.80%	4.957%
6	8.695	8.575	8.792	BB	232754	2443850	85.82%	4.634%
7	10.310	10.270	10.392	BB	233592	2550070	89.55%	4.835%
8	11.759	11.717	11.829	VB	230527	2603047	91.41%	4.936%
9	12.087	12.025	12.142	BB	263143	2847777	100.00%	5.400%
10	13.074	12.992	13.132	BB	218561	2504470	87.94%	4.749%
11	13.522	13.455	13.582	BB	184792	2145943	75.36%	4.069%
12	13.688	13.650	13.754	PB	207585	2458940	86.35%	4.662%
13	14.277	14.210	14.349	BB	202172	2436487	85.56%	4.620%
14	15.383	15.277	15.457	BB	197958	2425424	85.17%	4.599%
15	16.407	16.322	16.472	BB	189955	2384923	83.75%	4.522%
16	17.359	17.275	17.420	BB	176840	2354861	82.69%	4.465%
17	18.249	18.185	18.317	BB	179452	2413903	84.76%	4.577%
18	19.083	19.000	19.130	BB	173090	2353404	82.64%	4.462%
19	19.868	19.800	19.907	BV	158176	2263836	79.49%	4.292%
20	20.609	20.570	20.647	BV	143250	2110743	74.12%	4.002%
21	21.389	21.330	21.457	BB	112406	2094471	73.55%	3.971%
22	22.384	22.300	22.460	BV	84561	2043499	71.76%	3.875%
Sum of corrected areas:						52739394		

Aliphatic EPH 080125.M Fri Aug 01 15:04:37 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
 Data File : FE055105.D
 Signal(s) : FID1B.ch
 Acq On : 01 Aug 2025 12:55
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Aug 01 13:19:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 13:19:19 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)	12.085	1465719	10.499 ug/ml
Spiked Amount 50.000		Recovery =	21.00%
12) S 1-chlorooctadecane (S...	13.521	1101100	10.451 ug/ml
Spiked Amount 50.000		Recovery =	20.90%
Target Compounds			
1) T n-Nonane (C9)	3.423	1173056	10.475 ug/ml
2) T n-Decane (C10)	4.681	1191456	10.452 ug/ml
3) T A~Naphthalene (C11.7)	6.401	1371559	10.427 ug/ml
4) T n-Dodecane (C12)	6.857	1212805	10.412 ug/ml
5) T A~2-methylnaphthalene...	7.502	1327736	10.365 ug/ml
6) T n-Tetradecane (C14)	8.694	1256245	10.522 ug/ml
7) T n-Hexadecane (C16)	10.309	1306485	10.474 ug/ml
8) T n-Octadecane (C18)	11.759	1339624	10.513 ug/ml
10) T n-Eicosane (C20)	13.073	1290714	10.525 ug/ml
11) T n-Heneicosane (C21)	13.687	1263179	10.497 ug/ml
13) T n-Docosane (C22)	14.275	1252588	10.492 ug/ml
14) T n-Tetracosane (C24)	15.382	1249742	10.525 ug/ml
15) T n-Hexacosane (C26)	16.406	1228030	10.509 ug/ml
16) T n-Octacosane (C28)	17.358	1218469	10.570 ug/ml
17) T n-Tricontane (C30)	18.248	1265398	10.706 ug/ml
18) T n-Dotriacontane (C32)	19.082	1247513	10.762 ug/ml
19) T n-Tetratriacontane (C34)	19.866	1189288	10.689 ug/ml
20) T n-Hexatriacontane (C36)	20.607	1108488	10.629 ug/ml
21) T n-Octatriacontane (C38)	21.389	1141544	10.970 ug/ml
22) T n-Tetracontane (C40)	22.381	1072991	10.595 ug/ml

(f)=RT Delta > 1/2 Window

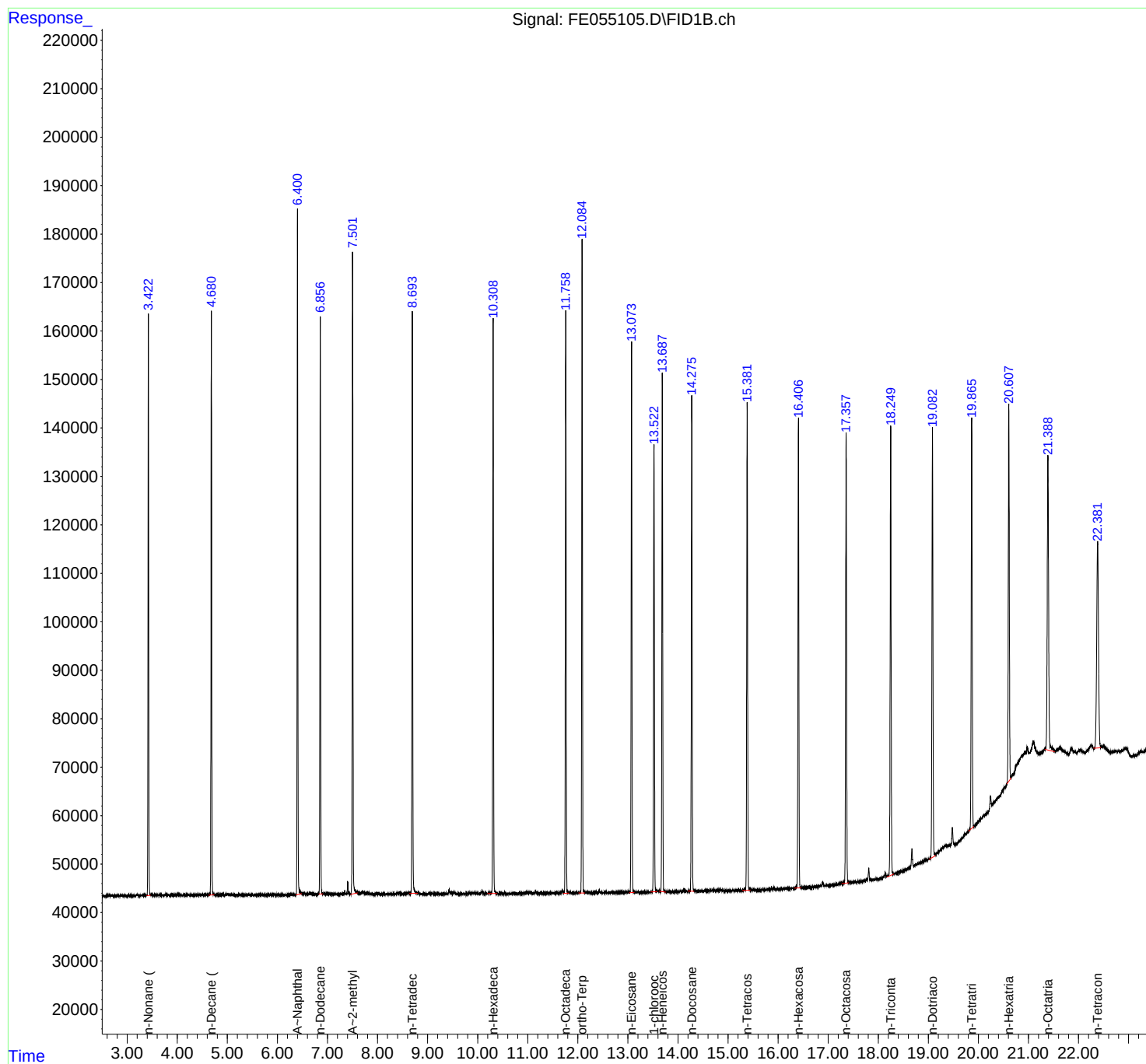
(m)=manual int.

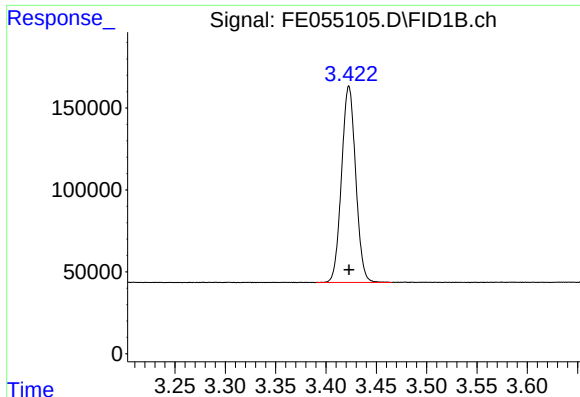
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055105.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 12:55
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Aug 01 13:19:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:19:19 2025
Response via : Initial Calibration
Integrator: ChemStation

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

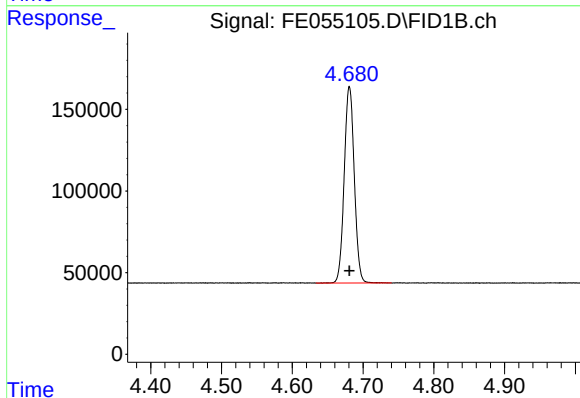




#1 n-Nonane (C9)

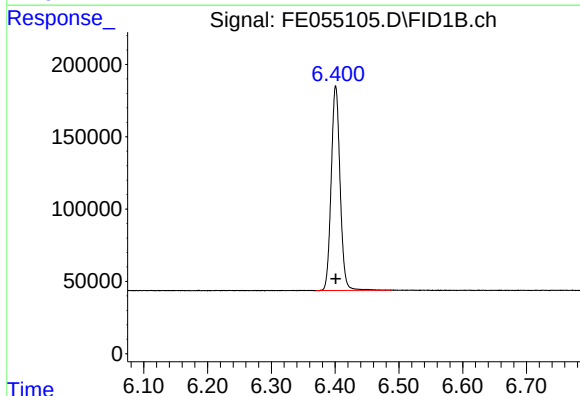
R.T.: 3.423 min
Delta R.T.: 0.000 min
Response: 1173056
Conc: 10.47 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



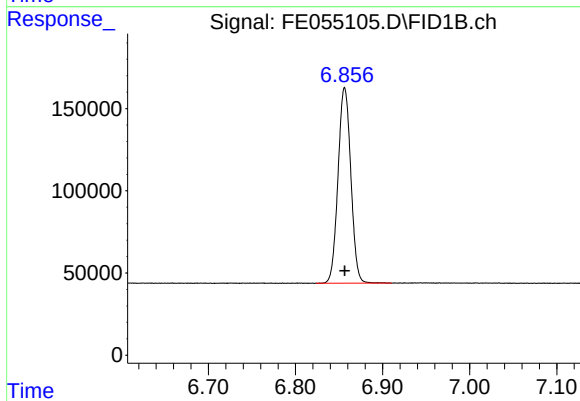
#2 n-Decane (C10)

R.T.: 4.681 min
Delta R.T.: 0.000 min
Response: 1191456
Conc: 10.45 ug/ml



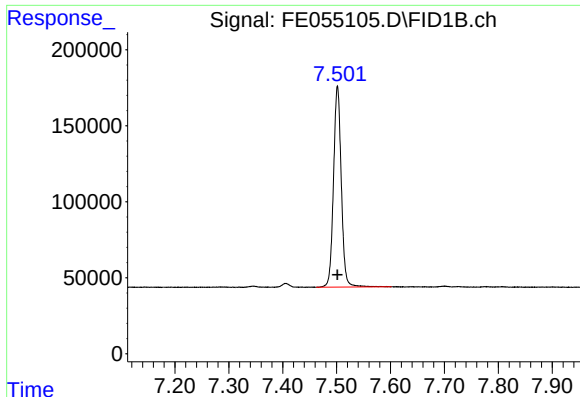
#3 A~Naphthalene (C11.7)

R.T.: 6.401 min
Delta R.T.: 0.000 min
Response: 1371559
Conc: 10.43 ug/ml



#4 n-Dodecane (C12)

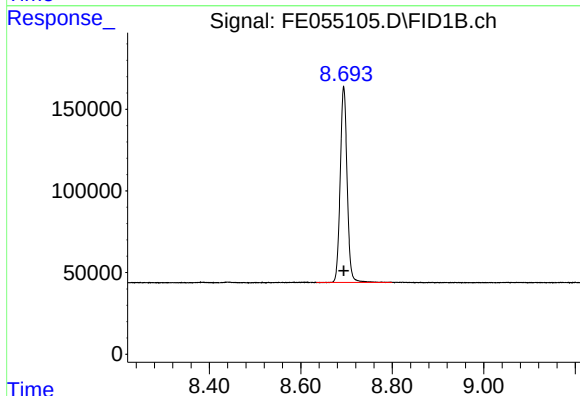
R.T.: 6.857 min
Delta R.T.: 0.000 min
Response: 1212805
Conc: 10.41 ug/ml



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

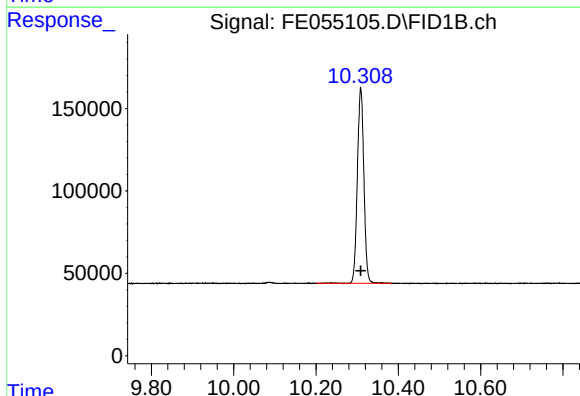
R.T.: 7.502 min
Delta R.T.: 0.000 min
Response: 1327736
Conc: 10.36 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



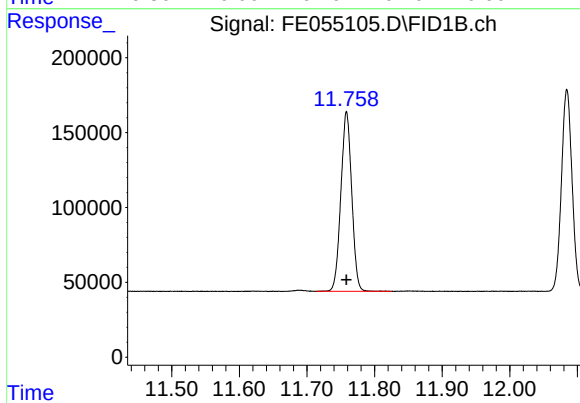
#6 n-Tetradecane (C14)

R.T.: 8.694 min
Delta R.T.: 0.000 min
Response: 1256245
Conc: 10.52 ug/ml



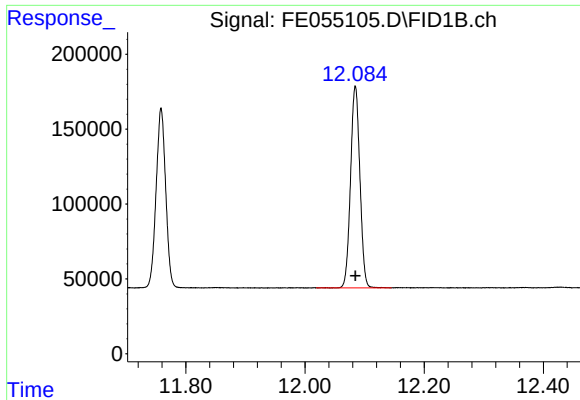
#7 n-Hexadecane (C16)

R.T.: 10.309 min
Delta R.T.: 0.000 min
Response: 1306485
Conc: 10.47 ug/ml



#8 n-Octadecane (C18)

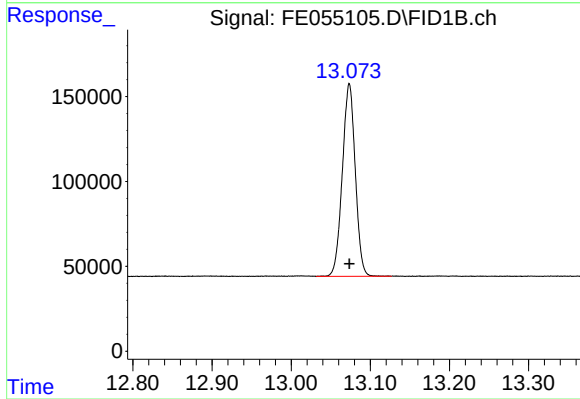
R.T.: 11.759 min
Delta R.T.: 0.000 min
Response: 1339624
Conc: 10.51 ug/ml



#9 ortho-Terphenyl (SURR)

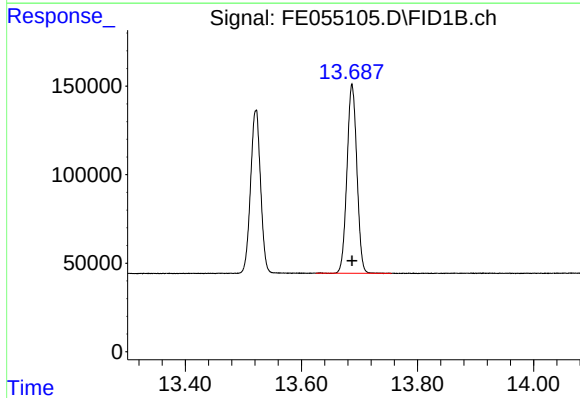
R.T.: 12.085 min
Delta R.T.: 0.000 min
Response: 1465719
Conc: 10.50 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



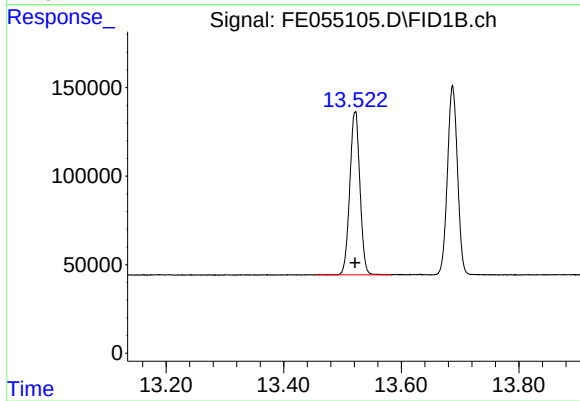
#10 n-Eicosane (C20)

R.T.: 13.073 min
Delta R.T.: 0.000 min
Response: 1290714
Conc: 10.53 ug/ml



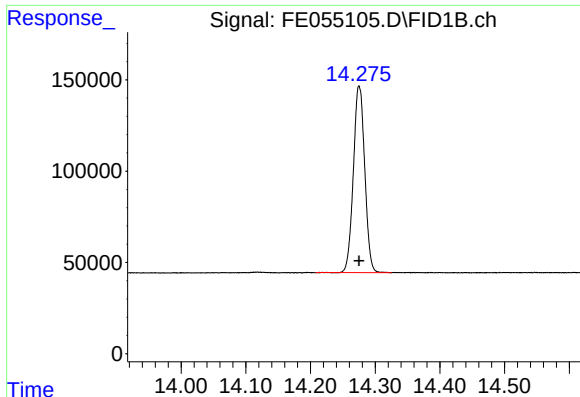
#11 n-Heneicosane (C21)

R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 1263179
Conc: 10.50 ug/ml



#12 1-chlorooctadecane (SURR)

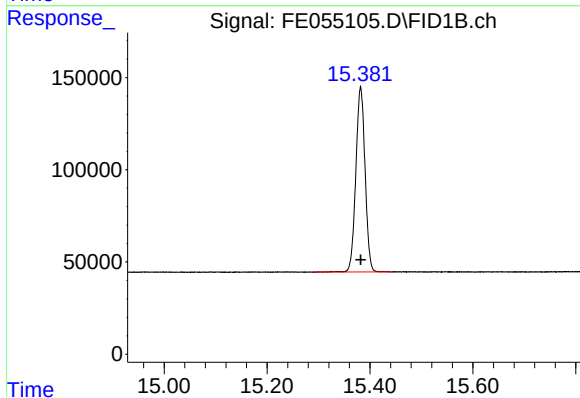
R.T.: 13.521 min
Delta R.T.: 0.000 min
Response: 1101100
Conc: 10.45 ug/ml



#13 n-Docosane (C22)

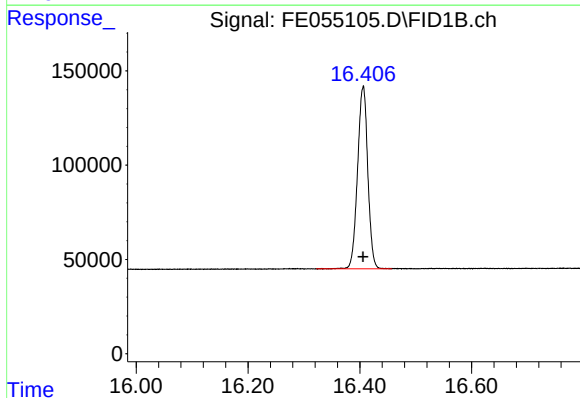
R.T.: 14.275 min
Delta R.T.: 0.000 min
Response: 1252588
Conc: 10.49 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



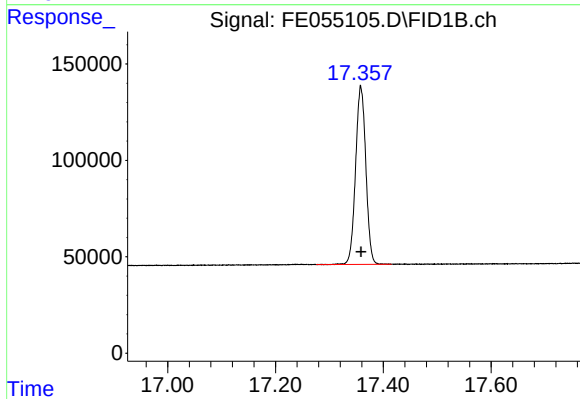
#14 n-Tetracosane (C24)

R.T.: 15.382 min
Delta R.T.: 0.000 min
Response: 1249742
Conc: 10.53 ug/ml



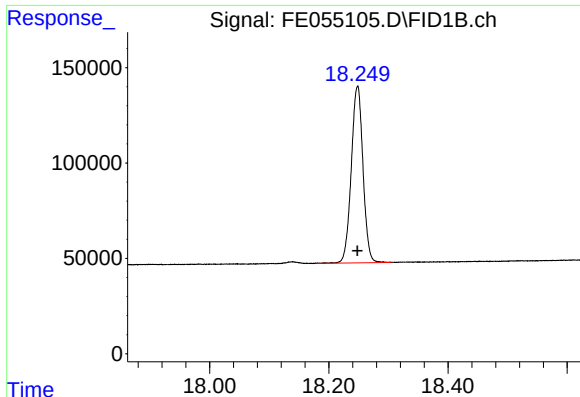
#15 n-Hexacosane (C26)

R.T.: 16.406 min
Delta R.T.: 0.000 min
Response: 1228030
Conc: 10.51 ug/ml



#16 n-Octacosane (C28)

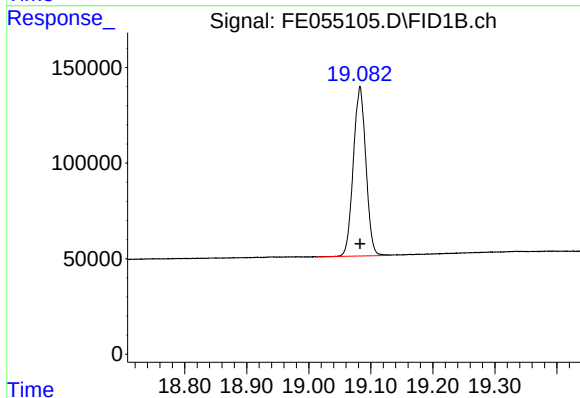
R.T.: 17.358 min
Delta R.T.: 0.000 min
Response: 1218469
Conc: 10.57 ug/ml



#17 n-Tricontane (C30)

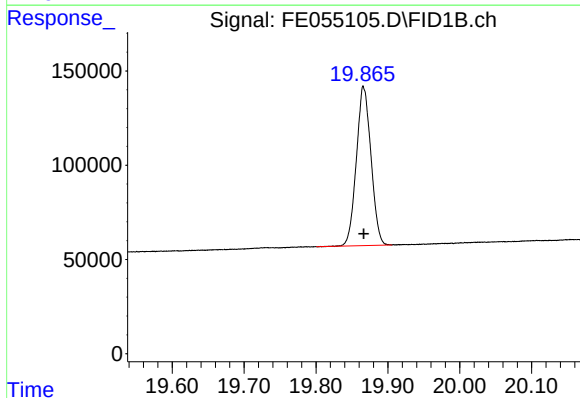
R.T.: 18.248 min
Delta R.T.: 0.000 min
Response: 1265398
Conc: 10.71 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



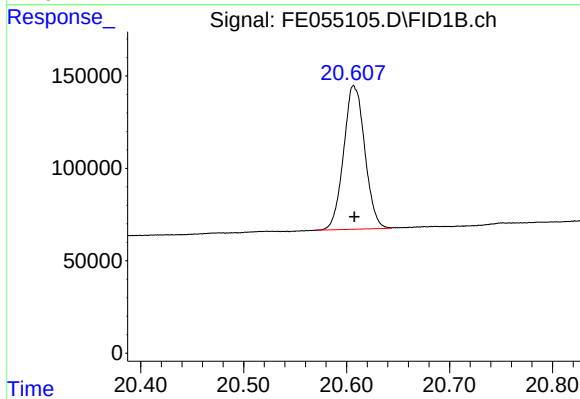
#18 n-Dotriacontane (C32)

R.T.: 19.082 min
Delta R.T.: 0.000 min
Response: 1247513
Conc: 10.76 ug/ml



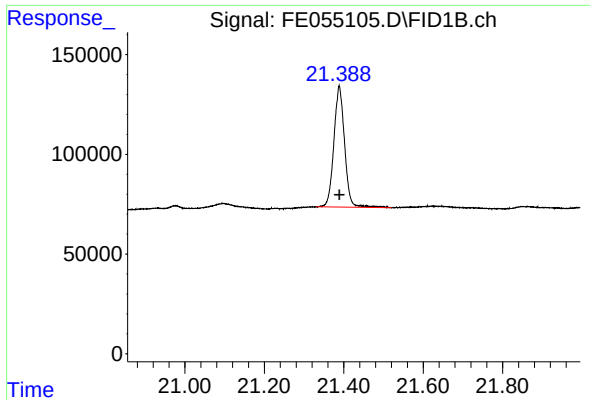
#19 n-Tetratriacontane (C34)

R.T.: 19.866 min
Delta R.T.: 0.000 min
Response: 1189288
Conc: 10.69 ug/ml



#20 n-Hexatriacontane (C36)

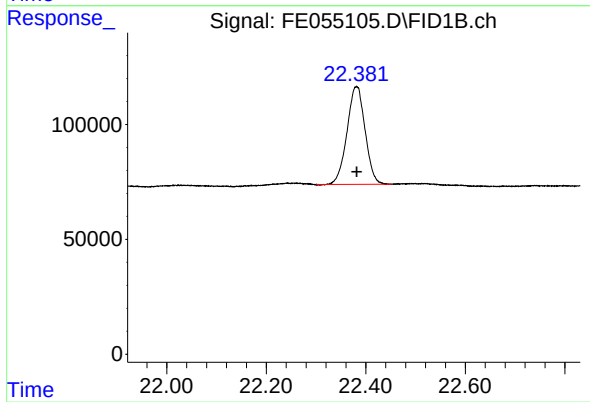
R.T.: 20.607 min
Delta R.T.: 0.000 min
Response: 1108488
Conc: 10.63 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.389 min
Delta R.T.: 0.000 min
Response: 1141544
Conc: 10.97 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.381 min
Delta R.T.: 0.000 min
Response: 1072991
Conc: 10.59 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
 Data File : FE055105.D
 Signal(s) : FID1B.ch
 Acq On : 01 Aug 2025 12:55
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.423	3.390	3.465	BB	120037	1173056	80.03%	4.301%
2	4.681	4.634	4.740	BB	120456	1191456	81.29%	4.369%
3	6.401	6.370	6.489	BB	141579	1371559	93.58%	5.029%
4	6.857	6.824	6.910	BB	118825	1212805	82.74%	4.447%
5	7.502	7.462	7.602	BB	132398	1327736	90.59%	4.868%
6	8.694	8.634	8.799	BB	119873	1256245	85.71%	4.606%
7	10.309	10.200	10.384	BB	118466	1306485	89.14%	4.790%
8	11.759	11.714	11.825	PB	120058	1339624	91.40%	4.912%
9	12.085	12.019	12.145	BB	134862	1465719	100.00%	5.374%
10	13.073	13.032	13.127	PB	113704	1290714	88.06%	4.732%
11	13.521	13.455	13.584	BB	92204	1101100	75.12%	4.037%
12	13.687	13.625	13.755	BB	106777	1263179	86.18%	4.631%
13	14.275	14.209	14.325	BB	102098	1252588	85.46%	4.593%
14	15.382	15.295	15.442	BB	100362	1249742	85.26%	4.582%
15	16.406	16.322	16.457	BB	96333	1228030	83.78%	4.503%
16	17.358	17.275	17.415	BB	91813	1218469	83.13%	4.468%
17	18.248	18.179	18.305	BB	92913	1265398	86.33%	4.640%
18	19.082	19.012	19.134	BV	88439	1247513	85.11%	4.574%
19	19.866	19.800	19.905	BV	83213	1189288	81.14%	4.361%
20	20.607	20.570	20.644	BV	77393	1108488	75.63%	4.064%
21	21.389	21.330	21.520	BB	60713	1141544	77.88%	4.186%
22	22.381	22.300	22.452	BV	42596	1072991	73.21%	3.934%
Sum of corrected areas:						27273728		

Aliphatic EPH 080125.M Fri Aug 01 15:04:05 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
 Data File : FE055106.D
 Signal(s) : FID1B.ch
 Acq On : 01 Aug 2025 13:25
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Aug 01 13:46:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 13:46:25 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)	12.084	778115	5.449 ug/ml
Spiked Amount 50.000		Recovery =	10.90%
12) S 1-chlorooctadecane (S...	13.520	580920	5.403 ug/ml
Spiked Amount 50.000		Recovery =	10.81%
Target Compounds			
1) T n-Nonane (C9)	3.422	629501	5.485 ug/ml
2) T n-Decane (C10)	4.681	632551	5.430 ug/ml
3) T A~Naphthalene (C11.7)	6.401	724982	5.401 ug/ml
4) T n-Dodecane (C12)	6.856	647501	5.437 ug/ml
5) T A~2-methylnaphthalene...	7.501	697536	5.350 ug/ml
6) T n-Tetradecane (C14)	8.694	677397	5.525 ug/ml
7) T n-Hexadecane (C16)	10.308	701326	5.486 ug/ml
8) T n-Octadecane (C18)	11.758	713273	5.467 ug/ml
10) T n-Eicosane (C20)	13.072	684201	5.453 ug/ml
11) T n-Heneicosane (C21)	13.686	674909	5.475 ug/ml
13) T n-Docosane (C22)	14.275	665279	5.448 ug/ml
14) T n-Tetracosane (C24)	15.382	666101	5.476 ug/ml
15) T n-Hexacosane (C26)	16.405	654109	5.467 ug/ml
16) T n-Octacosane (C28)	17.357	659989	5.564 ug/ml
17) T n-Tricontane (C30)	18.248	712384	5.789 ug/ml
18) T n-Dotriacontane (C32)	19.081	732022	6.000 ug/ml
19) T n-Tetratriacontane (C34)	19.867	697694	5.967 ug/ml
20) T n-Hexatriacontane (C36)	20.608	646626	5.916 ug/ml
21) T n-Octatriacontane (C38)	21.390	620578	5.742 ug/ml
22) T n-Tetracontane (C40)	22.381	588826	5.631 ug/ml

(f)=RT Delta > 1/2 Window

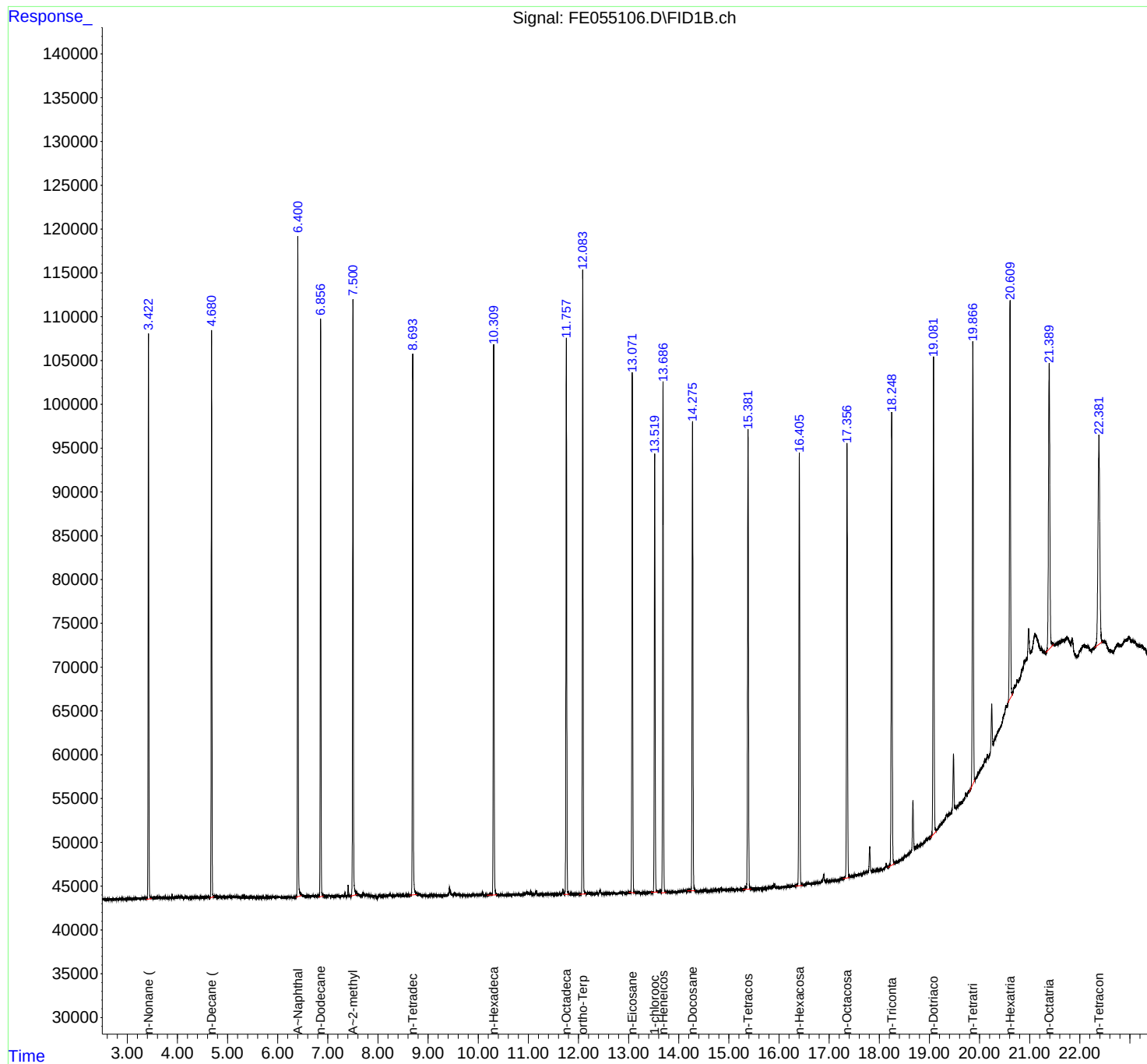
(m)=manual int.

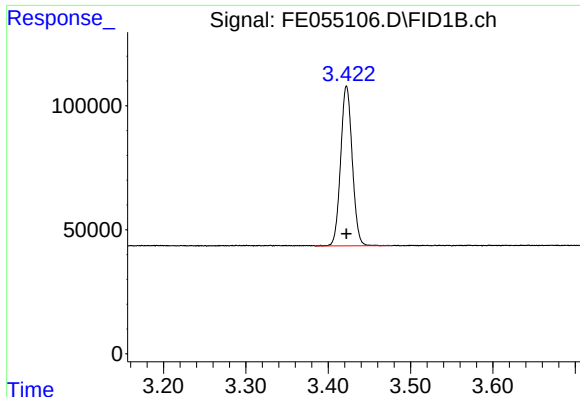
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055106.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 13:25
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Aug 01 13:46:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:46:25 2025
Response via : Initial Calibration
Integrator: ChemStation

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

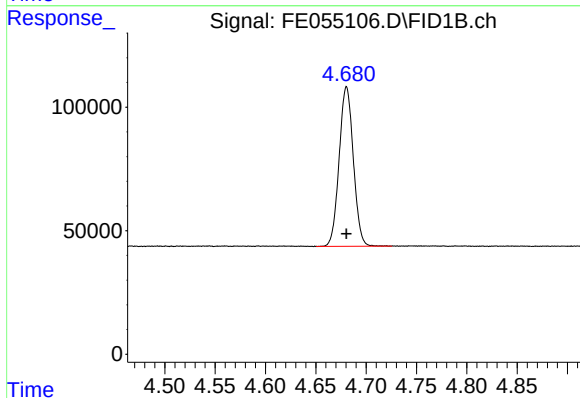




#1 n-Nonane (C9)

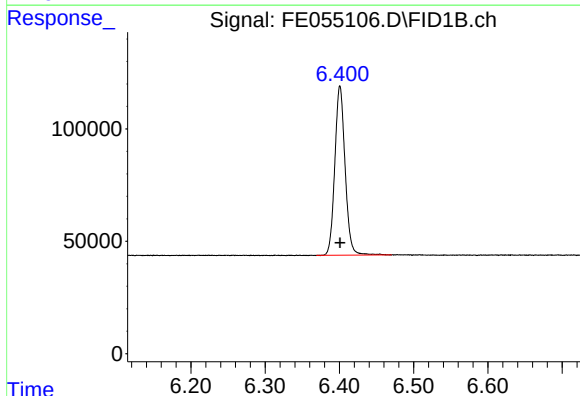
R.T.: 3.422 min
Delta R.T.: 0.000 min
Response: 629501
Conc: 5.48 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



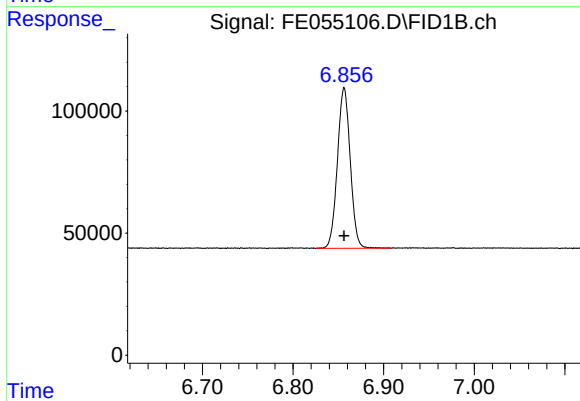
#2 n-Decane (C10)

R.T.: 4.681 min
Delta R.T.: 0.000 min
Response: 632551
Conc: 5.43 ug/ml



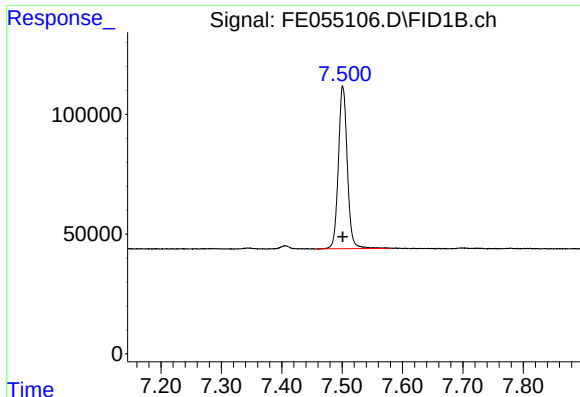
#3 A~Naphthalene (C11.7)

R.T.: 6.401 min
Delta R.T.: 0.000 min
Response: 724982
Conc: 5.40 ug/ml



#4 n-Dodecane (C12)

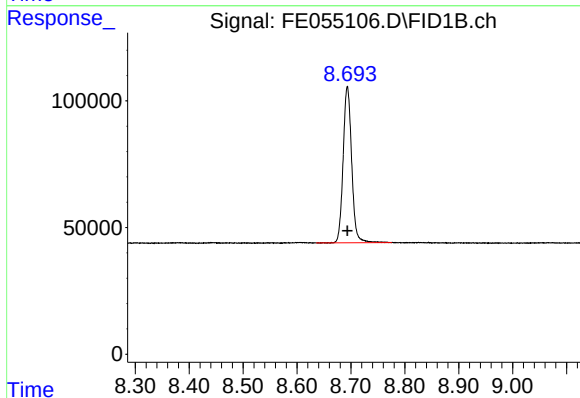
R.T.: 6.856 min
Delta R.T.: 0.000 min
Response: 647501
Conc: 5.44 ug/ml



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

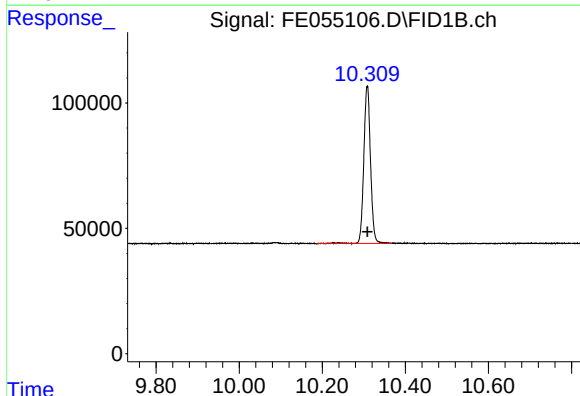
R.T.: 7.501 min
Delta R.T.: 0.000 min
Response: 697536
Conc: 5.35 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



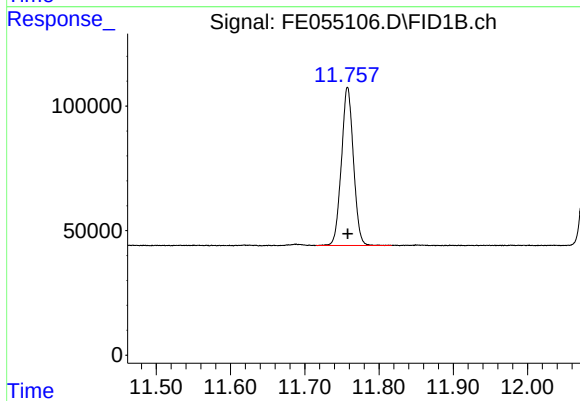
#6 n-Tetradecane (C14)

R.T.: 8.694 min
Delta R.T.: 0.000 min
Response: 677397
Conc: 5.52 ug/ml



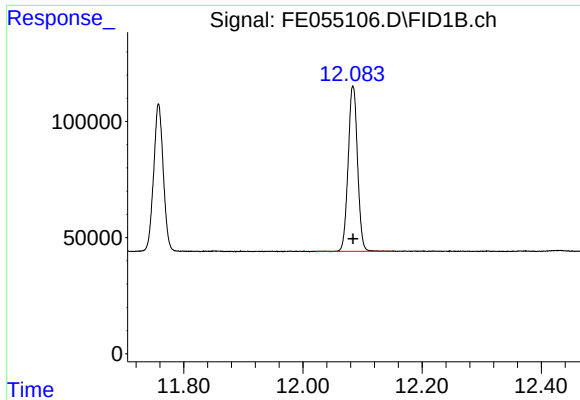
#7 n-Hexadecane (C16)

R.T.: 10.308 min
Delta R.T.: 0.000 min
Response: 701326
Conc: 5.49 ug/ml



#8 n-Octadecane (C18)

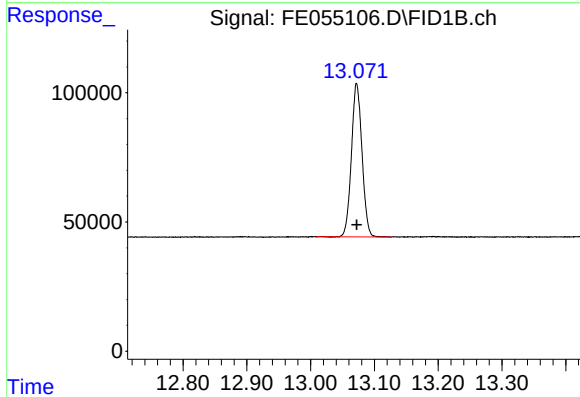
R.T.: 11.758 min
Delta R.T.: 0.000 min
Response: 713273
Conc: 5.47 ug/ml



#9 ortho-Terphenyl (SURR)

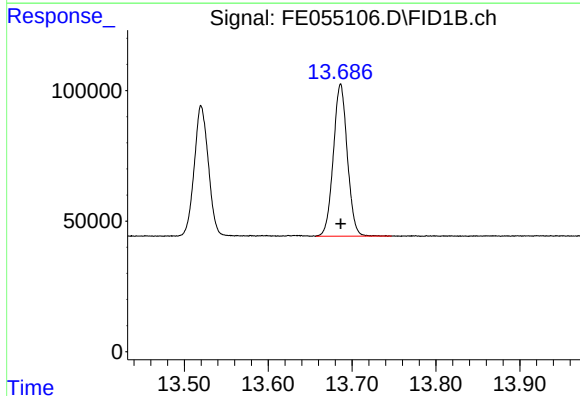
R.T.: 12.084 min
Delta R.T.: 0.000 min
Response: 778115
Conc: 5.45 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



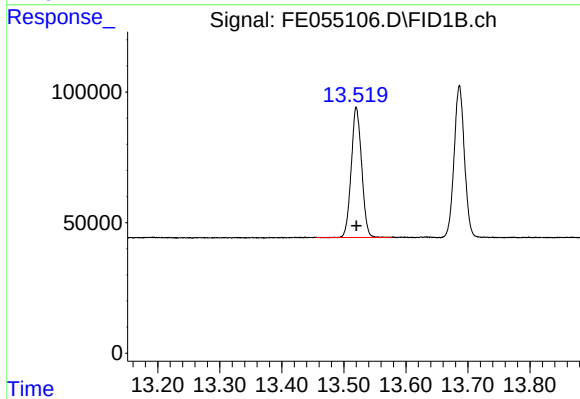
#10 n-Eicosane (C20)

R.T.: 13.072 min
Delta R.T.: 0.000 min
Response: 684201
Conc: 5.45 ug/ml



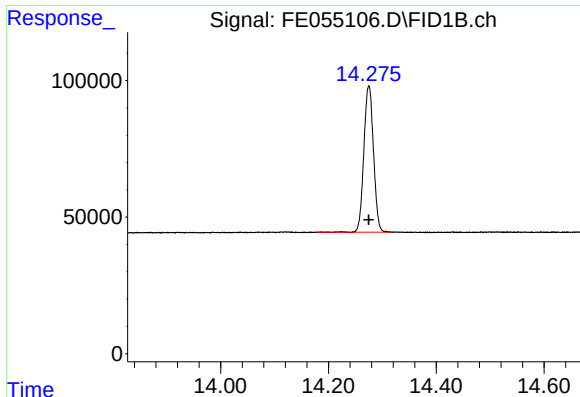
#11 n-Heneicosane (C21)

R.T.: 13.686 min
Delta R.T.: 0.000 min
Response: 674909
Conc: 5.48 ug/ml



#12 1-chlorooctadecane (SURR)

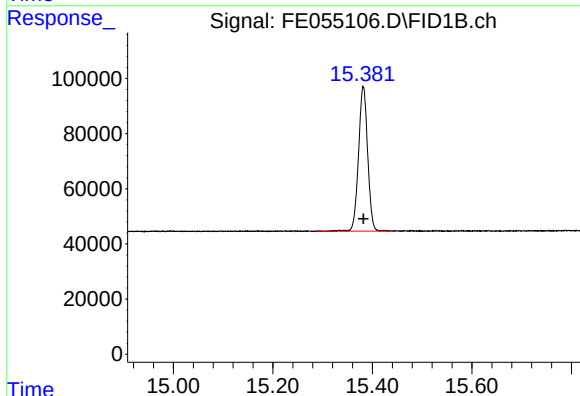
R.T.: 13.520 min
Delta R.T.: 0.000 min
Response: 580920
Conc: 5.40 ug/ml



#13 n-Docosane (C22)

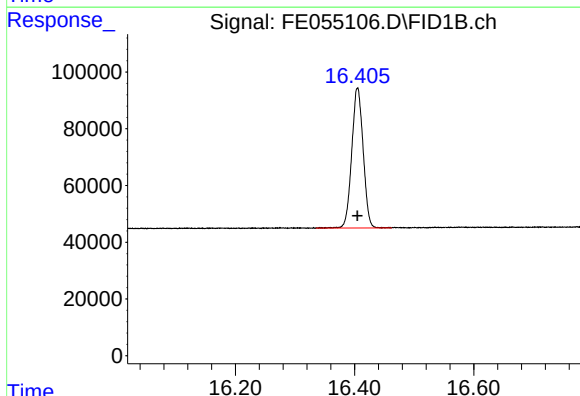
R.T.: 14.275 min
Delta R.T.: 0.000 min
Response: 665279
Conc: 5.45 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



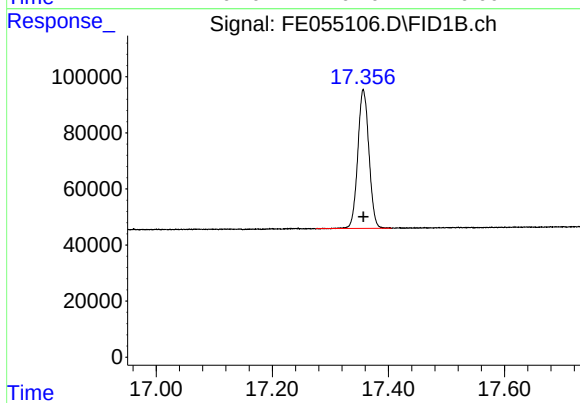
#14 n-Tetracosane (C24)

R.T.: 15.382 min
Delta R.T.: 0.000 min
Response: 666101
Conc: 5.48 ug/ml



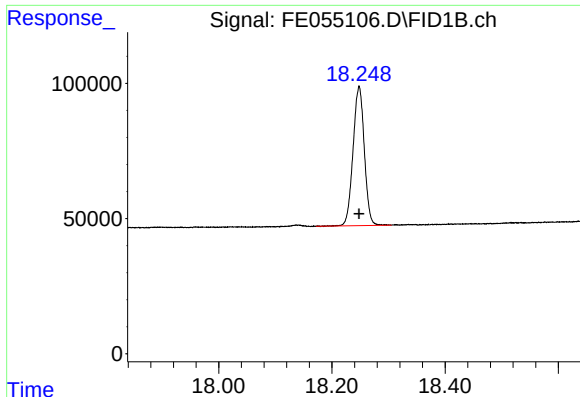
#15 n-Hexacosane (C26)

R.T.: 16.405 min
Delta R.T.: 0.000 min
Response: 654109
Conc: 5.47 ug/ml



#16 n-Octacosane (C28)

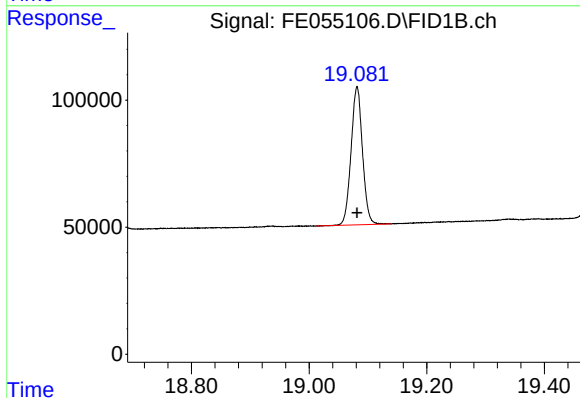
R.T.: 17.357 min
Delta R.T.: 0.000 min
Response: 659989
Conc: 5.56 ug/ml



#17 n-Tricontane (C30)

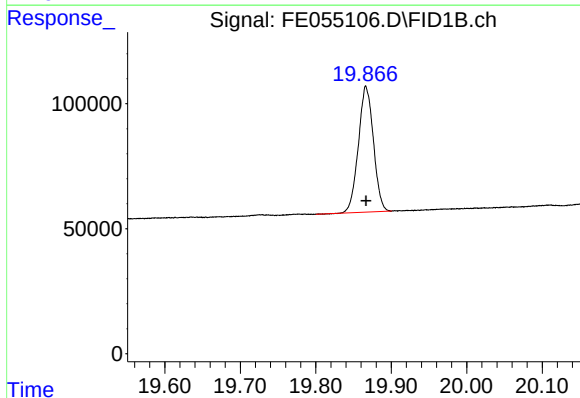
R.T.: 18.248 min
Delta R.T.: 0.000 min
Response: 712384
Conc: 5.79 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



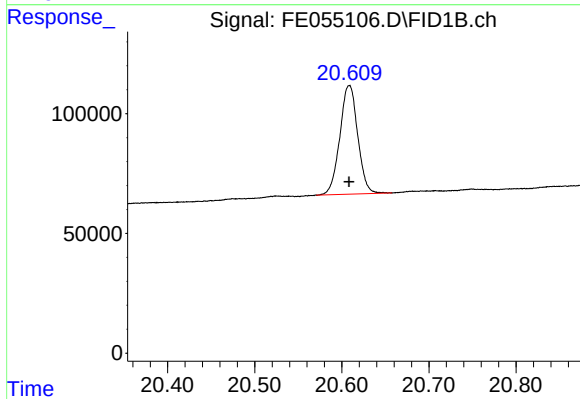
#18 n-Dotriacontane (C32)

R.T.: 19.081 min
Delta R.T.: 0.000 min
Response: 732022
Conc: 6.00 ug/ml



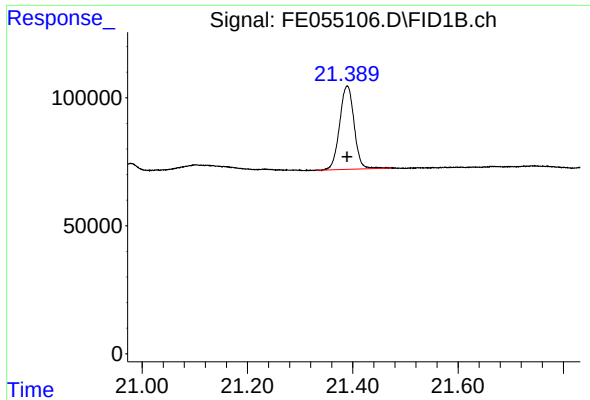
#19 n-Tetratriacontane (C34)

R.T.: 19.867 min
Delta R.T.: 0.000 min
Response: 697694
Conc: 5.97 ug/ml



#20 n-Hexatriacontane (C36)

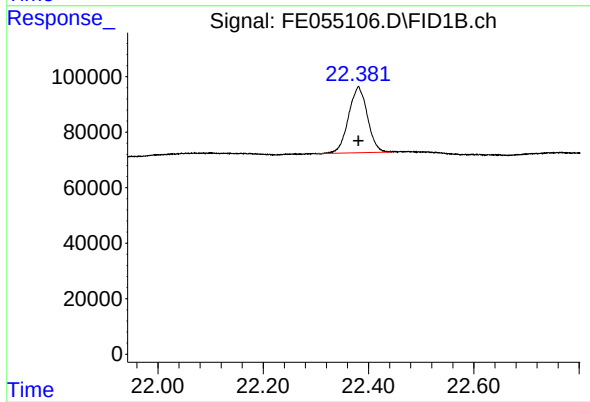
R.T.: 20.608 min
Delta R.T.: 0.000 min
Response: 646626
Conc: 5.92 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.390 min
Delta R.T.: 0.000 min
Response: 620578
Conc: 5.74 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.381 min
Delta R.T.: 0.000 min
Response: 588826
Conc: 5.63 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055106.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 13:25
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.422	3.385	3.477	BB	64431	629501	80.90%	4.257%
2	4.681	4.650	4.725	BB	64621	632551	81.29%	4.278%
3	6.401	6.369	6.470	BB	75358	724982	93.17%	4.903%
4	6.856	6.825	6.909	BB	65928	647501	83.21%	4.379%
5	7.501	7.457	7.582	BB	67243	697536	89.64%	4.718%
6	8.694	8.635	8.775	BB	61673	677397	87.06%	4.581%
7	10.308	10.185	10.367	BB	62824	701326	90.13%	4.743%
8	11.758	11.715	11.817	BB	63586	713273	91.67%	4.824%
9	12.084	12.022	12.149	BB	71185	778115	100.00%	5.263%
10	13.072	13.009	13.127	BB	59302	684201	87.93%	4.627%
11	13.520	13.455	13.577	BB	49645	580920	74.66%	3.929%
12	13.686	13.657	13.747	BB	58559	674909	86.74%	4.565%
13	14.275	14.177	14.317	BB	53685	665279	85.50%	4.499%
14	15.382	15.287	15.439	BB	52255	666101	85.60%	4.505%
15	16.405	16.335	16.462	BB	49309	654109	84.06%	4.424%
16	17.357	17.275	17.405	BB	49399	659989	84.82%	4.464%
17	18.248	18.172	18.305	BB	51763	712384	91.55%	4.818%
18	19.082	19.012	19.140	BB	54579	732022	94.08%	4.951%
19	19.867	19.800	19.900	BB	49987	697694	89.66%	4.719%
20	20.608	20.570	20.657	BV	45351	646626	83.10%	4.373%
21	21.390	21.330	21.474	BB	32525	620578	79.75%	4.197%
22	22.381	22.300	22.444	BB	23828	588826	75.67%	3.982%
Sum of corrected areas:						14785819		

Aliphatic EPH 080125.M Fri Aug 01 15:03:32 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
 Data File : FE055107.D
 Signal(s) : FID1B.ch
 Acq On : 01 Aug 2025 13:55
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Aug 01 14:16:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 QLast Update : Fri Aug 01 13:47:09 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)	12.085	2866726	20.075 ug/ml
Spiked Amount 50.000		Recovery =	40.15%
12) S 1-chlorooctadecane (S...	13.521	2156193	20.053 ug/ml
Spiked Amount 50.000		Recovery =	40.11%
Target Compounds			
1) T n-Nonane (C9)	3.423	2320492	20.219 ug/ml
2) T n-Decane (C10)	4.681	2357337	20.235 ug/ml
3) T A~Naphthalene (C11.7)	6.400	2711551	20.201 ug/ml
4) T n-Dodecane (C12)	6.857	2407946	20.221 ug/ml
5) T A~2-methylnaphthalene...	7.501	2636139	20.218 ug/ml
6) T n-Tetradecane (C14)	8.694	2463791	20.095 ug/ml
7) T n-Hexadecane (C16)	10.309	2561685	20.038 ug/ml
8) T n-Octadecane (C18)	11.759	2619955	20.080 ug/ml
10) T n-Eicosane (C20)	13.073	2518489	20.072 ug/ml
11) T n-Heneicosane (C21)	13.688	2473384	20.065 ug/ml
13) T n-Docosane (C22)	14.276	2448476	20.050 ug/ml
14) T n-Tetracosane (C24)	15.382	2433764	20.009 ug/ml
15) T n-Hexacosane (C26)	16.407	2397717	20.040 ug/ml
16) T n-Octacosane (C28)	17.359	2370324	19.982 ug/ml
17) T n-Tricontane (C30)	18.248	2441052	19.838 ug/ml
18) T n-Dotriacontane (C32)	19.082	2401932	19.686 ug/ml
19) T n-Tetratriacontane (C34)	19.867	2323225	19.870 ug/ml
20) T n-Hexatriacontane (C36)	20.609	2160075	19.763 ug/ml
21) T n-Octatriacontane (C38)	21.390	2112729	19.549 ug/ml
22) T n-Tetracontane (C40)	22.381	2109848	20.176 ug/ml

(f)=RT Delta > 1/2 Window

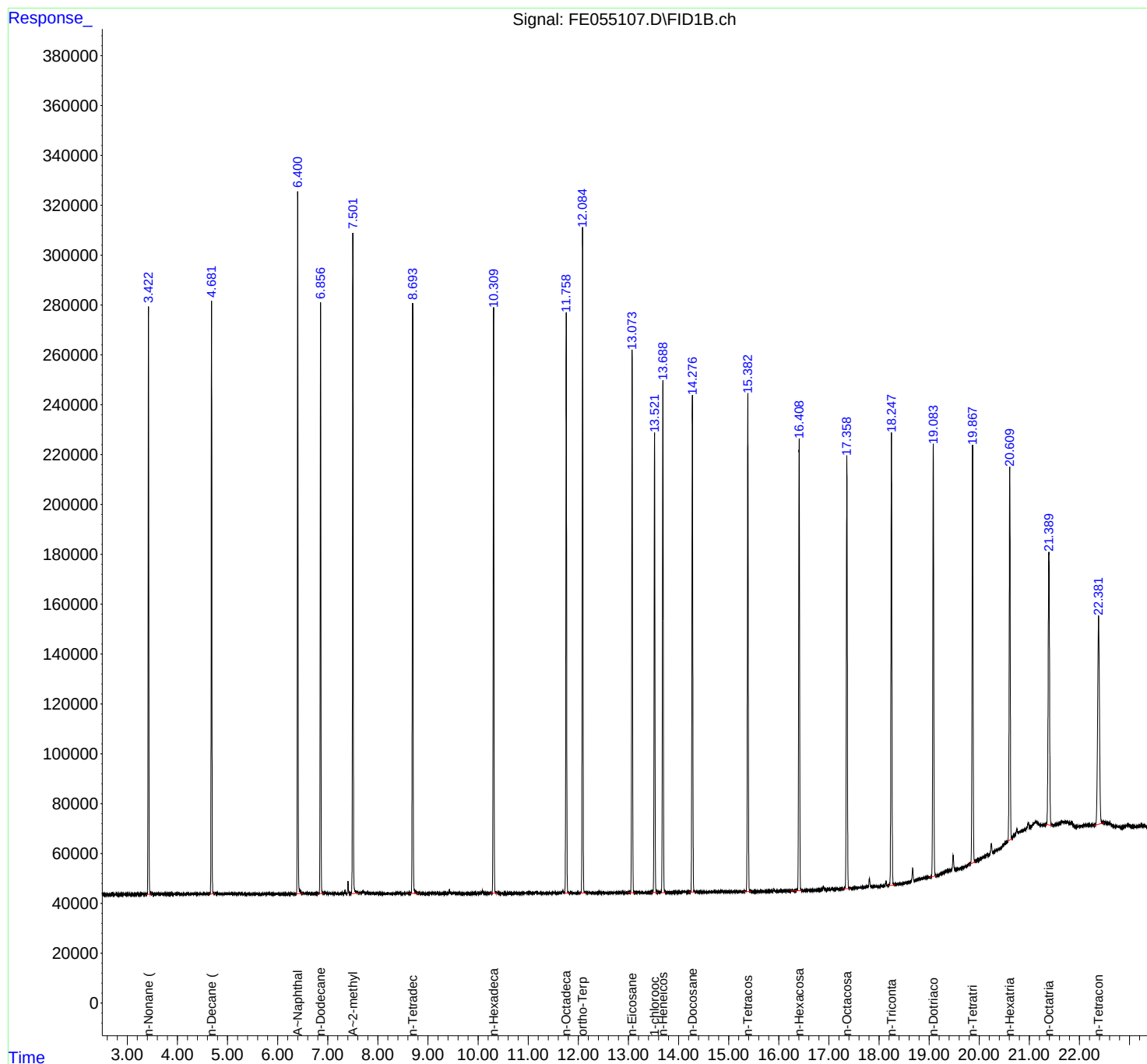
(m)=manual int.

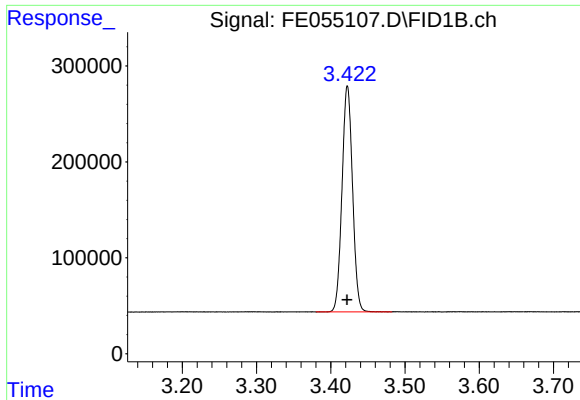
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055107.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 13:55
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Aug 01 14:16:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

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

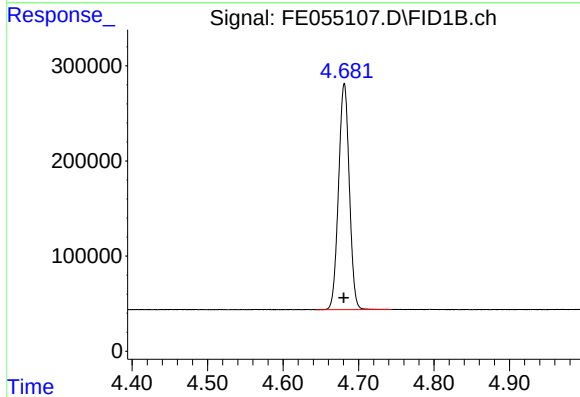




#1 n-Nonane (C9)

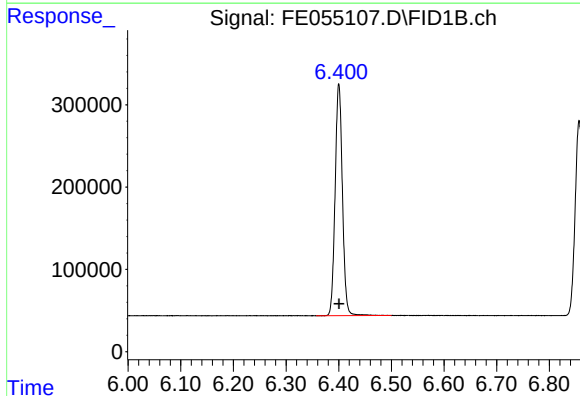
R.T.: 3.423 min
Delta R.T.: 0.000 min
Response: 2320492
Conc: 20.22 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



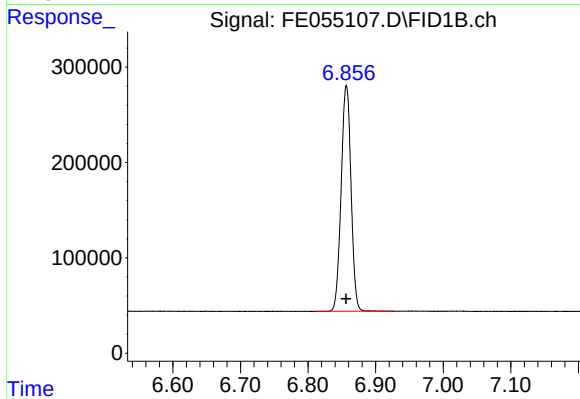
#2 n-Decane (C10)

R.T.: 4.681 min
Delta R.T.: 0.000 min
Response: 2357337
Conc: 20.24 ug/ml



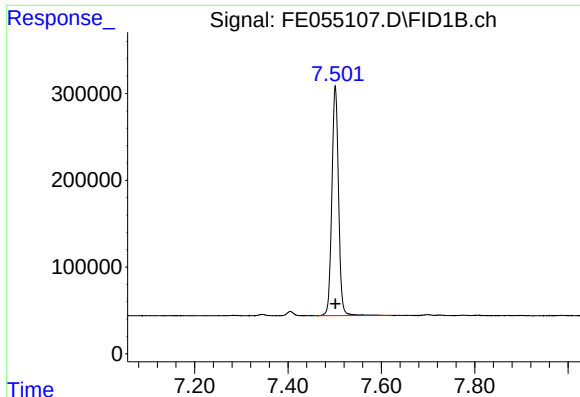
#3 A~Naphthalene (C11.7)

R.T.: 6.400 min
Delta R.T.: 0.000 min
Response: 2711551
Conc: 20.20 ug/ml



#4 n-Dodecane (C12)

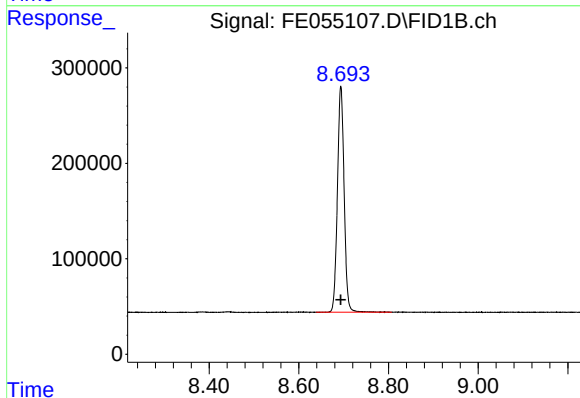
R.T.: 6.857 min
Delta R.T.: 0.000 min
Response: 2407946
Conc: 20.22 ug/ml



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

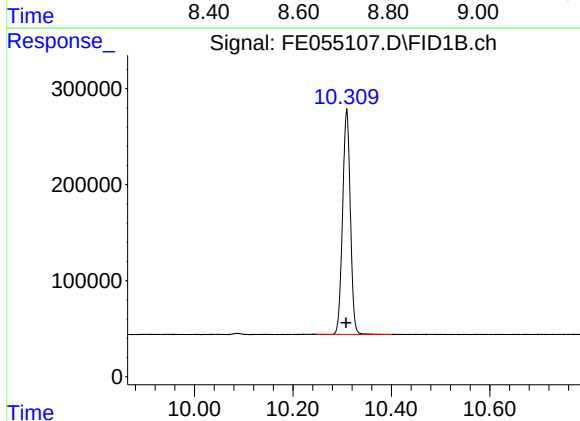
R.T.: 7.501 min
Delta R.T.: 0.000 min
Response: 2636139
Conc: 20.22 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



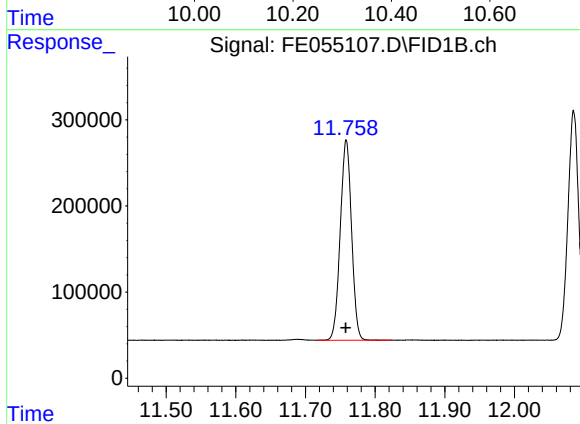
#6 n-Tetradecane (C14)

R.T.: 8.694 min
Delta R.T.: 0.000 min
Response: 2463791
Conc: 20.09 ug/ml



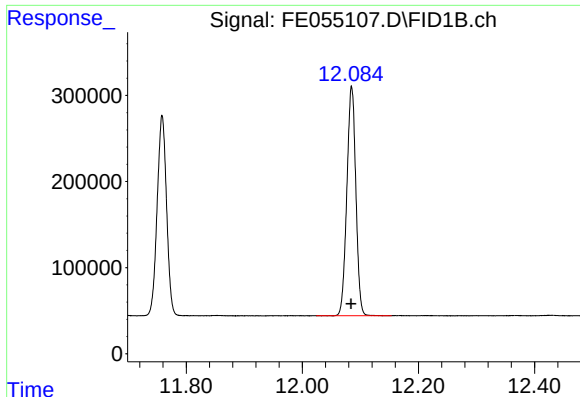
#7 n-Hexadecane (C16)

R.T.: 10.309 min
Delta R.T.: 0.000 min
Response: 2561685
Conc: 20.04 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.759 min
Delta R.T.: 0.000 min
Response: 2619955
Conc: 20.08 ug/ml



#9 ortho-Terphenyl (SURR)

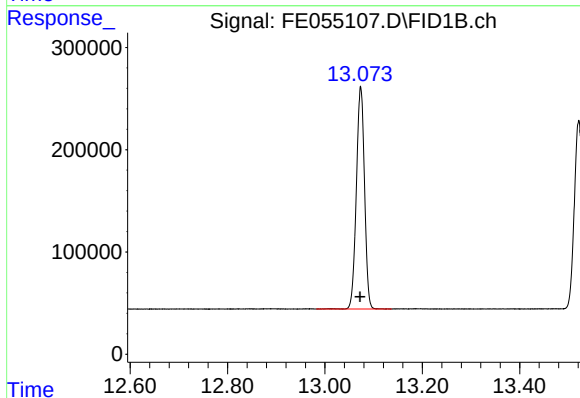
R.T.: 12.085 min
Delta R.T.: 0.000 min
Response: 2866726
Conc: 20.07 ug/ml

Instrument :

FID_E

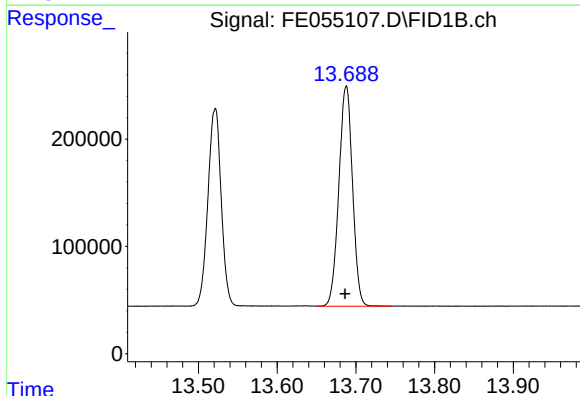
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



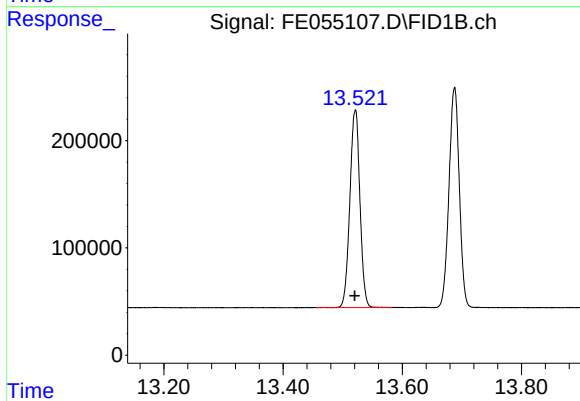
#10 n-Eicosane (C20)

R.T.: 13.073 min
Delta R.T.: 0.001 min
Response: 2518489
Conc: 20.07 ug/ml



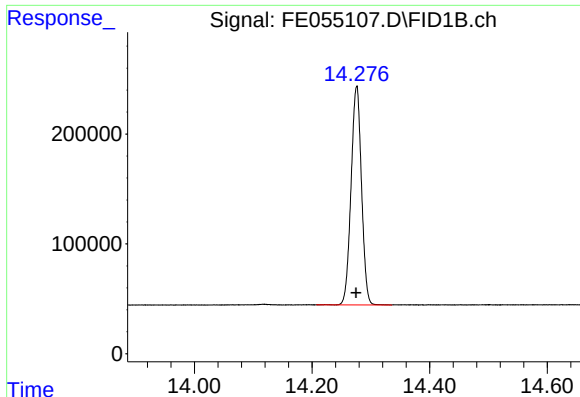
#11 n-Heneicosane (C21)

R.T.: 13.688 min
Delta R.T.: 0.001 min
Response: 2473384
Conc: 20.07 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.521 min
Delta R.T.: 0.000 min
Response: 2156193
Conc: 20.05 ug/ml



#13 n-Docosane (C22)

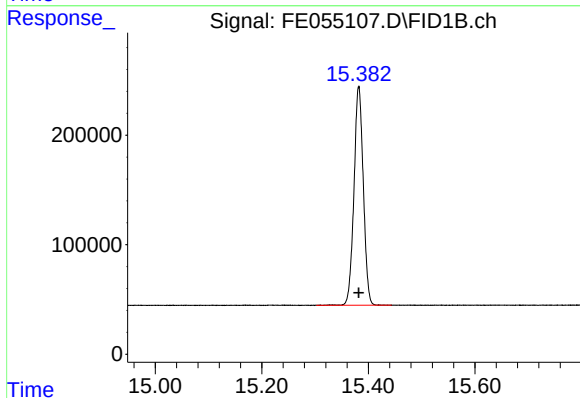
R.T.: 14.276 min
Delta R.T.: 0.000 min
Response: 2448476
Conc: 20.05 ug/ml

Instrument :

FID_E

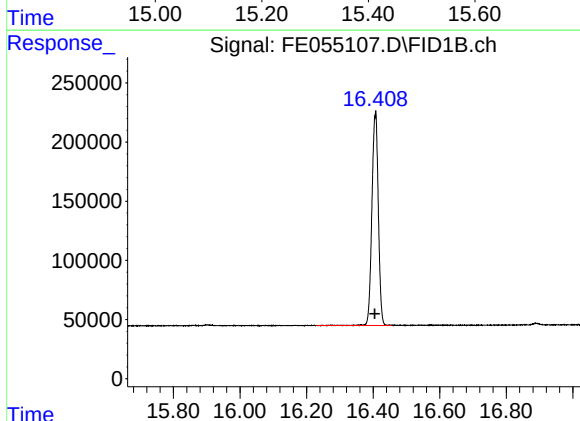
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



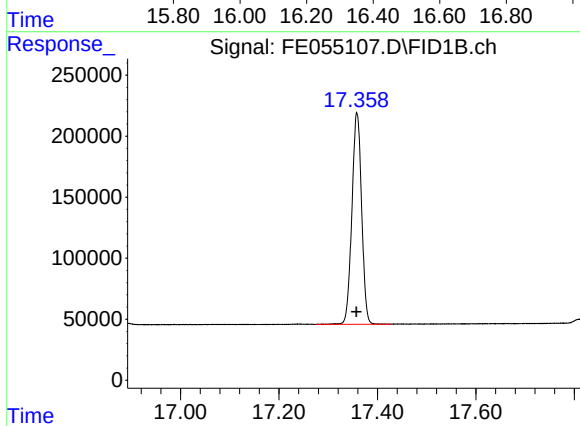
#14 n-Tetracosane (C24)

R.T.: 15.382 min
Delta R.T.: 0.000 min
Response: 2433764
Conc: 20.01 ug/ml



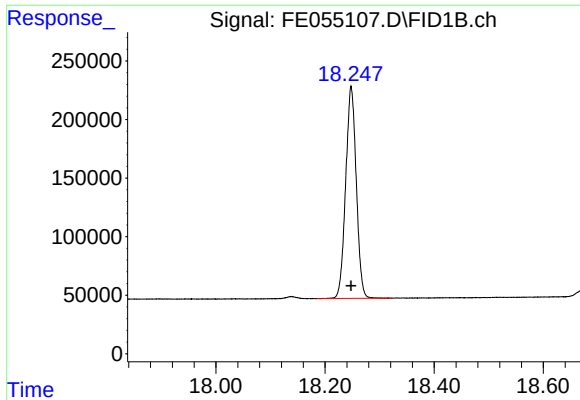
#15 n-Hexacosane (C26)

R.T.: 16.407 min
Delta R.T.: 0.002 min
Response: 2397717
Conc: 20.04 ug/ml



#16 n-Octacosane (C28)

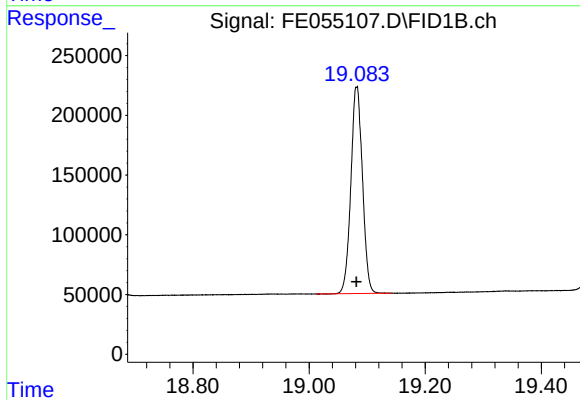
R.T.: 17.359 min
Delta R.T.: 0.002 min
Response: 2370324
Conc: 19.98 ug/ml



#17 n-Tricontane (C30)

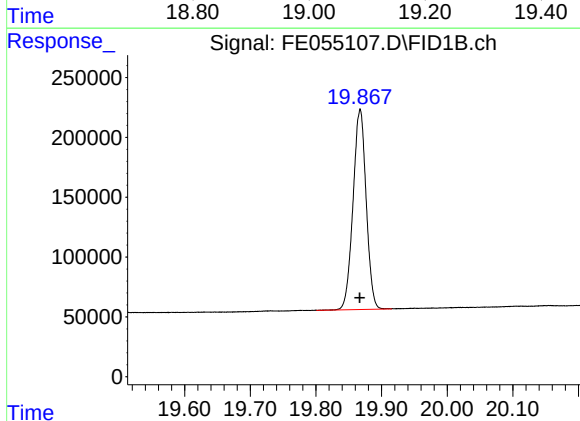
R.T.: 18.248 min
Delta R.T.: 0.000 min
Response: 2441052
Conc: 19.84 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



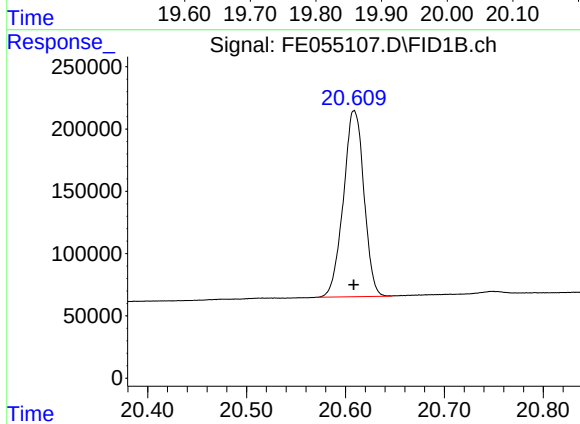
#18 n-Dotriacontane (C32)

R.T.: 19.082 min
Delta R.T.: 0.000 min
Response: 2401932
Conc: 19.69 ug/ml



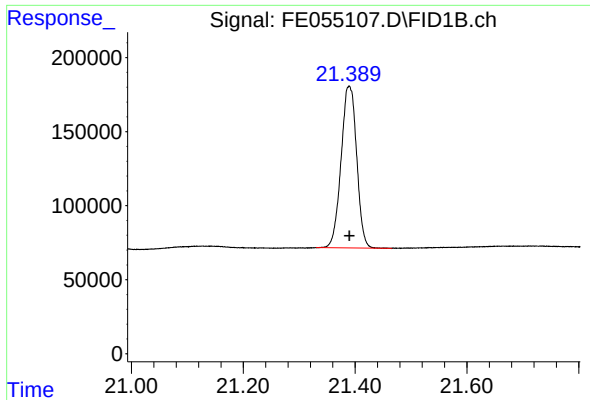
#19 n-Tetratriacontane (C34)

R.T.: 19.867 min
Delta R.T.: 0.000 min
Response: 2323225
Conc: 19.87 ug/ml



#20 n-Hexatriacontane (C36)

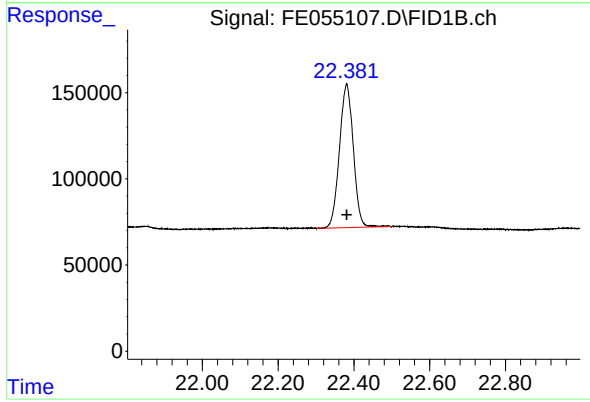
R.T.: 20.609 min
Delta R.T.: 0.000 min
Response: 2160075
Conc: 19.76 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.390 min
Delta R.T.: 0.000 min
Response: 2112729
Conc: 19.55 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.381 min
Delta R.T.: 0.000 min
Response: 2109848
Conc: 20.18 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE080125AL\
Data File : FE055107.D
Signal(s) : FID1B.ch
Acq On : 01 Aug 2025 13:55
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.423	3.380	3.482	BB	235935	2320492	80.95%	4.354%
2	4.681	4.644	4.744	BB	237548	2357337	82.23%	4.423%
3	6.400	6.357	6.500	BB	281367	2711551	94.59%	5.088%
4	6.857	6.812	6.924	BB	236802	2407946	84.00%	4.518%
5	7.501	7.460	7.622	BB	264419	2636139	91.96%	4.947%
6	8.694	8.639	8.807	BB	236777	2463791	85.94%	4.623%
7	10.309	10.247	10.400	BB	233401	2561685	89.36%	4.807%
8	11.759	11.715	11.824	PB	232814	2619955	91.39%	4.916%
9	12.085	12.024	12.154	BB	265468	2866726	100.00%	5.379%
10	13.074	12.982	13.137	BB	216764	2518489	87.85%	4.726%
11	13.521	13.455	13.582	BB	183371	2156193	75.21%	4.046%
12	13.688	13.650	13.745	PB	204951	2473384	86.28%	4.641%
13	14.276	14.207	14.335	BB	198948	2448476	85.41%	4.594%
14	15.382	15.302	15.444	BB	199328	2433764	84.90%	4.567%
15	16.407	16.229	16.455	BB	178966	2397717	83.64%	4.499%
16	17.359	17.275	17.429	BB	172737	2370324	82.68%	4.448%
17	18.248	18.184	18.322	BB	180187	2441052	85.15%	4.580%
18	19.082	19.012	19.142	BB	172722	2401932	83.79%	4.507%
19	19.867	19.800	19.915	BV	167321	2323225	81.04%	4.359%
20	20.609	20.570	20.647	BV	149142	2160075	75.35%	4.053%
21	21.390	21.330	21.465	BB	109229	2112729	73.70%	3.964%
22	22.381	22.300	22.500	BBA	83572	2109848	73.60%	3.959%
Sum of corrected areas:						53292830		

Aliphatic EPH 080125.M Fri Aug 01 15:03:05 2025

Continuing Calibration Report for SequenceID : FC082225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC069707.D

Aliphatic C16-C21	7360354.000	60.000	9.997	13.364	122672.567	133561.231	8.153
Aliphatic C21-C28	8628089.000	80.000	13.365	17.031	107851.113	118307.822	8.839
Aliphatic C9-C12	7904665.000	60.000	3.298	6.594	131744.417	144679.273	8.940
Aliphatic C12-C16	5271855.000	40.000	6.595	9.996	131796.375	143435.206	8.114
Aliphatic C28-C40	9905788.000	120.000	17.032	22.001	82548.233	95315.213	13.394
Aliphatic EPH	39070751.000	360.000	3.298	22.001	108529.864	120373.027	9.839

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	22 Aug 2025 13:18
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069707.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.298	6.594	7904665.000	60.000	ug/ml
Aliphatic C12-C16	6.595	9.996	5271855.000	40.000	ug/ml
Aliphatic C16-C21	9.997	13.364	7360354.000	60.000	ug/ml
Aliphatic C21-C28	13.365	17.031	8628089.000	80.000	ug/ml
Aliphatic C28-C40	17.032	22.001	9905788.000	120.000	ug/ml
Aliphatic EPH	3.298	22.001	39070751.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
 Data File : FC069707.D
 Signal(s) : FID1A.ch
 Acq On : 22 Aug 2025 13:18
 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 08/25/2025
 Supervised By :mohammad ahmed 08/26/2025

Integration File: autoint1.e
 Quant Time: Aug 25 01:08:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 14:14:17 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)	11.662	2754065	18.461 ug/ml
Spiked Amount 50.000		Recovery =	36.92%
12) S 1-chlorooctadecane (S...	13.098	1954672	17.929 ug/ml
Spiked Amount 50.000		Recovery =	35.86%
Target Compounds			
1) T n-Nonane (C9)	3.398	2586283	18.153 ug/ml
2) T n-Decane (C10)	4.470	2655839	18.268 ug/ml
3) T A~Naphthalene (C11.7)	6.064	2850501	18.371 ug/ml
4) T n-Dodecane (C12)	6.494	2662543	18.214 ug/ml
5) T A~2-methylnaphthalene...	7.122	2699955	18.333 ug/ml
6) T n-Tetradecane (C14)	8.292	2623334	18.382 ug/ml
7) T n-Hexadecane (C16)	9.896	2648521	18.372 ug/ml
8) T n-Octadecane (C18)	11.340	2601946	18.400 ug/ml
10) T n-Eicosane (C20)	12.652	2418459	18.359 ug/ml
11) T n-Heneicosane (C21)	13.264	2339949	18.346 ug/ml
13) T n-Docosane (C22)	13.852	2289824	18.330 ug/ml
14) T n-Tetracosane (C24)	14.956	2206515	18.285 ug/ml
15) T n-Hexacosane (C26)	15.979	2103308	18.203 ug/ml
16) T n-Octacosane (C28)	16.931	2028442	18.097 ug/ml
17) T n-Tricontane (C30)	17.819	2068782	18.069 ug/ml
18) T n-Dotriacontane (C32)	18.653	2022787	18.210 ug/ml
19) T n-Tetratriacontane (C34)	19.437	1835350	18.025 ug/ml
20) T n-Hexatriacontane (C36)	20.177	1550687	17.391 ug/ml
21) T n-Octatriacontane (C38)	20.942	1319819	16.407 ug/ml
22) T n-Tetracontane (C40)	21.901	1108363	14.802 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069707.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 13:18
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

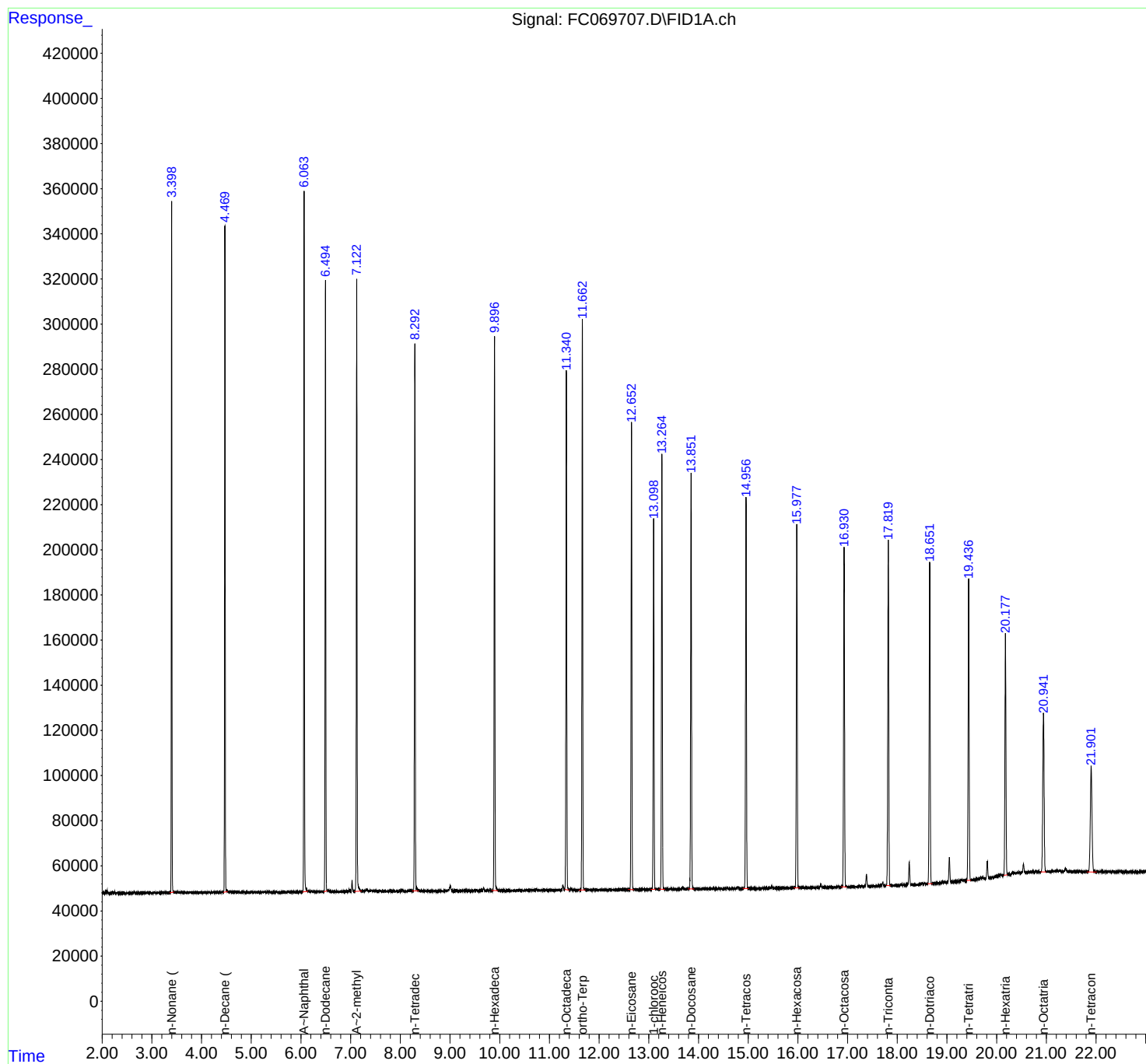
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/25/2025
Supervised By :mohammad ahmed 08/26/2025

Integration File: autoint1.e
Quant Time: Aug 25 01:08:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:14:17 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

Reviewed By :Yogesh Patel 08/25/2025
Supervised By :mohammad ahmed 08/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC08222
Data File : FC069707.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 13:18
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 080125.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	3.398	3.362	3.445	BB	306696	2586283	90.73%	5.243%
2	4.470	4.435	4.525	BB	294134	2655839	93.17%	5.384%
3	6.064	6.032	6.144	BB	310146	2850501	100.00%	5.779%
4	6.494	6.457	6.530	BB	270672	2662543	93.41%	5.398%
5	7.122	7.077	7.224	BB	271239	2699955	94.72%	5.474%
6	8.292	8.237	8.365	BB	242302	2623334	92.03%	5.318%
7	9.896	9.837	9.965	BB	246240	2648521	92.91%	5.369%
8	11.340	11.310	11.402	BB	230171	2601946	91.28%	5.275%
9	11.662	11.597	11.727	BB	252882	2754065	96.62%	5.583%
10	12.652	12.584	12.702	BB	207735	2418459	84.84%	4.903%
11	13.098	13.039	13.137	BB	164689	1954672	68.57%	3.963%
12	13.264	13.204	13.317	BB	192646	2339949	82.09%	4.744%
13	13.852	13.789	13.910	BB	184462	2289824	80.33%	4.642%
14	14.956	14.889	15.010	BB	173250	2206515	77.41%	4.473%
15	15.979	15.920	16.027	BB	158720	2103308	73.79%	4.264%
16	16.931	16.869	16.979	BB	150385	2028442	71.16%	4.112%
17	17.819	17.780	17.860	BB	152860	2068782	72.58%	4.194%
18	18.653	18.610	18.705	BB	142539	2022787	70.96%	4.101%
19	19.437	19.400	19.485	BB	133423	1835350	64.39%	3.721%
20	20.177	20.140	20.219	BB	106911	1550687	54.40%	3.144%
21	20.942	20.890	20.992	BB	70390	1319819	46.30%	2.676%
22	21.901	21.840	21.989	BB	46765	1104324	38.74%	2.239%
Sum of corrected areas:						49325903		

Aliphatic EPH 080125.M Mon Aug 25 01:33:07 2025

Continuing Calibration Report for SequenceID : FC082225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC069716.D

Aliphatic C16-C21	7520538.000	60.000	9.997	13.364	125342.300	133561.231	6.154
Aliphatic C21-C28	8793009.000	80.000	13.365	17.031	109912.613	118307.822	7.096
Aliphatic C9-C12	8250673.000	60.000	3.298	6.594	137511.217	144679.273	4.954
Aliphatic C12-C16	5467283.000	40.000	6.595	9.996	136682.075	143435.206	4.708
Aliphatic C28-C40	10712882.000	120.000	17.032	22.001	89274.017	95315.213	6.338
Aliphatic EPH	40744385.000	360.000	3.298	22.001	113178.847	120373.027	5.977

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	22 Aug 2025 22:26
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069716.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.298	6.594	8250673.000	60.000	ug/ml
Aliphatic C12-C16	6.595	9.996	5467283.000	40.000	ug/ml
Aliphatic C16-C21	9.997	13.364	7520538.000	60.000	ug/ml
Aliphatic C21-C28	13.365	17.031	8793009.000	80.000	ug/ml
Aliphatic C28-C40	17.032	22.001	10712882.000	120.000	ug/ml
Aliphatic EPH	3.298	22.001	40744385.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
 Data File : FC069716.D
 Signal(s) : FID1A.ch
 Acq On : 22 Aug 2025 22:26
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Aug 25 01:11:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 14:14:17 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)	11.663	2784138	18.662 ug/ml
Spiked Amount 50.000		Recovery =	37.32%
12) S 1-chlorooctadecane (S...	13.097	2018868	18.518 ug/ml
Spiked Amount 50.000		Recovery =	37.04%
Target Compounds			
1) T n-Nonane (C9)	3.399	2701304	18.960 ug/ml
2) T n-Decane (C10)	4.470	2775195	19.089 ug/ml
3) T A~Naphthalene (C11.7)	6.064	2929964	18.883 ug/ml
4) T n-Dodecane (C12)	6.494	2774174	18.977 ug/ml
5) T A~2-methylnaphthalene...	7.123	2769926	18.808 ug/ml
6) T n-Tetradecane (C14)	8.293	2726241	19.103 ug/ml
7) T n-Hexadecane (C16)	9.896	2741042	19.014 ug/ml
8) T n-Octadecane (C18)	11.340	2671533	18.892 ug/ml
10) T n-Eicosane (C20)	12.651	2467388	18.731 ug/ml
11) T n-Heneicosane (C21)	13.265	2381617	18.673 ug/ml
13) T n-Docosane (C22)	13.852	2328044	18.636 ug/ml
14) T n-Tetracosane (C24)	14.956	2241316	18.574 ug/ml
15) T n-Hexacosane (C26)	15.979	2140296	18.523 ug/ml
16) T n-Octacosane (C28)	16.929	2083353	18.587 ug/ml
17) T n-Tricontane (C30)	17.818	2147788	18.759 ug/ml
18) T n-Dotriacontane (C32)	18.651	2134910	19.219 ug/ml
19) T n-Tetratriacontane (C34)	19.438	1961742	19.266 ug/ml
20) T n-Hexatriacontane (C36)	20.178	1690914	18.964 ug/ml
21) T n-Octatriacontane (C38)	20.941	1485754	18.470 ug/ml
22) T n-Tetracontane (C40)	21.902	1291774	17.251 ug/ml

(f)=RT Delta > 1/2 Window

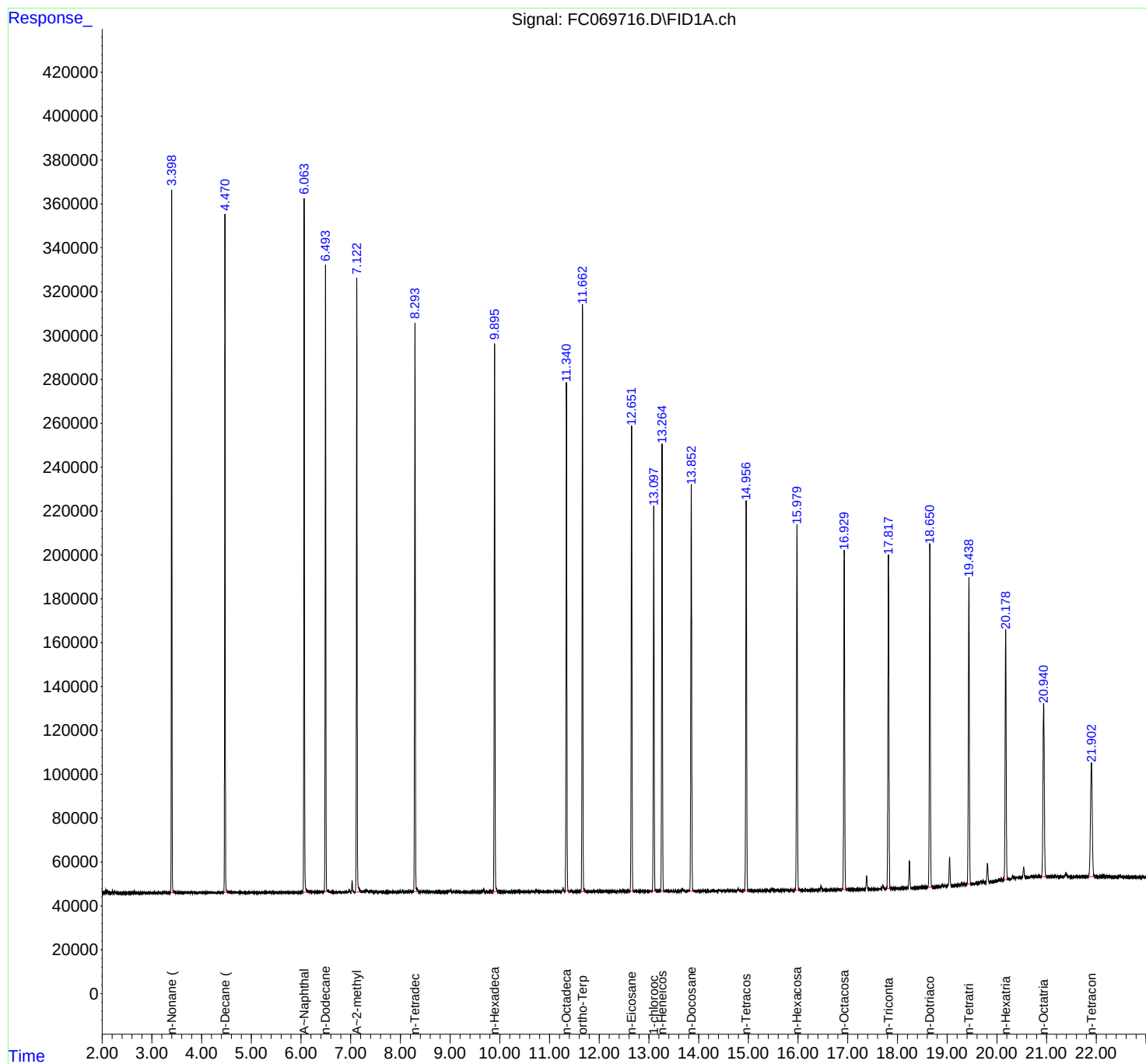
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069716.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 22:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Aug 25 01:11:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:14:17 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
 Data File : FC069716.D
 Signal(s) : FID1A.ch
 Acq On : 22 Aug 2025 22:26
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.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	3.399	3.369	3.450	BB	320665	2701304	92.20%	5.271%
2	4.470	4.437	4.527	BB	308975	2775195	94.72%	5.415%
3	6.064	6.030	6.140	BB	315379	2929964	100.00%	5.717%
4	6.494	6.457	6.527	BB	285852	2774174	94.68%	5.413%
5	7.123	7.079	7.217	BB	278939	2769926	94.54%	5.405%
6	8.293	8.257	8.364	BB	260361	2726241	93.05%	5.320%
7	9.896	9.835	9.975	BB	250002	2741042	93.55%	5.349%
8	11.340	11.310	11.402	BB	231517	2671533	91.18%	5.213%
9	11.663	11.627	11.727	BB	267110	2784138	95.02%	5.433%
10	12.651	12.597	12.699	BB	212441	2467388	84.21%	4.815%
11	13.097	13.047	13.150	BB	174899	2018868	68.90%	3.939%
12	13.265	13.227	13.314	BB	203608	2381617	81.28%	4.647%
13	13.852	13.789	13.912	BB	185054	2328044	79.46%	4.543%
14	14.956	14.889	15.009	BB	177422	2241316	76.50%	4.374%
15	15.979	15.912	16.032	BB	166719	2140296	73.05%	4.176%
16	16.929	16.855	16.992	BB	153917	2083353	71.11%	4.065%
17	17.818	17.780	17.864	BB	151521	2147788	73.30%	4.191%
18	18.651	18.610	18.704	BB	156045	2134910	72.86%	4.166%
19	19.438	19.400	19.477	BB	139098	1961742	66.95%	3.828%
20	20.178	20.140	20.219	BB	113617	1690914	57.71%	3.300%
21	20.941	20.890	21.017	BB	78736	1485754	50.71%	2.899%
22	21.902	21.840	21.984	BB	51875	1291774	44.09%	2.521%
Sum of corrected areas:							51247280	

Aliphatic EPH 080125.M Mon Aug 25 01:37:43 2025

Continuing Calibration Report for SequenceID : FD082225AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FD049645.D

Aromatic C10-C12	4751542.000	40.000	4.407	6.150	118788.550	107939.663	-10.051
Aromatic C12-C16	8287038.000	60.000	6.151	8.778	138117.300	123580.152	-11.763
Aromatic C16-C21	10674121.000	80.000	8.779	13.069	133426.513	126486.361	-5.487
Aromatic C21-C36	20574666.000	180.000	13.070	18.489	114303.700	112618.254	-1.497
Aromatic EPH	44287367.000	360.000	4.407	18.489	123020.464	117007.195	-5.139

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	22 Aug 2025 13:18
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049645.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.407	6.150	4751542.000	40.000	ug/ml
Aromatic C12-C16	6.151	8.778	8287038.000	60.000	ug/ml
Aromatic C16-C21	8.779	13.069	10674121.000	80.000	ug/ml
Aromatic C21-C36	13.070	18.489	20574666.000	180.000	ug/ml
Aromatic EPH	4.407	18.489	44287367.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049645.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 13:18
 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

Integration File: sample.E
 Quant Time: Aug 25 01:47:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.714	2300416	22.446 ug/ml
Spiked Amount 50.000		Recovery =	44.89%
6) S 2-Fluorobiphenyl (SURR)	8.578	1625040	22.247 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	44.49%
11) S ortho-Terphenyl (SURR)	11.624	2881552	22.201 ug/ml
Spiked Amount 50.000		Recovery =	44.40%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.507	2203974	21.774 ug/ml
2) T Naphthalene (C11.7)	6.050	2547568	22.219 ug/ml
3) T 2-Methylnaphthalene (...)	7.103	2664885	22.339 ug/ml
5) T Acenaphthylene (C15.06)	8.382	2800771	22.279 ug/ml
7) T Acenaphthene (C15.5)	8.678	2821382	22.439 ug/ml
8) T Flouorene (C16.55)	9.459	2805741	22.161 ug/ml
9) T Phenanthrene (C19.36)	10.857	2779955	21.520 ug/ml
10) T Anthracene (C19.43)	10.932	2380488	19.323 ug/ml
12) T Fluoranthene (C21.85)	12.671	2736243	21.374 ug/ml
13) T Pyrene (C20.8)	12.969	2707937	21.328 ug/ml
14) T Benzo[a]anthracene (C...	14.841	2306772	19.990 ug/ml
15) T Chrysene (C27.41)	14.883	2397801	20.480 ug/ml
16) T benzo[b]fluoranthene ...	16.391	2312515	20.333 ug/ml
17) T Bnezo[k]fluoranthene ...	16.423	2165167	20.226 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.770	2177868	19.632 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.133	2037685	19.768 ug/ml
20) T Dibenz[a,h]anthracene...	18.174	2256505	20.702 ug/ml
21) T Benzo[g,h,i]perylene ...	18.389	2184110	19.987 ug/ml

(f)=RT Delta > 1/2 Window

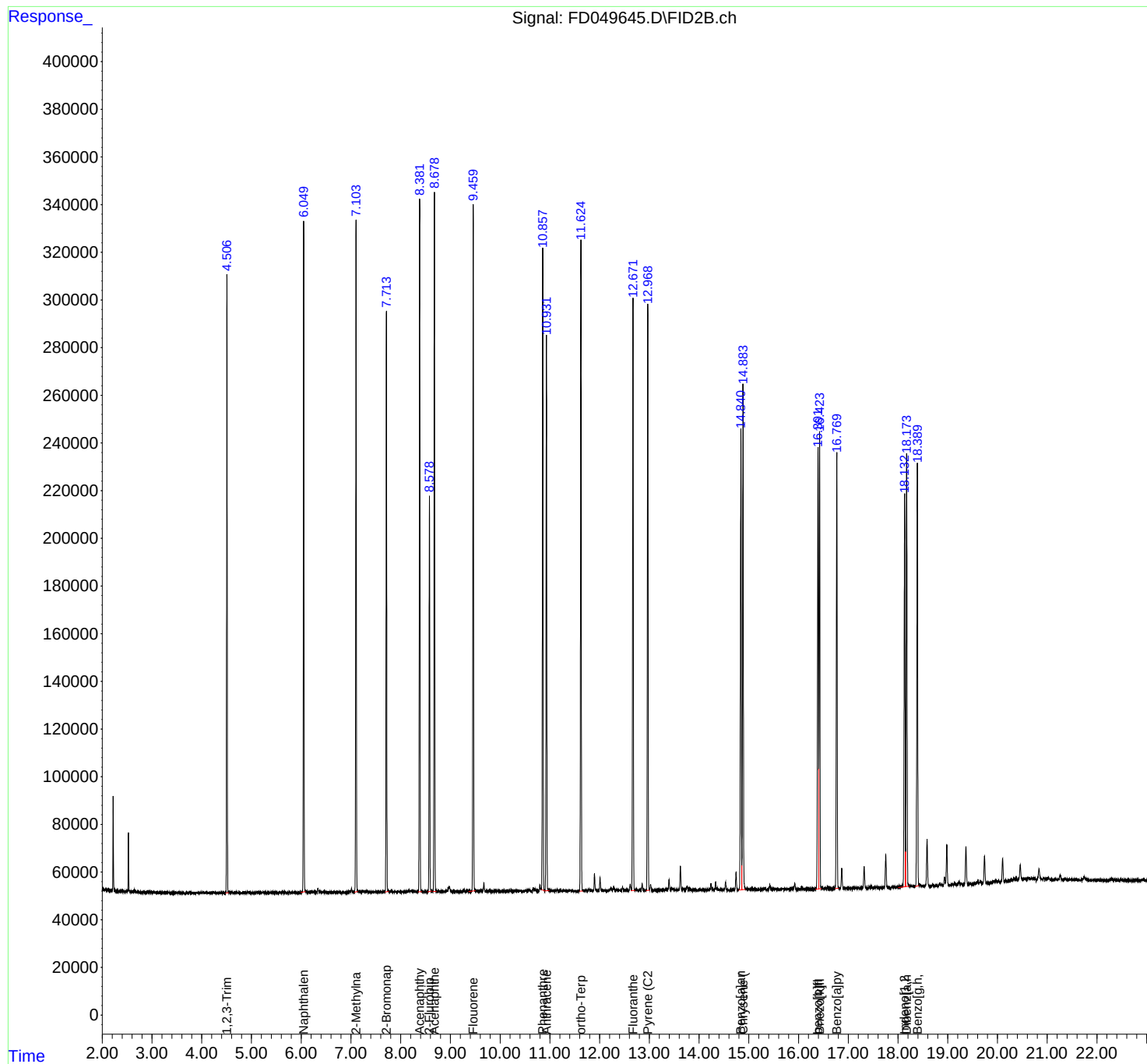
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049645.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 13:18
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

Integration File: sample.E
Quant Time: Aug 25 01:47:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 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\FD082225AR\
Data File : FD049645.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 13:18
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 081125.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	4.507	4.479	4.547	BB	259227	2203974	76.49%	4.314%
2	6.050	5.995	6.087	BB	281068	2547568	88.41%	4.986%
3	7.103	7.069	7.142	BB	281724	2664885	92.48%	5.216%
4	7.714	7.687	7.757	BB	243503	2300416	79.83%	4.502%
5	8.382	8.349	8.429	BB	290479	2800771	97.20%	5.482%
6	8.578	8.544	8.625	BB	165876	1625040	56.39%	3.180%
7	8.678	8.649	8.720	BB	294000	2821382	97.91%	5.522%
8	9.459	9.370	9.497	BB	286569	2805741	97.37%	5.491%
9	10.857	10.830	10.894	BB	268996	2779955	96.47%	5.441%
10	10.932	10.902	10.985	BB	232663	2380488	82.61%	4.659%
11	11.624	11.594	11.665	BB	272099	2881552	100.00%	5.640%
12	12.671	12.639	12.715	VB	249639	2736243	94.96%	5.355%
13	12.969	12.937	13.002	BV	245742	2707937	93.97%	5.300%
14	14.841	14.799	14.861	BV	193138	2306772	80.05%	4.515%
15	14.883	14.861	14.935	VB	211549	2397801	83.21%	4.693%
16	16.391	16.345	16.406	BV	185454	2312515	80.25%	4.526%
17	16.423	16.406	16.465	VB	192127	2165167	75.14%	4.238%
18	16.770	16.730	16.805	BB	182755	2177868	75.58%	4.262%
19	18.133	18.007	18.151	BV	164647	2037685	70.71%	3.988%
20	18.174	18.151	18.225	VB	181429	2256505	78.31%	4.416%
21	18.389	18.337	18.417	BV	177559	2184110	75.80%	4.275%
Sum of corrected areas:							51094374	

Aromatic EPH 081125.M Mon Aug 25 02:40:45 2025

Continuing Calibration Report for SequenceID : FD082225AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FD049655.D

Aromatic C10-C12	4855203.000	40.000	4.407	6.150	121380.075	107939.663	-12.452
Aromatic C12-C16	8282990.000	60.000	6.151	8.778	138049.833	123580.152	-11.709
Aromatic C16-C21	10768702.000	80.000	8.779	13.069	134608.775	126486.361	-6.422
Aromatic C21-C36	20980863.000	180.000	13.070	18.489	116560.350	112618.254	-3.500
Aromatic EPH	44887758.000	360.000	4.407	18.489	124688.217	117007.195	-6.565

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	22 Aug 2025 23:13
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049655.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.407	6.150	4855203.000	40.000	ug/ml
Aromatic C12-C16	6.151	8.778	8282990.000	60.000	ug/ml
Aromatic C16-C21	8.779	13.069	10768702.000	80.000	ug/ml
Aromatic C21-C36	13.070	18.489	20980863.000	180.000	ug/ml
Aromatic EPH	4.407	18.489	44887758.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049655.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 23:13
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD

Integration File: sample.E
 Quant Time: Aug 25 01:51:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.713	2311005	22.549 ug/ml
Spiked Amount 50.000		Recovery =	45.10%
6) S 2-Fluorobiphenyl (SURR)	8.579	1642650	22.488 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	44.98%
11) S ortho-Terphenyl (SURR)	11.625	2841802	21.895 ug/ml
Spiked Amount 50.000		Recovery =	43.79%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.505	2261614	22.344 ug/ml
2) T Naphthalene (C11.7)	6.049	2593589	22.620 ug/ml
3) T 2-Methylnaphthalene (...)	7.103	2698036	22.617 ug/ml
5) T Acenaphthylene (C15.06)	8.382	2782138	22.131 ug/ml
7) T Acenaphthene (C15.5)	8.678	2802816	22.291 ug/ml
8) T Flouorene (C16.55)	9.459	2807501	22.175 ug/ml
9) T Phenanthrene (C19.36)	10.858	2829122	21.901 ug/ml
10) T Anthracene (C19.43)	10.932	2428649	19.714 ug/ml
12) T Fluoranthene (C21.85)	12.672	2737470	21.384 ug/ml
13) T Pyrene (C20.8)	12.970	2703430	21.293 ug/ml
14) T Benzo[a]anthracene (C...	14.841	2377031	20.599 ug/ml
15) T Chrysene (C27.41)	14.884	2451764	20.940 ug/ml
16) T benzo[b]fluoranthene ...	16.393	2335751	20.537 ug/ml
17) T Bnezo[k]fluoranthene ...	16.425	2185107	20.413 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.771	2205872	19.884 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.136	2076423	20.144 ug/ml
20) T Dibenz[a,h]anthracene...	18.176	2407474	22.087 ug/ml
21) T Benzo[g,h,i]perylene ...	18.391	2203971	20.169 ug/ml

(f)=RT Delta > 1/2 Window

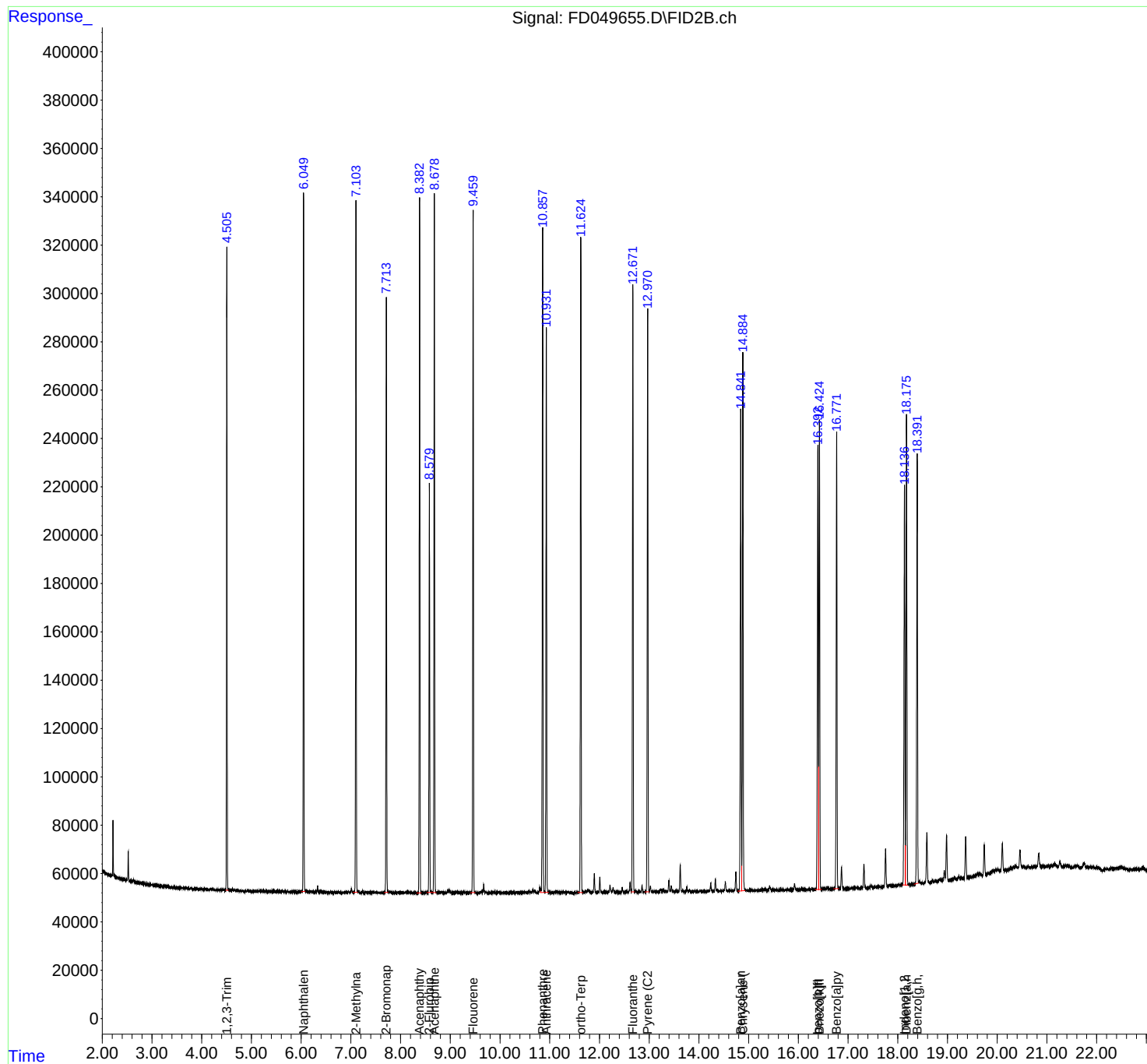
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049655.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 23:13
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Aug 25 01:51:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 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\FD082225AR\
 Data File : FD049655.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 23:13
 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 081125.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	4.505	4.480	4.536	BB	265756	2261614	79.58%	4.376%
2	6.049	5.998	6.085	BB	288696	2593589	91.27%	5.018%
3	7.103	7.042	7.138	BB	286339	2698036	94.94%	5.220%
4	7.713	7.663	7.748	BB	245760	2311005	81.32%	4.471%
5	8.382	8.328	8.423	BB	287015	2782138	97.90%	5.383%
6	8.579	8.532	8.618	BB	168831	1642650	57.80%	3.178%
7	8.678	8.622	8.718	BB	288897	2802816	98.63%	5.423%
8	9.459	9.403	9.502	BB	282995	2807501	98.79%	5.432%
9	10.858	10.814	10.895	VB	274953	2829122	99.55%	5.474%
10	10.932	10.902	10.980	BB	234139	2428649	85.46%	4.699%
11	11.625	11.570	11.667	BB	270722	2841802	100.00%	5.499%
12	12.672	12.638	12.702	VB	251189	2737470	96.33%	5.297%
13	12.970	12.917	12.998	BV	240760	2703430	95.13%	5.231%
14	14.841	14.787	14.861	BV	199045	2377031	83.65%	4.599%
15	14.884	14.861	14.935	VB	222453	2451764	86.27%	4.744%
16	16.393	16.333	16.408	BV	183320	2335751	82.19%	4.519%
17	16.425	16.408	16.467	VB	193339	2185107	76.89%	4.228%
18	16.771	16.707	16.815	BB	189377	2205872	77.62%	4.268%
19	18.136	18.092	18.153	BV	165450	2076423	73.07%	4.018%
20	18.176	18.153	18.212	VV	193827	2407474	84.72%	4.658%
21	18.391	18.323	18.418	BV	178395	2203971	77.56%	4.264%
Sum of corrected areas:							51683216	

Aromatic EPH 081125.M Mon Aug 25 02:48:10 2025

Continuing Calibration Report for SequenceID : FD082225AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FD049666.D

Aromatic C10-C12	4410803.000	40.000	4.407	6.150	110270.075	107939.663	-2.159
Aromatic C12-C16	7531907.000	60.000	6.151	8.778	125531.783	123580.152	-1.579
Aromatic C16-C21	10146229.000	80.000	8.779	13.069	126827.863	126486.361	-0.270
Aromatic C21-C36	21272022.000	180.000	13.070	18.489	118177.900	112618.254	-4.937
Aromatic EPH	43360961.000	360.000	4.407	18.489	120447.114	117007.195	-2.940

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	23 Aug 2025 08:55
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049666.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.407	6.150	4410803.000	40.000	ug/ml
Aromatic C12-C16	6.151	8.778	7531907.000	60.000	ug/ml
Aromatic C16-C21	8.779	13.069	10146229.000	80.000	ug/ml
Aromatic C21-C36	13.070	18.489	21272022.000	180.000	ug/ml
Aromatic EPH	4.407	18.489	43360961.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049666.D
 Signal(s) : FID2B.ch
 Acq On : 23 Aug 2025 08:55
 Operator : YP/AJ
 Sample : 20 PPM AROMATIC HC STD
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 20 PPM AROMATIC HC STD

Integration File: sample.E
 Quant Time: Aug 25 02:31:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.713	2090296	20.396 ug/ml
Spiked Amount 50.000		Recovery =	40.79%
6) S 2-Fluorobiphenyl (SURR)	8.578	1501049	20.549 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	41.10%
11) S ortho-Terphenyl (SURR)	11.624	2639586	20.337 ug/ml
Spiked Amount 50.000		Recovery =	40.67%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.505	2062607	20.378 ug/ml
2) T Naphthalene (C11.7)	6.049	2348196	20.480 ug/ml
3) T 2-Methylnaphthalene (...)	7.103	2439474	20.449 ug/ml
5) T Acenaphthylene (C15.06)	8.382	2537370	20.184 ug/ml
7) T Acenaphthene (C15.5)	8.678	2555063	20.321 ug/ml
8) T Flouorene (C16.55)	9.459	2581749	20.392 ug/ml
9) T Phenanthrene (C19.36)	10.857	2640384	20.440 ug/ml
10) T Anthracene (C19.43)	10.931	2272272	18.445 ug/ml
12) T Fluoranthene (C21.85)	12.671	2668608	20.846 ug/ml
13) T Pyrene (C20.8)	12.969	2651824	20.886 ug/ml
14) T Benzo[a]anthracene (C...	14.840	2420165	20.973 ug/ml
15) T Chrysene (C27.41)	14.883	2498221	21.337 ug/ml
16) T benzo[b]fluoranthene ...	16.391	2385243	20.972 ug/ml
17) T Bnezo[k]fluoranthene ...	16.424	2233938	20.869 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.770	2252963	20.309 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.135	2124310	20.609 ug/ml
20) T Dibenz[a,h]anthracene...	18.175	2451239	22.489 ug/ml
21) T Benzo[g,h,i]perylene ...	18.390	2237335	20.474 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049666.D
 Signal(s) : FID2B.ch
 Acq On : 23 Aug 2025 08:55
 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 081125.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	4.505	4.462	4.543	BB	242572	2062607	77.29%	4.159%
2	6.049	5.995	6.090	BB	260565	2348196	87.99%	4.735%
3	7.103	7.050	7.142	BB	261949	2439474	91.41%	4.919%
4	7.713	7.665	7.750	BB	217492	2090296	78.33%	4.215%
5	8.382	8.327	8.427	BB	264208	2537370	95.08%	5.117%
6	8.578	8.523	8.623	BB	155224	1501049	56.25%	3.027%
7	8.678	8.625	8.718	BB	262914	2555063	95.75%	5.152%
8	9.459	9.412	9.490	BB	259180	2581749	96.75%	5.206%
9	10.857	10.823	10.900	BV	259272	2640384	98.94%	5.324%
10	10.931	10.900	10.972	PB	222432	2272272	85.15%	4.582%
11	11.624	11.565	11.653	BB	248483	2639586	98.91%	5.323%
12	12.671	12.637	12.717	VB	242478	2668608	100.00%	5.381%
13	12.969	12.908	13.003	BV	247254	2651824	99.37%	5.347%
14	14.840	14.787	14.861	BV	204642	2420165	90.69%	4.880%
15	14.883	14.861	14.933	VV	223762	2498221	93.62%	5.038%
16	16.391	16.330	16.407	BV	186077	2385243	89.38%	4.810%
17	16.424	16.407	16.467	VB	197674	2233938	83.71%	4.505%
18	16.770	16.707	16.817	BB	185198	2252963	84.42%	4.543%
19	18.135	17.987	18.152	BV	163000	2124310	79.60%	4.284%
20	18.175	18.152	18.220	VB	200605	2451239	91.85%	4.943%
21	18.390	18.325	18.417	BV	177857	2237335	83.84%	4.511%
Sum of corrected areas:							49591893	

Aromatic EPH 081125.M Mon Aug 25 02:49:37 2025

Continuing Calibration Report for SequenceID : FE082525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE055473.D

Aliphatic C9-C12	6490584.000	60.000	3.318	6.954	108176.400	116782.597	7.369
Aliphatic C12-C16	4660914.000	40.000	6.955	10.408	116522.850	125227.070	6.951
Aliphatic C16-C21	7407402.000	60.000	10.409	13.788	123456.700	126404.887	2.332
Aliphatic C21-C28	9757477.000	80.000	13.789	17.461	121968.463	120505.719	-1.214
Aliphatic C28-C40	14751339.000	120.000	17.462	22.488	122927.825	113987.195	-7.844
Aliphatic EPH	43067716.000	360.000	3.318	22.488	119632.544	119220.147	-0.346

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	25 Aug 2025 09:22
Client Sample ID:		Operator:	YP\AJ
Data file:	FE055473.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.318	6.954	6490584.000	60.000	ug/ml
Aliphatic C12-C16	6.955	10.408	4660914.000	40.000	ug/ml
Aliphatic C16-C21	10.409	13.788	7407402.000	60.000	ug/ml
Aliphatic C21-C28	13.789	17.461	9757477.000	80.000	ug/ml
Aliphatic C28-C40	17.462	22.488	14751339.000	120.000	ug/ml
Aliphatic EPH	3.318	22.488	43067716.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
 Data File : FE055473.D
 Signal(s) : FID1B.ch
 Acq On : 25 Aug 2025 09:22
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Aug 25 11:25:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 13:47:09 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)	12.086	2801568	19.618 ug/ml
Spiked Amount 50.000		Recovery =	39.24%
12) S 1-chlorooctadecane (S...	13.522	2138877	19.892 ug/ml
Spiked Amount 50.000		Recovery =	39.78%
Target Compounds			
1) T n-Nonane (C9)	3.418	2095426	18.258 ug/ml
2) T n-Decane (C10)	4.677	2169190	18.620 ug/ml
3) T A~Naphthalene (C11.7)	6.398	2477556	18.457 ug/ml
4) T n-Dodecane (C12)	6.854	2225968	18.693 ug/ml
5) T A~2-methylnaphthalene...	7.501	2432947	18.660 ug/ml
6) T n-Tetradecane (C14)	8.692	2264907	18.472 ug/ml
7) T n-Hexadecane (C16)	10.308	2396007	18.742 ug/ml
8) T n-Octadecane (C18)	11.758	2502489	19.180 ug/ml
10) T n-Eicosane (C20)	13.074	2464832	19.644 ug/ml
11) T n-Heneicosane (C21)	13.688	2440081	19.795 ug/ml
13) T n-Docosane (C22)	14.276	2447968	20.046 ug/ml
14) T n-Tetracosane (C24)	15.383	2456227	20.194 ug/ml
15) T n-Hexacosane (C26)	16.408	2415536	20.189 ug/ml
16) T n-Octacosane (C28)	17.361	2437746	20.550 ug/ml
17) T n-Tricontane (C30)	18.251	2628908	21.365 ug/ml
18) T n-Dotriacontane (C32)	19.086	2718037	22.277 ug/ml
19) T n-Tetratriacontane (C34)	19.871	2547247	21.786 ug/ml
20) T n-Hexatriacontane (C36)	20.613	2385919	21.829 ug/ml
21) T n-Octatriacontane (C38)	21.394	2411324	22.312 ug/ml
22) T n-Tetracontane (C40)	22.388	2059904	19.698 ug/ml

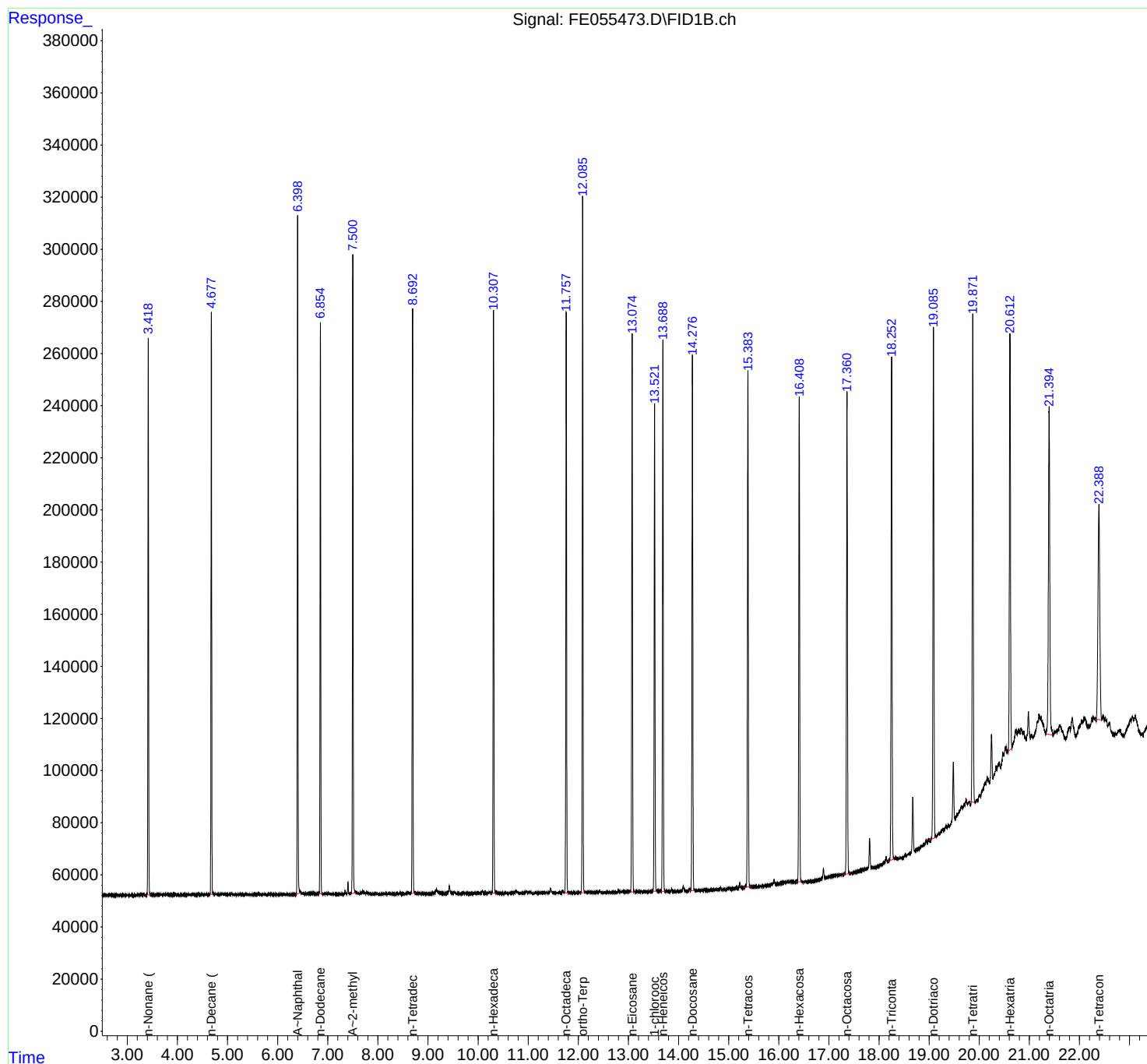
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055473.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 09:22
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 25 11:25:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
 Data File : FE055473.D
 Signal(s) : FID1B.ch
 Acq On : 25 Aug 2025 09:22
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.418	3.382	3.469	BB	213084	2095426	74.79%	3.960%
2	4.677	4.644	4.724	BB	223255	2169190	77.43%	4.099%
3	6.398	6.362	6.462	BB	259568	2477556	88.43%	4.682%
4	6.854	6.815	6.894	BB	219097	2225968	79.45%	4.206%
5	7.501	7.460	7.562	BB	244771	2432947	86.84%	4.598%
6	8.692	8.659	8.745	BB	224156	2264907	80.84%	4.280%
7	10.308	10.272	10.357	BB	223304	2396007	85.52%	4.528%
8	11.758	11.712	11.809	BB	222742	2502489	89.32%	4.729%
9	12.086	12.045	12.134	BB	267075	2801568	100.00%	5.294%
10	13.074	13.032	13.124	BB	214234	2464832	87.98%	4.658%
11	13.522	13.489	13.572	BB	187250	2138877	76.35%	4.042%
12	13.688	13.650	13.729	BB	212497	2440081	87.10%	4.611%
13	14.276	14.207	14.322	BB	204185	2447968	87.38%	4.626%
14	15.383	15.304	15.437	BB	198332	2456227	87.67%	4.642%
15	16.408	16.349	16.457	BB	185940	2415536	86.22%	4.565%
16	17.361	17.289	17.420	BB	184839	2437746	87.01%	4.607%
17	18.251	18.185	18.305	BB	193726	2628908	93.84%	4.968%
18	19.086	19.000	19.137	BV	196704	2718037	97.02%	5.136%
19	19.871	19.800	19.919	BV	186986	2547247	90.92%	4.814%
20	20.613	20.570	20.653	BV	157874	2385919	85.16%	4.509%
21	21.394	21.330	21.477	BV	125219	2411324	86.07%	4.557%
22	22.388	22.300	22.445	BV	82634	2059904	73.53%	3.893%
Sum of corrected areas:							52918663	

Aliphatic EPH 080125.M Mon Aug 25 11:28:34 2025

Continuing Calibration Report for SequenceID : FE082525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE055490.D

Aliphatic C9-C12	7060348.000	60.000	3.318	6.954	117672.467	116782.597	-0.762
Aliphatic C12-C16	5003269.000	40.000	6.955	10.408	125081.725	125227.070	0.116
Aliphatic C16-C21	8033765.000	60.000	10.409	13.788	133896.083	126404.887	-5.926
Aliphatic C21-C28	10664168.000	80.000	13.789	17.461	133302.100	120505.719	-10.619
Aliphatic C28-C40	15220639.000	120.000	17.462	22.488	126838.658	113987.195	-11.274
Aliphatic EPH	45982189.000	360.000	3.318	22.488	127728.303	119220.147	-7.137

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	25 Aug 2025 19:22
Client Sample ID:		Operator:	YP\AJ
Data file:	FE055490.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.318	6.954	7060348.000	60.000	ug/ml
Aliphatic C12-C16	6.955	10.408	5003269.000	40.000	ug/ml
Aliphatic C16-C21	10.409	13.788	8033765.000	60.000	ug/ml
Aliphatic C21-C28	13.789	17.461	10664168.000	80.000	ug/ml
Aliphatic C28-C40	17.462	22.488	15220639.000	120.000	ug/ml
Aliphatic EPH	3.318	22.488	45982189.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
 Data File : FE055490.D
 Signal(s) : FID1B.ch
 Acq On : 25 Aug 2025 19:22
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Aug 26 01:42:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 Qlast Update : Fri Aug 01 13:47:09 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)	12.085	3034014	21.246 ug/ml
Spiked Amount 50.000		Recovery =	42.49%
12) S 1-chlorooctadecane (S...	13.521	2335185	21.718 ug/ml
Spiked Amount 50.000		Recovery =	43.44%
Target Compounds			
1) T n-Nonane (C9)	3.418	2313210	20.155 ug/ml
2) T n-Decane (C10)	4.677	2352758	20.196 ug/ml
3) T A~Naphthalene (C11.7)	6.399	2699411	20.110 ug/ml
4) T n-Dodecane (C12)	6.854	2394380	20.107 ug/ml
5) T A~2-methylnaphthalene...	7.500	2631125	20.180 ug/ml
6) T n-Tetradecane (C14)	8.691	2435139	19.861 ug/ml
7) T n-Hexadecane (C16)	10.307	2568130	20.088 ug/ml
8) T n-Octadecane (C18)	11.757	2713110	20.794 ug/ml
10) T n-Eicosane (C20)	13.073	2672696	21.301 ug/ml
11) T n-Heneicosane (C21)	13.687	2647959	21.481 ug/ml
13) T n-Docosane (C22)	14.275	2674361	21.899 ug/ml
14) T n-Tetracosane (C24)	15.383	2715425	22.325 ug/ml
15) T n-Hexacosane (C26)	16.407	2642462	22.086 ug/ml
16) T n-Octacosane (C28)	17.360	2631920	22.187 ug/ml
17) T n-Tricontane (C30)	18.250	2721925	22.121 ug/ml
18) T n-Dotriacontane (C32)	19.084	2743268	22.484 ug/ml
19) T n-Tetratriacontane (C34)	19.870	2607049	22.298 ug/ml
20) T n-Hexatriacontane (C36)	20.612	2457604	22.485 ug/ml
21) T n-Octatriacontane (C38)	21.392	2389009	22.106 ug/ml
22) T n-Tetracontane (C40)	22.384	2301784	22.011 ug/ml

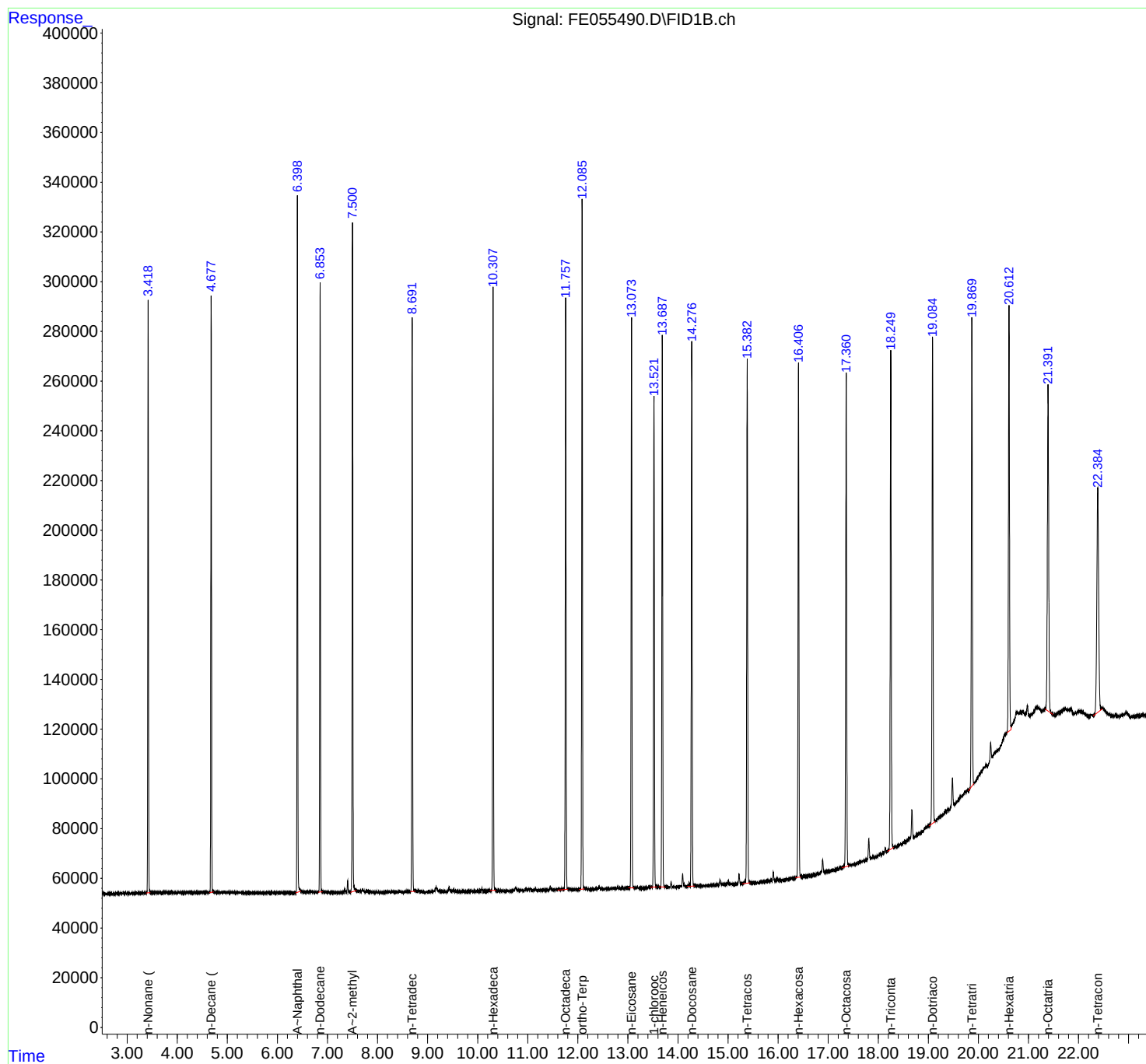
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
Data File : FE055490.D
Signal(s) : FID1B.ch
Acq On : 25 Aug 2025 19:22
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Aug 26 01:42:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 13:47:09 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE082525AL\
 Data File : FE055490.D
 Signal(s) : FID1B.ch
 Acq On : 25 Aug 2025 19:22
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 080125.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.418	3.380	3.464	BB	237376	2313210	76.24%	4.081%
2	4.677	4.644	4.725	BB	240164	2352758	77.55%	4.151%
3	6.399	6.367	6.472	BB	279688	2699411	88.97%	4.762%
4	6.854	6.817	6.900	BB	245253	2394380	78.92%	4.224%
5	7.500	7.457	7.574	BB	269296	2631125	86.72%	4.642%
6	8.691	8.659	8.749	BB	230309	2435139	80.26%	4.296%
7	10.308	10.247	10.360	BB	243091	2568130	84.64%	4.531%
8	11.757	11.595	11.807	BB	237432	2713110	89.42%	4.787%
9	12.085	12.030	12.132	BB	277261	3034014	100.00%	5.353%
10	13.073	13.015	13.125	BB	229938	2672696	88.09%	4.715%
11	13.521	13.455	13.574	BB	196744	2335185	76.97%	4.120%
12	13.687	13.627	13.744	BB	221186	2647959	87.28%	4.672%
13	14.275	14.182	14.332	BB	217262	2674361	88.15%	4.718%
14	15.383	15.294	15.440	BB	210279	2715425	89.50%	4.791%
15	16.407	16.349	16.457	BB	206015	2642462	87.09%	4.662%
16	17.360	17.275	17.422	BB	198324	2631920	86.75%	4.643%
17	18.250	18.184	18.310	BB	201021	2721925	89.71%	4.802%
18	19.084	19.012	19.144	BB	196074	2743268	90.42%	4.840%
19	19.870	19.800	19.909	BB	187347	2607049	85.93%	4.599%
20	20.612	20.570	20.652	BV	171395	2457604	81.00%	4.336%
21	21.392	21.330	21.484	BB	130873	2389009	78.74%	4.215%
22	22.384	22.300	22.477	BB	90307	2301784	75.87%	4.061%
Sum of corrected areas:							56681921	

Aliphatic EPH 080125.M Tue Aug 26 01:44:36 2025



QC SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB169364BL	SDG No.:	Q2832
Lab Sample ID:	PB169364BL	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
08/21/25 11:00	08/22/25 17:14	PB169364

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	FC069710.D
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	1	0.11	0.67	mg/kg	FC069710.D
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	1	0.13	1.00	mg/kg	FC069710.D
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	1	0.53	1.33	mg/kg	FC069710.D
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC069710.D
Aromatic C10-C12	Aromatic C10-C12	0.12	U	1	0.12	0.67	mg/kg	FD049648.D
Aromatic C12-C16	Aromatic C12-C16	0.23	U	1	0.23	1.00	mg/kg	FD049648.D
Aromatic C16-C21	Aromatic C16-C21	0.40	U	1	0.40	1.67	mg/kg	FD049648.D
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1	1.19	2.67	mg/kg	FD049648.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	1.94	U		1.94	6.01	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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB169364BL	SDG No.:	Q2832
Lab Sample ID:	PB169364BL	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
FC069710.D	1	08/21/25	08/22/25	PB169364

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)	40.8		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169364BL	Acq On:	22 Aug 2025 17:14
Client Sample ID:	PB169364BL	Operator:	YP/AJ
Data file:	FC069710.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	3.298	6.594	0	0	300	ug/ml
Aliphatic C12-C16	6.595	9.996	0	0	200	ug/ml
Aliphatic C16-C21	9.997	13.364	0	0	300	ug/ml
Aliphatic C21-C28	13.365	17.031	0	0	400	ug/ml
Aliphatic C28-C40	17.032	22.001	0	0	600	ug/ml
Aliphatic EPH	3.298	22.001	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.101	13.101	4447293	40.79		ug/ml
Aliphatic C9-C28	3.298	17.031	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069710.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 17:14
Operator : YP/AJ
Sample : PB169364BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169364BL

Integration File: autoint1.e
Quant Time: Aug 25 01:09:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:14:17 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...	13.101	4447293	40.792 ug/ml
Spiked Amount 50.000		Recovery =	81.58%

Target Compounds

(f)=RT Delta > 1/2 Window

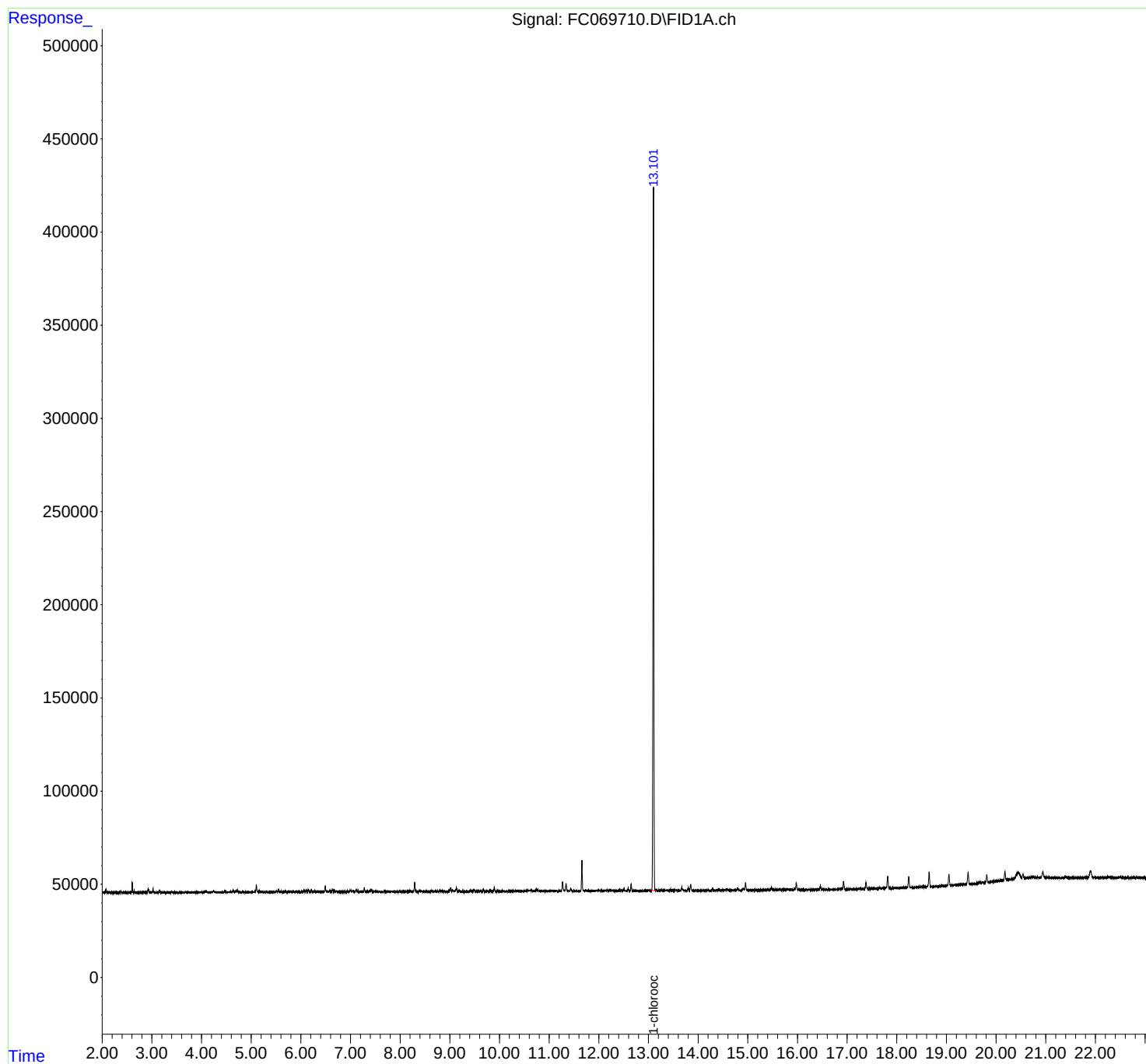
(m)=manual int.

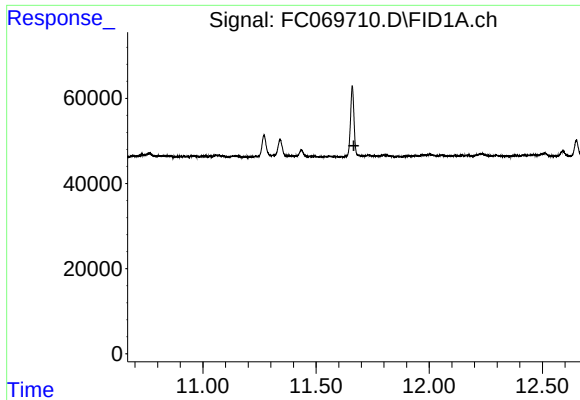
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069710.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 17:14
Operator : YP/AJ
Sample : PB169364BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169364BL

Integration File: autoint1.e
Quant Time: Aug 25 01:09:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:14:17 2025
Response via : Initial Calibration
Integrator: ChemStation

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

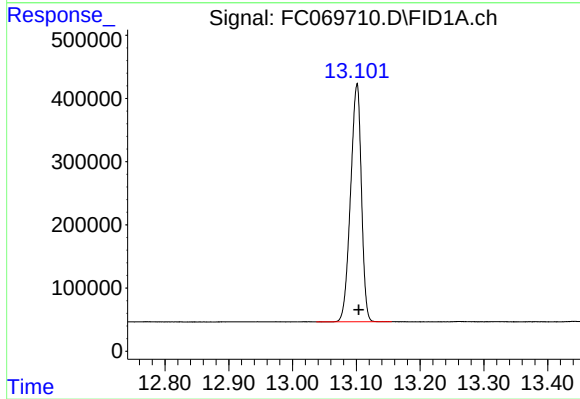




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 11.667 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB169364BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.101 min
Delta R.T.: -0.003 min
Response: 4447293
Conc: 40.79 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069710.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 17:14
Sample : PB169364BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.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	13.101	13.037	13.155	BB	375013	4447293	100.00%	100.000%
Sum of corrected areas:						4447293		

Aliphatic EPH 080125.M Mon Aug 25 01:36:54 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB169364BL	SDG No.:	Q2832
Lab Sample ID:	PB169364BL	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
FD049648.D	1	08/21/25	08/22/25	PB169364

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	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	39.0		40 - 140	78%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.3		40 - 140	85%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169364BL	Acq On:	22 Aug 2025 17:14
Client Sample ID:	PB169364BL	Operator:	YP/AJ
Data file:	FD049648.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	4.407	6.150	0	0	200	ug/ml
Aromatic C12-C16	6.151	8.778	0	0	300	ug/ml
Aromatic C16-C21	8.779	13.069	0	0	500	ug/ml
Aromatic C21-C36	13.070	18.489	0	0	800	ug/ml
Aromatic EPH	4.407	18.489	0	0		ug/ml
2-Bromonaphthalene (SURRE)	7.714	7.714	3996212	38.99		ug/ml
2-Fluorobiphenyl (SURRE)	8.579	8.579	2842725	38.92		ug/ml
ortho-Terphenyl (SURRE)	11.627	11.627	5490538	42.3		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049648.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 17:14
 Operator : YP/AJ
 Sample : PB169364BL
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 PB169364BL

Integration File: sample.E
 Quant Time: Aug 25 01:48:32 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.714	3996212	38.992 ug/ml
Spiked Amount 50.000		Recovery =	77.98%
6) S 2-Fluorobiphenyl (SURR)	8.579	2842725	38.917 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	77.83%
11) S ortho-Terphenyl (SURR)	11.627	5490538	42.302 ug/ml
Spiked Amount 50.000		Recovery =	84.60%

Target Compounds

(f)=RT Delta > 1/2 Window

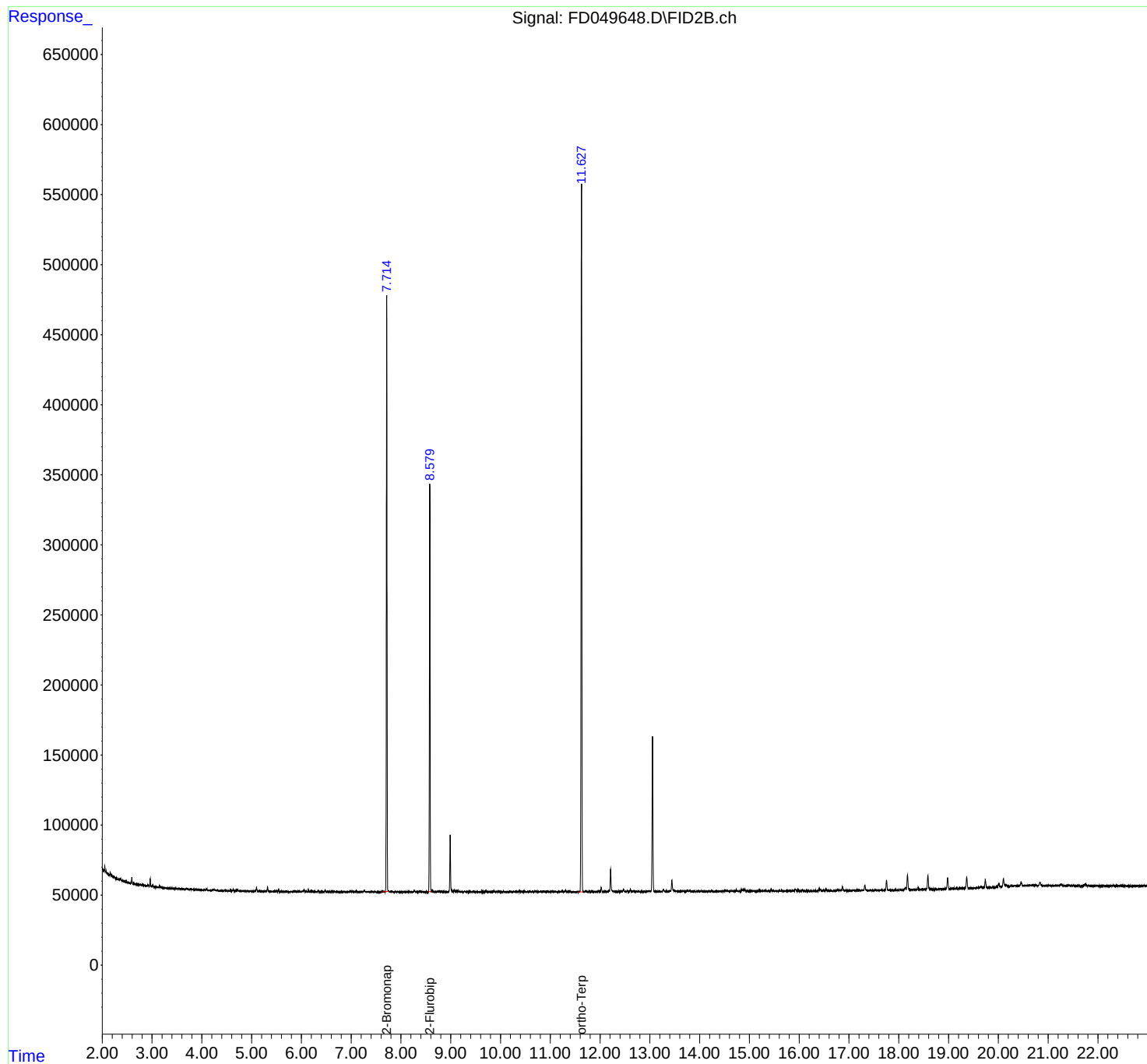
(m)=manual int.

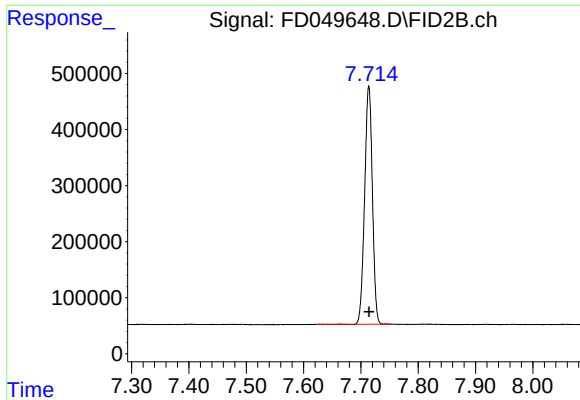
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049648.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 17:14
Operator : YP/AJ
Sample : PB169364BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169364BL

Integration File: sample.E
Quant Time: Aug 25 01:48:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

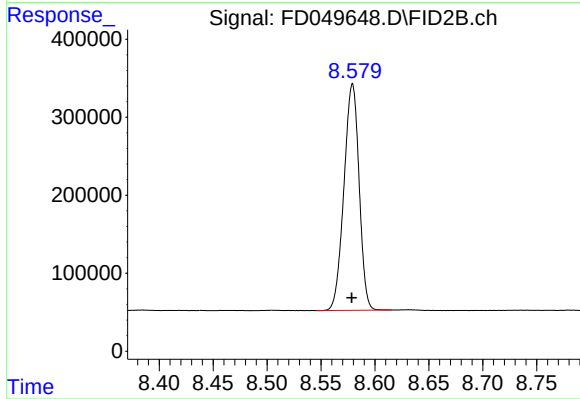




#4 2-Bromonaphthalene (SURRE)

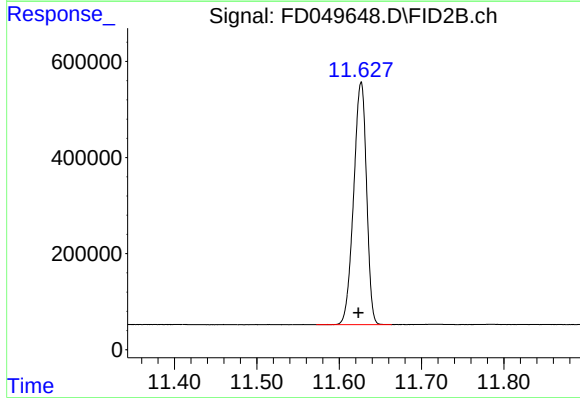
R.T.: 7.714 min
Delta R.T.: 0.000 min
Response: 3996212
Conc: 38.99 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169364BL



#6 2-Fluorobiphenyl (SURRE)

R.T.: 8.579 min
Delta R.T.: 0.000 min
Response: 2842725
Conc: 38.92 ug/ml



#11 ortho-Terphenyl (SURRE)

R.T.: 11.627 min
Delta R.T.: 0.003 min
Response: 5490538
Conc: 42.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049648.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 17:14
Sample : PB169364BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	7.714	7.622	7.754	BB	424792	3996212	72.78%	32.412%
2	8.579	8.545	8.615	BB	290018	2842725	51.77%	23.056%
3	11.627	11.572	11.664	BB	506002	5490538	100.00%	44.532%
Sum of corrected areas:							12329475	

Aromatic EPH 081125.M Mon Aug 25 02:47:03 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB169364BS	SDG No.:	Q2832
Lab Sample ID:	PB169364BS	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
08/21/25 11:00	08/22/25 15:26	PB169364

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	5.69		1	0.14	1.00	mg/kg FC069708.D
Aliphatic C12-C16	Aliphatic C12-C16	5.22		1	0.11	0.67	mg/kg FC069708.D
Aliphatic C16-C21	Aliphatic C16-C21	8.98		1	0.13	1.00	mg/kg FC069708.D
Aliphatic C21-C28	Aliphatic C21-C28	12.6		1	0.53	1.33	mg/kg FC069708.D
Aliphatic C28-C40	Aliphatic C28-C40	20.5		1	1.18	2.00	mg/kg FC069708.D
Aromatic C10-C12	Aromatic C10-C12	5.52		1	0.12	0.67	mg/kg FD049646.D
Aromatic C12-C16	Aromatic C12-C16	9.50		1	0.23	1.00	mg/kg FD049646.D
Aromatic C16-C21	Aromatic C16-C21	17.3		1	0.40	1.67	mg/kg FD049646.D
Aromatic C21-C36	Aromatic C21-C36	28.3		1	1.19	2.66	mg/kg FD049646.D
Total AliphaticEPH	Total AliphaticEPH	53.0			2.09	5.99	mg/kg
Total AromaticEPH	Total AromaticEPH	60.6			1.94	6.00	mg/kg
Total EPH	Total EPH	114			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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB169364BS	SDG No.:	Q2832
Lab Sample ID:	PB169364BS	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
FC069708.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.69		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.22		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.98		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.6		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.5		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.7		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169364BS	Acq On:	22 Aug 2025 15:26
Client Sample ID:	PB169364BS	Operator:	YP/AJ
Data file:	FC069708.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	3.298	6.594	12349927	85.361	300	ug/ml
Aliphatic C12-C16	6.595	9.996	11251606	78.444	200	ug/ml
Aliphatic C16-C21	9.997	13.364	18000180	134.771	300	ug/ml
Aliphatic C21-C28	13.365	17.031	22445653	189.722	400	ug/ml
Aliphatic C28-C40	17.032	22.001	29405858	308.512	600	ug/ml
Aliphatic EPH	3.298	22.001	93453224	796.81		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.102	13.102	4760996	43.67		ug/ml
Aliphatic C9-C28	3.298	17.031	64047366	488.298	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
 Data File : FC069708.D
 Signal(s) : FID1A.ch
 Acq On : 22 Aug 2025 15:26
 Operator : YP/AJ
 Sample : PB169364BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB169364BS

Integration File: autoint1.e
 Quant Time: Aug 25 01:08:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 QLast Update : Fri Aug 01 14:14:17 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...	13.102	4760996	43.669 ug/ml
Spiked Amount 50.000		Recovery =	87.34%
Target Compounds			
1) T n-Nonane (C9)	3.395	3145567	22.079 ug/ml
2) T n-Decane (C10)	4.468	4180915	28.758 ug/ml
4) T n-Dodecane (C12)	6.494	5023445	34.364 ug/ml
6) T n-Tetradecane (C14)	8.294	5528989	38.743 ug/ml
7) T n-Hexadecane (C16)	9.899	5722617	39.696 ug/ml
8) T n-Octadecane (C18)	11.343	5830691	41.232 ug/ml
10) T n-Eicosane (C20)	12.656	6223865	47.248 ug/ml
11) T n-Heneicosane (C21)	13.268	5945624	46.617 ug/ml
13) T n-Docosane (C22)	13.856	5886583	47.123 ug/ml
14) T n-Tetracosane (C24)	14.960	5727200	47.461 ug/ml
15) T n-Hexacosane (C26)	15.983	5486067	47.478 ug/ml
16) T n-Octacosane (C28)	16.934	5345803	47.693 ug/ml
17) T n-Tricontane (C30)	17.823	5422783	47.362 ug/ml
18) T n-Dotriacontane (C32)	18.657	5392824	48.548 ug/ml
19) T n-Tetratriacontane (C34)	19.443	5174710	50.820 ug/ml
20) T n-Hexatriacontane (C36)	20.183	4796067	53.789 ug/ml
21) T n-Octatriacontane (C38)	20.947	4507630	56.035 ug/ml
22) T n-Tetracontane (C40)	21.908	4111844	54.911 ug/ml

(f)=RT Delta > 1/2 Window

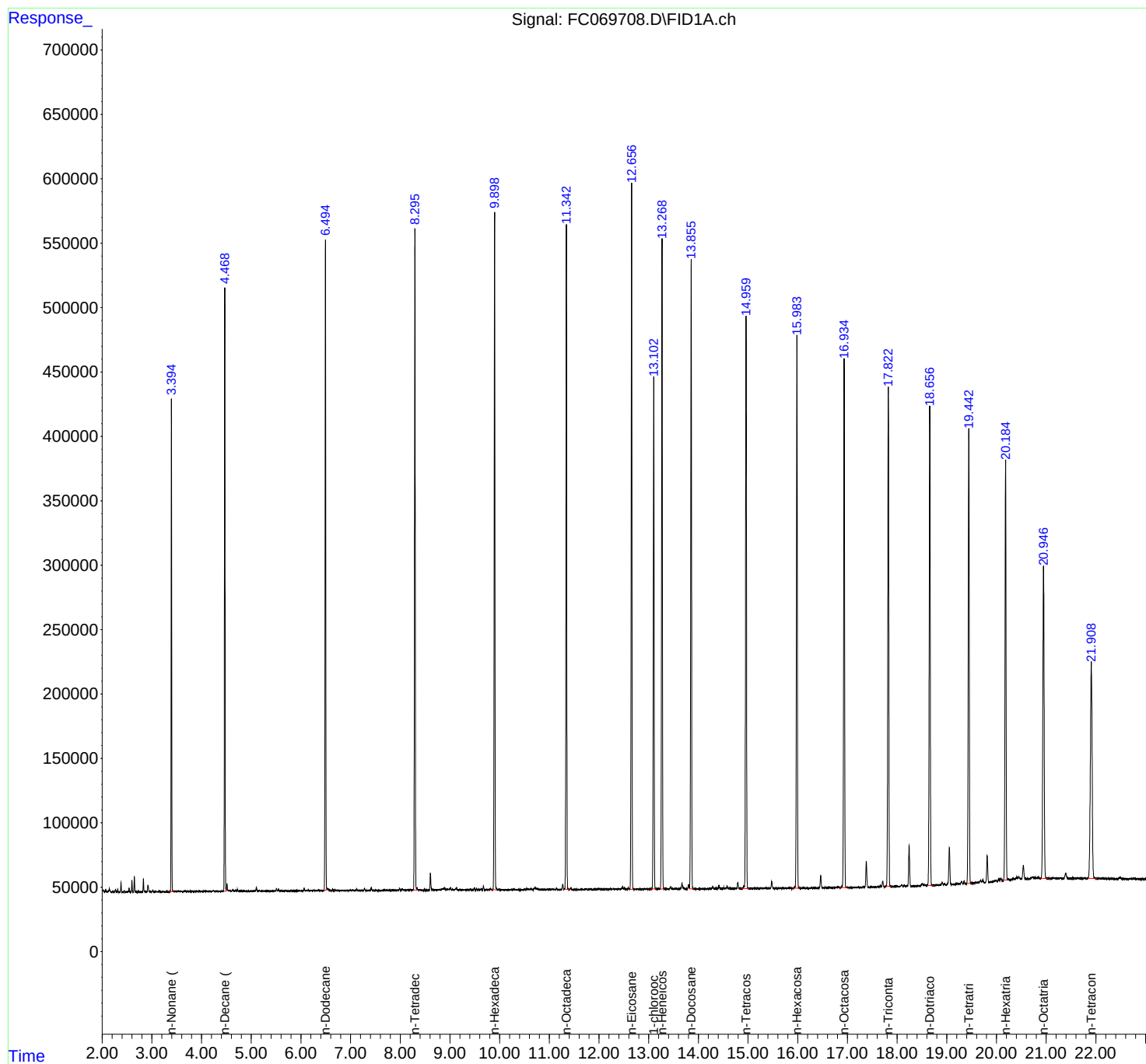
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069708.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 15:26
Operator : YP/AJ
Sample : PB169364BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169364BS

Integration File: autoint1.e
Quant Time: Aug 25 01:08:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:14:17 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069708.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 15:26
Sample : PB169364BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.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	3.395	3.342	3.445	BB	383434	3145567	50.54%	3.203%
2	4.468	4.433	4.496	BV	469346	4180915	67.18%	4.257%
3	6.494	6.458	6.532	BB	503087	5023445	80.71%	5.115%
4	8.294	8.257	8.363	BB	516713	5528989	88.84%	5.630%
5	9.899	9.840	9.950	BB	525280	5722617	91.95%	5.827%
6	11.343	11.310	11.407	BB	513712	5830691	93.68%	5.937%
7	12.656	12.613	12.698	PB	546860	6223865	100.00%	6.337%
8	13.102	13.040	13.150	BB	398719	4760996	76.50%	4.848%
9	13.268	13.228	13.305	BB	505331	5945624	95.53%	6.054%
10	13.856	13.819	13.908	VB	487447	5886583	94.58%	5.994%
11	14.960	14.868	15.020	BB	441994	5727200	92.02%	5.831%
12	15.983	15.895	16.045	BB	430338	5486067	88.15%	5.586%
13	16.934	16.842	17.003	BB	404324	5345803	85.89%	5.443%
14	17.823	17.780	17.875	BB	385064	5422783	87.13%	5.521%
15	18.657	18.610	18.718	BB	371972	5392824	86.65%	5.491%
16	19.443	19.400	19.500	BB	352950	5174710	83.14%	5.269%
17	20.183	20.140	20.222	BB	324044	4796067	77.06%	4.883%
18	20.947	20.890	21.032	BB	242404	4507630	72.42%	4.590%
19	21.908	21.840	22.020	BB	168420	4111844	66.07%	4.187%
Sum of corrected areas:							98214220	

Aliphatic EPH 080125.M Mon Aug 25 01:34:07 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB169364BS	SDG No.:	Q2832
Lab Sample ID:	PB169364BS	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
FD049646.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.52		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.50		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	17.3		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	28.3		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	62.4		40 - 140	125%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	61.2		40 - 140	122%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	50.5		40 - 140	101%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169364BS	Acq On:	22 Aug 2025 15:26
Client Sample ID:	PB169364BS	Operator:	YP/AJ
Data file:	FD049646.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	4.407	6.150	8953147	82.946	200	ug/ml
Aromatic C12-C16	6.151	8.778	17622801	142.602	300	ug/ml
Aromatic C16-C21	8.779	13.069	32802768	259.338	500	ug/ml
Aromatic C21-C36	13.070	18.489	47773589	424.208	800	ug/ml
Aromatic EPH	4.407	18.489	107152305	909.095		ug/ml
2-Bromonaphthalene (SURR)	7.714	7.714	6397880	62.43		ug/ml
2-Fluorobiphenyl (SURR)	8.580	8.580	4468318	61.17		ug/ml
ortho-Terphenyl (SURR)	11.626	11.626	6549966	50.46		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049646.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 15:26
 Operator : YP/AJ
 Sample : PB169364BS
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :

FID_D

ClientSampleId :

PB169364BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

Integration File: sample.E
 Quant Time: Aug 25 01:47:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.714	6397880	62.426 ug/ml
Spiked Amount 50.000		Recovery =	124.85%
6) S 2-Fluorobiphenyl (SURR)	8.580	4468318	61.171 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	122.34%
11) S ortho-Terphenyl (SURR)	11.626	6549966	50.464 ug/ml
Spiked Amount 50.000		Recovery =	100.93%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.501	3912707	38.656 ug/ml
2) T Naphthalene (C11.7)	6.046	5040440	43.960 ug/ml
3) T 2-Methylnaphthalene (...)	7.102	5108367	42.822 ug/ml
5) T Acenaphthylene (C15.06)	8.383	6201911	49.334 ug/ml
7) T Acenaphthene (C15.5)	8.680	6312523	50.205 ug/ml
8) T Flouorene (C16.55)	9.462	6707239	52.976 ug/ml
9) T Phenanthrene (C19.36)	10.861	6793344	52.589 ug/ml
10) T Anthracene (C19.43)	10.935	5742691	46.615 ug/ml
12) T Fluoranthene (C21.85)	12.676	6851078	53.517 ug/ml
13) T Pyrene (C20.8)	12.974	6708416	52.837 ug/ml
14) T Benzo[a]anthracene (C...	14.846	6235802	54.039 ug/ml
15) T Chrysene (C27.41)	14.892	6815416	58.210 ug/ml
16) T benzo[b]fluoranthene ...	16.399	6158622	54.149 ug/ml
17) T Bnezo[k]fluoranthene ...	16.435	5962858	55.703 ug/mlm
18) T Benzo[a]pyrene (C31.34)	16.779	5709993	51.471 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.146	5902599	57.263 ug/ml
20) T Dibenz[a,h]anthracene...	18.184	5626465	51.620 ug/ml
21) T Benzo[g,h,i]perylene ...	18.403	5344496	48.909 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049646.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 15:26
Operator : YP/AJ
Sample : PB169364BS
Misc :
ALS Vial : 61 Sample Multiplier: 1

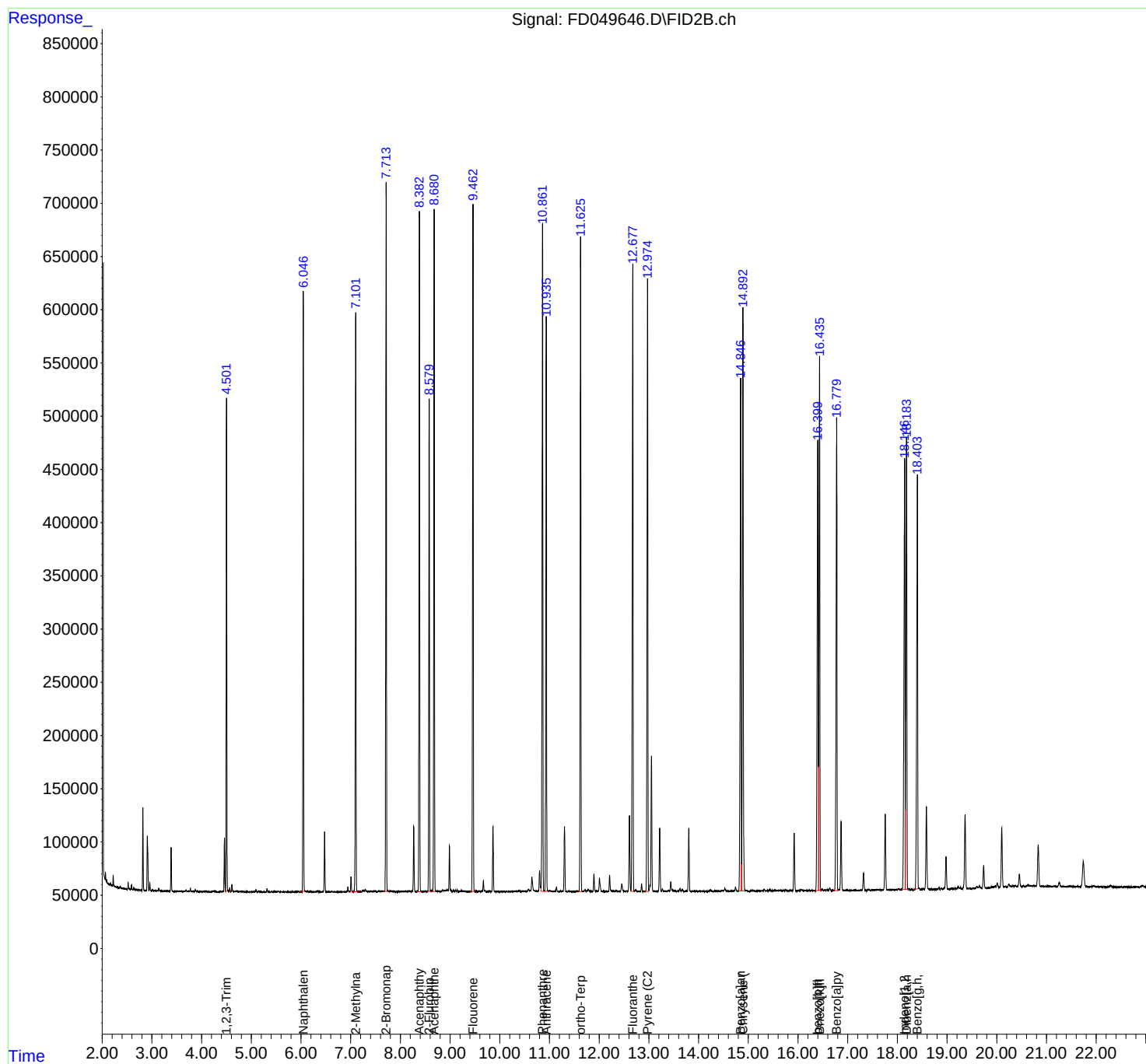
Instrument :
FID_D
ClientSampleId :
PB169364BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/25/2025
Supervised By :mohammad ahmed 08/26/2025

Integration File: sample.E
Quant Time: Aug 25 01:47:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_D

ClientSampleId :

PB169364BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD08222
Data File : FD049646.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 15:26
Sample : PB169364BS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.501	4.479	4.527	PV	463746	3912707	57.11%	3.141%
2	6.046	5.988	6.080	BB	564259	5040440	73.57%	4.046%
3	7.102	7.045	7.155	BB	544372	5108367	74.56%	4.101%
4	7.714	7.660	7.762	BB	666452	6397880	93.39%	5.136%
5	8.383	8.328	8.432	BB	640381	6201911	90.52%	4.979%
6	8.580	8.543	8.618	BV	461751	4468318	65.22%	3.587%
7	8.680	8.648	8.717	BB	640774	6312523	92.14%	5.068%
8	9.462	9.408	9.503	BB	645761	6707239	97.90%	5.384%
9	10.861	10.828	10.897	VV	627069	6793344	99.16%	5.454%
10	10.935	10.897	10.982	VB	540278	5742691	83.82%	4.610%
11	11.626	11.565	11.663	BB	614286	6549966	95.60%	5.258%
12	12.676	12.638	12.707	VV	590987	6851078	100.00%	5.500%
13	12.974	12.905	12.998	BV	578068	6708416	97.92%	5.385%
14	14.846	14.775	14.865	BV	479640	6235802	91.02%	5.006%
15	14.892	14.865	14.943	VB	547058	6815416	99.48%	5.471%
16	16.399	16.332	16.414	BV	422696	6158622	89.89%	4.944%
17	16.435	16.414	16.467	VV	500492	5980196	87.29%	4.801%
18	16.779	16.710	16.813	BV	444832	5709993	83.34%	4.584%
19	18.146	18.077	18.160	BV	406082	5902599	86.16%	4.738%
20	18.184	18.160	18.228	VB	425678	5626465	82.13%	4.517%
21	18.403	18.325	18.425	BV	389056	5344496	78.01%	4.290%
Sum of corrected areas:						124568468		

Aromatic EPH 081125.M Mon Aug 25 02:42:37 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB169364BSD	SDG No.:	Q2832
Lab Sample ID:	PB169364BSD	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
08/21/25 11:00	08/22/25 16:31	PB169364

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	5.98		1	0.14	1.00	mg/kg FC069709.D
Aliphatic C12-C16	Aliphatic C12-C16	5.54		1	0.11	0.67	mg/kg FC069709.D
Aliphatic C16-C21	Aliphatic C16-C21	9.34		1	0.13	1.00	mg/kg FC069709.D
Aliphatic C21-C28	Aliphatic C21-C28	13.0		1	0.53	1.33	mg/kg FC069709.D
Aliphatic C28-C40	Aliphatic C28-C40	21.7		1	1.18	2.00	mg/kg FC069709.D
Aromatic C10-C12	Aromatic C10-C12	5.35		1	0.12	0.67	mg/kg FD049647.D
Aromatic C12-C16	Aromatic C12-C16	9.12		1	0.23	1.00	mg/kg FD049647.D
Aromatic C16-C21	Aromatic C16-C21	17.1		1	0.40	1.67	mg/kg FD049647.D
Aromatic C21-C36	Aromatic C21-C36	28.9		1	1.19	2.66	mg/kg FD049647.D
Total AliphaticEPH	Total AliphaticEPH	55.6			2.09	5.99	mg/kg
Total AromaticEPH	Total AromaticEPH	60.5			1.94	6.00	mg/kg
Total EPH	Total EPH	116			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:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB169364BSD	SDG No.:	Q2832
Lab Sample ID:	PB169364BSD	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
FC069709.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.98		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.54		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.34		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	13.0		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.7		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.3		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169364BSD	Acq On:	22 Aug 2025 16:31
Client Sample ID:	PB169364BSD	Operator:	YP/AJ
Data file:	FC069709.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	3.298	6.594	12993064	89.806	300	ug/ml
Aliphatic C12-C16	6.595	9.996	11918196	83.091	200	ug/ml
Aliphatic C16-C21	9.997	13.364	18726760	140.211	300	ug/ml
Aliphatic C21-C28	13.365	17.031	23053397	194.859	400	ug/ml
Aliphatic C28-C40	17.032	22.001	31015232	325.396	600	ug/ml
Aliphatic EPH	3.298	22.001	97706649	833.364		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.101	13.101	4936453	45.28		ug/ml
Aliphatic C9-C28	3.298	17.031	66691417	507.967	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
 Data File : FC069709.D
 Signal(s) : FID1A.ch
 Acq On : 22 Aug 2025 16:31
 Operator : YP/AJ
 Sample : PB169364BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB169364BSD

Integration File: autoint1.e
 Quant Time: Aug 25 01:09:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 QLast Update : Fri Aug 01 14:14:17 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...	13.101	4936453	45.279 ug/ml
Spiked Amount 50.000		Recovery =	90.56%
Target Compounds			
1) T n-Nonane (C9)	3.395	3294519	23.124 ug/ml
2) T n-Decane (C10)	4.468	4396052	30.238 ug/ml
4) T n-Dodecane (C12)	6.494	5302493	36.273 ug/ml
6) T n-Tetradecane (C14)	8.294	5854940	41.027 ug/ml
7) T n-Hexadecane (C16)	9.899	6063256	42.059 ug/ml
8) T n-Octadecane (C18)	11.344	6117157	43.258 ug/ml
10) T n-Eicosane (C20)	12.656	6465018	49.078 ug/ml
11) T n-Heneicosane (C21)	13.268	6144585	48.177 ug/ml
13) T n-Docosane (C22)	13.855	6062501	48.531 ug/ml
14) T n-Tetracosane (C24)	14.961	5871554	48.657 ug/ml
15) T n-Hexacosane (C26)	15.983	5616058	48.603 ug/ml
16) T n-Octacosane (C28)	16.934	5503284	49.098 ug/ml
17) T n-Tricontane (C30)	17.823	5641435	49.272 ug/ml
18) T n-Dotriacontane (C32)	18.657	5664617	50.995 ug/ml
19) T n-Tetratriacontane (C34)	19.443	5458026	53.603 ug/ml
20) T n-Hexatriacontane (C36)	20.184	5061475	56.765 ug/ml
21) T n-Octatriacontane (C38)	20.949	4778181	59.399 ug/ml
22) T n-Tetracontane (C40)	21.912	4411498	58.913 ug/ml

(f)=RT Delta > 1/2 Window

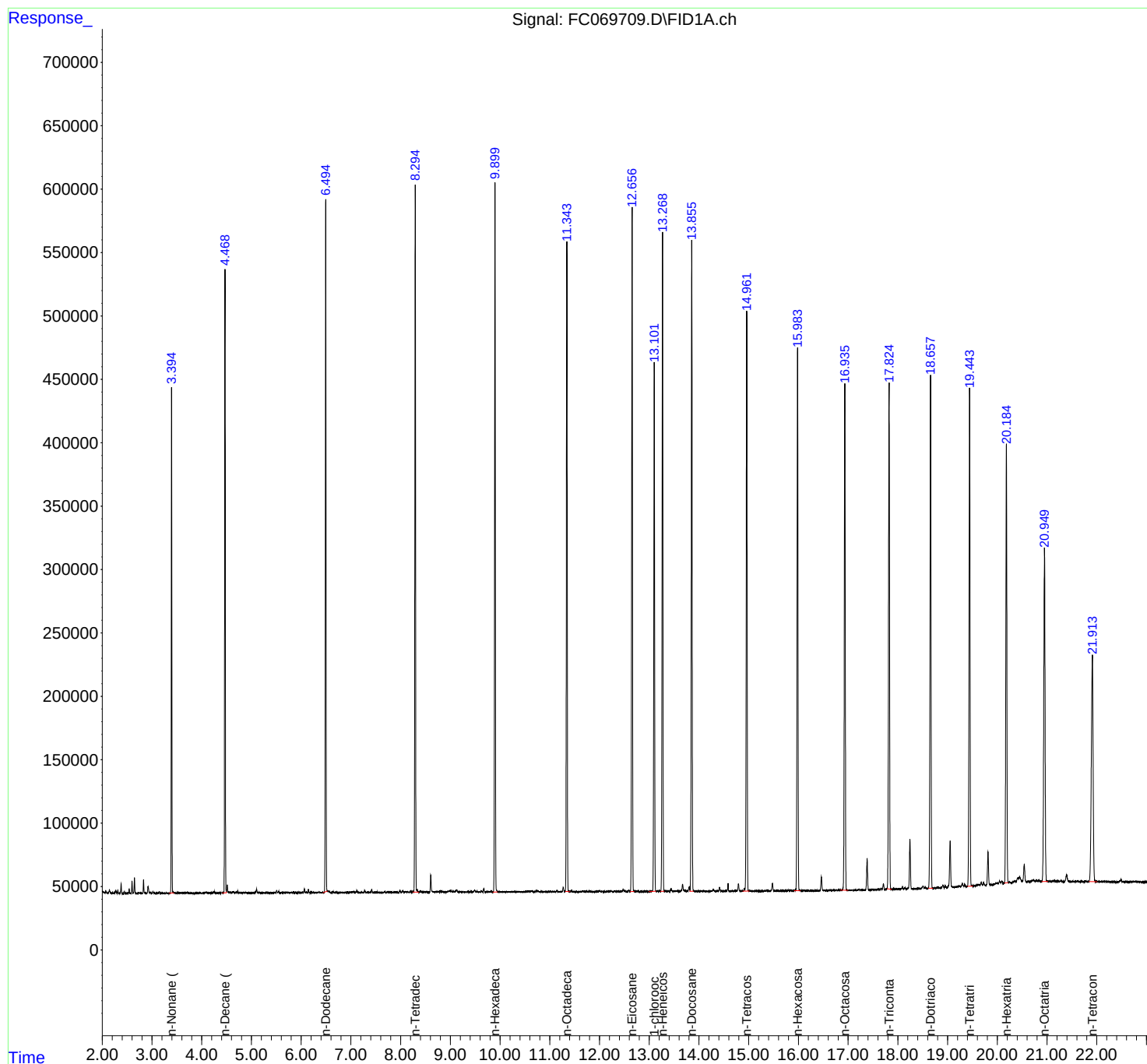
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069709.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 16:31
Operator : YP/AJ
Sample : PB169364BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169364BSD

Integration File: autoint1.e
Quant Time: Aug 25 01:09:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:14:17 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069709.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 16:31
Sample : PB169364BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.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	3.395	3.344	3.445	BB	399571	3294519	50.96%	3.210%
2	4.468	4.415	4.496	BV	492853	4396052	68.00%	4.283%
3	6.494	6.440	6.530	BB	546543	5302493	82.02%	5.166%
4	8.294	8.239	8.364	BB	558019	5854940	90.56%	5.704%
5	9.899	9.855	9.954	BB	560210	6063256	93.79%	5.907%
6	11.344	11.310	11.405	BB	512605	6117157	94.62%	5.960%
7	12.656	12.615	12.700	PB	537293	6465018	100.00%	6.299%
8	13.101	12.990	13.139	BB	418309	4936453	76.36%	4.809%
9	13.268	13.227	13.305	BB	519935	6144585	95.04%	5.986%
10	13.855	13.820	13.895	VB	513520	6062501	93.77%	5.906%
11	14.961	14.877	15.017	BB	456091	5871554	90.82%	5.720%
12	15.983	15.914	16.044	BB	427687	5616058	86.87%	5.471%
13	16.934	16.842	17.004	BB	399727	5503284	85.12%	5.362%
14	17.823	17.780	17.879	BB	399380	5641435	87.26%	5.496%
15	18.657	18.610	18.710	BB	403300	5664617	87.62%	5.519%
16	19.443	19.400	19.512	BB	392417	5458026	84.42%	5.317%
17	20.184	20.140	20.220	BV	346054	5061475	78.29%	4.931%
18	20.949	20.890	21.020	BB	263245	4778181	73.91%	4.655%
19	21.912	21.840	22.014	BB	177595	4411498	68.24%	4.298%
Sum of corrected areas:						102643102		

Aliphatic EPH 080125.M Mon Aug 25 01:35:09 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB169364BSD	SDG No.:	Q2832
Lab Sample ID:	PB169364BSD	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
FD049647.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.35		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.12		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	17.1		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	28.9		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	60.0		40 - 140	120%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	59.0		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.1		40 - 140	98%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169364BSD	Acq On:	22 Aug 2025 16:31
Client Sample ID:	PB169364BSD	Operator:	YP/AJ
Data file:	FD049647.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	4.407	6.150	8670196	80.324	200	ug/ml
Aromatic C12-C16	6.151	8.778	16907845	136.817	300	ug/ml
Aromatic C16-C21	8.779	13.069	32435092	256.432	500	ug/ml
Aromatic C21-C36	13.070	18.489	48829811	433.587	800	ug/ml
Aromatic EPH	4.407	18.489	106842944	907.16		ug/ml
2-Bromonaphthalene (SURR)	7.714	7.714	6152246	60.03		ug/ml
2-Fluorobiphenyl (SURR)	8.580	8.580	4307433	58.97		ug/ml
ortho-Terphenyl (SURR)	11.627	11.627	6379155	49.15		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049647.D
 Signal(s) : FID2B.ch
 Acq On : 22 Aug 2025 16:31
 Operator : YP/AJ
 Sample : PB169364BSD
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 FID_D
 ClientSampleId :
 PB169364BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/25/2025
 Supervised By :mohammad ahmed 08/26/2025

Integration File: sample.E
 Quant Time: Aug 25 01:48:10 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
 Quant Title : GC Extractables
 QLast Update : Mon Aug 11 14:11:57 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...	7.714	6152246	60.030 ug/ml
Spiked Amount 50.000		Recovery =	120.06%
6) S 2-Fluorobiphenyl (SURR)	8.580	4307433	58.969 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	117.94%
11) S ortho-Terphenyl (SURR)	11.627	6379155	49.148 ug/ml
Spiked Amount 50.000		Recovery =	98.30%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.503	3801634	37.558 ug/ml
2) T Naphthalene (C11.7)	6.048	4868562	42.461 ug/ml
3) T 2-Methylnaphthalene (...)	7.103	4908786	41.149 ug/ml
5) T Acenaphthylene (C15.06)	8.383	5956126	47.379 ug/ml
7) T Acenaphthene (C15.5)	8.680	6042933	48.061 ug/ml
8) T Flouorene (C16.55)	9.462	6476002	51.150 ug/ml
9) T Phenanthrene (C19.36)	10.861	6674172	51.667 ug/ml
10) T Anthracene (C19.43)	10.936	5675493	46.070 ug/ml
12) T Fluoranthene (C21.85)	12.677	6865432	53.629 ug/ml
13) T Pyrene (C20.8)	12.976	6743993	53.117 ug/ml
14) T Benzo[a]anthracene (C...	14.849	6362083	55.133 ug/ml
15) T Chrysene (C27.41)	14.894	6940665	59.280 ug/ml
16) T benzo[b]fluoranthene ...	16.401	6287433	55.282 ug/ml
17) T Bnezo[k]fluoranthene ...	16.437	6089129	56.883 ug/mlm
18) T Benzo[a]pyrene (C31.34)	16.781	5826139	52.518 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.148	6042968	58.625 ug/ml
20) T Dibenz[a,h]anthracene...	18.186	5782799	53.054 ug/ml
21) T Benzo[g,h,i]perylene ...	18.405	5460914	49.974 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049647.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 16:31
Operator : YP/AJ
Sample : PB169364BSD
Misc :
ALS Vial : 62 Sample Multiplier: 1

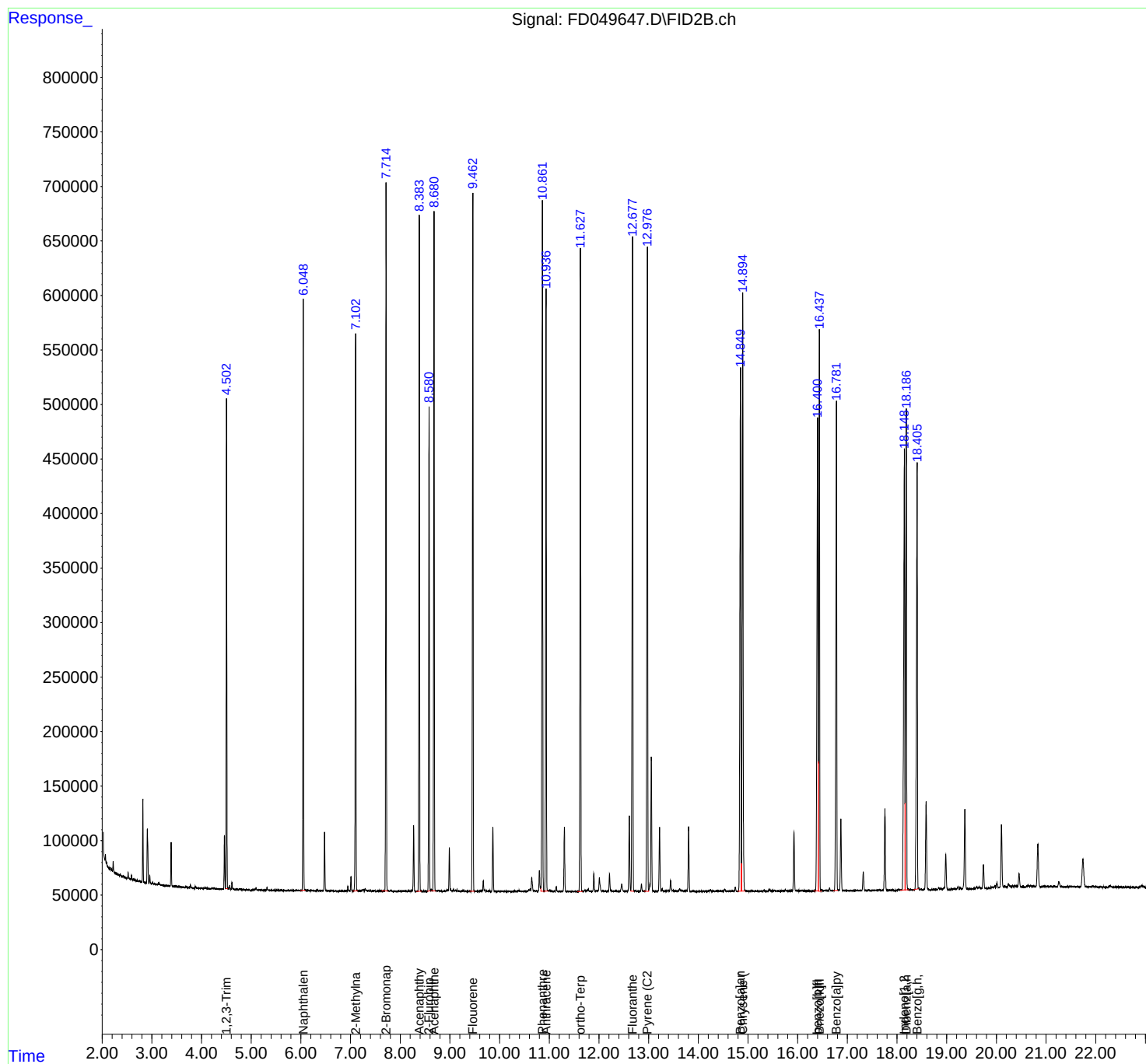
Instrument :
FID_D
ClientSampleId :
PB169364BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/25/2025
Supervised By :mohammad ahmed 08/26/2025

Integration File: sample.E
Quant Time: Aug 25 01:48:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_D

ClientSampleId :

PB169364BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD08222
Data File : FD049647.D
Signal(s) : FID2B.ch
Acq On : 22 Aug 2025 16:31
Sample : PB169364BSD
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.503	4.481	4.528	PV	449223	3801634	54.77%	3.074%
2	6.048	5.990	6.084	BB	542573	4868562	70.15%	3.936%
3	7.103	7.047	7.142	BB	510840	4908786	70.73%	3.969%
4	7.714	7.625	7.762	BB	648883	6152246	88.64%	4.974%
5	8.383	8.320	8.432	BB	621578	5956126	85.81%	4.816%
6	8.580	8.545	8.607	BB	444159	4307433	62.06%	3.483%
7	8.680	8.625	8.712	BB	622841	6042933	87.07%	4.886%
8	9.462	9.395	9.504	BB	640956	6476002	93.31%	5.236%
9	10.861	10.830	10.895	VV	634562	6674172	96.16%	5.396%
10	10.936	10.895	10.980	PB	548973	5675493	81.77%	4.589%
11	11.627	11.565	11.677	BB	589387	6379155	91.91%	5.158%
12	12.677	12.640	12.707	VV	600085	6865432	98.92%	5.551%
13	12.976	12.905	13.001	BV	589065	6743993	97.17%	5.453%
14	14.849	14.787	14.867	BV	480197	6362083	91.66%	5.144%
15	14.894	14.867	14.950	VB	548265	6940665	100.00%	5.612%
16	16.401	16.325	16.416	BV	433720	6287433	90.59%	5.084%
17	16.437	16.416	16.465	VV	515833	6126810	88.27%	4.954%
18	16.781	16.712	16.809	BB	450454	5826139	83.94%	4.711%
19	18.148	18.067	18.162	BV	405412	6042968	87.07%	4.886%
20	18.186	18.162	18.240	VB	438654	5782799	83.32%	4.676%
21	18.405	18.325	18.427	BV	393099	5460914	78.68%	4.415%
Sum of corrected areas:						123681778		

Aromatic EPH 081125.M Mon Aug 25 02:46:39 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	BACK-1-FLOOR-CENTER-MIDDLE-CMS	SDG No.:	Q2832
Lab Sample ID:	Q2892-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/21/25 11:00	08/22/25 19:28	PB169364

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12	6.12		1	0.16	1.13	mg/kg FC069713.D
Aliphatic C12-C16	Aliphatic C12-C16	5.39		1	0.12	0.75	mg/kg FC069713.D
Aliphatic C16-C21	Aliphatic C16-C21	9.04		1	0.15	1.13	mg/kg FC069713.D
Aliphatic C21-C28	Aliphatic C21-C28	12.1		1	0.60	1.50	mg/kg FC069713.D
Aliphatic C28-C40	Aliphatic C28-C40	20.8		1	1.33	2.26	mg/kg FC069713.D
Aromatic C10-C12	Aromatic C10-C12	6.53		1	0.14	0.75	mg/kg FD049660.D
Aromatic C12-C16	Aromatic C12-C16	10.7		1	0.26	1.13	mg/kg FD049660.D
Aromatic C16-C21	Aromatic C16-C21	23.2		1	0.45	1.88	mg/kg FD049660.D
Aromatic C21-C36	Aromatic C21-C36	36.9		1	1.34	3.01	mg/kg FD049660.D
Total AliphaticEPH	Total AliphaticEPH	53.5			2.36	6.77	mg/kg
Total AromaticEPH	Total AromaticEPH	77.3			2.19	6.77	mg/kg
Total EPH	Total EPH	131			4.54	13.5	mg/kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	BACK-1-FLOOR-CENTER-MIDDLE-CMS	SDG No.:	Q2832
Lab Sample ID:	Q2892-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069713.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.12		0.16	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.39		0.12	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.04		0.15	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.1		0.60	1.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.8		1.33	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.1		40 - 140	62%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2892-05MS	Acq On:	22 Aug 2025 19:28
Client Sample ID:	Q2892-05MS	Operator:	YP/AJ
Data file:	FC069713.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	3.298	6.594	11771671	81.364	300	ug/ml
Aliphatic C12-C16	6.595	9.996	10277125	71.65	200	ug/ml
Aliphatic C16-C21	9.997	13.364	16040854	120.101	300	ug/ml
Aliphatic C21-C28	13.365	17.031	18977000	160.404	400	ug/ml
Aliphatic C28-C40	17.032	22.001	26397718	276.952	600	ug/ml
Aliphatic EPH	3.298	22.001	83464368	710.47		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.099	13.099	3393585	31.13		ug/ml
Aliphatic C9-C28	3.298	17.031	57066650	433.519	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
 Data File : FC069713.D
 Signal(s) : FID1A.ch
 Acq On : 22 Aug 2025 19:28
 Operator : YP/AJ
 Sample : Q2892-05MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 BACK-1-FLOOR-CENTER-MIDDLE-CMS

Integration File: autoint1.e
 Quant Time: Aug 25 01:25:56 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 QLast Update : Fri Aug 01 14:14:17 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...	13.099	3393585	31.127 ug/ml
Spiked Amount 50.000		Recovery =	62.25%
Target Compounds			
1) T n-Nonane (C9)	3.399	3187470	22.373 ug/ml
2) T n-Decane (C10)	4.471	3846559	26.458 ug/ml
4) T n-Dodecane (C12)	6.495	4241021	29.011 ug/ml
6) T n-Tetradecane (C14)	8.293	4579525	32.090 ug/ml
7) T n-Hexadecane (C16)	9.898	5079461	35.235 ug/ml
8) T n-Octadecane (C18)	11.342	5257591	37.179 ug/ml
10) T n-Eicosane (C20)	12.654	5263479	39.957 ug/ml
11) T n-Heneicosane (C21)	13.267	5030872	39.444 ug/ml
13) T n-Docosane (C22)	13.854	4907801	39.287 ug/ml
14) T n-Tetracosane (C24)	14.958	4740165	39.282 ug/ml
15) T n-Hexacosane (C26)	15.980	4517340	39.094 ug/ml
16) T n-Octacosane (C28)	16.932	4335605	38.680 ug/ml
17) T n-Tricontane (C30)	17.821	4265022	37.250 ug/ml
18) T n-Dotriacontane (C32)	18.654	4219689	37.987 ug/ml
19) T n-Tetratriacontane (C34)	19.438	4164481	40.899 ug/ml
20) T n-Hexatriacontane (C36)	20.180	4009704	44.969 ug/ml
21) T n-Octatriacontane (C38)	20.946	3899552	48.476 ug/ml
22) T n-Tetracontane (C40)	21.908	3521030	47.021 ug/ml

(f)=RT Delta > 1/2 Window

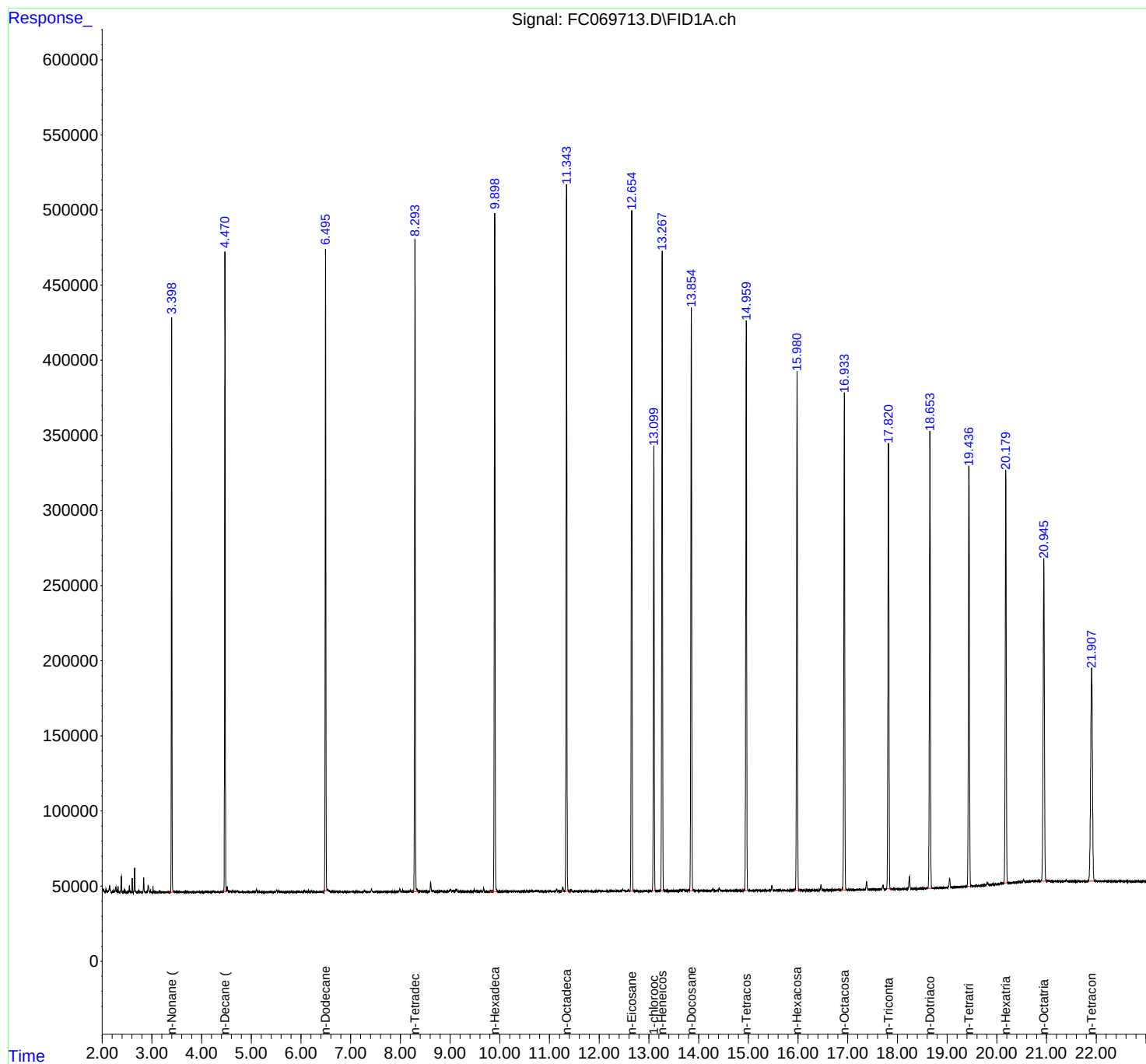
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069713.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 19:28
Operator : YP/AJ
Sample : Q2892-05MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
BACK-1-FLOOR-CENTER-MIDDLE-CMS

Integration File: autoint1.e
Quant Time: Aug 25 01:25:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:14:17 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
 Data File : FC069713.D
 Signal(s) : FID1A.ch
 Acq On : 22 Aug 2025 19:28
 Sample : Q2892-05MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.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	3.224	3.205	3.238	BV	132	2094	0.04%	0.002%
2	3.248	3.238	3.265	PV	118	1281	0.02%	0.001%
3	3.293	3.265	3.321	VV	176	2838	0.05%	0.003%
4	3.335	3.321	3.368	PV	46	1039	0.02%	0.001%
5	3.399	3.368	3.487	VV	380186	3200722	60.65%	3.684%
6	3.498	3.487	3.508	VV	316	2696	0.05%	0.003%
7	3.527	3.508	3.566	VV	355	9151	0.17%	0.011%
8	3.587	3.566	3.635	VV	382	7178	0.14%	0.008%
9	3.643	3.635	3.653	VV	131	1277	0.02%	0.001%
10	3.676	3.653	3.695	VV	381	5476	0.10%	0.006%
11	3.718	3.695	3.754	VV	382	6982	0.13%	0.008%
12	3.772	3.754	3.801	VV	238	3212	0.06%	0.004%
13	3.811	3.801	3.831	VV	126	1708	0.03%	0.002%
14	3.845	3.831	3.881	VV	131	3138	0.06%	0.004%
15	3.896	3.881	3.941	VV	333	6283	0.12%	0.007%
16	3.981	3.941	4.035	VV	285	8118	0.15%	0.009%
17	4.070	4.035	4.082	VV	389	5821	0.11%	0.007%
18	4.098	4.082	4.125	VV	707	7956	0.15%	0.009%
19	4.131	4.125	4.150	VV	188	2202	0.04%	0.003%
20	4.165	4.150	4.194	VV	328	4470	0.08%	0.005%
21	4.238	4.194	4.265	VV	599	12271	0.23%	0.014%
22	4.279	4.265	4.321	VV	239	5345	0.10%	0.006%
23	4.337	4.321	4.355	VV	206	2976	0.06%	0.003%
24	4.397	4.355	4.411	VV	225	6191	0.12%	0.007%
25	4.424	4.411	4.441	VV	196	3561	0.07%	0.004%
26	4.471	4.441	4.500	VV	426136	3857478	73.10%	4.439%
27	4.516	4.500	4.559	VV	3830	53221	1.01%	0.061%
28	4.576	4.559	4.605	VV	770	12875	0.24%	0.015%
29	4.634	4.605	4.660	VV	652	15484	0.29%	0.018%
30	4.695	4.660	4.709	VV	537	10219	0.19%	0.012%
31	4.725	4.709	4.742	VV	977	10012	0.19%	0.012%
32	4.756	4.742	4.768	VV	310	3192	0.06%	0.004%
33	4.776	4.768	4.818	VV	229	4591	0.09%	0.005%
34	4.844	4.818	4.875	VV	174	4172	0.08%	0.005%
35	4.891	4.875	4.913	VV	171	2473	0.05%	0.003%
36	4.950	4.913	4.971	VV	188	3954	0.07%	0.005%

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37	5.030	4.971	5.058	VV	185	4513	0.09%	0.005%
38	5.079	5.058	5.087	VV	314	3198	0.06%	0.004%
39	5.106	5.087	5.140	VV	1723	20098	0.38%	0.023%
40	5.163	5.140	5.183	VV	336	4989	0.09%	0.006%
41	5.197	5.183	5.231	VV	164	3067	0.06%	0.004%
42	5.301	5.231	5.317	VV	172	3769	0.07%	0.004%
43	5.376	5.317	5.388	VV	178	5005	0.09%	0.006%
44	5.420	5.388	5.463	VV	156	3566	0.07%	0.004%
45	5.478	5.463	5.491	VV	108	1481	0.03%	0.002%
46	5.510	5.491	5.532	VV	1739	17720	0.34%	0.020%
47	5.551	5.532	5.598	VV	797	10910	0.21%	0.013%
48	5.609	5.598	5.638	VV	231	3028	0.06%	0.003%
49	5.698	5.638	5.718	VV	197	5298	0.10%	0.006%
50	5.727	5.718	5.772	VV	160	2518	0.05%	0.003%
51	5.800	5.772	5.840	VV	226	4767	0.09%	0.005%
52	5.859	5.840	5.903	VV	162	4492	0.09%	0.005%
53	5.922	5.903	5.949	VV	168	3096	0.06%	0.004%
54	5.965	5.949	5.993	VV	172	3478	0.07%	0.004%
55	6.007	5.993	6.035	VV	211	3503	0.07%	0.004%
56	6.068	6.035	6.092	VV	1165	16591	0.31%	0.019%
57	6.109	6.092	6.131	VV	431	6971	0.13%	0.008%
58	6.151	6.131	6.182	VV	756	10356	0.20%	0.012%
59	6.213	6.182	6.268	VV	563	12027	0.23%	0.014%
60	6.282	6.268	6.328	VV	226	5748	0.11%	0.007%
61	6.336	6.328	6.358	VV	182	2710	0.05%	0.003%
62	6.382	6.358	6.418	VV	236	5748	0.11%	0.007%
63	6.425	6.418	6.445	VV	190	2479	0.05%	0.003%
64	6.495	6.445	6.538	VV	426114	4287295	81.24%	4.934%
65	6.545	6.538	6.596	VV	1409	27806	0.53%	0.032%
66	6.610	6.596	6.628	VV	351	5145	0.10%	0.006%
67	6.642	6.628	6.665	VV	822	10211	0.19%	0.012%
68	6.678	6.665	6.700	VV	306	4651	0.09%	0.005%
69	6.714	6.700	6.745	VV	363	4937	0.09%	0.006%
70	6.764	6.745	6.791	VV	205	3120	0.06%	0.004%
71	6.818	6.791	6.847	VV	253	4385	0.08%	0.005%
72	6.857	6.847	6.908	VV	168	4697	0.09%	0.005%
73	6.938	6.908	6.974	VV	373	6662	0.13%	0.008%
74	6.991	6.974	7.022	VV	414	7821	0.15%	0.009%
75	7.051	7.022	7.084	VV	347	8669	0.16%	0.010%
76	7.118	7.084	7.152	VV	563	11842	0.22%	0.014%
77	7.157	7.152	7.181	VV	179	1838	0.03%	0.002%
78	7.198	7.181	7.211	VV	150	2214	0.04%	0.003%
79	7.220	7.211	7.243	VV	194	2302	0.04%	0.003%
80	7.279	7.243	7.307	VV	1069	13787	0.26%	0.016%
81	7.317	7.307	7.325	VV	122	1124	0.02%	0.001%
82	7.336	7.325	7.371	VV	178	3440	0.07%	0.004%
83	7.387	7.371	7.397	VV	208	2283	0.04%	0.003%
84	7.419	7.397	7.454	VV	2217	25954	0.49%	0.030%
85	7.482	7.454	7.495	VV	148	3049	0.06%	0.004%
86	7.512	7.495	7.558	VV	307	4897	0.09%	0.006%
87	7.576	7.558	7.628	VV	141	3479	0.07%	0.004%
88	7.640	7.628	7.662	VV	107	1302	0.02%	0.001%
89	7.681	7.662	7.730	VV	521	7071	0.13%	0.008%

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90	7.766	7.730	7.811	VV	177	6422	0.12%	0.007%
91	7.818	7.811	7.828	VV	126	1127	0.02%	0.001%
92	7.850	7.828	7.860	VV	198	3017	0.06%	0.003%
93	7.876	7.860	7.918	VV	179	4612	0.09%	0.005%
94	7.942	7.918	7.961	VV	232	3528	0.07%	0.004%
95	7.986	7.961	8.014	PV	1907	22862	0.43%	0.026%
96	8.043	8.014	8.064	VV	1432	17190	0.33%	0.020%
97	8.081	8.064	8.101	VV	237	3513	0.07%	0.004%
98	8.109	8.101	8.128	VV	202	2655	0.05%	0.003%
99	8.149	8.128	8.175	VV	328	6678	0.13%	0.008%
100	8.198	8.175	8.233	VV	876	13722	0.26%	0.016%
101	8.294	8.233	8.371	VV	430966	4597741	87.13%	5.291%
102	8.405	8.371	8.431	VV	496	14136	0.27%	0.016%
103	8.444	8.431	8.468	VV	312	4196	0.08%	0.005%
104	8.482	8.468	8.511	VV	379	7119	0.13%	0.008%
105	8.523	8.511	8.568	VV	484	7136	0.14%	0.008%
106	8.571	8.568	8.581	VV	148	802	0.02%	0.001%
107	8.608	8.581	8.688	VV	6561	93876	1.78%	0.108%
108	8.703	8.688	8.731	VV	282	6117	0.12%	0.007%
109	8.753	8.731	8.767	VV	363	5813	0.11%	0.007%
110	8.782	8.767	8.810	VV	403	7223	0.14%	0.008%
111	8.829	8.810	8.871	VV	627	12895	0.24%	0.015%
112	8.895	8.871	8.921	VV	290	4324	0.08%	0.005%
113	8.945	8.921	8.968	VV	274	5685	0.11%	0.007%
114	9.012	8.968	9.036	VV	1566	33641	0.64%	0.039%
115	9.051	9.036	9.086	VV	575	11398	0.22%	0.013%
116	9.116	9.086	9.165	VV	1224	31237	0.59%	0.036%
117	9.171	9.165	9.181	VV	258	1781	0.03%	0.002%
118	9.203	9.181	9.225	VV	351	4939	0.09%	0.006%
119	9.253	9.225	9.283	VV	269	4062	0.08%	0.005%
120	9.303	9.283	9.321	VV	156	2446	0.05%	0.003%
121	9.357	9.321	9.386	VV	279	6418	0.12%	0.007%
122	9.416	9.386	9.461	VV	491	9937	0.19%	0.011%
123	9.488	9.461	9.517	VV	1044	17015	0.32%	0.020%
124	9.535	9.517	9.568	VV	608	8848	0.17%	0.010%
125	9.582	9.568	9.595	VV	212	2253	0.04%	0.003%
126	9.628	9.595	9.651	VV	566	10217	0.19%	0.012%
127	9.675	9.651	9.705	VV	2144	24081	0.46%	0.028%
128	9.734	9.705	9.749	PV	176	2851	0.05%	0.003%
129	9.767	9.749	9.794	VV	202	3499	0.07%	0.004%
130	9.814	9.794	9.851	VV	480	8887	0.17%	0.010%
131	9.898	9.851	10.035	VV	452215	5096346	96.58%	5.865%
132	10.043	10.035	10.055	VV	204	1984	0.04%	0.002%
133	10.067	10.055	10.086	VV	181	2447	0.05%	0.003%
134	10.120	10.086	10.158	VV	384	7600	0.14%	0.009%
135	10.171	10.158	10.190	VV	243	2656	0.05%	0.003%
136	10.221	10.190	10.238	VV	253	3939	0.07%	0.005%
137	10.288	10.238	10.307	VV	413	10635	0.20%	0.012%
138	10.331	10.307	10.348	VV	286	5390	0.10%	0.006%
139	10.382	10.348	10.408	VV	225	6366	0.12%	0.007%
140	10.425	10.408	10.433	VV	171	1991	0.04%	0.002%
141	10.447	10.433	10.458	VV	161	2005	0.04%	0.002%

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142	10.460	10.458	10.471	VV	174	809	0.02%	0.001%
143	10.498	10.471	10.510	VV	269	4177	0.08%	0.005%
144	10.536	10.510	10.550	VV	345	6252	0.12%	0.007%
145	10.568	10.550	10.618	VV	392	12413	0.24%	0.014%
146	10.636	10.618	10.673	VV	614	12093	0.23%	0.014%
147	10.694	10.673	10.707	VV	334	4823	0.09%	0.006%
148	10.734	10.707	10.795	VV	795	23809	0.45%	0.027%
149	10.825	10.795	10.839	VV	236	5461	0.10%	0.006%
150	10.849	10.839	10.874	VV	271	3927	0.07%	0.005%
151	10.890	10.874	10.934	VV	181	4850	0.09%	0.006%
152	10.962	10.934	10.986	VV	366	6721	0.13%	0.008%
153	11.007	10.986	11.030	VV	470	7166	0.14%	0.008%
154	11.061	11.030	11.116	VV	297	11142	0.21%	0.013%
155	11.143	11.116	11.181	VV	1698	21788	0.41%	0.025%
156	11.269	11.181	11.301	PV	3093	45473	0.86%	0.052%
157	11.342	11.301	11.411	VV	468420	5277058	100.00%	6.073%
158	11.435	11.411	11.478	VV	1096	17269	0.33%	0.020%
159	11.498	11.478	11.518	VV	138	2419	0.05%	0.003%
160	11.572	11.518	11.596	VV	159	4348	0.08%	0.005%
161	11.615	11.596	11.625	VV	174	2404	0.05%	0.003%
162	11.657	11.625	11.681	VV	271	6847	0.13%	0.008%
163	11.698	11.681	11.715	VV	219	3286	0.06%	0.004%
164	11.729	11.715	11.767	VV	326	7225	0.14%	0.008%
165	11.801	11.767	11.841	VV	360	10518	0.20%	0.012%
166	11.854	11.841	11.885	VV	177	3645	0.07%	0.004%
167	11.912	11.885	11.921	VV	199	3147	0.06%	0.004%
168	11.943	11.921	11.956	VV	291	4290	0.08%	0.005%
169	12.008	11.956	12.041	VV	649	16741	0.32%	0.019%
170	12.052	12.041	12.078	VV	242	4223	0.08%	0.005%
171	12.109	12.078	12.127	VV	214	5010	0.09%	0.006%
172	12.155	12.127	12.184	VV	219	5927	0.11%	0.007%
173	12.233	12.184	12.261	VV	415	11697	0.22%	0.013%
174	12.302	12.261	12.331	VV	371	10388	0.20%	0.012%
175	12.347	12.331	12.367	VV	308	5325	0.10%	0.006%
176	12.381	12.367	12.406	VV	289	4596	0.09%	0.005%
177	12.475	12.406	12.545	VV	1325	37458	0.71%	0.043%
178	12.591	12.545	12.613	VV	823	12815	0.24%	0.015%
179	12.654	12.613	12.706	VV	454089	5270013	99.87%	6.065%
180	12.714	12.706	12.725	VV	255	2577	0.05%	0.003%
181	12.736	12.725	12.752	VV	327	3818	0.07%	0.004%
182	12.770	12.752	12.791	VV	391	5200	0.10%	0.006%
183	12.801	12.791	12.825	VV	158	2427	0.05%	0.003%
184	12.834	12.825	12.880	VV	163	3222	0.06%	0.004%
185	12.926	12.880	12.964	PV	242	9086	0.17%	0.010%
186	12.977	12.964	12.994	VV	182	2384	0.05%	0.003%
187	13.099	12.994	13.178	VV	290426	3420149	64.81%	3.936%
188	13.208	13.178	13.225	VV	379	7850	0.15%	0.009%
189	13.267	13.225	13.348	VV	427034	5051914	95.73%	5.814%
190	13.359	13.348	13.417	VV	325	9810	0.19%	0.011%
191	13.428	13.417	13.434	VV	222	1665	0.03%	0.002%
192	13.489	13.434	13.508	VV	256	9016	0.17%	0.010%
193	13.536	13.508	13.551	VV	367	7095	0.13%	0.008%
194	13.564	13.551	13.592	VV	283	4866	0.09%	0.006%

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195	13.609	13.592	13.624	VV	310	4361	0.08%	0.005%
196	13.644	13.624	13.663	VV	708	9993	0.19%	0.012%
197	13.694	13.663	13.744	VV	1111	23742	0.45%	0.027%
198	13.752	13.744	13.772	VV	309	4396	0.08%	0.005%
199	13.798	13.772	13.814	VV	756	11884	0.23%	0.014%
200	13.854	13.814	13.898	VV	390117	4919896	93.23%	5.662%
201	13.909	13.898	13.945	VV	427	7549	0.14%	0.009%
202	13.955	13.945	13.964	VV	183	1885	0.04%	0.002%
203	13.984	13.964	14.021	VV	301	6976	0.13%	0.008%
204	14.039	14.021	14.134	VV	279	14828	0.28%	0.017%
205	14.181	14.134	14.211	VV	216	7124	0.13%	0.008%
206	14.289	14.211	14.330	VV	1032	23087	0.44%	0.027%
207	14.366	14.330	14.381	VV	238	5603	0.11%	0.006%
208	14.414	14.381	14.464	VV	2088	32980	0.62%	0.038%
209	14.477	14.464	14.522	VV	272	7182	0.14%	0.008%
210	14.571	14.522	14.585	VV	260	7671	0.15%	0.009%
211	14.623	14.585	14.641	VV	268	6233	0.12%	0.007%
212	14.661	14.641	14.668	VV	198	2688	0.05%	0.003%
213	14.676	14.668	14.688	VV	192	1969	0.04%	0.002%
214	14.701	14.688	14.715	VV	308	3332	0.06%	0.004%
215	14.730	14.715	14.746	VV	215	3256	0.06%	0.004%
216	14.769	14.746	14.785	VV	227	3638	0.07%	0.004%
217	14.811	14.785	14.871	VV	376	9209	0.17%	0.011%
218	14.958	14.871	15.062	VV	376146	4756193	90.13%	5.474%
219	15.115	15.062	15.143	VV	172	4825	0.09%	0.006%
220	15.152	15.143	15.182	VV	186	3430	0.06%	0.004%
221	15.197	15.182	15.245	VV	149	3664	0.07%	0.004%
222	15.259	15.245	15.276	PV	147	1777	0.03%	0.002%
223	15.290	15.276	15.321	VV	181	2302	0.04%	0.003%
224	15.385	15.321	15.405	PV	164	5619	0.11%	0.006%
225	15.475	15.405	15.559	VV	3179	50443	0.96%	0.058%
226	15.618	15.559	15.631	VV	169	3484	0.07%	0.004%
227	15.652	15.631	15.664	VV	72	1570	0.03%	0.002%
228	15.673	15.664	15.716	VV	134	2849	0.05%	0.003%
229	15.796	15.716	15.828	VV	243	9719	0.18%	0.011%
230	15.845	15.828	15.878	VV	247	5397	0.10%	0.006%
231	15.980	15.878	16.101	VV	349996	4531647	85.87%	5.215%
232	16.143	16.101	16.225	PV	187	7029	0.13%	0.008%
233	16.288	16.225	16.313	PV	194	6291	0.12%	0.007%
234	16.461	16.313	16.541	PV	3842	61298	1.16%	0.071%
235	16.630	16.541	16.718	VV	224	12086	0.23%	0.014%
236	16.757	16.718	16.781	VV	195	5128	0.10%	0.006%
237	16.810	16.781	16.839	VV	431	8070	0.15%	0.009%
238	16.932	16.839	17.001	VV	327420	4347536	82.39%	5.003%
239	17.022	17.001	17.067	VV	181	4519	0.09%	0.005%
240	17.081	17.067	17.105	VV	150	1770	0.03%	0.002%
241	17.161	17.105	17.178	PV	109	3235	0.06%	0.004%
242	17.214	17.178	17.241	VV	253	5482	0.10%	0.006%
243	17.266	17.241	17.288	VV	152	3036	0.06%	0.003%
244	17.380	17.288	17.445	VV	5423	80888	1.53%	0.093%
245	17.480	17.445	17.585	PV	166	7046	0.13%	0.008%
246	17.603	17.585	17.628	VV	191	2742	0.05%	0.003%

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247	17.708	17.628	17.745	VV	2910	45368	0.86%	0.052%
248	17.820	17.745	17.893	VV	298984	4290609	81.31%	4.938%
249	17.909	17.893	17.948	VV	220	3828	0.07%	0.004%
250	17.980	17.948	18.055	VV	200	6382	0.12%	0.007%
251	18.092	18.055	18.118	VV	194	3960	0.08%	0.005%
252	18.140	18.118	18.158	PV	154	1811	0.03%	0.002%
253	18.240	18.158	18.288	VV	8297	114624	2.17%	0.132%
254	18.406	18.288	18.421	VV	84	3267	0.06%	0.004%
255	18.502	18.421	18.531	PV	126	4750	0.09%	0.005%
256	18.547	18.531	18.573	VV	175	3250	0.06%	0.004%
257	18.654	18.573	18.713	VV	303674	4227548	80.11%	4.865%
258	18.786	18.713	18.808	VV	119	3910	0.07%	0.005%
259	18.909	18.808	18.958	VV	201	7158	0.14%	0.008%
260	18.979	18.958	19.005	PV	136	2397	0.05%	0.003%
261	19.049	19.005	19.108	PV	6026	88138	1.67%	0.101%
262	19.225	19.108	19.245	VV	258	13724	0.26%	0.016%
263	19.438	19.245	19.498	VV	275842	4209518	79.77%	4.845%
264	19.594	19.498	19.617	VV	604	31165	0.59%	0.036%
265	19.727	19.617	19.754	VV	665	44216	0.84%	0.051%
266	19.812	19.754	19.847	VV	2497	61051	1.16%	0.070%
267	19.922	19.847	19.938	VV	928	43194	0.82%	0.050%
268	19.997	19.938	20.014	VV	1067	42759	0.81%	0.049%
269	20.083	20.014	20.115	VV	1701	77405	1.47%	0.089%
270	20.180	20.115	20.258	VV	273233	4141638	78.48%	4.766%
271	20.540	20.258	20.588	VV	2945	359891	6.82%	0.414%
272	20.722	20.588	20.745	VV	2102	184216	3.49%	0.212%
273	20.780	20.745	20.815	VV	2049	84277	1.60%	0.097%
274	20.838	20.815	20.867	VV	2005	62277	1.18%	0.072%
275	20.946	20.867	21.028	VV	215634	4069392	77.11%	4.683%
276	21.060	21.028	21.105	VV	1653	71503	1.35%	0.082%
277	21.122	21.105	21.189	VV	1444	69179	1.31%	0.080%
278	21.208	21.189	21.243	VV	1288	39012	0.74%	0.045%
279	21.307	21.243	21.348	VV	1163	70253	1.33%	0.081%
280	21.391	21.348	21.492	VV	1628	95571	1.81%	0.110%
281	21.524	21.492	21.551	VV	876	29810	0.56%	0.034%
282	21.589	21.551	21.674	VV	780	50609	0.96%	0.058%
283	21.761	21.674	21.783	VV	659	39410	0.75%	0.045%
284	21.907	21.783	22.114	VV	142183	3596449	68.15%	4.139%
285	22.131	22.114	22.151	VV	122	1476	0.03%	0.002%

Sum of corrected areas: 86892202

Aliphatic EPH 080125.M Mon Aug 25 01:39:28 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	BACK-1-FLOOR-CENTER-MIDDLE-CMS	SDG No.:	Q2832
Lab Sample ID:	Q2892-05MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049660.D	1	08/21/25	08/23/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.53		0.14	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	10.7		0.26	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	23.2		0.45	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	36.9		1.34	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	54.6		40 - 140	109%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	55.1		40 - 140	110%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.8		40 - 140	74%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2892-05MS	Acq On:	23 Aug 2025 03:54
Client Sample ID:	Q2892-05MS	Operator:	YP/AJ
Data file:	FD049660.D	Misc:	
Instrument:	FID_D	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.407	6.150	9362890	86.742	200	ug/ml
Aromatic C12-C16	6.151	8.778	17569518	142.171	300	ug/ml
Aromatic C16-C21	8.779	13.069	38999279	308.328	500	ug/ml
Aromatic C21-C36	13.070	18.489	55240991	490.515	800	ug/ml
Aromatic EPH	4.407	18.489	121172678	1030		ug/ml
2-Bromonaphthalene (SURR)	7.716	7.716	5597452	54.62		ug/ml
2-Fluorobiphenyl (SURR)	8.582	8.582	4023121	55.08		ug/ml
ortho-Terphenyl (SURR)	11.627	11.627	4779844	36.83		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049660.D
 Signal(s) : FID2B.ch
 Acq On : 23 Aug 2025 03:54
 Operator : YP/AJ
 Sample : Q2892-05MS
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

Integration File: sample.E

Quant Time: Aug 25 01:52:39 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M

Quant Title : GC Extractables

QLast Update : Mon Aug 11 14:11:57 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...	7.716	5597452	54.616 ug/ml
Spiked Amount 50.000		Recovery =	109.23%
6) S 2-Fluorobiphenyl (SURR)	8.582	4023121	55.077 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	110.15%
11) S ortho-Terphenyl (SURR)	11.627	4779844	36.826 ug/ml
Spiked Amount 50.000		Recovery =	73.65%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.506	3827259	37.811 ug/ml
2) T Naphthalene (C11.7)	6.050	4632175	40.399 ug/ml
3) T 2-Methylnaphthalene (...)	7.105	4608760	38.634 ug/ml
5) T Acenaphthylene (C15.06)	8.385	5564696	44.265 ug/ml
7) T Acenaphthene (C15.5)	8.682	5660798	45.021 ug/ml
8) T Flouorene (C16.55)	9.463	6169304	48.727 ug/ml
9) T Phenanthrene (C19.36)	10.863	6796502	52.614 ug/ml
10) T Anthracene (C19.43)	10.939	6815293	55.322 ug/ml
12) T Fluoranthene (C21.85)	12.679	6994050	54.634 ug/ml
13) T Pyrene (C20.8)	12.977	7034884	55.408 ug/ml
14) T Benzo[a]anthracene (C...	14.850	6596505	57.164 ug/ml
15) T Chrysene (C27.41)	14.895	7292312	62.284 ug/ml
16) T benzo[b]fluoranthene ...	16.402	6260701	55.047 ug/ml
17) T Bnezo[k]fluoranthene ...	16.438	6100167	56.986 ug/mlm
18) T Benzo[a]pyrene (C31.34)	16.782	6029115	54.347 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.149	6379681	61.892 ug/ml
20) T Dibenz[a,h]anthracene...	18.188	5829544	53.483 ug/ml
21) T Benzo[g,h,i]perylene ...	18.406	5621725	51.446 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049660.D
Signal(s) : FID2B.ch
Acq On : 23 Aug 2025 03:54
Operator : YP/AJ
Sample : Q2892-05MS
Misc :
ALS Vial : 73 Sample Multiplier: 1

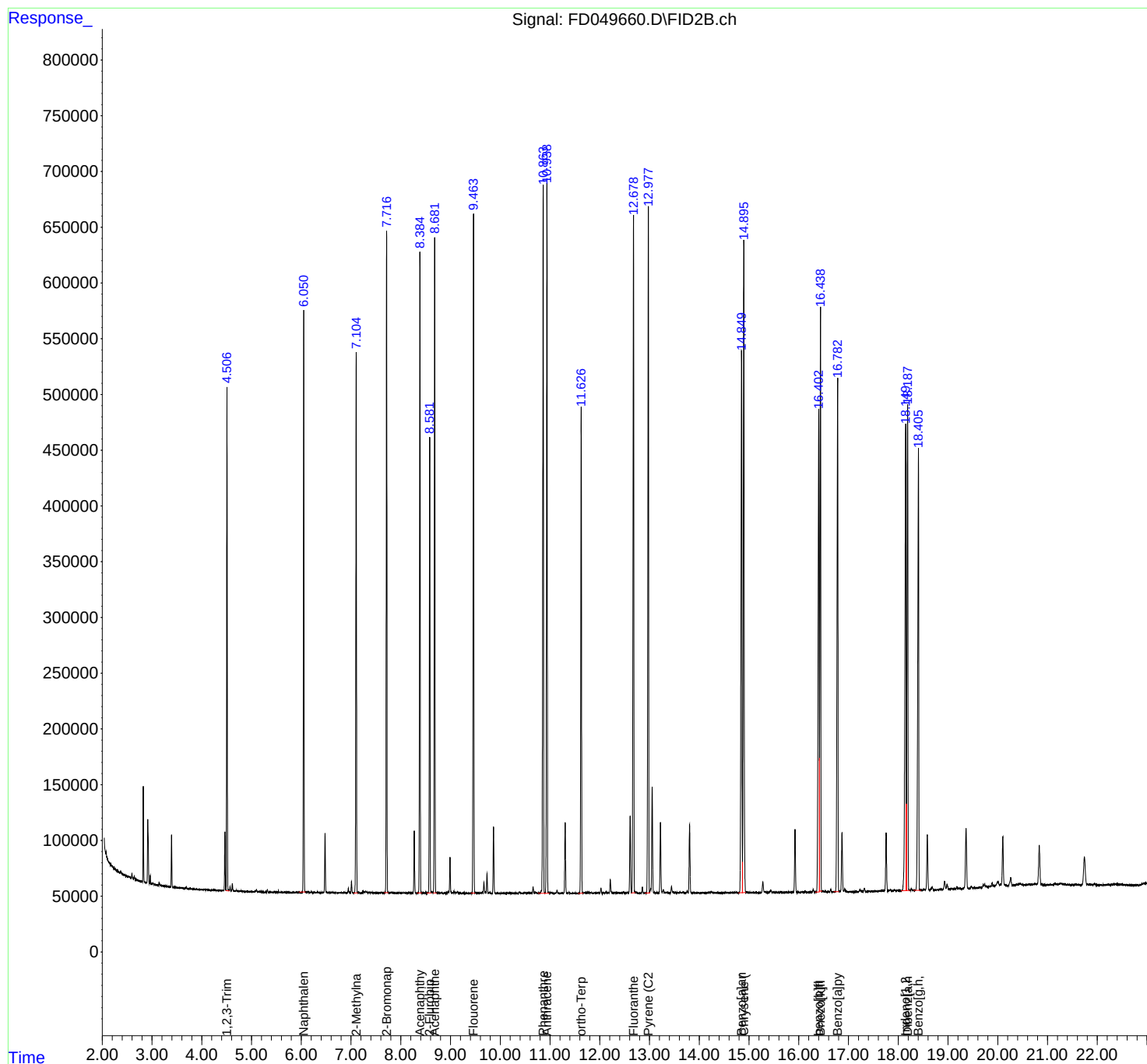
Instrument :
FID_D
ClientSampleId :
BACK-1-FLOOR-CENTER-MIDDLE-CMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/25/2025
Supervised By :mohammad ahmed 08/26/2025

Integration File: sample.E
Quant Time: Aug 25 01:52:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD08222
Data File : FD049660.D
Signal(s) : FID2B.ch
Acq On : 23 Aug 2025 03:54
Sample : Q2892-05MS
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.263	4.252	4.294	PH	545	5550	0.08%	0.004%
2	4.318	4.314	4.340	PV	226	1670	0.02%	0.001%
3	4.364	4.340	4.400	VV	348	6761	0.09%	0.005%
4	4.405	4.400	4.411	VV	329	1994	0.03%	0.001%
5	4.417	4.411	4.426	VV	519	3053	0.04%	0.002%
6	4.430	4.426	4.437	VV	360	1209	0.02%	0.001%
7	4.464	4.437	4.484	PV	53144	460807	6.31%	0.340%
8	4.506	4.484	4.531	VV	452865	3826120	52.36%	2.821%
9	4.537	4.531	4.552	VV	1269	12066	0.17%	0.009%
10	4.569	4.552	4.594	VV	4009	41413	0.57%	0.031%
11	4.614	4.594	4.673	VV	7005	73804	1.01%	0.054%
12	4.689	4.673	4.702	VV	581	5966	0.08%	0.004%
13	4.719	4.702	4.757	VV	1041	12372	0.17%	0.009%
14	4.773	4.757	4.786	VV	487	5097	0.07%	0.004%
15	4.798	4.786	4.822	VV	677	7969	0.11%	0.006%
16	4.833	4.822	4.877	VV	404	6800	0.09%	0.005%
17	4.915	4.889	4.930	VV	382	4613	0.06%	0.003%
18	4.937	4.930	4.954	VV	173	1625	0.02%	0.001%
19	4.961	4.954	4.966	VV	224	1280	0.02%	0.001%
20	4.992	4.966	5.003	VV	361	5212	0.07%	0.004%
21	5.022	5.003	5.042	VV	424	5763	0.08%	0.004%
22	5.069	5.042	5.082	VV	587	8181	0.11%	0.006%
23	5.099	5.082	5.140	VV	2127	28131	0.38%	0.021%
24	5.159	5.140	5.192	VV	516	10221	0.14%	0.008%
25	5.206	5.192	5.230	VV	527	5851	0.08%	0.004%
26	5.238	5.230	5.250	VV	507	2753	0.04%	0.002%
27	5.257	5.250	5.267	PV	256	1076	0.01%	0.001%
28	5.290	5.267	5.297	VV	259	3557	0.05%	0.003%
29	5.299	5.297	5.304	VV	386	1027	0.01%	0.001%
30	5.318	5.304	5.345	VV	2370	22943	0.31%	0.017%
31	5.356	5.345	5.370	VV	363	3184	0.04%	0.002%
32	5.374	5.370	5.390	VV	301	2821	0.04%	0.002%
33	5.397	5.390	5.405	VV	359	2408	0.03%	0.002%
34	5.411	5.405	5.419	VV	255	1698	0.02%	0.001%
35	5.426	5.419	5.432	VV	306	1977	0.03%	0.001%
36	5.451	5.432	5.461	VV	504	5356	0.07%	0.004%

					rters				
37	5.466	5.461	5.472	VV	415	2529	0.03%	0.002%	
38	5.477	5.472	5.492	VV	363	3355			
39	5.498	5.492	5.520	VV	720	6702			
40	5.540	5.520	5.556	PV	988	10543			
41	5.570	5.556	5.587	VV	424	4111			
42	5.598	5.587	5.620	VV	525	5859			
43	5.625	5.620	5.649	VV	303	3758	0.05%	0.003%	
44	5.668	5.649	5.672	VV	369	3152	0.04%	0.002%	
45	5.688	5.672	5.709	VV	416	5791	0.08%	0.004%	
46	5.715	5.709	5.724	VV	200	1365	0.02%	0.001%	
47	5.743	5.724	5.760	VV	374	6166	0.08%	0.005%	
48	5.765	5.760	5.785	VV	287	2965	0.04%	0.002%	
49	5.795	5.785	5.818	VV	239	3073	0.04%	0.002%	
50	5.836	5.818	5.849	VV	294	3437	0.05%	0.003%	
51	5.854	5.849	5.907	VV	310	6730	0.09%	0.005%	
52	5.915	5.907	5.927	VV	354	2781	0.04%	0.002%	
53	5.954	5.927	5.974	VV	674	10594	0.14%	0.008%	
54	5.983	5.974	5.995	VV	424	3940	0.05%	0.003%	
55	6.002	5.995	6.017	VV	419	3731	0.05%	0.003%	
56	6.050	6.017	6.084	VV	523546	4668701	63.89%	3.442%	
57	6.100	6.084	6.113	VV	1096	12994	0.18%	0.010%	
58	6.137	6.113	6.168	VV	753	14260	0.20%	0.011%	
59	6.199	6.168	6.229	VV	696	13509	0.18%	0.010%	
60	6.239	6.229	6.245	VV	312	2199	0.03%	0.002%	
61	6.255	6.245	6.290	VV	550	8403	0.11%	0.006%	
62	6.298	6.290	6.305	VV	270	1556	0.02%	0.001%	
63	6.324	6.305	6.352	VV	1068	14088	0.19%	0.010%	
64	6.366	6.352	6.386	VV	343	6114	0.08%	0.005%	
65	6.390	6.386	6.398	VV	444	2763	0.04%	0.002%	
66	6.412	6.398	6.420	VV	398	4374	0.06%	0.003%	
67	6.428	6.420	6.437	VV	365	3404	0.05%	0.003%	
68	6.479	6.437	6.506	VV	53595	518221	7.09%	0.382%	
69	6.512	6.506	6.530	VV	452	5210	0.07%	0.004%	
70	6.545	6.530	6.557	VV	512	6818	0.09%	0.005%	
71	6.567	6.557	6.577	VV	521	4788	0.07%	0.004%	
72	6.599	6.577	6.614	VV	576	8007	0.11%	0.006%	
73	6.629	6.614	6.650	VV	909	10179	0.14%	0.008%	
74	6.662	6.650	6.676	VV	331	2808	0.04%	0.002%	
75	6.697	6.676	6.727	PV	382	5741	0.08%	0.004%	
76	6.739	6.736	6.750	VV	225	1262	0.02%	0.001%	
77	6.771	6.759	6.777	VV	266	1817	0.02%	0.001%	
78	6.799	6.777	6.804	VV	361	3829	0.05%	0.003%	
79	6.810	6.804	6.826	VV	295	3054	0.04%	0.002%	
80	6.857	6.826	6.875	VV	459	7265	0.10%	0.005%	
81	6.877	6.875	6.899	VV	278	1984	0.03%	0.001%	
82	6.947	6.908	6.965	VV	4335	45481	0.62%	0.034%	
83	6.979	6.965	6.990	VV	663	8301	0.11%	0.006%	
84	7.010	6.990	7.057	VV	10463	107438	1.47%	0.079%	
85	7.105	7.067	7.138	VV	485581	4616591	63.18%	3.403%	
86	7.149	7.138	7.172	VV	538	7364	0.10%	0.005%	
87	7.177	7.172	7.194	VV	234	2015	0.03%	0.001%	
88	7.201	7.194	7.205	VV	240	1271	0.02%	0.001%	
89	7.209	7.205	7.216	VV	243	1174	0.02%	0.001%	

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

90	7.239	7.216	7.254	VV	1838	19845	0.27%	0.015%
91	7.262	7.254	7.278	VV	1501	16166		
92	7.294	7.278	7.308	VV	2085	23012		
93	7.319	7.308	7.352	VV	1222	17203		
94	7.370	7.352	7.386	VV	1033	13048		
95	7.401	7.386	7.426	VV	936	12180		
96	7.440	7.426	7.451	VV	537	5638	0.08%	0.004%
97	7.465	7.451	7.474	VV	501	5355	0.07%	0.004%
98	7.478	7.474	7.483	VV	388	1792	0.02%	0.001%
99	7.494	7.483	7.515	VV	541	5854	0.08%	0.004%
100	7.520	7.515	7.529	VV	202	1019	0.01%	0.001%
101	7.546	7.529	7.555	VV	228	2193	0.03%	0.002%
102	7.578	7.555	7.595	VV	697	8400	0.11%	0.006%
103	7.599	7.595	7.610	VV	263	2077	0.03%	0.002%
104	7.619	7.610	7.624	VV	452	3298	0.05%	0.002%
105	7.633	7.624	7.647	VV	598	5474	0.07%	0.004%
106	7.663	7.647	7.681	VV	620	8046	0.11%	0.006%
107	7.716	7.681	7.770	VV	593656	5625877	76.99%	4.148%
108	7.775	7.770	7.792	VV	406	3820	0.05%	0.003%
109	7.807	7.792	7.867	VV	803	20200	0.28%	0.015%
110	7.875	7.867	7.880	VV	191	1302	0.02%	0.001%
111	7.887	7.880	7.912	VV	320	3900	0.05%	0.003%
112	7.918	7.912	7.929	VV	292	2290	0.03%	0.002%
113	7.932	7.929	7.953	VV	346	2473	0.03%	0.002%
114	7.966	7.953	7.997	VV	622	7733	0.11%	0.006%
115	8.021	7.997	8.037	VV	392	6064	0.08%	0.004%
116	8.048	8.037	8.066	VV	484	5561	0.08%	0.004%
117	8.081	8.066	8.092	VV	402	4190	0.06%	0.003%
118	8.116	8.092	8.122	VV	363	4250	0.06%	0.003%
119	8.124	8.122	8.132	VV	343	1681	0.02%	0.001%
120	8.139	8.132	8.147	VV	461	2755	0.04%	0.002%
121	8.170	8.147	8.197	VV	658	13030	0.18%	0.010%
122	8.204	8.197	8.214	VV	400	2800	0.04%	0.002%
123	8.222	8.214	8.242	VV	386	4392	0.06%	0.003%
124	8.271	8.242	8.318	VV	56147	572092	7.83%	0.422%
125	8.329	8.318	8.347	VV	397	3886	0.05%	0.003%
126	8.385	8.347	8.452	PV	575777	5590762	76.51%	4.122%
127	8.461	8.452	8.486	VV	602	8187	0.11%	0.006%
128	8.503	8.486	8.521	VV	536	7176	0.10%	0.005%
129	8.527	8.521	8.542	VV	413	3319	0.05%	0.002%
130	8.582	8.542	8.614	VV	408761	4038923	55.27%	2.978%
131	8.634	8.614	8.649	VV	1473	20857	0.29%	0.015%
132	8.682	8.649	8.740	VV	588177	5686340	77.82%	4.192%
133	8.756	8.740	8.789	VV	686	12830	0.18%	0.009%
134	8.815	8.789	8.820	VV	533	6290	0.09%	0.005%
135	8.825	8.820	8.845	VV	577	5332	0.07%	0.004%
136	8.852	8.845	8.858	VV	290	1377	0.02%	0.001%
137	8.873	8.858	8.879	VV	496	4374	0.06%	0.003%
138	8.890	8.879	8.910	VV	584	6581	0.09%	0.005%
139	8.918	8.910	8.930	VV	418	3636	0.05%	0.003%
140	8.949	8.930	8.966	VV	1364	18612	0.25%	0.014%
141	8.990	8.966	9.027	VV	32426	331223	4.53%	0.244%

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMS

0.27% 0.015%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

142	9.040	9.027	9.053	VV	645	8119	0.11%	0.006%
143	9.071	9.053	9.094	VV	1912	24109		
144	9.111	9.094	9.125	VV	938	12718		
145	9.143	9.125	9.173	VV	1736	22973		
146	9.183	9.173	9.204	VV	424	4847		
147	9.227	9.204	9.233	VV	343	3417		
148	9.241	9.233	9.246	VV	304	1863	0.03%	0.001%
149	9.276	9.246	9.303	VV	691	11642	0.16%	0.009%
150	9.328	9.303	9.352	VV	531	8892	0.12%	0.007%
151	9.376	9.352	9.385	VV	296	4071	0.06%	0.003%
152	9.392	9.385	9.429	VV	356	5549	0.08%	0.004%
153	9.463	9.429	9.527	VV	607929	6190717	84.72%	4.564%
154	9.536	9.527	9.542	VV	484	3581	0.05%	0.003%
155	9.544	9.542	9.566	VV	477	3463	0.05%	0.003%
156	9.601	9.566	9.620	VV	552	10958	0.15%	0.008%
157	9.637	9.620	9.654	VV	975	13524	0.19%	0.010%
158	9.672	9.654	9.692	VV	9953	104696	1.43%	0.077%
159	9.703	9.692	9.713	VV	1256	12222	0.17%	0.009%
160	9.734	9.713	9.757	VV	17807	182396	2.50%	0.134%
161	9.785	9.757	9.794	VV	538	10046	0.14%	0.007%
162	9.801	9.794	9.832	VV	598	6241	0.09%	0.005%
163	9.865	9.832	9.908	VV	59825	650847	8.91%	0.480%
164	9.919	9.908	9.924	PV	260	1296	0.02%	0.001%
165	9.936	9.924	9.940	VV	349	2158	0.03%	0.002%
166	9.948	9.940	9.959	VV	366	3202	0.04%	0.002%
167	9.965	9.959	9.972	VV	262	1365	0.02%	0.001%
168	9.982	9.972	9.992	VV	235	1576	0.02%	0.001%
169	9.997	9.992	10.024	VV	219	2871	0.04%	0.002%
170	10.038	10.024	10.050	VV	269	3279	0.04%	0.002%
171	10.062	10.050	10.070	VV	333	2633	0.04%	0.002%
172	10.078	10.070	10.106	VV	277	4070	0.06%	0.003%
173	10.115	10.106	10.125	VV	202	1683	0.02%	0.001%
174	10.144	10.125	10.164	VV	721	8589	0.12%	0.006%
175	10.189	10.164	10.201	VV	394	4791	0.07%	0.004%
176	10.216	10.201	10.225	VV	329	3446	0.05%	0.003%
177	10.248	10.225	10.291	VV	418	12861	0.18%	0.009%
178	10.302	10.291	10.317	VV	567	5500	0.08%	0.004%
179	10.326	10.317	10.361	VV	553	8382	0.11%	0.006%
180	10.390	10.361	10.410	VV	1209	18128	0.25%	0.013%
181	10.416	10.410	10.421	VV	492	2547	0.03%	0.002%
182	10.424	10.421	10.442	VV	401	3891	0.05%	0.003%
183	10.447	10.442	10.462	VV	411	3399	0.05%	0.003%
184	10.489	10.462	10.517	VV	737	15991	0.22%	0.012%
185	10.542	10.517	10.546	VV	369	4406	0.06%	0.003%
186	10.559	10.546	10.568	VV	597	6471	0.09%	0.005%
187	10.578	10.568	10.630	VV	759	18206	0.25%	0.013%
188	10.660	10.630	10.681	VV	5853	67779	0.93%	0.050%
189	10.698	10.681	10.720	VV	1149	17651	0.24%	0.013%
190	10.733	10.720	10.762	VV	629	9800	0.13%	0.007%
191	10.768	10.762	10.777	VV	234	1394	0.02%	0.001%
192	10.793	10.777	10.805	VV	593	6997	0.10%	0.005%
193	10.824	10.805	10.830	VV	2676	24242	0.33%	0.018%
194	10.863	10.830	10.900	VV	635967	6781635	92.81%	5.000%

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

							Instrument : FID_D	
							ClientSampleId : BACK-1-FLOOR-CENTER-MIDDLE-CMS	
rteres								
195	10.939	10.900	10.987	VV	638641	6829732	93.47%	5.035%
							Manual IntegrationsAPPROVED	
196	11.013	10.987	11.085	VV	936	25960	0.00%	0.00%
197	11.108	11.085	11.122	VV	539	8111	0.00%	0.00%
198	11.141	11.122	11.207	VV	2984	39181	0.00%	0.00%
199	11.235	11.207	11.259	VV	640	10109	0.00%	0.00%
200	11.305	11.259	11.343	VV	63843	714145	0.00%	0.00%
201	11.351	11.343	11.363	VV	367	3271	0.04%	0.002%
202	11.381	11.363	11.409	VV	1006	14781	0.20%	0.011%
203	11.413	11.409	11.424	VV	269	1775	0.02%	0.001%
204	11.441	11.424	11.449	VV	303	3104	0.04%	0.002%
205	11.458	11.449	11.478	VV	382	5733	0.08%	0.004%
206	11.500	11.478	11.522	VV	651	9990	0.14%	0.007%
207	11.530	11.522	11.542	VV	200	1175	0.02%	0.001%
208	11.559	11.542	11.567	PV	181	1474	0.02%	0.001%
209	11.627	11.567	11.662	VV	437066	4790900	65.56%	3.532%
210	11.665	11.662	11.676	VV	694	3866	0.05%	0.003%
211	11.691	11.676	11.703	VV	734	9414	0.13%	0.007%
212	11.716	11.703	11.737	VV	928	12563	0.17%	0.009%
213	11.756	11.737	11.778	VV	1134	19065	0.26%	0.014%
214	11.784	11.778	11.798	VV	845	8528	0.12%	0.006%
215	11.803	11.798	11.819	VV	679	6327	0.09%	0.005%
216	11.829	11.819	11.867	VV	756	10529	0.14%	0.008%
217	11.872	11.867	11.879	VV	396	2094	0.03%	0.002%
218	11.898	11.879	11.922	VV	735	11074	0.15%	0.008%
219	11.931	11.922	11.938	VV	383	2866	0.04%	0.002%
220	11.962	11.938	11.990	VV	646	14956	0.20%	0.011%
221	12.024	11.990	12.045	VV	4934	62320	0.85%	0.046%
222	12.069	12.045	12.095	VV	720	15081	0.21%	0.011%
223	12.125	12.095	12.156	VV	1354	26831	0.37%	0.020%
224	12.162	12.156	12.168	VV	509	2621	0.04%	0.002%
225	12.179	12.168	12.183	VV	417	3555	0.05%	0.003%
226	12.212	12.183	12.285	VV	12398	165096	2.26%	0.122%
227	12.296	12.285	12.303	VV	630	5428	0.07%	0.004%
228	12.305	12.303	12.312	VV	518	2753	0.04%	0.002%
229	12.330	12.312	12.337	VV	626	7264	0.10%	0.005%
230	12.343	12.337	12.369	VV	644	8813	0.12%	0.006%
231	12.385	12.369	12.415	VV	534	9718	0.13%	0.007%
232	12.474	12.415	12.517	VV	1204	33617	0.46%	0.025%
233	12.550	12.526	12.577	VV	1008	13649	0.19%	0.010%
234	12.611	12.577	12.640	VV	69286	809619	11.08%	0.597%
235	12.679	12.640	12.714	VV	608453	7015019	96.00%	5.172%
236	12.731	12.714	12.763	VV	811	16423	0.22%	0.012%
237	12.772	12.763	12.782	VV	395	3797	0.05%	0.003%
238	12.786	12.782	12.795	VV	378	2483	0.03%	0.002%
239	12.799	12.795	12.822	VV	435	5090	0.07%	0.004%
240	12.857	12.822	12.891	VV	5757	67661	0.93%	0.050%
241	12.898	12.891	12.904	VV	389	2103	0.03%	0.002%
242	12.918	12.904	12.927	VV	300	3377	0.05%	0.002%
243	12.977	12.927	13.004	VV	617471	7046953	96.44%	5.195%
244	13.024	13.004	13.030	VV	4299	44909	0.61%	0.033%
245	13.054	13.030	13.086	VV	95395	1130721	15.47%	0.834%
246	13.094	13.086	13.124	VV	576	10351	0.14%	0.008%

					rteres				
247	13.139	13.124	13.159	VV	683	9697	0.13%	0.007%	
248	13.168	13.159	13.188	VV	539	6776			
249	13.221	13.188	13.254	VV	63448	765688	10.31%	0.555%	
250	13.275	13.254	13.332	VV	2812	57860			
251	13.342	13.332	13.369	VV	618	11223			
252	13.371	13.369	13.376	VV	450	1525			
253	13.380	13.376	13.401	VV	410	4140	0.06%	0.003%	
254	13.443	13.401	13.494	VV	6164	94251	1.29%	0.069%	
255	13.497	13.494	13.514	VV	676	6921	0.09%	0.005%	
256	13.518	13.514	13.540	VV	557	6881	0.09%	0.005%	
257	13.551	13.540	13.557	VV	593	4119	0.06%	0.003%	
258	13.561	13.557	13.583	VV	534	6280	0.09%	0.005%	
259	13.601	13.583	13.617	VV	540	9034	0.12%	0.007%	
260	13.626	13.617	13.642	VV	734	7512	0.10%	0.006%	
261	13.673	13.642	13.710	VV	803	18929	0.26%	0.014%	
262	13.715	13.710	13.735	VV	393	4255	0.06%	0.003%	
263	13.757	13.735	13.775	VV	1765	23449	0.32%	0.017%	
264	13.806	13.775	13.841	VV	61600	753300	10.31%	0.555%	
265	13.849	13.841	13.856	VV	263	1577	0.02%	0.001%	
266	13.875	13.856	13.881	VV	370	4102	0.06%	0.003%	
267	13.889	13.881	13.903	VV	396	3541	0.05%	0.003%	
268	13.908	13.903	13.955	VV	217	3956	0.05%	0.003%	
269	14.014	13.955	14.034	PV	243	6520	0.09%	0.005%	
270	14.041	14.034	14.047	VV	218	1506	0.02%	0.001%	
271	14.056	14.047	14.062	VV	292	2177	0.03%	0.002%	
272	14.070	14.062	14.086	VV	227	2364	0.03%	0.002%	
273	14.097	14.086	14.129	VV	384	3603	0.05%	0.003%	
274	14.137	14.129	14.158	VV	302	3429	0.05%	0.003%	
275	14.169	14.158	14.173	VV	259	1846	0.03%	0.001%	
276	14.191	14.173	14.212	VV	1022	14663	0.20%	0.011%	
277	14.237	14.212	14.270	VV	1076	20335	0.28%	0.015%	
278	14.282	14.270	14.304	VV	404	6421	0.09%	0.005%	
279	14.310	14.304	14.325	VV	244	2406	0.03%	0.002%	
280	14.366	14.325	14.391	VV	722	11603	0.16%	0.009%	
281	14.398	14.391	14.417	VV	359	3365	0.05%	0.002%	
282	14.423	14.417	14.430	VV	179	1041	0.01%	0.001%	
283	14.442	14.430	14.449	VV	256	2236	0.03%	0.002%	
284	14.463	14.449	14.496	VV	370	6027	0.08%	0.004%	
285	14.529	14.496	14.555	VV	743	13087	0.18%	0.010%	
286	14.578	14.555	14.599	VV	479	7455	0.10%	0.005%	
287	14.611	14.599	14.618	VV	282	2598	0.04%	0.002%	
288	14.623	14.618	14.642	VV	212	1427	0.02%	0.001%	
289	14.688	14.652	14.721	VV	510	12392	0.17%	0.009%	
290	14.745	14.721	14.775	VV	609	10541	0.14%	0.008%	
291	14.787	14.775	14.805	PV	250	2167	0.03%	0.002%	
292	14.850	14.805	14.868	VV	486338	6604988	90.39%	4.869%	
293	14.895	14.868	14.938	VV	585618	7307136	100.00%	5.387%	
294	14.955	14.938	14.990	VV	694	14087	0.19%	0.010%	
295	15.003	14.990	15.047	VV	475	9473	0.13%	0.007%	
296	15.053	15.047	15.061	VV	210	1421	0.02%	0.001%	
297	15.077	15.061	15.100	VV	392	6583	0.09%	0.005%	
298	15.113	15.100	15.123	VV	315	3210	0.04%	0.002%	
299	15.140	15.123	15.185	PV	329	4671	0.06%	0.003%	

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

300	15.212	15.185	15.233	VV	292	3193	0.04%	0.002%
301	15.278	15.233	15.311	PV	9909	147587		
302	15.325	15.311	15.360	VV	719	13195		
303	15.364	15.360	15.369	VV	320	1381		
304	15.377	15.369	15.402	VV	412	6152		
305	15.441	15.402	15.464	VV	2060	41593		
306	15.473	15.464	15.478	VV	486	3098	0.04%	0.002%
307	15.482	15.478	15.495	VV	469	3598	0.05%	0.003%
308	15.499	15.495	15.515	VV	328	3502	0.05%	0.003%
309	15.540	15.515	15.571	VV	414	9755	0.13%	0.007%
310	15.592	15.571	15.608	VV	273	3599	0.05%	0.003%
311	15.637	15.608	15.671	VV	436	9116	0.12%	0.007%
312	15.678	15.671	15.687	VV	230	1129	0.02%	0.001%
313	15.692	15.687	15.720	PV	282	3141	0.04%	0.002%
314	15.746	15.720	15.772	VV	493	7429	0.10%	0.005%
315	15.796	15.772	15.824	VV	661	9516	0.13%	0.007%
316	15.836	15.824	15.847	VV	303	3076	0.04%	0.002%
317	15.854	15.847	15.862	VV	332	2356	0.03%	0.002%
318	15.889	15.862	15.894	VV	618	8792	0.12%	0.006%
319	15.925	15.894	15.959	VV	56793	716614	9.81%	0.528%
320	15.979	15.959	16.007	VV	576	10734	0.15%	0.008%
321	16.032	16.021	16.047	VV	228	1998	0.03%	0.001%
322	16.063	16.047	16.069	VV	367	3169	0.04%	0.002%
323	16.074	16.069	16.099	VV	385	4269	0.06%	0.003%
324	16.124	16.099	16.149	VV	732	13112	0.18%	0.010%
325	16.177	16.158	16.183	PV	319	2289	0.03%	0.002%
326	16.193	16.183	16.210	VV	215	2357	0.03%	0.002%
327	16.226	16.224	16.245	VV	226	1613	0.02%	0.001%
328	16.252	16.245	16.267	VV	254	1864	0.03%	0.001%
329	16.290	16.267	16.350	VV	2253	36280	0.50%	0.027%
330	16.402	16.350	16.416	VV	433286	6272048	85.83%	4.624%
331	16.438	16.416	16.464	VV	520950	6180372	84.58%	4.556%
332	16.482	16.464	16.513	VV	1134	21785	0.30%	0.016%
333	16.536	16.513	16.560	VV	1219	19360	0.26%	0.014%
334	16.564	16.560	16.572	VV	313	2030	0.03%	0.001%
335	16.581	16.572	16.585	VV	321	2049	0.03%	0.002%
336	16.605	16.585	16.618	VV	523	7381	0.10%	0.005%
337	16.642	16.618	16.674	VV	2740	35404	0.48%	0.026%
338	16.712	16.674	16.736	VV	625	14665	0.20%	0.011%
339	16.782	16.736	16.810	VV	459513	6051530	82.82%	4.461%
340	16.832	16.810	16.839	VV	821	11441	0.16%	0.008%
341	16.870	16.839	16.901	VV	53590	717852	9.82%	0.529%
342	16.921	16.901	16.978	VV	2666	51314	0.70%	0.038%
343	16.982	16.978	16.986	VV	292	1237	0.02%	0.001%
344	16.991	16.986	17.001	VV	356	2336	0.03%	0.002%
345	17.019	17.001	17.029	VV	308	3638	0.05%	0.003%
346	17.034	17.029	17.058	VV	319	4059	0.06%	0.003%
347	17.065	17.058	17.077	VV	240	2032	0.03%	0.001%
348	17.083	17.077	17.105	VV	241	2139	0.03%	0.002%
349	17.138	17.115	17.153	VV	341	5242	0.07%	0.004%
350	17.161	17.153	17.181	VV	332	3095	0.04%	0.002%
351	17.229	17.181	17.264	PV	2220	37126	0.51%	0.027%

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMS

0.04% 0.002%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

352	17.269	17.264	17.280	VV	453	3773	0.05%	0.003%
353	17.286	17.280	17.292	VV	456	2416	0.05%	0.003%
354	17.320	17.292	17.352	VV	3194	46046	0.05%	0.003%
355	17.365	17.352	17.387	VV	276	3296	0.05%	0.003%
356	17.412	17.387	17.436	PV	582	10515	0.05%	0.003%
357	17.464	17.445	17.484	VV	419	6611	0.05%	0.003%
358	17.488	17.484	17.500	VV	277	2344	0.03%	0.002%
359	17.503	17.500	17.512	VV	233	1423	0.02%	0.001%
360	17.541	17.512	17.565	VV	539	9741	0.13%	0.007%
361	17.586	17.565	17.599	VV	296	3780	0.05%	0.003%
362	17.624	17.599	17.634	VV	666	9470	0.13%	0.007%
363	17.654	17.634	17.665	VV	652	9465	0.13%	0.007%
364	17.678	17.665	17.694	VV	652	8880	0.12%	0.007%
365	17.756	17.694	17.805	VV	52863	714559	9.78%	0.527%
366	17.843	17.805	17.877	VV	1388	31449	0.43%	0.023%
367	17.924	17.877	17.953	VV	890	18875	0.26%	0.014%
368	17.970	17.953	17.991	VV	602	9228	0.13%	0.007%
369	17.999	17.991	18.018	VV	480	6434	0.09%	0.005%
370	18.030	18.018	18.060	VV	421	6373	0.09%	0.005%
371	18.149	18.060	18.163	PV	417524	6391047	87.46%	4.712%
372	18.188	18.163	18.239	VV	434823	5842052	79.95%	4.307%
373	18.268	18.239	18.290	VV	1536	27583	0.38%	0.020%
374	18.296	18.290	18.330	VV	705	8784	0.12%	0.006%
375	18.406	18.330	18.482	PV	395535	5637060	77.14%	4.156%

Sum of corrected areas: 135644356

Aromatic EPH 081125.M Mon Aug 25 03:56:16 2025

Instrument :
FID_D
ClientSampleId :
BACK-1-FLOOR-CENTER-MIDDLE-CMS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025
Supervised By :mohammad ahmed 08/26/2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	BACK-1-FLOOR-CENTER-MIDDLE-CMSD	SDG No.:	Q2832
Lab Sample ID:	Q2892-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/21/25 11:00	08/22/25 20:12	PB169364

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.20		1	0.16	1.13	mg/kg	FC069714.D
Aliphatic C12-C16	Aliphatic C12-C16	5.49		1	0.12	0.75	mg/kg	FC069714.D
Aliphatic C16-C21	Aliphatic C16-C21	9.10		1	0.15	1.13	mg/kg	FC069714.D
Aliphatic C21-C28	Aliphatic C21-C28	12.1		1	0.60	1.50	mg/kg	FC069714.D
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1	1.33	2.26	mg/kg	FC069714.D
Aromatic C10-C12	Aromatic C10-C12	6.37		1	0.14	0.75	mg/kg	FD049661.D
Aromatic C12-C16	Aromatic C12-C16	10.3		1	0.26	1.13	mg/kg	FD049661.D
Aromatic C16-C21	Aromatic C16-C21	21.9		1	0.45	1.88	mg/kg	FD049661.D
Aromatic C21-C36	Aromatic C21-C36	35.6		1	1.34	3.01	mg/kg	FD049661.D
Total AliphaticEPH	Total AliphaticEPH	54.2			2.36	6.77	mg/kg	
Total AromaticEPH	Total AromaticEPH	74.2			2.19	6.77	mg/kg	
Total EPH	Total EPH	128			4.54	13.5	mg/kg	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	BACK-1-FLOOR-CENTER-MIDDLE-CMSD	SDG No.:	Q2832
Lab Sample ID:	Q2892-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069714.D	1	08/21/25	08/22/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.20		0.16	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.49		0.12	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.10		0.15	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.1		0.60	1.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1.33	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.6		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2892-05MSD	Acq On:	22 Aug 2025 20:12
Client Sample ID:	Q2892-05MSD	Operator:	YP/AJ
Data file:	FC069714.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	3.298	6.594	11928499	82.448	300	ug/ml
Aliphatic C12-C16	6.595	9.996	10468069	72.981	200	ug/ml
Aliphatic C16-C21	9.997	13.364	16175482	121.109	300	ug/ml
Aliphatic C21-C28	13.365	17.031	19064324	161.142	400	ug/ml
Aliphatic C28-C40	17.032	22.001	26982920	283.091	600	ug/ml
Aliphatic EPH	3.298	22.001	84619294	720.771		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.099	13.099	3776700	34.64		ug/ml
Aliphatic C9-C28	3.298	17.031	57636374	437.68	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
 Data File : FC069714.D
 Signal(s) : FID1A.ch
 Acq On : 22 Aug 2025 20:12
 Operator : YP/AJ
 Sample : Q2892-05MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 BACK-1-FLOOR-CENTER-MIDDLE-CMSD

Integration File: autoint1.e
 Quant Time: Aug 25 01:10:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
 Quant Title : GC Extractables
 QLast Update : Fri Aug 01 14:14:17 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...	13.099	3776700	34.641 ug/ml
Spiked Amount 50.000		Recovery =	69.28%
Target Compounds			
1) T n-Nonane (C9)	3.399	3232236	22.687 ug/ml
2) T n-Decane (C10)	4.471	3903371	26.849 ug/ml
4) T n-Dodecane (C12)	6.495	4303892	29.441 ug/ml
6) T n-Tetradecane (C14)	8.293	4647729	32.567 ug/ml
7) T n-Hexadecane (C16)	9.898	5158422	35.783 ug/ml
8) T n-Octadecane (C18)	11.342	5325422	37.659 ug/ml
10) T n-Eicosane (C20)	12.655	5319297	40.381 ug/ml
11) T n-Heneicosane (C21)	13.267	5076562	39.803 ug/ml
13) T n-Docosane (C22)	13.854	4941618	39.558 ug/ml
14) T n-Tetracosane (C24)	14.958	4765145	39.489 ug/ml
15) T n-Hexacosane (C26)	15.980	4528912	39.194 ug/ml
16) T n-Octacosane (C28)	16.932	4354721	38.851 ug/ml
17) T n-Tricontane (C30)	17.821	4288189	37.453 ug/ml
18) T n-Dotriacontane (C32)	18.656	4259497	38.346 ug/ml
19) T n-Tetratriacontane (C34)	19.440	4207515	41.322 ug/ml
20) T n-Hexatriacontane (C36)	20.180	4062918	45.566 ug/ml
21) T n-Octatriacontane (C38)	20.945	3981832	49.499 ug/ml
22) T n-Tetracontane (C40)	21.904	3661921	48.903 ug/ml

(f)=RT Delta > 1/2 Window

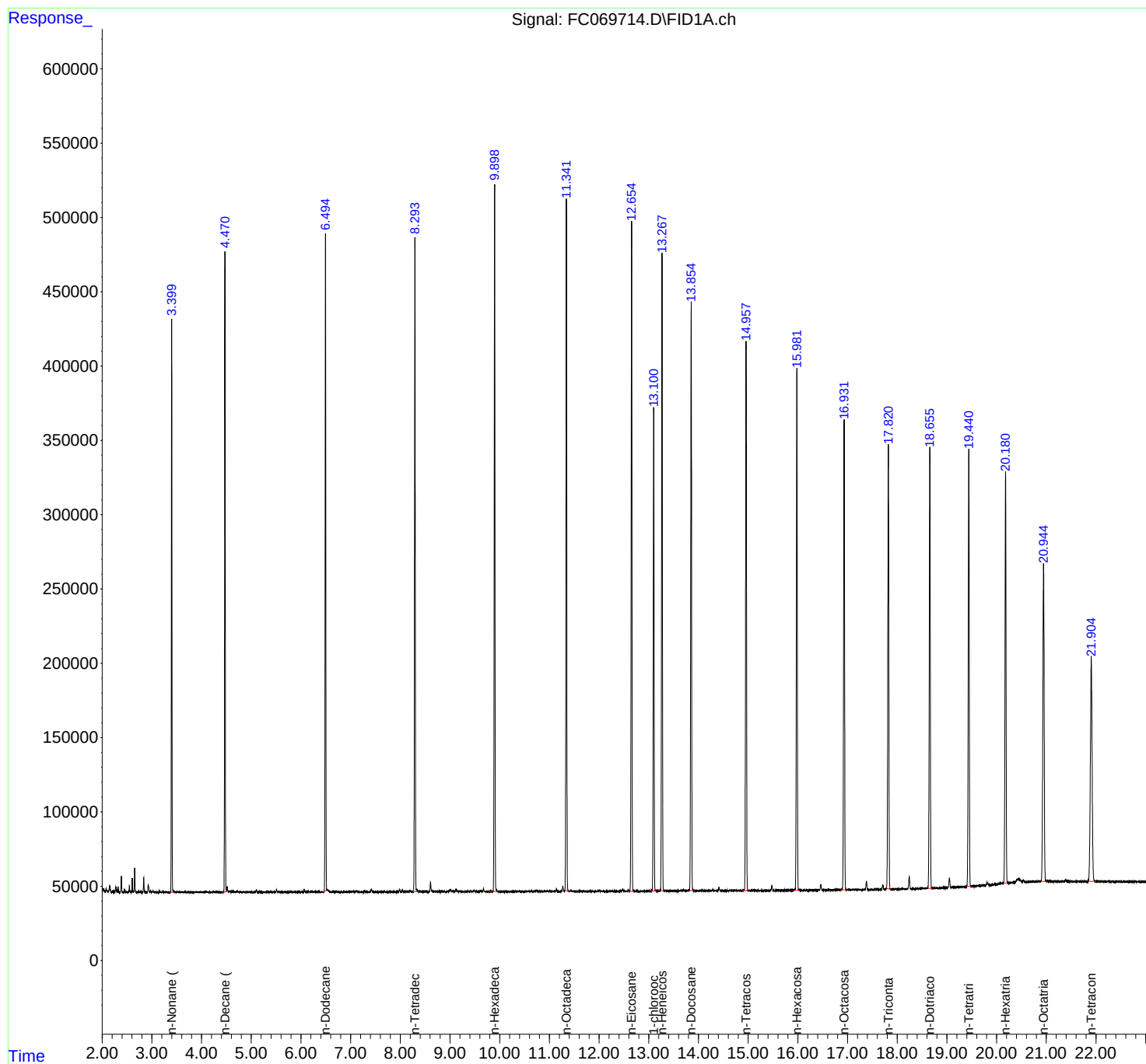
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
Data File : FC069714.D
Signal(s) : FID1A.ch
Acq On : 22 Aug 2025 20:12
Operator : YP/AJ
Sample : Q2892-05MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
BACK-1-FLOOR-CENTER-MIDDLE-CMSD

Integration File: autoint1.e
Quant Time: Aug 25 01:10:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.M
Quant Title : GC Extractables
QLast Update : Fri Aug 01 14:14:17 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC082225AL\
 Data File : FC069714.D
 Signal(s) : FID1A.ch
 Acq On : 22 Aug 2025 20:12
 Sample : Q2892-05MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 080125.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	3.222	3.204	3.267	BV	166	2260	0.04%	0.003%
2	3.297	3.267	3.335	PV	216	3063	0.06%	0.003%
3	3.345	3.335	3.370	VV	70	610	0.01%	0.001%
4	3.399	3.370	3.490	PV	381405	3245069	60.66%	3.670%
5	3.502	3.490	3.512	VV	273	2673	0.05%	0.003%
6	3.525	3.512	3.571	VV	370	8453	0.16%	0.010%
7	3.578	3.571	3.587	VV	211	1829	0.03%	0.002%
8	3.602	3.587	3.630	VV	278	4168	0.08%	0.005%
9	3.642	3.630	3.651	VV	142	1289	0.02%	0.001%
10	3.677	3.651	3.696	VV	319	5617	0.11%	0.006%
11	3.717	3.696	3.754	VV	335	6039	0.11%	0.007%
12	3.775	3.754	3.784	VV	211	2768	0.05%	0.003%
13	3.810	3.784	3.835	VV	137	3374	0.06%	0.004%
14	3.897	3.835	3.963	VV	289	8519	0.16%	0.010%
15	3.981	3.963	4.034	VV	311	5798	0.11%	0.007%
16	4.071	4.034	4.088	VV	453	6972	0.13%	0.008%
17	4.098	4.088	4.119	VV	623	6131	0.11%	0.007%
18	4.128	4.119	4.141	VV	63	851	0.02%	0.001%
19	4.164	4.141	4.186	VV	314	3776	0.07%	0.004%
20	4.241	4.186	4.264	VV	573	10713	0.20%	0.012%
21	4.278	4.264	4.305	VV	236	4110	0.08%	0.005%
22	4.317	4.305	4.327	VV	140	1609	0.03%	0.002%
23	4.337	4.327	4.360	VV	140	1887	0.04%	0.002%
24	4.400	4.360	4.419	VV	267	5535	0.10%	0.006%
25	4.471	4.419	4.499	VV	433371	3915441	73.19%	4.428%
26	4.516	4.499	4.564	VV	3852	54536	1.02%	0.062%
27	4.576	4.564	4.601	VV	729	10611	0.20%	0.012%
28	4.625	4.601	4.664	VV	676	15005	0.28%	0.017%
29	4.694	4.664	4.707	VV	545	8340	0.16%	0.009%
30	4.725	4.707	4.743	VV	1006	10560	0.20%	0.012%
31	4.756	4.743	4.788	VV	296	5436	0.10%	0.006%
32	4.799	4.788	4.834	VV	167	4802	0.09%	0.005%
33	4.845	4.834	4.864	VV	234	3205	0.06%	0.004%
34	4.890	4.864	4.905	VV	189	3262	0.06%	0.004%
35	4.921	4.905	4.936	VV	124	2066	0.04%	0.002%
36	4.945	4.936	4.987	VV	151	2203	0.04%	0.002%

					rteres			
37	4.999	4.987	5.018	PV	91	1067	0.02%	0.001%
38	5.030	5.018	5.051	VV	133	1579	0.03%	0.002%
39	5.105	5.051	5.137	VV	1709	23709	0.44%	0.027%
40	5.161	5.137	5.178	VV	404	5615	0.10%	0.006%
41	5.192	5.178	5.251	VV	186	4987	0.09%	0.006%
42	5.334	5.251	5.368	VV	177	6786	0.13%	0.008%
43	5.382	5.368	5.454	VV	159	4708	0.09%	0.005%
44	5.474	5.454	5.484	VV	136	1672	0.03%	0.002%
45	5.509	5.484	5.531	VV	1741	18790	0.35%	0.021%
46	5.550	5.531	5.581	VV	853	10325	0.19%	0.012%
47	5.606	5.581	5.634	VV	239	4346	0.08%	0.005%
48	5.669	5.634	5.682	VV	176	3339	0.06%	0.004%
49	5.699	5.682	5.738	VV	207	4108	0.08%	0.005%
50	5.752	5.738	5.781	VV	171	2738	0.05%	0.003%
51	5.795	5.781	5.805	VV	192	2101	0.04%	0.002%
52	5.811	5.805	5.837	VV	180	2223	0.04%	0.003%
53	5.859	5.837	5.876	VV	216	3499	0.07%	0.004%
54	5.885	5.876	5.907	VV	182	2476	0.05%	0.003%
55	5.922	5.907	5.935	VV	139	1683	0.03%	0.002%
56	5.966	5.935	5.991	VV	151	3472	0.06%	0.004%
57	6.014	5.991	6.043	VV	200	4284	0.08%	0.005%
58	6.067	6.043	6.091	VV	1181	16306	0.30%	0.018%
59	6.108	6.091	6.131	VV	430	6360	0.12%	0.007%
60	6.151	6.131	6.188	VV	712	10224	0.19%	0.012%
61	6.211	6.188	6.245	VV	621	10117	0.19%	0.011%
62	6.285	6.245	6.314	VV	276	7347	0.14%	0.008%
63	6.327	6.314	6.354	VV	211	4099	0.08%	0.005%
64	6.377	6.354	6.421	VV	220	6835	0.13%	0.008%
65	6.434	6.421	6.460	VV	202	3914	0.07%	0.004%
66	6.495	6.460	6.596	VV	441419	4376533	81.81%	4.949%
67	6.612	6.596	6.624	VV	263	3754	0.07%	0.004%
68	6.643	6.624	6.664	VV	803	10124	0.19%	0.011%
69	6.680	6.664	6.701	VV	302	4979	0.09%	0.006%
70	6.716	6.701	6.751	VV	396	5906	0.11%	0.007%
71	6.774	6.751	6.803	VV	183	3560	0.07%	0.004%
72	6.820	6.803	6.838	VV	164	2553	0.05%	0.003%
73	6.852	6.838	6.881	VV	158	2803	0.05%	0.003%
74	6.893	6.881	6.920	VV	174	2414	0.05%	0.003%
75	6.939	6.920	6.964	VV	353	4948	0.09%	0.006%
76	6.991	6.964	7.028	VV	441	10962	0.20%	0.012%
77	7.051	7.028	7.078	VV	433	8881	0.17%	0.010%
78	7.118	7.078	7.141	VV	589	12654	0.24%	0.014%
79	7.152	7.141	7.214	VV	253	6979	0.13%	0.008%
80	7.225	7.214	7.234	VV	168	1412	0.03%	0.002%
81	7.279	7.234	7.321	VV	1063	15137	0.28%	0.017%
82	7.339	7.321	7.370	VV	211	4042	0.08%	0.005%
83	7.385	7.370	7.394	VV	224	2373	0.04%	0.003%
84	7.418	7.394	7.474	VV	2177	28419	0.53%	0.032%
85	7.484	7.474	7.498	VV	182	2340	0.04%	0.003%
86	7.510	7.498	7.554	VV	261	4458	0.08%	0.005%
87	7.597	7.554	7.657	VV	168	5225	0.10%	0.006%
88	7.680	7.657	7.698	VV	548	5840	0.11%	0.007%
89	7.711	7.698	7.721	VV	92	893	0.02%	0.001%

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90	7.793	7.721	7.811	PV	213	6422	0.12%	0.007%
91	7.828	7.811	7.862	VV	218	5611	0.10%	0.006%
92	7.871	7.862	7.928	VV	243	6475	0.12%	0.007%
93	7.945	7.928	7.961	VV	349	3926	0.07%	0.004%
94	7.986	7.961	8.017	VV	1970	22963	0.43%	0.026%
95	8.043	8.017	8.128	VV	1384	25597	0.48%	0.029%
96	8.154	8.128	8.178	VV	374	7946	0.15%	0.009%
97	8.198	8.178	8.221	VV	922	12755	0.24%	0.014%
98	8.232	8.221	8.243	VV	282	3381	0.06%	0.004%
99	8.293	8.243	8.366	VV	437549	4665251	87.21%	5.276%
100	8.391	8.366	8.460	VV	498	18008	0.34%	0.020%
101	8.482	8.460	8.511	VV	458	9063	0.17%	0.010%
102	8.522	8.511	8.558	VV	547	6648	0.12%	0.008%
103	8.607	8.558	8.687	VV	6725	92687	1.73%	0.105%
104	8.746	8.687	8.768	VV	401	13803	0.26%	0.016%
105	8.782	8.768	8.811	VV	541	9228	0.17%	0.010%
106	8.829	8.811	8.874	VV	657	14175	0.26%	0.016%
107	8.892	8.874	8.918	VV	308	4119	0.08%	0.005%
108	8.949	8.918	8.959	VV	239	3834	0.07%	0.004%
109	9.012	8.959	9.035	VV	1437	32779	0.61%	0.037%
110	9.051	9.035	9.091	VV	621	13491	0.25%	0.015%
111	9.117	9.091	9.161	VV	1243	31160	0.58%	0.035%
112	9.174	9.161	9.187	VV	244	3203	0.06%	0.004%
113	9.202	9.187	9.234	VV	353	6122	0.11%	0.007%
114	9.253	9.234	9.284	VV	284	4728	0.09%	0.005%
115	9.304	9.284	9.324	VV	186	3479	0.07%	0.004%
116	9.351	9.324	9.361	VV	278	4883	0.09%	0.006%
117	9.372	9.361	9.387	VV	335	3892	0.07%	0.004%
118	9.414	9.387	9.434	VV	562	9931	0.19%	0.011%
119	9.448	9.434	9.458	VV	237	2379	0.04%	0.003%
120	9.488	9.458	9.518	VV	1103	18767	0.35%	0.021%
121	9.534	9.518	9.561	VV	680	8869	0.17%	0.010%
122	9.577	9.561	9.589	VV	236	3431	0.06%	0.004%
123	9.626	9.589	9.651	VV	626	12989	0.24%	0.015%
124	9.674	9.651	9.721	VV	2243	27854	0.52%	0.032%
125	9.731	9.721	9.758	VV	221	3904	0.07%	0.004%
126	9.764	9.758	9.791	VV	266	3367	0.06%	0.004%
127	9.815	9.791	9.861	VV	560	11962	0.22%	0.014%
128	9.898	9.861	9.956	VV	474600	5167393	96.59%	5.844%
129	9.968	9.956	10.031	VV	359	10938	0.20%	0.012%
130	10.047	10.031	10.088	VV	188	3968	0.07%	0.004%
131	10.121	10.088	10.152	PV	363	6205	0.12%	0.007%
132	10.176	10.152	10.193	VV	207	2735	0.05%	0.003%
133	10.221	10.193	10.250	VV	200	4666	0.09%	0.005%
134	10.289	10.250	10.308	VV	395	8303	0.16%	0.009%
135	10.326	10.308	10.351	VV	327	5560	0.10%	0.006%
136	10.366	10.351	10.401	VV	280	6476	0.12%	0.007%
137	10.406	10.401	10.454	VV	214	5272	0.10%	0.006%
138	10.460	10.454	10.471	VV	203	1548	0.03%	0.002%
139	10.496	10.471	10.508	VV	278	4033	0.08%	0.005%
140	10.534	10.508	10.547	VV	339	6523	0.12%	0.007%
141	10.567	10.547	10.597	VV	417	9348	0.17%	0.011%

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142	10.636	10.597	10.678	VV	595	16027	0.30%	0.018%
143	10.734	10.678	10.751	VV	749	18785	0.35%	0.021%
144	10.763	10.751	10.795	VV	657	10898	0.20%	0.012%
145	10.849	10.795	10.874	VV	309	11024	0.21%	0.012%
146	10.890	10.874	10.937	VV	238	7156	0.13%	0.008%
147	10.960	10.937	10.984	VV	365	7924	0.15%	0.009%
148	11.006	10.984	11.041	VV	468	9839	0.18%	0.011%
149	11.062	11.041	11.078	VV	377	6109	0.11%	0.007%
150	11.089	11.078	11.114	VV	255	3649	0.07%	0.004%
151	11.143	11.114	11.184	VV	1727	23292	0.44%	0.026%
152	11.205	11.184	11.220	VV	198	2598	0.05%	0.003%
153	11.233	11.220	11.240	VV	163	1648	0.03%	0.002%
154	11.270	11.240	11.301	VV	3496	46072	0.86%	0.052%
155	11.342	11.301	11.408	VV	465620	5349577	100.00%	6.050%
156	11.435	11.408	11.470	VV	1140	16947	0.32%	0.019%
157	11.495	11.470	11.528	VV	142	3410	0.06%	0.004%
158	11.562	11.528	11.600	VV	153	3226	0.06%	0.004%
159	11.644	11.600	11.678	PV	256	6683	0.12%	0.008%
160	11.695	11.678	11.706	VV	251	2851	0.05%	0.003%
161	11.735	11.706	11.778	VV	352	8536	0.16%	0.010%
162	11.799	11.778	11.847	VV	378	9030	0.17%	0.010%
163	11.865	11.847	11.875	VV	79	1311	0.02%	0.001%
164	11.895	11.875	11.921	VV	130	2441	0.05%	0.003%
165	11.939	11.921	11.954	VV	217	3176	0.06%	0.004%
166	12.008	11.954	12.034	VV	653	14114	0.26%	0.016%
167	12.067	12.034	12.101	VV	170	5167	0.10%	0.006%
168	12.116	12.101	12.189	VV	213	6431	0.12%	0.007%
169	12.230	12.189	12.262	VV	354	8248	0.15%	0.009%
170	12.300	12.262	12.328	VV	331	8179	0.15%	0.009%
171	12.343	12.328	12.368	VV	263	4007	0.07%	0.005%
172	12.385	12.368	12.408	VV	172	3095	0.06%	0.003%
173	12.474	12.408	12.501	VV	1314	25897	0.48%	0.029%
174	12.510	12.501	12.564	VV	414	7191	0.13%	0.008%
175	12.590	12.564	12.614	VV	697	10030	0.19%	0.011%
176	12.655	12.614	12.738	VV	452692	5327823	99.59%	6.025%
177	12.769	12.738	12.808	VV	337	6166	0.12%	0.007%
178	12.815	12.808	12.862	PV	92	1856	0.03%	0.002%
179	12.920	12.862	12.962	VV	271	6738	0.13%	0.008%
180	12.972	12.962	12.990	VV	143	1565	0.03%	0.002%
181	13.099	12.990	13.183	VV	327144	3801290	71.06%	4.299%
182	13.208	13.183	13.226	VV	418	6870	0.13%	0.008%
183	13.267	13.226	13.305	VV	431479	5086508	95.08%	5.752%
184	13.317	13.305	13.357	VV	363	8751	0.16%	0.010%
185	13.374	13.357	13.447	VV	259	8930	0.17%	0.010%
186	13.485	13.447	13.514	VV	260	7998	0.15%	0.009%
187	13.536	13.514	13.591	VV	300	9741	0.18%	0.011%
188	13.609	13.591	13.624	VV	227	3873	0.07%	0.004%
189	13.642	13.624	13.663	VV	683	9615	0.18%	0.011%
190	13.692	13.663	13.732	VV	1021	19398	0.36%	0.022%
191	13.747	13.732	13.771	VV	281	5564	0.10%	0.006%
192	13.800	13.771	13.814	VV	772	11970	0.22%	0.014%
193	13.854	13.814	13.897	VV	397893	4954966	92.62%	5.604%
194	13.910	13.897	13.957	VV	394	8542	0.16%	0.010%

					rteres			
195	13.982	13.957	14.003	VV	354	5456	0.10%	0.006%
196	14.016	14.003	14.024	VV	114	1080	0.02%	0.001%
197	14.073	14.024	14.145	VV	268	13161	0.25%	0.015%
198	14.152	14.145	14.171	VV	136	1781	0.03%	0.002%
199	14.183	14.171	14.201	VV	119	2359	0.04%	0.003%
200	14.221	14.201	14.241	VV	207	3433	0.06%	0.004%
201	14.289	14.241	14.328	VV	971	18688	0.35%	0.021%
202	14.335	14.328	14.344	VV	191	1649	0.03%	0.002%
203	14.348	14.344	14.377	VV	213	3122	0.06%	0.004%
204	14.414	14.377	14.452	VV	2224	32030	0.60%	0.036%
205	14.499	14.452	14.521	VV	188	6383	0.12%	0.007%
206	14.544	14.521	14.601	VV	314	9138	0.17%	0.010%
207	14.618	14.601	14.708	VV	286	13507	0.25%	0.015%
208	14.718	14.708	14.726	VV	199	1990	0.04%	0.002%
209	14.733	14.726	14.750	VV	256	2367	0.04%	0.003%
210	14.763	14.750	14.783	VV	276	3848	0.07%	0.004%
211	14.813	14.783	14.878	VV	441	11677	0.22%	0.013%
212	14.958	14.878	15.048	VV	368883	4780732	89.37%	5.406%
213	15.058	15.048	15.074	VV	156	2121	0.04%	0.002%
214	15.119	15.074	15.178	VV	247	9202	0.17%	0.010%
215	15.202	15.178	15.234	VV	174	3493	0.07%	0.004%
216	15.293	15.234	15.327	PV	197	5639	0.11%	0.006%
217	15.342	15.327	15.354	VV	135	1961	0.04%	0.002%
218	15.364	15.354	15.428	VV	210	4783	0.09%	0.005%
219	15.438	15.428	15.447	VV	161	1605	0.03%	0.002%
220	15.476	15.447	15.543	VV	3473	47361	0.89%	0.054%
221	15.578	15.543	15.647	VV	138	6588	0.12%	0.007%
222	15.655	15.647	15.701	VV	171	3581	0.07%	0.004%
223	15.738	15.701	15.758	VV	176	3729	0.07%	0.004%
224	15.801	15.758	15.820	VV	262	6292	0.12%	0.007%
225	15.846	15.820	15.893	VV	361	8985	0.17%	0.010%
226	15.980	15.893	16.052	VV	353852	4542172	84.91%	5.137%
227	16.067	16.052	16.178	VV	170	6256	0.12%	0.007%
228	16.181	16.178	16.191	VV	110	393	0.01%	0.000%
229	16.290	16.191	16.318	PV	175	4023	0.08%	0.005%
230	16.337	16.318	16.394	VV	240	3348	0.06%	0.004%
231	16.461	16.394	16.527	VV	3900	56117	1.05%	0.063%
232	16.544	16.527	16.601	VV	132	3152	0.06%	0.004%
233	16.627	16.601	16.654	VV	209	4410	0.08%	0.005%
234	16.661	16.654	16.694	VV	118	2422	0.05%	0.003%
235	16.703	16.694	16.714	VV	162	1134	0.02%	0.001%
236	16.762	16.714	16.781	VV	266	5463	0.10%	0.006%
237	16.811	16.781	16.844	VV	455	9023	0.17%	0.010%
238	16.932	16.844	17.001	VV	317005	4368073	81.65%	4.940%
239	17.032	17.001	17.048	VV	204	4672	0.09%	0.005%
240	17.063	17.048	17.104	VV	214	4682	0.09%	0.005%
241	17.132	17.104	17.179	VV	192	5994	0.11%	0.007%
242	17.213	17.179	17.241	VV	253	6719	0.13%	0.008%
243	17.262	17.241	17.288	VV	180	3276	0.06%	0.004%
244	17.324	17.288	17.334	PV	167	2603	0.05%	0.003%
245	17.381	17.334	17.420	VV	5684	79531	1.49%	0.090%
246	17.438	17.420	17.464	PV	90	1909	0.04%	0.002%

					rteres			
247	17.480	17.464	17.534	VV	240	5706	0.11%	0.006%
248	17.558	17.534	17.578	VV	201	3520	0.07%	0.004%
249	17.608	17.578	17.636	VV	240	4964	0.09%	0.006%
250	17.661	17.636	17.681	VV	171	3594	0.07%	0.004%
251	17.709	17.681	17.749	VV	2898	42991	0.80%	0.049%
252	17.821	17.749	17.884	VV	297597	4315649	80.67%	4.881%
253	17.905	17.884	17.933	VV	235	3942	0.07%	0.004%
254	17.978	17.933	18.029	VV	218	8041	0.15%	0.009%
255	18.038	18.029	18.054	VV	79	903	0.02%	0.001%
256	18.093	18.054	18.118	PV	284	4871	0.09%	0.006%
257	18.132	18.118	18.173	VV	117	1912	0.04%	0.002%
258	18.241	18.173	18.301	PV	8335	120010	2.24%	0.136%
259	18.342	18.301	18.354	VV	98	1651	0.03%	0.002%
260	18.379	18.354	18.398	VV	148	2232	0.04%	0.003%
261	18.498	18.398	18.527	PV	215	7517	0.14%	0.009%
262	18.544	18.527	18.572	VV	255	4748	0.09%	0.005%
263	18.655	18.572	18.734	VV	294491	4265207	79.73%	4.823%
264	18.850	18.734	18.860	VV	96	4972	0.09%	0.006%
265	18.907	18.860	18.924	PV	205	3354	0.06%	0.004%
266	18.951	18.924	18.961	VV	162	2369	0.04%	0.003%
267	18.978	18.961	18.994	VV	168	2221	0.04%	0.003%
268	19.049	18.994	19.094	VV	6126	94771	1.77%	0.107%
269	19.106	19.094	19.114	VV	124	1088	0.02%	0.001%
270	19.168	19.114	19.198	VV	225	8465	0.16%	0.010%
271	19.227	19.198	19.250	VV	261	6371	0.12%	0.007%
272	19.261	19.250	19.269	VV	199	1790	0.03%	0.002%
273	19.296	19.269	19.323	VV	263	6521	0.12%	0.007%
274	19.347	19.323	19.384	VV	335	9420	0.18%	0.011%
275	19.440	19.384	19.520	VV	293476	4236417	79.19%	4.791%
276	19.545	19.520	19.554	VV	406	7803	0.15%	0.009%
277	19.562	19.554	19.573	VV	448	4578	0.09%	0.005%
278	19.672	19.573	19.681	VV	596	33014	0.62%	0.037%
279	19.733	19.681	19.768	VV	762	33382	0.62%	0.038%
280	19.811	19.768	19.844	VV	2591	59997	1.12%	0.068%
281	20.081	19.844	20.123	VV	1814	179067	3.35%	0.203%
282	20.180	20.123	20.274	VV	278010	4209355	78.69%	4.760%
283	20.305	20.274	20.314	VV	1658	39455	0.74%	0.045%
284	20.444	20.314	20.512	VV	4055	321257	6.01%	0.363%
285	20.538	20.512	20.595	VV	3057	110670	2.07%	0.125%
286	20.624	20.595	20.635	VV	1934	44546	0.83%	0.050%
287	20.645	20.635	20.654	VV	1901	21861	0.41%	0.025%
288	20.662	20.654	20.668	VV	1906	15581	0.29%	0.018%
289	20.676	20.668	20.682	VV	1938	16533	0.31%	0.019%
290	20.733	20.682	20.754	VV	2066	85187	1.59%	0.096%
291	20.773	20.754	20.811	VV	1963	64671	1.21%	0.073%
292	20.837	20.811	20.878	VV	1960	74692	1.40%	0.084%
293	20.945	20.878	21.041	VV	214984	4148924	77.56%	4.692%
294	21.058	21.041	21.092	VV	1680	48661	0.91%	0.055%
295	21.101	21.092	21.107	VV	1488	13817	0.26%	0.016%
296	21.115	21.107	21.131	VV	1539	21163	0.40%	0.024%
297	21.140	21.131	21.178	VV	1439	38775	0.72%	0.044%
298	21.190	21.178	21.204	VV	1406	21373	0.40%	0.024%
299	21.220	21.204	21.248	VV	1391	33649	0.63%	0.038%

					rteres			
300	21.288	21.248	21.351	VV	1321	76636	1.43%	0.087%
301	21.389	21.351	21.444	VV	1829	76750	1.43%	0.087%
302	21.455	21.444	21.484	VV	1073	24184	0.45%	0.027%
303	21.491	21.484	21.642	VV	946	76663	1.43%	0.087%
304	21.777	21.642	21.818	VV	657	64305	1.20%	0.073%
305	21.905	21.818	22.144	VV	151357	3731768	69.76%	4.220%

Sum of corrected areas: 88425912

Aliphatic EPH 080125.M Mon Aug 25 01:40:09 2025

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	BACK-1-FLOOR-CENTER-MIDDLE-CMSD	SDG No.:	Q2832
Lab Sample ID:	Q2892-05MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049661.D	1	08/21/25	08/23/25	PB169364

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.37		0.14	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	10.3		0.26	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.9		0.45	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	35.6		1.34	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.7		40 - 140	105%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	52.3		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.5		40 - 140	69%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2892-05MSD	Acq On:	23 Aug 2025 04:42
Client Sample ID:	Q2892-05MSD	Operator:	YP/AJ
Data file:	FD049661.D	Misc:	
Instrument:	FID_D	ALS Vial:	74
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.407	6.150	9152570	84.793	200	ug/ml
Aromatic C12-C16	6.151	8.778	16960149	137.24	300	ug/ml
Aromatic C16-C21	8.779	13.069	36848911	291.327	500	ug/ml
Aromatic C21-C36	13.070	18.489	53349934	473.724	800	ug/ml
Aromatic EPH	4.407	18.489	116311564	987.084		ug/ml
2-Bromonaphthalene (SURR)	7.716	7.716	5397839	52.67		ug/ml
2-Fluorobiphenyl (SURR)	8.581	8.581	3821859	52.32		ug/ml
ortho-Terphenyl (SURR)	11.626	11.626	4473947	34.47		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
 Data File : FD049661.D
 Signal(s) : FID2B.ch
 Acq On : 23 Aug 2025 04:42
 Operator : YP/AJ
 Sample : Q2892-05MSD
 Misc :
 ALS Vial : 74 Sample Multiplier: 1

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMSD

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

Integration File: sample.E

Quant Time: Aug 25 01:53:05 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M

Quant Title : GC Extractables

Qlast Update : Mon Aug 11 14:11:57 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...	7.716	5397839	52.669 ug/ml
Spiked Amount 50.000		Recovery =	105.34%
6) S 2-Fluorobiphenyl (SURR)	8.581	3821859	52.321 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	104.64%
11) S ortho-Terphenyl (SURR)	11.626	4473947	34.469 ug/ml
Spiked Amount 50.000		Recovery =	68.94%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.507	3768458	37.230 ug/ml
2) T Naphthalene (C11.7)	6.050	4519080	39.413 ug/ml
3) T 2-Methylnaphthalene (...)	7.105	4455842	37.352 ug/ml
5) T Acenaphthylene (C15.06)	8.384	5336113	42.447 ug/ml
7) T Acenaphthene (C15.5)	8.681	5411614	43.040 ug/ml
8) T Flouorene (C16.55)	9.463	5850505	46.209 ug/ml
9) T Phenanthrene (C19.36)	10.862	6360335	49.237 ug/ml
10) T Anthracene (C19.43)	10.938	6377479	51.768 ug/ml
12) T Fluoranthene (C21.85)	12.677	6570957	51.329 ug/ml
13) T Pyrene (C20.8)	12.976	6624813	52.178 ug/ml
14) T Benzo[a]anthracene (C...	14.848	6319211	54.761 ug/ml
15) T Chrysene (C27.41)	14.894	6979524	59.612 ug/ml
16) T benzo[b]fluoranthene ...	16.401	6041068	53.116 ug/ml
17) T Bnezo[k]fluoranthene ...	16.437	5874719	54.880 ug/mlm
18) T Benzo[a]pyrene (C31.34)	16.781	5842539	52.666 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.148	6224147	60.383 ug/ml
20) T Dibenz[a,h]anthracene...	18.187	5662388	51.949 ug/ml
21) T Benzo[g,h,i]perylene ...	18.405	5489834	50.239 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD082225AR\
Data File : FD049661.D
Signal(s) : FID2B.ch
Acq On : 23 Aug 2025 04:42
Operator : YP/AJ
Sample : Q2892-05MSD
Misc :
ALS Vial : 74 Sample Multiplier: 1

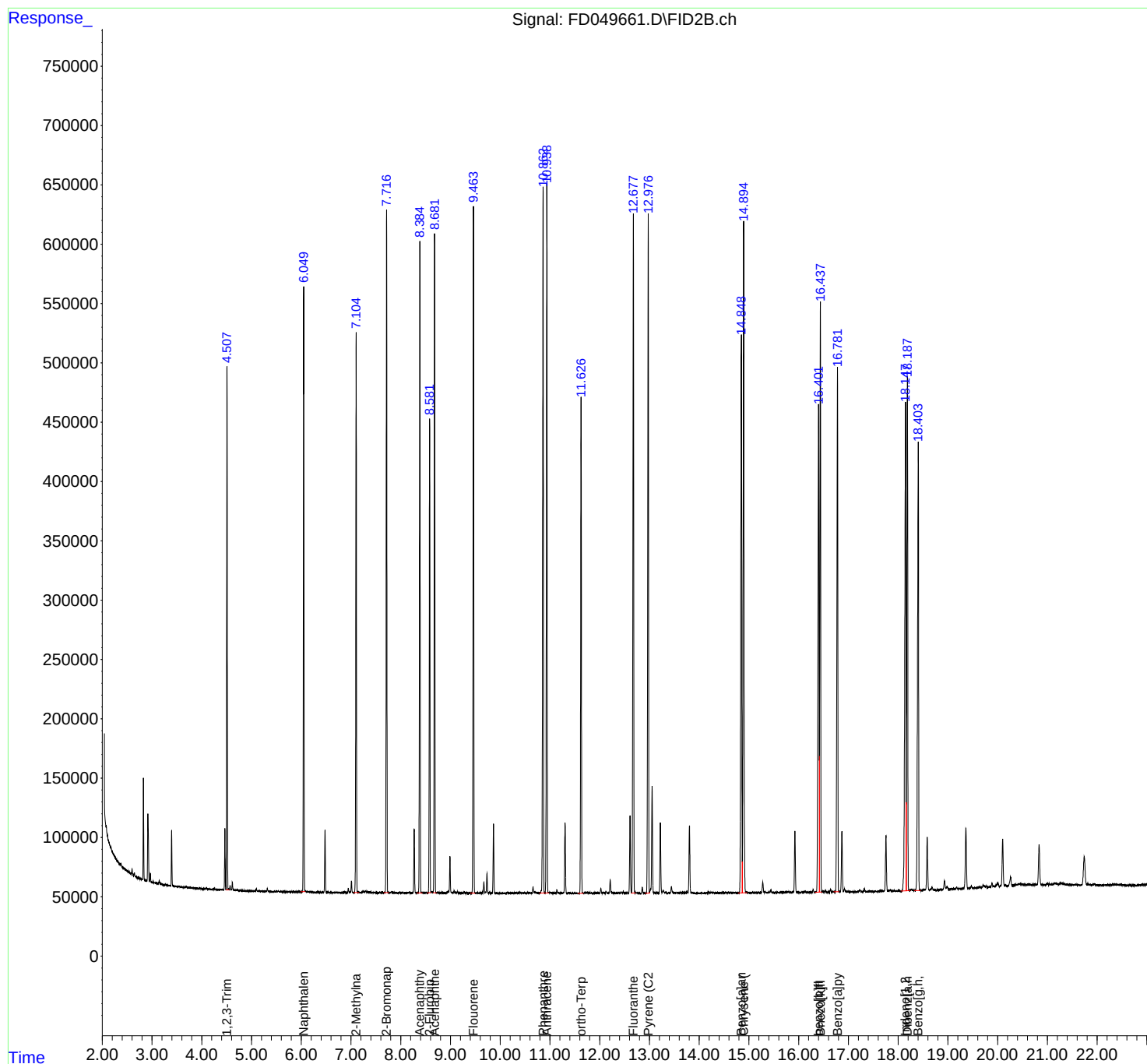
Instrument :
FID_D
ClientSampleId :
BACK-1-FLOOR-CENTER-MIDDLE-CMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/25/2025
Supervised By :mohammad ahmed 08/26/2025

Integration File: sample.E
Quant Time: Aug 25 01:53:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.M
Quant Title : GC Extractables
QLast Update : Mon Aug 11 14:11:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD08222
Data File : FD049661.D
Signal(s) : FID2B.ch
Acq On : 23 Aug 2025 04:42
Sample : Q2892-05MSD
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 081125.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	4.261	4.252	4.305	BV	403	3472	0.05%	0.003%
2	4.327	4.318	4.334	VV	343	1666	0.02%	0.001%
3	4.353	4.343	4.362	VV	317	1992	0.03%	0.002%
4	4.368	4.362	4.391	VV	136	1613	0.02%	0.001%
5	4.401	4.391	4.410	VV	197	1012	0.01%	0.001%
6	4.417	4.410	4.437	VV	311	3221	0.05%	0.002%
7	4.465	4.437	4.484	PV	51985	452923	6.47%	0.348%
8	4.507	4.484	4.532	VV	441169	3773611	53.92%	2.901%
9	4.540	4.532	4.554	VV	1301	12316	0.18%	0.009%
10	4.570	4.554	4.592	VV	3810	38958	0.56%	0.030%
11	4.615	4.592	4.647	VV	7060	71296	1.02%	0.055%
12	4.664	4.647	4.684	VV	518	7214	0.10%	0.006%
13	4.690	4.684	4.705	VV	564	4112	0.06%	0.003%
14	4.720	4.705	4.736	VV	771	7911	0.11%	0.006%
15	4.741	4.736	4.753	VV	247	1468	0.02%	0.001%
16	4.772	4.753	4.789	VV	273	3488	0.05%	0.003%
17	4.804	4.789	4.817	VV	436	3717	0.05%	0.003%
18	4.842	4.827	4.868	VV	403	4634	0.07%	0.004%
19	4.883	4.868	4.895	VV	245	2658	0.04%	0.002%
20	4.909	4.895	4.925	VV	424	4401	0.06%	0.003%
21	4.966	4.942	4.987	PV	328	5206	0.07%	0.004%
22	4.991	4.987	5.004	VV	350	2144	0.03%	0.002%
23	5.018	5.004	5.031	VV	362	4408	0.06%	0.003%
24	5.042	5.031	5.054	VV	214	1972	0.03%	0.002%
25	5.076	5.054	5.083	VV	419	4304	0.06%	0.003%
26	5.099	5.083	5.130	VV	2152	23183	0.33%	0.018%
27	5.157	5.130	5.174	PV	758	10217	0.15%	0.008%
28	5.183	5.174	5.197	VV	326	3759	0.05%	0.003%
29	5.205	5.197	5.222	VV	323	3907	0.06%	0.003%
30	5.227	5.222	5.248	VV	324	3301	0.05%	0.003%
31	5.253	5.248	5.286	VV	293	3976	0.06%	0.003%
32	5.293	5.286	5.301	VV	350	2776	0.04%	0.002%
33	5.318	5.301	5.369	VV	2493	30087	0.43%	0.023%
34	5.380	5.369	5.405	VV	322	3255	0.05%	0.003%
35	5.412	5.405	5.426	VV	275	2423	0.03%	0.002%
36	5.432	5.426	5.443	VV	257	1599	0.02%	0.001%

37	5.465	5.443	5.477	VV	461	4872	0.07%	0.004%
38	5.501	5.485	5.513	VV	596	6096	0.07%	0.004%
39	5.539	5.513	5.563	VV	964	11901	0.08%	0.005%
40	5.579	5.573	5.585	VV	389	1782	0.07%	0.004%
41	5.598	5.585	5.611	VV	422	4695	0.07%	0.004%
42	5.618	5.611	5.625	VV	259	1827	0.07%	0.004%
43	5.632	5.625	5.639	VV	358	2029	0.03%	0.002%
44	5.651	5.639	5.664	VV	333	4275	0.06%	0.003%
45	5.669	5.664	5.706	VV	330	4185	0.06%	0.003%
46	5.711	5.706	5.722	VV	191	1040	0.01%	0.001%
47	5.740	5.722	5.746	PV	300	3339	0.05%	0.003%
48	5.751	5.746	5.772	VV	288	2350	0.03%	0.002%
49	5.809	5.784	5.814	VV	421	4255	0.06%	0.003%
50	5.818	5.814	5.829	VV	295	1846	0.03%	0.001%
51	5.836	5.829	5.851	VV	246	2978	0.04%	0.002%
52	5.854	5.851	5.871	VV	285	1933	0.03%	0.001%
53	5.883	5.871	5.909	VV	279	3808	0.05%	0.003%
54	5.916	5.909	5.945	VV	388	6412	0.09%	0.005%
55	5.951	5.945	5.973	VV	511	5750	0.08%	0.004%
56	5.987	5.973	6.015	VV	508	8459	0.12%	0.007%
57	6.050	6.015	6.085	VV	511087	4545509	64.95%	3.494%
58	6.095	6.085	6.125	VV	910	15164	0.22%	0.012%
59	6.137	6.125	6.158	VV	795	9620	0.14%	0.007%
60	6.166	6.158	6.177	VV	600	4198	0.06%	0.003%
61	6.204	6.177	6.224	VV	678	12061	0.17%	0.009%
62	6.242	6.231	6.250	VV	269	2104	0.03%	0.002%
63	6.259	6.250	6.274	VV	264	2653	0.04%	0.002%
64	6.277	6.274	6.303	VV	242	3023	0.04%	0.002%
65	6.327	6.303	6.343	VV	1052	11599	0.17%	0.009%
66	6.350	6.343	6.375	VV	317	2884	0.04%	0.002%
67	6.397	6.375	6.405	VV	265	3045	0.04%	0.002%
68	6.409	6.405	6.425	VV	258	2755	0.04%	0.002%
69	6.435	6.425	6.445	VV	468	3458	0.05%	0.003%
70	6.479	6.445	6.510	VV	52808	503497	7.19%	0.387%
71	6.522	6.510	6.527	VV	405	3310	0.05%	0.003%
72	6.539	6.527	6.551	VV	472	5475	0.08%	0.004%
73	6.559	6.551	6.576	VV	454	4078	0.06%	0.003%
74	6.598	6.585	6.615	VV	587	5505	0.08%	0.004%
75	6.629	6.615	6.650	VV	601	6194	0.09%	0.005%
76	6.656	6.650	6.690	VV	362	4727	0.07%	0.004%
77	6.706	6.690	6.726	PV	454	5171	0.07%	0.004%
78	6.731	6.726	6.761	VV	303	4608	0.07%	0.004%
79	6.769	6.761	6.787	VV	261	3264	0.05%	0.003%
80	6.799	6.787	6.829	VV	326	4366	0.06%	0.003%
81	6.855	6.829	6.872	VV	496	8226	0.12%	0.006%
82	6.877	6.872	6.910	VV	430	7115	0.10%	0.005%
83	6.915	6.910	6.919	VV	412	1709	0.02%	0.001%
84	6.947	6.919	6.965	VV	4107	43803	0.63%	0.034%
85	6.976	6.965	6.990	VV	736	9307	0.13%	0.007%
86	7.010	6.990	7.065	VV	10202	111868	1.60%	0.086%
87	7.105	7.065	7.139	VV	473547	4471605	63.89%	3.438%
88	7.146	7.139	7.175	VV	745	11686	0.17%	0.009%
89	7.180	7.175	7.192	VV	357	3016	0.04%	0.002%

Instrument :

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ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

90	7.205	7.192	7.222	VV	462	5820	0.08%	0.004%
91	7.239	7.222	7.252	VV	1854	19741		
92	7.263	7.252	7.277	VV	1630	17620		
93	7.295	7.277	7.308	VV	2166	26704		
94	7.320	7.308	7.345	VV	1412	19131		
95	7.349	7.345	7.355	VV	642	3130		
96	7.372	7.355	7.389	VV	1129	13020	0.19%	0.010%
97	7.398	7.389	7.416	VV	788	9106	0.13%	0.007%
98	7.452	7.416	7.457	VV	547	8036	0.11%	0.006%
99	7.463	7.457	7.467	VV	484	2768	0.04%	0.002%
100	7.472	7.467	7.483	VV	551	4122	0.06%	0.003%
101	7.491	7.483	7.513	VV	679	6718	0.10%	0.005%
102	7.522	7.513	7.528	VV	267	1637	0.02%	0.001%
103	7.534	7.528	7.549	VV	357	3304	0.05%	0.003%
104	7.577	7.549	7.594	VV	732	11878	0.17%	0.009%
105	7.599	7.594	7.605	VV	438	2354	0.03%	0.002%
106	7.632	7.605	7.645	VV	571	10310	0.15%	0.008%
107	7.666	7.645	7.683	VV	601	9574	0.14%	0.007%
108	7.716	7.683	7.784	VV	573504	5428506	77.56%	4.173%
109	7.809	7.784	7.815	VV	879	12302	0.18%	0.009%
110	7.822	7.815	7.838	VV	1196	9592	0.14%	0.007%
111	7.842	7.838	7.862	VV	501	5535	0.08%	0.004%
112	7.868	7.862	7.874	VV	429	2562	0.04%	0.002%
113	7.879	7.874	7.882	VV	313	1455	0.02%	0.001%
114	7.888	7.882	7.896	VV	511	2809	0.04%	0.002%
115	7.904	7.896	7.910	VV	358	2555	0.04%	0.002%
116	7.919	7.910	7.938	VV	361	3771	0.05%	0.003%
117	7.968	7.938	7.979	PV	722	8534	0.12%	0.007%
118	7.985	7.979	7.998	VV	396	3797	0.05%	0.003%
119	8.020	7.998	8.030	VV	504	7709	0.11%	0.006%
120	8.035	8.030	8.040	VV	440	2360	0.03%	0.002%
121	8.049	8.040	8.061	VV	516	5211	0.07%	0.004%
122	8.070	8.061	8.087	VV	378	4713	0.07%	0.004%
123	8.096	8.087	8.109	VV	511	4806	0.07%	0.004%
124	8.113	8.109	8.119	VV	348	1577	0.02%	0.001%
125	8.147	8.119	8.155	VV	623	8904	0.13%	0.007%
126	8.165	8.155	8.197	VV	769	15017	0.21%	0.012%
127	8.200	8.197	8.232	VV	482	6647	0.09%	0.005%
128	8.271	8.232	8.298	VV	53959	551259	7.88%	0.424%
129	8.301	8.298	8.316	VV	343	1905	0.03%	0.001%
130	8.333	8.316	8.352	VV	519	7059	0.10%	0.005%
131	8.384	8.352	8.450	VV	548247	5353973	76.50%	4.116%
132	8.468	8.450	8.495	VV	609	11176	0.16%	0.009%
133	8.504	8.495	8.544	VV	554	9488	0.14%	0.007%
134	8.581	8.544	8.611	VV	399155	3844808	54.93%	2.956%
135	8.632	8.611	8.649	VV	1517	23205	0.33%	0.018%
136	8.681	8.649	8.720	VV	557311	5431946	77.61%	4.176%
137	8.730	8.720	8.739	VV	610	6189	0.09%	0.005%
138	8.754	8.739	8.764	VV	686	8794	0.13%	0.007%
139	8.770	8.764	8.777	VV	548	4016	0.06%	0.003%
140	8.780	8.777	8.789	VV	625	3591	0.05%	0.003%
141	8.803	8.789	8.817	VV	644	8330	0.12%	0.006%

Instrument :

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BACK-1-FLOOR-CENTER-MIDDLE-CMSD

0.08% 0.004%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

142	8.826	8.817	8.850	VV	786	9357	0.13%	0.007%
143	8.868	8.850	8.883	VV	720	10036	0.09%	0.005%
144	8.889	8.883	8.908	VV	543	4424	0.07%	0.004%
145	8.928	8.908	8.935	VV	546	6175	0.09%	0.005%
146	8.950	8.935	8.964	VV	1379	18249	0.31%	0.016%
147	8.990	8.964	9.037	VV	31136	330703	0.09%	0.005%
148	9.044	9.037	9.056	VV	763	6818	0.10%	0.005%
149	9.070	9.056	9.093	VV	1880	22939	0.33%	0.018%
150	9.114	9.093	9.126	VV	1072	15512	0.22%	0.012%
151	9.143	9.126	9.169	VV	1769	21415	0.31%	0.016%
152	9.182	9.169	9.211	VV	405	6271	0.09%	0.005%
153	9.215	9.211	9.220	VV	237	1025	0.01%	0.001%
154	9.234	9.220	9.249	VV	386	4707	0.07%	0.004%
155	9.272	9.249	9.303	VV	718	15781	0.23%	0.012%
156	9.316	9.303	9.321	VV	616	4831	0.07%	0.004%
157	9.329	9.321	9.339	VV	587	4714	0.07%	0.004%
158	9.346	9.339	9.350	VV	245	1391	0.02%	0.001%
159	9.359	9.350	9.364	VV	289	1718	0.02%	0.001%
160	9.396	9.364	9.411	VV	412	6683	0.10%	0.005%
161	9.463	9.411	9.500	VV	580005	5865473	83.81%	4.509%
162	9.508	9.500	9.534	VV	420	7000	0.10%	0.005%
163	9.537	9.534	9.549	VV	492	3444	0.05%	0.003%
164	9.555	9.549	9.570	VV	444	4007	0.06%	0.003%
165	9.574	9.570	9.578	VV	264	1217	0.02%	0.001%
166	9.598	9.578	9.620	VV	548	9233	0.13%	0.007%
167	9.640	9.620	9.653	VV	1006	12428	0.18%	0.010%
168	9.672	9.653	9.692	VV	9377	97561	1.39%	0.075%
169	9.704	9.692	9.713	VV	1139	11642	0.17%	0.009%
170	9.734	9.713	9.764	VV	16725	175391	2.51%	0.135%
171	9.790	9.764	9.798	VV	702	9440	0.13%	0.007%
172	9.802	9.798	9.834	VV	502	4902	0.07%	0.004%
173	9.866	9.834	9.893	PV	58557	616812	8.81%	0.474%
174	9.901	9.893	9.918	VV	365	3088	0.04%	0.002%
175	9.939	9.918	9.955	VV	361	5140	0.07%	0.004%
176	9.964	9.955	9.974	VV	344	3022	0.04%	0.002%
177	9.990	9.974	9.997	VV	400	3032	0.04%	0.002%
178	10.007	9.997	10.017	VV	372	2703	0.04%	0.002%
179	10.022	10.017	10.033	VV	208	1669	0.02%	0.001%
180	10.038	10.033	10.052	VV	279	2483	0.04%	0.002%
181	10.062	10.052	10.072	VV	320	2652	0.04%	0.002%
182	10.094	10.072	10.110	VV	454	5792	0.08%	0.004%
183	10.115	10.110	10.124	VV	230	1101	0.02%	0.001%
184	10.142	10.128	10.167	VV	777	9376	0.13%	0.007%
185	10.170	10.167	10.188	VV	384	2573	0.04%	0.002%
186	10.199	10.188	10.204	VV	385	3012	0.04%	0.002%
187	10.209	10.204	10.230	VV	435	5243	0.07%	0.004%
188	10.237	10.230	10.243	VV	524	2672	0.04%	0.002%
189	10.285	10.243	10.313	VV	590	17338	0.25%	0.013%
190	10.329	10.313	10.336	VV	479	4752	0.07%	0.004%
191	10.349	10.336	10.359	VV	375	4400	0.06%	0.003%
192	10.361	10.359	10.366	VV	363	1682	0.02%	0.001%
193	10.388	10.366	10.407	VV	1348	17934	0.26%	0.014%
194	10.413	10.407	10.424	VV	422	3882	0.06%	0.003%

Instrument :

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ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMSD

Manual IntegrationsAPPROVED

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195	10.426	10.424	10.439	VV	420	3209	0.05%	0.002%
196	10.450	10.439	10.467	VV	526	6258		
197	10.491	10.467	10.526	VV	1128	17415		
198	10.555	10.526	10.567	VV	766	11228		
199	10.585	10.567	10.611	VV	817	15228		
200	10.619	10.611	10.636	VV	560	6281		
201	10.661	10.636	10.681	VV	5480	63409	0.91%	0.049%
202	10.693	10.681	10.714	VV	1151	17804	0.25%	0.014%
203	10.740	10.714	10.769	VV	724	15621	0.22%	0.012%
204	10.795	10.769	10.803	VV	593	8070	0.12%	0.006%
205	10.824	10.803	10.830	VV	2632	24765	0.35%	0.019%
206	10.862	10.830	10.902	VV	594360	6364671	90.94%	4.893%
207	10.938	10.902	10.995	VV	599941	6408537	91.57%	4.927%
208	11.011	10.995	11.032	VV	1041	17393	0.25%	0.013%
209	11.036	11.032	11.070	VV	747	11148	0.16%	0.009%
210	11.071	11.070	11.086	VV	480	3168	0.05%	0.002%
211	11.109	11.086	11.121	VV	597	7686	0.11%	0.006%
212	11.141	11.121	11.190	VV	2943	42745	0.61%	0.033%
213	11.194	11.190	11.207	VV	451	3316	0.05%	0.003%
214	11.233	11.207	11.257	VV	626	11932	0.17%	0.009%
215	11.304	11.257	11.345	VV	59644	677612	9.68%	0.521%
216	11.348	11.345	11.357	VV	484	2736	0.04%	0.002%
217	11.362	11.357	11.365	VV	484	2220	0.03%	0.002%
218	11.379	11.365	11.442	VV	948	18850	0.27%	0.014%
219	11.454	11.442	11.461	VV	455	4272	0.06%	0.003%
220	11.464	11.461	11.475	VV	396	2381	0.03%	0.002%
221	11.502	11.475	11.515	VV	625	9230	0.13%	0.007%
222	11.525	11.515	11.531	VV	442	3083	0.04%	0.002%
223	11.542	11.531	11.565	VV	557	6580	0.09%	0.005%
224	11.587	11.565	11.594	PV	398	4176	0.06%	0.003%
225	11.626	11.594	11.679	VV	419621	4486486	64.10%	3.449%
226	11.691	11.679	11.707	VV	765	10868	0.16%	0.008%
227	11.720	11.707	11.737	VV	970	12343	0.18%	0.009%
228	11.754	11.737	11.773	VV	1195	17812	0.25%	0.014%
229	11.781	11.773	11.784	VV	756	4680	0.07%	0.004%
230	11.792	11.784	11.804	VV	806	7898	0.11%	0.006%
231	11.806	11.804	11.817	VV	650	3842	0.05%	0.003%
232	11.831	11.817	11.865	VV	618	11142	0.16%	0.009%
233	11.877	11.865	11.886	VV	439	4345	0.06%	0.003%
234	11.901	11.886	11.925	VV	732	12143	0.17%	0.009%
235	11.958	11.925	11.965	VV	761	12382	0.18%	0.010%
236	11.977	11.965	11.998	VV	754	10799	0.15%	0.008%
237	12.023	11.998	12.050	VV	4547	56003	0.80%	0.043%
238	12.064	12.050	12.098	VV	764	14972	0.21%	0.012%
239	12.127	12.098	12.155	VV	1449	25642	0.37%	0.020%
240	12.170	12.155	12.175	VV	481	4707	0.07%	0.004%
241	12.211	12.175	12.286	VV	11387	163016	2.33%	0.125%
242	12.303	12.286	12.318	VV	531	7453	0.11%	0.006%
243	12.329	12.318	12.351	VV	590	9671	0.14%	0.007%
244	12.377	12.351	12.389	VV	636	11198	0.16%	0.009%
245	12.395	12.389	12.410	VV	573	5615	0.08%	0.004%
246	12.415	12.410	12.419	VV	577	2377	0.03%	0.002%

Instrument :

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BACK-1-FLOOR-CENTER-MIDDLE-CMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

Site: Campfield - BACK-1-FLOOR-CENTRAL							Reviewed By : Yogi	
Manual Integration							Supervised By : m	
247	12.422	12.419	12.434	VV	511	3894	0.06%	0.003%
248	12.471	12.434	12.500	VV	1243	28255	0.06%	0.003%
249	12.509	12.500	12.526	VV	399	5095	0.06%	0.003%
250	12.553	12.526	12.579	VV	1019	17166	0.06%	0.003%
251	12.610	12.579	12.638	VV	65359	752146	10.06%	0.003%
252	12.677	12.638	12.710	VV	572675	6586534	94.06%	0.003%
253	12.715	12.710	12.722	VV	736	4686	0.07%	0.004%
254	12.730	12.722	12.754	VV	792	10627	0.15%	0.008%
255	12.771	12.754	12.788	VV	473	6690	0.10%	0.005%
256	12.802	12.788	12.819	VV	462	4144	0.06%	0.003%
257	12.856	12.819	12.895	VV	5152	65096	0.93%	0.050%
258	12.899	12.895	12.905	VV	277	1342	0.02%	0.001%
259	12.915	12.905	12.925	VV	243	2031	0.03%	0.002%
260	12.976	12.925	13.002	PV	574214	6636524	94.82%	5.102%
261	13.023	13.002	13.030	VV	4104	44857	0.64%	0.034%
262	13.054	13.030	13.095	VV	90375	1053126	15.05%	0.810%
263	13.100	13.095	13.120	VV	668	6991	0.10%	0.005%
264	13.132	13.120	13.141	VV	605	5272	0.08%	0.004%
265	13.147	13.141	13.158	VV	520	4008	0.06%	0.003%
266	13.168	13.158	13.188	VV	600	7102	0.10%	0.005%
267	13.220	13.188	13.253	VV	59630	708471	10.12%	0.545%
268	13.275	13.253	13.314	VV	2636	52250	0.75%	0.040%
269	13.318	13.314	13.323	VV	689	3816	0.05%	0.003%
270	13.336	13.323	13.359	VV	864	11395	0.16%	0.009%
271	13.364	13.359	13.370	VV	239	1547	0.02%	0.001%
272	13.384	13.370	13.388	VV	388	3275	0.05%	0.003%
273	13.395	13.388	13.405	VV	543	3442	0.05%	0.003%
274	13.443	13.405	13.504	VV	5737	97006	1.39%	0.075%
275	13.512	13.504	13.531	VV	559	7430	0.11%	0.006%
276	13.556	13.531	13.567	VV	558	8387	0.12%	0.006%
277	13.571	13.567	13.577	VV	399	2131	0.03%	0.002%
278	13.598	13.577	13.601	VV	448	5006	0.07%	0.004%
279	13.606	13.601	13.613	VV	518	3275	0.05%	0.003%
280	13.624	13.613	13.640	VV	680	8043	0.11%	0.006%
281	13.669	13.640	13.694	VV	787	15939	0.23%	0.012%
282	13.703	13.694	13.734	VV	568	10691	0.15%	0.008%
283	13.755	13.734	13.775	VV	1767	24467	0.35%	0.019%
284	13.805	13.775	13.843	VV	56779	696282	9.95%	0.535%
285	13.853	13.843	13.862	VV	419	3838	0.05%	0.003%
286	13.870	13.862	13.884	VV	453	3794	0.05%	0.003%
287	13.889	13.884	13.914	VV	265	3359	0.05%	0.003%
288	13.922	13.914	13.933	VV	281	2195	0.03%	0.002%
289	13.942	13.933	13.949	VV	308	2293	0.03%	0.002%
290	13.963	13.949	13.972	VV	418	3470	0.05%	0.003%
291	13.977	13.972	13.996	VV	344	2992	0.04%	0.002%
292	14.005	13.996	14.021	VV	376	2888	0.04%	0.002%
293	14.043	14.021	14.068	VV	464	7552	0.11%	0.006%
294	14.074	14.068	14.085	VV	238	1365	0.02%	0.001%
295	14.095	14.085	14.101	VV	230	1583	0.02%	0.001%
296	14.106	14.101	14.113	VV	215	1294	0.02%	0.001%
297	14.120	14.113	14.140	VV	305	3538	0.05%	0.003%
298	14.189	14.140	14.212	VV	1000	19658	0.28%	0.015%
299	14.215	14.212	14.219	VV	247	1026	0.01%	0.001%

300	14.240	14.219	14.264	VV	1099	16662	0.24%	0.013%
301	14.278	14.264	14.297	VV	710	10280		
302	14.302	14.297	14.317	VV	393	3854		
303	14.326	14.317	14.345	VV	362	3384		
304	14.364	14.345	14.386	PV	603	7618		
305	14.398	14.386	14.420	VV	381	5399		
306	14.444	14.420	14.448	VV	358	4953	0.07%	0.004%
307	14.452	14.448	14.460	VV	386	1980	0.03%	0.002%
308	14.467	14.460	14.476	VV	387	2999	0.04%	0.002%
309	14.483	14.476	14.487	VV	423	2487	0.04%	0.002%
310	14.491	14.487	14.499	VV	447	2153	0.03%	0.002%
311	14.501	14.499	14.510	VV	488	2035	0.03%	0.002%
312	14.533	14.510	14.548	VV	868	11496	0.16%	0.009%
313	14.559	14.548	14.565	VV	420	2977	0.04%	0.002%
314	14.573	14.565	14.603	VV	482	7655	0.11%	0.006%
315	14.610	14.603	14.625	VV	466	4398	0.06%	0.003%
316	14.628	14.625	14.655	VV	357	4132	0.06%	0.003%
317	14.675	14.655	14.681	VV	413	4281	0.06%	0.003%
318	14.687	14.681	14.700	VV	386	3389	0.05%	0.003%
319	14.720	14.700	14.733	VV	380	5596	0.08%	0.004%
320	14.741	14.733	14.775	VV	499	7368	0.11%	0.006%
321	14.793	14.775	14.803	VV	167	1754	0.03%	0.001%
322	14.848	14.803	14.867	VV	470711	6325782	90.38%	4.863%
323	14.894	14.867	14.984	VV	568207	6998853	100.00%	5.380%
324	14.994	14.984	15.040	VV	460	8073	0.12%	0.006%
325	15.077	15.051	15.109	VV	393	10483	0.15%	0.008%
326	15.110	15.109	15.135	VV	411	4185	0.06%	0.003%
327	15.141	15.135	15.155	VV	236	2008	0.03%	0.002%
328	15.197	15.155	15.201	VV	282	4683	0.07%	0.004%
329	15.212	15.201	15.228	VV	388	3171	0.05%	0.002%
330	15.241	15.228	15.249	VV	203	1881	0.03%	0.001%
331	15.278	15.249	15.309	VV	9303	136131	1.95%	0.105%
332	15.325	15.309	15.360	VV	949	17112	0.24%	0.013%
333	15.375	15.360	15.384	VV	331	3549	0.05%	0.003%
334	15.389	15.384	15.399	VV	517	3729	0.05%	0.003%
335	15.441	15.399	15.470	VV	1967	39675	0.57%	0.031%
336	15.477	15.470	15.525	VV	479	9823	0.14%	0.008%
337	15.544	15.525	15.563	VV	395	5933	0.08%	0.005%
338	15.569	15.563	15.580	VV	269	1909	0.03%	0.001%
339	15.592	15.580	15.619	VV	295	4633	0.07%	0.004%
340	15.641	15.619	15.648	VV	334	4298	0.06%	0.003%
341	15.658	15.648	15.667	VV	457	4380	0.06%	0.003%
342	15.671	15.667	15.677	VV	496	2297	0.03%	0.002%
343	15.682	15.677	15.700	VV	471	4799	0.07%	0.004%
344	15.705	15.700	15.710	VV	317	1713	0.02%	0.001%
345	15.713	15.710	15.720	VV	385	1784	0.03%	0.001%
346	15.745	15.720	15.772	VV	706	15085	0.22%	0.012%
347	15.796	15.772	15.820	VV	791	15842	0.23%	0.012%
348	15.834	15.820	15.867	VV	431	9023	0.13%	0.007%
349	15.885	15.867	15.895	VV	567	7303	0.10%	0.006%
350	15.924	15.895	15.960	VV	51941	663421	9.48%	0.510%
351	15.985	15.960	16.038	VV	625	14154	0.20%	0.011%

Instrument :

FID_D

ClientSampleId :

BACK-1-FLOOR-CENTER-MIDDLE-CMSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025

Supervised By :mohammad ahmed 08/26/2025

					rteres		ententampfield : BACK-1-FLOOR-CEN	
352	16.072	16.038	16.087	PV	569	9015	0.13%	0.007%
353	16.092	16.087	16.097	VV	335	1567	0.00%	0.000%
354	16.127	16.097	16.147	VV	717	14223	0.00%	0.000%
355	16.154	16.147	16.167	VV	399	2833	0.00%	0.000%
356	16.187	16.167	16.195	VV	386	4788	0.00%	0.000%
357	16.203	16.195	16.211	VV	356	2372	0.00%	0.000%
358	16.222	16.211	16.227	VV	296	2162	0.03%	0.002%
359	16.240	16.234	16.265	VV	291	3611	0.05%	0.003%
360	16.292	16.265	16.321	VV	2053	30835	0.44%	0.024%
361	16.327	16.321	16.336	VV	288	1818	0.03%	0.001%
362	16.401	16.336	16.416	VV	411608	6053831	86.50%	4.654%
363	16.437	16.416	16.465	VV	497644	5967482	85.26%	4.588%
364	16.487	16.465	16.508	VV	1127	18358	0.26%	0.014%
365	16.512	16.508	16.516	VV	496	2093	0.03%	0.002%
366	16.535	16.516	16.565	VV	1161	19539	0.28%	0.015%
367	16.569	16.565	16.575	VV	405	1412	0.02%	0.001%
368	16.583	16.575	16.595	VV	463	3067	0.04%	0.002%
369	16.601	16.595	16.618	VV	462	3261	0.05%	0.003%
370	16.641	16.618	16.663	VV	2594	31485	0.45%	0.024%
371	16.672	16.663	16.681	VV	365	3008	0.04%	0.002%
372	16.691	16.681	16.695	VV	389	2751	0.04%	0.002%
373	16.714	16.695	16.732	VV	519	8501	0.12%	0.007%
374	16.781	16.732	16.812	VV	442072	5867988	83.84%	4.511%
375	16.816	16.812	16.822	VV	652	3522	0.05%	0.003%
376	16.870	16.822	16.900	VV	51344	681734	9.74%	0.524%
377	16.921	16.900	16.972	VV	2813	56054	0.80%	0.043%
378	16.974	16.972	17.004	VV	516	7821	0.11%	0.006%
379	17.009	17.004	17.020	VV	530	3724	0.05%	0.003%
380	17.038	17.020	17.052	VV	323	4473	0.06%	0.003%
381	17.069	17.052	17.082	VV	539	4344	0.06%	0.003%
382	17.100	17.082	17.108	PV	221	1613	0.02%	0.001%
383	17.124	17.108	17.144	VV	457	3863	0.06%	0.003%
384	17.158	17.144	17.170	VV	315	2756	0.04%	0.002%
385	17.177	17.170	17.186	VV	215	1397	0.02%	0.001%
386	17.227	17.186	17.259	VV	2034	36763	0.53%	0.028%
387	17.266	17.259	17.285	VV	386	4469	0.06%	0.003%
388	17.320	17.285	17.346	VV	2541	40666	0.58%	0.031%
389	17.355	17.346	17.373	VV	432	3562	0.05%	0.003%
390	17.414	17.373	17.449	VV	539	15281	0.22%	0.012%
391	17.456	17.449	17.476	VV	491	3901	0.06%	0.003%
392	17.495	17.476	17.505	PV	201	1787	0.03%	0.001%
393	17.527	17.505	17.532	VV	405	3545	0.05%	0.003%
394	17.550	17.532	17.567	VV	388	6123	0.09%	0.005%
395	17.618	17.567	17.628	VV	558	11487	0.16%	0.009%
396	17.649	17.628	17.660	VV	711	9933	0.14%	0.008%
397	17.674	17.660	17.702	VV	869	12534	0.18%	0.010%
398	17.756	17.702	17.788	VV	47057	655112	9.36%	0.504%
399	17.794	17.788	17.810	VV	692	8222	0.12%	0.006%
400	17.843	17.810	17.877	VV	1447	32761	0.47%	0.025%
401	17.887	17.877	17.897	VV	416	3940	0.06%	0.003%
402	17.924	17.897	17.942	VV	806	14016	0.20%	0.011%
403	17.978	17.953	17.987	PV	698	8389	0.12%	0.006%
404	18.003	17.987	18.014	VV	772	8762	0.13%	0.007%

					rters		
405	18.019	18.014	18.057	VV	472	7698	
406	18.148	18.057	18.162	PV	411302	6236878	89
407	18.187	18.162	18.244	VV	433736	5675778	83
408	18.266	18.244	18.327	VV	1392	34591	0
409	18.405	18.327	18.434	VV	377691	5493769	78
410	18.439	18.434	18.454	VV	422	3033	0

Instrument :
FID_D
ClientSampleId :
BACK-1-FLOOR-CENTER-MIDDLE-CMSD
0.11% 0.006%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 08/25/2025
Supervised By :mohammad ahmed 08/26/2025

Sum of corrected areas: 130081114

Aromatic EPH 081125.M Mon Aug 25 03:56:47 2025

Manual Integration Report

Sequence:

FC080125AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2740-01MS	FC069568.D	n-Dotriacontane (C32)	yogesh	8/4/2025 7:40:14 AM	mohammad	8/5/2025 1:59:30	Peak Integrated by Software
Q2740-01MS	FC069568.D	n-Hexatriacontane (C36)	yogesh	8/4/2025 7:40:14 AM	mohammad	8/5/2025 1:59:30	Peak Integrated by Software
Q2740-01MS	FC069568.D	n-Octatriacontane (C38)	yogesh	8/4/2025 7:40:14 AM	mohammad	8/5/2025 1:59:30	Peak Integrated by Software
Q2740-01MS	FC069568.D	n-Tetracontane (C40)	yogesh	8/4/2025 7:40:14 AM	mohammad	8/5/2025 1:59:30	Peak Integrated by Software
Q2740-01MSD	FC069569.D	n-Dotriacontane (C32)	yogesh	8/4/2025 7:40:12 AM	mohammad	8/5/2025 1:59:30	Peak Integrated by Software
Q2740-01MSD	FC069569.D	n-Hexatriacontane (C36)	yogesh	8/4/2025 7:40:12 AM	mohammad	8/5/2025 1:59:30	Peak Integrated by Software
Q2740-01MSD	FC069569.D	n-Octatriacontane (C38)	yogesh	8/4/2025 7:40:12 AM	mohammad	8/5/2025 1:59:30	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FC082225AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC069707.D	n-Tetracontane (C40)	yogesh	8/25/2025 7:40:55 AM	mohammad	8/26/2025 1:27:02	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FD081125AR

Instrument

FID_d

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

FD082225AR

Instrument

FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169364BS	FD049646.D	Bnezo[k]fluoranthene (C30.14)	yogesh	8/25/2025 11:09:31 AM	mohammad	8/26/2025 1:26:52	Peak Integrated by Software
PB169364BSD	FD049647.D	Bnezo[k]fluoranthene (C30.14)	yogesh	8/25/2025 11:09:32 AM	mohammad	8/26/2025 1:26:52	Peak Integrated by Software
Q2892-05MS	FD049660.D	Bnezo[k]fluoranthene (C30.14)	yogesh	8/25/2025 11:09:34 AM	mohammad	8/26/2025 1:26:52	Peak Integrated by Software
Q2892-05MSD	FD049661.D	Bnezo[k]fluoranthene (C30.14)	yogesh	8/25/2025 11:09:35 AM	mohammad	8/26/2025 1:26:52	Peak Integrated by Software

Manual Integration Report

Sequence:

FE080125AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2741-01	FE055114.D	ortho-Terphenyl (SURR)	yogesh	8/4/2025 7:39:52 AM	mohammad	8/5/2025 1:59:38	Peak Integrated by Software
Q2741-02	FE055115.D	ortho-Terphenyl (SURR)	yogesh	8/4/2025 7:39:54 AM	mohammad	8/5/2025 1:59:38	Peak Integrated by Software
Q2734-01	FE055116.D	ortho-Terphenyl (SURR)	yogesh	8/4/2025 7:39:55 AM	mohammad	8/5/2025 1:59:38	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE055118.D	n-Tetracontane (C40)	yogesh	8/4/2025 7:39:57 AM	mohammad	8/5/2025 1:59:38	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FE082525AL

Instrument

FID_e

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC080125AL

Review By	yogesh	Review On	8/1/2025 10:37:24 AM
Supervise By	mohammad	Supervise On	8/5/2025 1:59:30 AM
SubDirectory	FC080125AL	HP Acquire Method	HP Processing Method FC080125AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069556.D	01 Aug 2025 09:39	YP/AJ	Ok
2	I.BLK	FC069557.D	01 Aug 2025 10:20	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC069558.D	01 Aug 2025 11:01	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC069559.D	01 Aug 2025 11:43	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC069560.D	01 Aug 2025 12:24	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC069561.D	01 Aug 2025 13:06	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC069562.D	01 Aug 2025 13:47	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC069563.D	01 Aug 2025 14:28	YP/AJ	Ok
9	I.BLK	FC069564.D	01 Aug 2025 15:10	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069565.D	01 Aug 2025 15:52	YP/AJ	Ok
11	Q2740-01	FC069566.D	01 Aug 2025 16:37	YP/AJ	Dilution
12	Q2740-01D	FC069567.D	01 Aug 2025 17:19	YP/AJ	Ok
13	Q2740-01MS	FC069568.D	01 Aug 2025 18:02	YP/AJ	Ok,M
14	Q2740-01MSD	FC069569.D	01 Aug 2025 18:44	YP/AJ	Ok,M
15	I.BLK	FC069570.D	01 Aug 2025 19:26	YP/AJ	Ok
16	20 PPM ALIPHATIC HC STD	FC069571.D	01 Aug 2025 20:09	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC082225AL

Review By	yogesh	Review On	8/22/2025 4:37:47 PM
Supervise By	mohammad	Supervise On	8/26/2025 1:27:02 AM
SubDirectory	FC082225AL	HP Acquire Method	HP Processing Method FC080125AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069705.D	22 Aug 2025 11:54	YP/AJ	Ok
2	I.BLK	FC069706.D	22 Aug 2025 12:35	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069707.D	22 Aug 2025 13:18	YP/AJ	Ok,M
4	PB169364BS	FC069708.D	22 Aug 2025 15:26	YP/AJ	Ok
5	PB169364BSD	FC069709.D	22 Aug 2025 16:31	YP/AJ	Ok
6	PB169364BL	FC069710.D	22 Aug 2025 17:14	YP/AJ	Ok
7	Q2892-05	FC069711.D	22 Aug 2025 17:58	YP/AJ	Ok
8	Q2892-05D	FC069712.D	22 Aug 2025 18:43	YP/AJ	Ok
9	Q2892-05MS	FC069713.D	22 Aug 2025 19:28	YP/AJ	Ok
10	Q2892-05MSD	FC069714.D	22 Aug 2025 20:12	YP/AJ	Ok
11	I.BLK	FC069715.D	22 Aug 2025 21:41	YP/AJ	Ok
12	20 PPM ALIPHATIC HC STD	FC069716.D	22 Aug 2025 22:26	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD081125AR

Review By	yogesh	Review On	8/11/2025 12:27:21 PM
Supervise By	mohammad	Supervise On	8/13/2025 1:17:39 AM
SubDirectory	FD081125AR	HP Acquire Method	HP Processing Method FD081125AR
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	FD049603.D	11 Aug 2025 08:46	YP/AJ	Ok
2	I.BLK	FD049604.D	11 Aug 2025 09:29	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049605.D	11 Aug 2025 10:39	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD049606.D	11 Aug 2025 11:22	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049607.D	11 Aug 2025 12:06	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049608.D	11 Aug 2025 12:51	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049609.D	11 Aug 2025 13:35	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049610.D	11 Aug 2025 14:20	YP/AJ	Ok
9	I.BLK	FD049611.D	11 Aug 2025 15:05	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049612.D	11 Aug 2025 15:52	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD082225AR

Review By	yogesh	Review On	8/22/2025 3:39:04 PM
Supervise By	mohammad	Supervise On	8/26/2025 1:26:52 AM
SubDirectory	FD082225AR	HP Acquire Method	HP Processing Method FD081125AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24503 PP24501,PP24506		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049643.D	22 Aug 2025 11:54	YP/AJ	Ok
2	I.BLK	FD049644.D	22 Aug 2025 12:35	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049645.D	22 Aug 2025 13:18	YP/AJ	Ok
4	PB169364BS	FD049646.D	22 Aug 2025 15:26	YP/AJ	Ok,M
5	PB169364BSD	FD049647.D	22 Aug 2025 16:31	YP/AJ	Ok,M
6	PB169364BL	FD049648.D	22 Aug 2025 17:14	YP/AJ	Ok
7	Q2832-01	FD049649.D	22 Aug 2025 17:58	YP/AJ	Ok
8	Q2832-03	FD049650.D	22 Aug 2025 18:43	YP/AJ	Ok
9	Q2832-05	FD049651.D	22 Aug 2025 19:28	YP/AJ	Ok
10	Q2832-07	FD049652.D	22 Aug 2025 20:12	YP/AJ	Ok
11	Q2832-09	FD049653.D	22 Aug 2025 20:56	YP/AJ	Ok
12	I.BLK	FD049654.D	22 Aug 2025 22:26	YP/AJ	Ok
13	20 PPM AROMATIC HC STD	FD049655.D	22 Aug 2025 23:13	YP/AJ	Ok
14	Q2892-01	FD049656.D	23 Aug 2025 00:47	YP/AJ	Ok
15	Q2892-03	FD049657.D	23 Aug 2025 01:34	YP/AJ	Ok
16	Q2892-05	FD049658.D	23 Aug 2025 02:21	YP/AJ	Ok
17	Q2892-05D	FD049659.D	23 Aug 2025 03:08	YP/AJ	Ok
18	Q2892-05MS	FD049660.D	23 Aug 2025 03:54	YP/AJ	Ok,M
19	Q2892-05MSD	FD049661.D	23 Aug 2025 04:42	YP/AJ	Ok,M
20	Q2892-07	FD049662.D	23 Aug 2025 05:26	YP/AJ	Ok
21	Q2892-09	FD049663.D	23 Aug 2025 06:08	YP/AJ	Ok

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD082225AR

Review By	yogesh	Review On	8/22/2025 3:39:04 PM
Supervise By	mohammad	Supervise On	8/26/2025 1:26:52 AM
SubDirectory	FD082225AR	HP Acquire Method	HP Processing Method FD081125AR
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		

22	Q2892-11	FD049664.D	23 Aug 2025 06:50	YP/AJ	Ok
23	I.BLK	FD049665.D	23 Aug 2025 07:32	YP/AJ	Ok
24	20 PPM AROMATIC HC STD	FD049666.D	23 Aug 2025 08:55	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE080125AL

Review By	yogesh	Review On	8/1/2025 10:51:38 AM
Supervise By	mohammad	Supervise On	8/5/2025 1:59:38 AM
SubDirectory	FE080125AL	HP Acquire Method	HP Processing Method FE080125AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE055100.D	01 Aug 2025 10:24	YP\AJ	Ok
2	I.BLK	FE055101.D	01 Aug 2025 10:54	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE055102.D	01 Aug 2025 11:24	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE055103.D	01 Aug 2025 11:54	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE055104.D	01 Aug 2025 12:25	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE055105.D	01 Aug 2025 12:55	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE055106.D	01 Aug 2025 13:25	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE055107.D	01 Aug 2025 13:55	YP\AJ	Ok
9	I.BLK	FE055108.D	01 Aug 2025 14:25	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE055109.D	01 Aug 2025 14:55	YP\AJ	Ok
11	PB169089BL	FE055110.D	01 Aug 2025 16:36	YP\AJ	Ok
12	PB169089BS	FE055111.D	01 Aug 2025 17:07	YP\AJ	Ok
13	PB169089BSD	FE055112.D	01 Aug 2025 17:37	YP\AJ	Ok
14	Q2740-02	FE055113.D	01 Aug 2025 18:07	YP\AJ	Ok
15	Q2741-01	FE055114.D	01 Aug 2025 18:37	YP\AJ	Ok,M
16	Q2741-02	FE055115.D	01 Aug 2025 19:07	YP\AJ	Ok,M
17	Q2734-01	FE055116.D	01 Aug 2025 19:38	YP\AJ	Dilution
18	I.BLK	FE055117.D	01 Aug 2025 20:08	YP\AJ	Ok
19	20 PPM ALIPHATIC HC STD	FE055118.D	01 Aug 2025 20:38	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE082525AL

Review By	yogesh	Review On	8/25/2025 11:19:25 AM
Supervise By		Supervise On	
SubDirectory	FE082525AL	HP Acquire Method	HP Processing Method FE080125AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE055471.D	25 Aug 2025 08:22	YP\AJ	Ok
2	I.BLK	FE055472.D	25 Aug 2025 08:52	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE055473.D	25 Aug 2025 09:22	YP\AJ	Ok
4	Q2832-01	FE055474.D	25 Aug 2025 09:53	YP\AJ	Ok,NR
5	Q2832-03	FE055475.D	25 Aug 2025 10:23	YP\AJ	Ok
6	Q2832-05	FE055476.D	25 Aug 2025 10:53	YP\AJ	Ok
7	Q2832-07	FE055477.D	25 Aug 2025 11:24	YP\AJ	Ok
8	Q2832-09	FE055478.D	25 Aug 2025 11:54	YP\AJ	Ok
9	Q2926-01	FE055479.D	25 Aug 2025 13:16	YP\AJ	Dilution
10	Q2926-02	FE055480.D	25 Aug 2025 13:46	YP\AJ	Dilution
11	Q2932-01	FE055481.D	25 Aug 2025 14:17	YP\AJ	Dilution
12	Q2941-01	FE055482.D	25 Aug 2025 14:47	YP\AJ	Ok
13	Q2947-01	FE055483.D	25 Aug 2025 15:18	YP\AJ	Dilution
14	Q2947-02	FE055484.D	25 Aug 2025 15:48	YP\AJ	Ok
15	Q2947-03	FE055485.D	25 Aug 2025 16:19	YP\AJ	Dilution
16	Q2947-04	FE055486.D	25 Aug 2025 16:49	YP\AJ	Ok
17	Q2949-01	FE055487.D	25 Aug 2025 17:20	YP\AJ	Ok
18	Q2949-02	FE055488.D	25 Aug 2025 17:50	YP\AJ	Ok
19	I.BLK	FE055489.D	25 Aug 2025 18:51	YP\AJ	Ok
20	20 PPM ALIPHATIC HC STD	FE055490.D	25 Aug 2025 19:22	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC080125AL

Review By	yogesh	Review On	8/1/2025 10:37:24 AM
Supervise By	mohammad	Supervise On	8/5/2025 1:59:30 AM
SubDirectory	FC080125AL	HP Acquire Method	HP Processing Method FC080125AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069556.D	01 Aug 2025 09:39		YP/AJ	Ok
2	I.BLK	I.BLK	FC069557.D	01 Aug 2025 10:20		YP/AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FC069558.D	01 Aug 2025 11:01		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC069559.D	01 Aug 2025 11:43		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069560.D	01 Aug 2025 12:24		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC069561.D	01 Aug 2025 13:06		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC069562.D	01 Aug 2025 13:47		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069563.D	01 Aug 2025 14:28		YP/AJ	Ok
9	I.BLK	I.BLK	FC069564.D	01 Aug 2025 15:10		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069565.D	01 Aug 2025 15:52		YP/AJ	Ok
11	Q2740-01	OR-02-07312025	FC069566.D	01 Aug 2025 16:37	Need 2X	YP/AJ	Dilution
12	Q2740-01D	Q2740-01D	FC069567.D	01 Aug 2025 17:19		YP/AJ	Ok
13	Q2740-01MS	OR-02-07312025MS	FC069568.D	01 Aug 2025 18:02	FC069566.D	YP/AJ	Ok,M
14	Q2740-01MSD	OR-02-07312025MSD	FC069569.D	01 Aug 2025 18:44	FC069566.D!FC069568.D	YP/AJ	Ok,M
15	I.BLK	I.BLK	FC069570.D	01 Aug 2025 19:26		YP/AJ	Ok
16	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069571.D	01 Aug 2025 20:09		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC082225AL

Review By	yogesh	Review On	8/22/2025 4:37:47 PM
Supervise By	mohammad	Supervise On	8/26/2025 1:27:02 AM
SubDirectory	FC082225AL	HP Acquire Method	HP Processing Method FC080125AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069705.D	22 Aug 2025 11:54		YP/AJ	Ok
2	I.BLK	I.BLK	FC069706.D	22 Aug 2025 12:35		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069707.D	22 Aug 2025 13:18		YP/AJ	Ok,M
4	PB169364BS	PB169364BS	FC069708.D	22 Aug 2025 15:26	naphthalene break down - 0.340, 2-methylnepthalene break down - 0.151	YP/AJ	Ok
5	PB169364BSD	PB169364BSD	FC069709.D	22 Aug 2025 16:31	naphthalene break down - 0.384, 2-methylnepthalene break down - 0.324	YP/AJ	Ok
6	PB169364BL	PB169364BL	FC069710.D	22 Aug 2025 17:14		YP/AJ	Ok
7	Q2892-05	BACK-1-FLOOR-CENT	FC069711.D	22 Aug 2025 17:58		YP/AJ	Ok
8	Q2892-05D	Q2892-05D	FC069712.D	22 Aug 2025 18:43		YP/AJ	Ok
9	Q2892-05MS	BACK-1-FLOOR-CENT	FC069713.D	22 Aug 2025 19:28	FC069711.D	YP/AJ	Ok
10	Q2892-05MSD	BACK-1-FLOOR-CENT	FC069714.D	22 Aug 2025 20:12	FC069711.D!FC069713.D	YP/AJ	Ok
11	I.BLK	I.BLK	FC069715.D	22 Aug 2025 21:41		YP/AJ	Ok
12	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069716.D	22 Aug 2025 22:26		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD081125AR

Review By	yogesh	Review On	8/11/2025 12:27:21 PM
Supervise By	mohammad	Supervise On	8/13/2025 1:17:39 AM
SubDirectory	FD081125AR	HP Acquire Method	HP Processing Method
			FD081125AR
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	FD049603.D	11 Aug 2025 08:46		YP/AJ	Ok
2	I.BLK	I.BLK	FD049604.D	11 Aug 2025 09:29		YP/AJ	Ok
3	100 PPM AROMATIC HC	100 PPM AROMATIC HC	FD049605.D	11 Aug 2025 10:39		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049606.D	11 Aug 2025 11:22		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049607.D	11 Aug 2025 12:06		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049608.D	11 Aug 2025 12:51		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049609.D	11 Aug 2025 13:35		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049610.D	11 Aug 2025 14:20		YP/AJ	Ok
9	I.BLK	I.BLK	FD049611.D	11 Aug 2025 15:05		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049612.D	11 Aug 2025 15:52		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD082225AR

Review By	yogesh	Review On	8/22/2025 3:39:04 PM
Supervise By	mohammad	Supervise On	8/26/2025 1:26:52 AM
SubDirectory	FD082225AR	HP Acquire Method	HP Processing Method FD081125AR

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049643.D	22 Aug 2025 11:54		YP/AJ	Ok
2	I.BLK	I.BLK	FD049644.D	22 Aug 2025 12:35		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049645.D	22 Aug 2025 13:18		YP/AJ	Ok
4	PB169364BS	PB169364BS	FD049646.D	22 Aug 2025 15:26	naphthalene break down - 0.340, 2-methylnepthalene break down - 0.151	YP/AJ	Ok,M
5	PB169364BSD	PB169364BSD	FD049647.D	22 Aug 2025 16:31	naphthalene break down - 0.384, 2-methylnepthalene break down - 0.324	YP/AJ	Ok,M
6	PB169364BL	PB169364BL	FD049648.D	22 Aug 2025 17:14		YP/AJ	Ok
7	Q2832-01	TG-S01	FD049649.D	22 Aug 2025 17:58		YP/AJ	Ok
8	Q2832-03	TG-S02	FD049650.D	22 Aug 2025 18:43		YP/AJ	Ok
9	Q2832-05	TG-S03	FD049651.D	22 Aug 2025 19:28		YP/AJ	Ok
10	Q2832-07	TG-S04	FD049652.D	22 Aug 2025 20:12		YP/AJ	Ok
11	Q2832-09	TG-S05	FD049653.D	22 Aug 2025 20:56		YP/AJ	Ok
12	I.BLK	I.BLK	FD049654.D	22 Aug 2025 22:26		YP/AJ	Ok
13	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049655.D	22 Aug 2025 23:13		YP/AJ	Ok
14	Q2892-01	1-FLOOR-NORTH-EAS	FD049656.D	23 Aug 2025 00:47		YP/AJ	Ok
15	Q2892-03	1-FLOOR-DRILL-B-BA	FD049657.D	23 Aug 2025 01:34		YP/AJ	Ok
16	Q2892-05	BACK-1-FLOOR-CENT	FD049658.D	23 Aug 2025 02:21		YP/AJ	Ok

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QC Batch ID # FD082225AR

Review By	yogesh	Review On	8/22/2025 3:39:04 PM
Supervise By	mohammad	Supervise On	8/26/2025 1:26:52 AM
SubDirectory	FD082225AR	HP Acquire Method	HP Processing Method FD081125AR
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505		
CCC	PP24503		
Internal Standard/PEM	PP24501,PP24506		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

17	Q2892-05D	Q2892-05D	FD049659.D	23 Aug 2025 03:08		YP/AJ	Ok
18	Q2892-05MS	BACK-1-FLOOR-CENT	FD049660.D	23 Aug 2025 03:54	FD049658.D	YP/AJ	Ok,M
19	Q2892-05MSD	BACK-1-FLOOR-CENT	FD049661.D	23 Aug 2025 04:42	FD049658.D!FD049660.D	YP/AJ	Ok,M
20	Q2892-07	3-FLOOR-NORTH-D	FD049662.D	23 Aug 2025 05:26		YP/AJ	Ok
21	Q2892-09	3-FLOOR-SOUTH-E	FD049663.D	23 Aug 2025 06:08		YP/AJ	Ok
22	Q2892-11	FRONT-1-FLOOR-F	FD049664.D	23 Aug 2025 06:50		YP/AJ	Ok
23	I.BLK	I.BLK	FD049665.D	23 Aug 2025 07:32		YP/AJ	Ok
24	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049666.D	23 Aug 2025 08:55		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE080125AL

Review By	yogesh	Review On	8/1/2025 10:51:38 AM
Supervise By	mohammad	Supervise On	8/5/2025 1:59:38 AM
SubDirectory	FE080125AL	HP Acquire Method	HP Processing Method
			FE080125AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE055100.D	01 Aug 2025 10:24		YP\AJ	Ok
2	I.BLK	I.BLK	FE055101.D	01 Aug 2025 10:54		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FE055102.D	01 Aug 2025 11:24		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE055103.D	01 Aug 2025 11:54		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055104.D	01 Aug 2025 12:25		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE055105.D	01 Aug 2025 12:55		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE055106.D	01 Aug 2025 13:25		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055107.D	01 Aug 2025 13:55		YP\AJ	Ok
9	I.BLK	I.BLK	FE055108.D	01 Aug 2025 14:25		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055109.D	01 Aug 2025 14:55		YP\AJ	Ok
11	PB169089BL	PB169089BL	FE055110.D	01 Aug 2025 16:36		YP\AJ	Ok
12	PB169089BS	PB169089BS	FE055111.D	01 Aug 2025 17:07		YP\AJ	Ok
13	PB169089BSD	PB169089BSD	FE055112.D	01 Aug 2025 17:37		YP\AJ	Ok
14	Q2740-02	OR-02-07312025-E2	FE055113.D	01 Aug 2025 18:07		YP\AJ	Ok
15	Q2741-01	TR-05-07312025	FE055114.D	01 Aug 2025 18:37		YP\AJ	Ok,M
16	Q2741-02	TR-05-07312025-E2	FE055115.D	01 Aug 2025 19:07		YP\AJ	Ok,M
17	Q2734-01	VNJ-253	FE055116.D	01 Aug 2025 19:38	Need 2X	YP\AJ	Dilution
18	I.BLK	I.BLK	FE055117.D	01 Aug 2025 20:08		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE080125AL

Review By	yogesh	Review On	8/1/2025 10:51:38 AM
Supervise By	mohammad	Supervise On	8/5/2025 1:59:38 AM
SubDirectory	FE080125AL	HP Acquire Method	HP Processing Method FE080125AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

19	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055118.D	01 Aug 2025 20:38		YP\AJ	Ok,M
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M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE082525AL

Review By	yogesh	Review On	8/25/2025 11:19:25 AM
Supervise By		Supervise On	
SubDirectory	FE082525AL	HP Acquire Method	HP Processing Method FE080125AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE055471.D	25 Aug 2025 08:22		YP\AJ	Ok
2	I.BLK	I.BLK	FE055472.D	25 Aug 2025 08:52		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055473.D	25 Aug 2025 09:22		YP\AJ	Ok
4	Q2832-01	TG-S01	FE055474.D	25 Aug 2025 09:53		YP\AJ	Ok,NR
5	Q2832-03	TG-S02	FE055475.D	25 Aug 2025 10:23		YP\AJ	Ok
6	Q2832-05	TG-S03	FE055476.D	25 Aug 2025 10:53		YP\AJ	Ok
7	Q2832-07	TG-S04	FE055477.D	25 Aug 2025 11:24		YP\AJ	Ok
8	Q2832-09	TG-S05	FE055478.D	25 Aug 2025 11:54		YP\AJ	Ok
9	Q2926-01	TR-04-08212025	FE055479.D	25 Aug 2025 13:16	Need 5X,Surrogate high	YP\AJ	Dilution
10	Q2926-02	TR-04-08212025	FE055480.D	25 Aug 2025 13:46	Need 5X,Surrogate high	YP\AJ	Dilution
11	Q2932-01	ARS20-0009	FE055481.D	25 Aug 2025 14:17	Need 2X	YP\AJ	Dilution
12	Q2941-01	SOIL-COMP(1-2)	FE055482.D	25 Aug 2025 14:47		YP\AJ	Ok
13	Q2947-01	291	FE055483.D	25 Aug 2025 15:18	Need 5X,100X	YP\AJ	Dilution
14	Q2947-02	291-E2	FE055484.D	25 Aug 2025 15:48	Need 2X,100X	YP\AJ	Ok
15	Q2947-03	235	FE055485.D	25 Aug 2025 16:19	Need 5X	YP\AJ	Dilution
16	Q2947-04	235-E2	FE055486.D	25 Aug 2025 16:49	Need 10X,100X	YP\AJ	Ok
17	Q2949-01	367	FE055487.D	25 Aug 2025 17:20		YP\AJ	Ok
18	Q2949-02	367-E2	FE055488.D	25 Aug 2025 17:50		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE082525AL

Review By	yogesh	Review On	8/25/2025 11:19:25 AM
Supervise By		Supervise On	
SubDirectory	FE082525AL	HP Acquire Method	HP Processing Method FE080125AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	I.BLK	I.BLK	FE055489.D	25 Aug 2025 18:51		YP\AJ	Ok
20	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055490.D	25 Aug 2025 19:22		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC:LB136783

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
Q2732-02	WC-A7-01-C	74	1.15	10.37	11.52	11.18	96.7	
Q2819-01	22BP-N	1	1.15	10.16	11.31	9.57	82.9	
Q2819-02	22BP-E	2	1.16	10.67	11.83	10.3	85.7	
Q2819-03	22BP-W	3	1.16	10.83	11.99	10.45	85.8	
Q2819-04	22BP-S	4	1.15	9.96	11.11	9.92	88.1	
Q2819-05	11M-W	5	1.14	10.45	11.59	10.7	91.5	
Q2819-06	11M-S	6	1.16	10.83	11.99	10.96	90.5	
Q2819-07	11M-N	7	1.16	10.81	11.97	9.37	75.9	
Q2819-08	11M-E	8	1.17	10.27	11.44	8.54	71.8	
Q2819-09	84SB-E	9	1.13	10.62	11.75	5.12	37.6	
Q2819-10	84SB-S	10	1.18	10.11	11.29	10.51	92.3	
Q2819-11	84SB-W	11	1.14	10.14	11.28	9.94	86.8	
Q2819-12	17M-S	12	1.19	10.66	11.85	11.15	93.4	
Q2819-13	17M-E	13	1.17	10.38	11.55	9.86	83.7	
Q2819-14	17M-W	14	1.15	10.46	11.61	10.1	85.6	
Q2819-15	17M-N	15	1.15	10.57	11.72	9.96	83.3	
Q2819-16	38M-S	16	1.15	10.77	11.92	11.1	92.4	
Q2819-17	38M-N	17	1.16	10.41	11.57	10.27	87.5	
Q2819-18	38M-W	18	1.14	10.66	11.8	10.34	86.3	
Q2819-19	38M-E	19	1.13	10.13	11.26	10.02	87.8	
Q2819-20	82H-E	20	1.17	10.64	11.81	9.38	77.2	
Q2820-01	82H-S	21	1.16	10.76	11.92	10.04	82.5	
Q2820-02	82H-W	22	1.15	11.21	12.36	10.51	83.5	
Q2820-03	82H-N	23	1.16	11.14	12.3	10.9	87.4	
Q2820-04	SOIL-DUP-1	24	1.16	10.83	11.99	10.56	86.8	
Q2820-05	518R-E	25	1.16	10.40	11.56	6.23	48.8	
Q2820-06	518R-N	26	1.18	10.55	11.73	9.35	77.4	
Q2820-07	518R-S	27	1.17	10.52	11.69	9.44	78.6	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC:LB136783

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
Q2820-08	518R-W	28	1.13	10.80	11.93	10.74	89.0	
Q2820-09	705R-S	29	1.14	10.59	11.73	7.05	55.8	
Q2820-10	SOIL-DUP-2	30	1.15	10.87	12.02	6.41	48.4	
Q2820-11	10PC-W	31	1.11	10.25	11.36	10.58	92.4	
Q2820-12	10PC-S	32	1.19	10.52	11.71	10.88	92.1	
Q2820-13	10P-W	33	1.14	10.09	11.23	10.34	91.2	
Q2820-14	10P-E	34	1.19	10.37	11.56	9.62	81.3	
Q2820-15	10P-S	35	1.18	10.21	11.39	10.22	88.5	
Q2820-16	10P-N	36	1.11	10.09	11.2	9.81	86.2	
Q2820-17	88H-E	37	1.16	10.42	11.58	9.77	82.6	
Q2820-18	88H-N	38	1.16	10.90	12.06	10.57	86.3	
Q2820-19	88H-W	39	1.18	10.66	11.84	10.62	88.6	
Q2820-20	88H-S	40	1.18	10.12	11.3	9.74	84.6	
Q2820-21	22M-N	41	1.14	11.06	12.2	11.34	92.2	
Q2820-22	22M-W	42	1.17	10.90	12.07	6.94	52.9	
Q2820-23	22M-E	43	1.17	10.27	11.44	4.66	34.0	
Q2820-24	22M-S	44	1.13	10.68	11.81	10.63	89.0	
Q2832-01	TG-S01	45	1.15	10.46	11.61	10.92	93.4	
Q2832-03	TG-S02	46	1.18	10.41	11.59	10.97	94.0	
Q2832-05	TG-S03	47	1.15	10.50	11.65	11.00	93.8	
Q2832-07	TG-S04	48	1.17	10.58	11.75	11.02	93.1	
Q2832-09	TG-S05	49	1.15	10.40	11.55	10.6	90.9	
Q2836-02	WC-A2-15-C	75	1.18	10.38	11.56	9.67	81.8	
Q2836-06	WC-A2-16-C	76	1.19	10.43	11.62	10.66	90.8	
Q2836-10	WC-A2-17-C	77	1.19	10.48	11.67	10.96	93.2	
Q2836-14	WC-A5-02-C	78	1.19	10.17	11.36	8.8	74.8	
Q2838-01	TP-11	50	1.14	10.60	11.74	10.44	87.7	
Q2838-02	TP-11-EPH	51	1.14	10.85	11.99	9.57	77.7	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/13/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC:LB136783

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
Q2838-03	TP-11-VOC	52	1.19	11.24	12.43	9.97	78.1	
Q2838-05	TP-10	53	1.14	11.08	12.22	10.75	86.7	
Q2838-06	TP-10-EPH	54	1.18	10.42	11.6	7.63	61.9	
Q2838-07	TP-10-VOC	55	1.18	10.50	11.68	8.68	71.4	
Q2839-01	BC274436-1-1	56	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-02	BC274436-1-2	57	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-03	BC151973-1-1	58	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-04	BC151973-1-2	59	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-05	BC271336-1-1	60	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-06	BC271336-1-2	61	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-07	BC271242-1-1	62	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-08	BC271242-1-2	63	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-09	BC271242-2-1	64	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-10	BC271242-2-2	65	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-11	BC226751-1-1	66	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-12	BC226751-1-2	67	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-13	BC226751-2-1	68	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-14	BC226751-2-2	69	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-15	JEC773V-1-1	70	1.00	1.00	2.00	2.00	100.0	PILC
Q2839-16	JEC773V-1-2	71	1.00	1.00	2.00	2.00	100.0	PILC
Q2840-01	0804-SOIL	72	1.12	11.32	12.44	10.42	82.2	
Q2840-02	0804-D	73	1.00	1.00	2.00	2.00	100.0	debris

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

WORKLIST(Hardcopy Internal Chain)

136783

WorkList Name : %1-081225

WorkList ID : 191210

Department : Wet-Chemistry

Date : 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2820-06	518R-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-07	518R-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-08	518R-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-09	705R-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-10	SOIL-DUP-2	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2819-19	38M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-20	82H-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-01	82H-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-02	82H-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-03	82H-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2820-04	SOIL-DUP-1	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-13	17M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-14	17M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-15	17M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-16	38M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-17	38M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-18	38M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/06/2025	Chemtech -SO
Q2819-07	11M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-08	11M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-09	84SB-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-10	84SB-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO

Date/Time 08/12/25 15:40
 Raw Sample Received by: SP WCL
 Raw Sample Relinquished by: SP WCL

Date/Time

08/12/25

Raw Sample Received by:

SP WCL

Raw Sample Relinquished by:

SP WCL

WORKLIST(Hardcopy Internal Chain)

136783

WorkList Name : %1-081225

WorkList ID : 191210

Department : Wet-Chemistry

Date : 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-01	22BP-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-02	22BP-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-03	22BP-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-04	22BP-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/04/2025	Chemtech -SO
Q2819-05	11M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-06	11M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2820-23	22M-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2820-24	22M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-17	88H-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-18	88H-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-19	88H-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-20	88H-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-21	22M-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-22	22M-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/08/2025	Chemtech -SO
Q2820-11	10PC-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-12	10PC-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-13	10P-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-14	10P-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-15	10P-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-16	10P-N	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO
Q2820-05	518R-E	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/07/2025	Chemtech -SO

Date/Time 08/12/25 15:00

Raw Sample Received by: 80 WSC

Raw Sample Relinquished by: [Signature]

Date/Time 08/12/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: 80 WSC

WORKLIST(Hardcopy Internal Chain)

136783

WorkList Name : %1-081225 WorkList ID : 191210 Department : Wet-Chemistry Date : 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2839-04	BC151973-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-05	BC271336-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-06	BC271336-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-07	BC271242-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-08	BC271242-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-09	BC271242-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-10	BC271242-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-11	BC226751-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-12	BC226751-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-13	BC226751-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-14	BC226751-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-15	JEC773V-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-16	JEC773V-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2840-01	0804-SOIL	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/12/2025	Chemtech -SO
Q2840-02	0804-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/12/2025	Chemtech -SO

Date/Time 08/12/25 15:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 08/12/25 17:35

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

W 131783

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-081225 WorkList ID : 191210 Department : Wet-Chemistry Date : 08-12-2025 07:56:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2819-11	84SB-W	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2819-12	17M-S	Solid	Percent Solids	Cool 4 deg C	FIRS02	D31	08/05/2025	Chemtech -SO
Q2832-01	TG-S01	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2732-02	WC-A7-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J21	08/12/2025	Chemtech -SO
Q2832-03	TG-S02	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-05	TG-S03	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-07	TG-S04	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/11/2025	Chemtech -SO
Q2832-09	TG-S05	Solid	Percent Solids	Cool 4 deg C	PORT06	J21	08/12/2025	Chemtech -SO
Q2836-02	WC-A2-15-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-06	WC-A2-16-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-10	WC-A2-17-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2836-14	WC-A5-02-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	J23	08/12/2025	Chemtech -SO
Q2838-01	TP-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-02	TP-11-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-03	TP-11-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-05	TP-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-06	TP-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2838-07	TP-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/12/2025	Chemtech -SO
Q2839-01	BC274436-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-02	BC274436-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO
Q2839-03	BC151973-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	08/12/2025	Chemtech -SO

Date/Time 08/12/25 15:00 Date/Time 08/12/25 17:35
 Raw Sample Received by: SP WCY Raw Sample Received by: CP SM
 Raw Sample Relinquished by: CP SM Raw Sample Relinquished by: SP WCY

SOP ID:	MNJDEP-EPH-8		
Clean Up SOP #:	N/A	Extraction Start Date :	08/21/2025
Matrix :	Solid	Extraction Start Time :	11:00
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Extraction End Date :	08/22/2025
Balance ID:	EX-SC-2	Filter By:	RJ
pH Strip Lot#:	N/A	Extraction End Time :	10:25
		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	PP24767
Surrogate	1.0ML	100 PPM	PP24652
Fractionation Surrogate	1.0ML	100 PPM	PP24801
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	EP2626
Baked Na2SO4	N/A	EP2632
Sand	N/A	E3951
Hexane	N/A	E3962
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
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

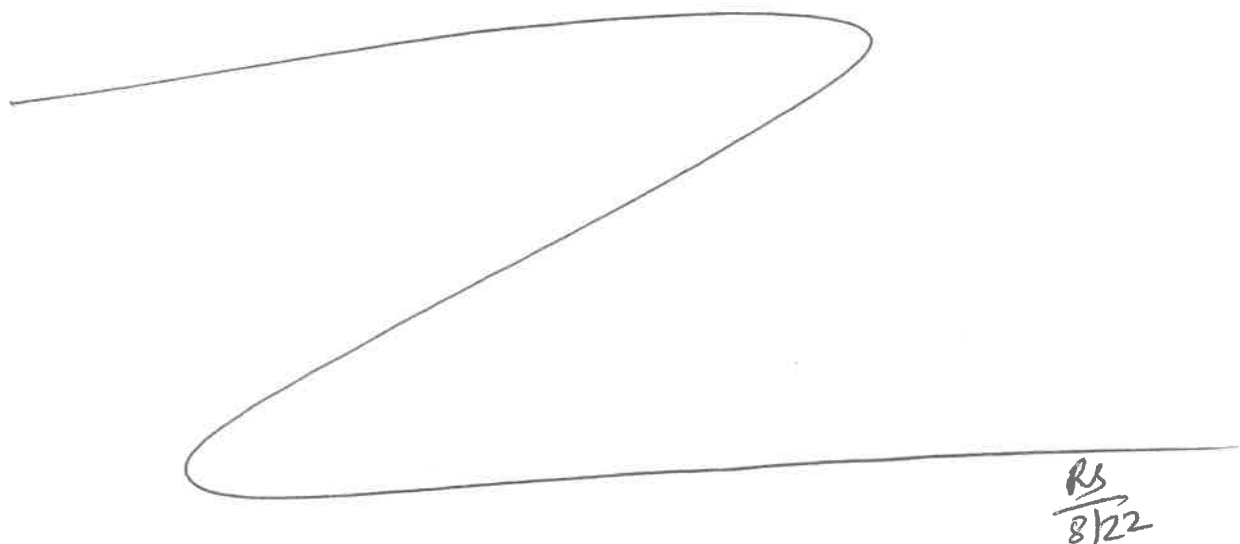
KD Bath ID:	N/A	Envap ID:	NE VAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
8/22/25	RS (Ext Lab)	Y.P. PERTHUB
10:30	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

Concentration Date: 08/22/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169364BL	PB169364BL	EPH	30.01	N/A	ritesh	Evelyn	2			U1-1
PB169364BS	PB169364BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB169364BSD	PB169364BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
Q2832-01	TG-S01	EPH	30.05	N/A	ritesh	Evelyn	2	F		4
Q2832-03	TG-S02	EPH	30.08	N/A	ritesh	Evelyn	2	F		5
Q2832-05	TG-S03	EPH	30.04	N/A	ritesh	Evelyn	2	F		6
Q2832-07	TG-S04	EPH	30.07	N/A	ritesh	Evelyn	2	F		U2-1
Q2832-09	TG-S05	EPH	30.10	N/A	ritesh	Evelyn	2	F		2
Q2892-01	1-FLOOR-NORTH-EAST-CORNER-BACK-A	EPH	30.03	N/A	ritesh	Evelyn	2	E		3
Q2892-03	1-FLOOR-DRILL-B-BACK	EPH	30.06	N/A	ritesh	Evelyn	2	E		4
Q2892-05	BACK-1-FLOOR-CENTER-MIDDLE-C	EPH	30.09	N/A	ritesh	Evelyn	2	E		5
Q2892-05DUP	BACK-1-FLOOR-CENTER-MIDDLE-CDUP	EPH	30.07	N/A	ritesh	Evelyn	2	E		6
Q2892-05MS	BACK-1-FLOOR-CENTER-MIDDLE-CMS	EPH	30.04	N/A	ritesh	Evelyn	2	E		U3-1
Q2892-05MSD	BACK-1-FLOOR-CENTER-MIDDLE-CMSD	EPH	30.06	N/A	ritesh	Evelyn	2	E		2
Q2892-07	3-FLOOR-NORTH-D	EPH	30.05	N/A	ritesh	Evelyn	2	E		3
Q2892-09	3-FLOOR-SOUTH-E	EPH	30.08	N/A	ritesh	Evelyn	2	E		4
Q2892-11	FRONT-1-FLOOR-F	EPH	30.10	N/A	ritesh	Evelyn	2	E		5



* Extracts relinquished on the same date as received.

169364
11:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2892E WorkList ID : 191438 Department : Extraction Date : 08-21-2025 10:16:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2832-01	TG-S01	Solid	EPH	Cool 4 deg C	PORT06	J21	08/11/2025	NJEPH
Q2832-03	TG-S02	Solid	EPH	Cool 4 deg C	PORT06	J21	08/11/2025	NJEPH
Q2832-05	TG-S03	Solid	EPH	Cool 4 deg C	PORT06	J21	08/11/2025	NJEPH
Q2832-07	TG-S04	Solid	EPH	Cool 4 deg C	PORT06	J21	08/11/2025	NJEPH
Q2832-09	TG-S05	Solid	EPH	Cool 4 deg C	PORT06	J21	08/12/2025	NJEPH
Q2892-01	1-FLOOR-NORTH-EAST-CORN	Solid	EPH	Cool 4 deg C	BAPS03	D31	08/15/2025	NJEPH
Q2892-03	1-FLOOR-DRILL-B-BACK	Solid	EPH	Cool 4 deg C	BAPS03	D31	08/15/2025	NJEPH
Q2892-05	BACK-1-FLOOR-CENTER-MID	Solid	EPH	Cool 4 deg C	BAPS03	D31	08/15/2025	NJEPH
Q2892-07	3-FLOOR-NORTH-D	Solid	EPH	Cool 4 deg C	BAPS03	D31	08/15/2025	NJEPH
Q2892-09	3-FLOOR-SOUTH-E	Solid	EPH	Cool 4 deg C	BAPS03	D31	08/15/2025	NJEPH
Q2892-11	FRONT-1-FLOOR-F	Solid	EPH	Cool 4 deg C	BAPS03	D31	08/15/2025	NJEPH

Date/Time 08/21/25 10:55
Raw Sample Received by: RJ Cxt-1001
Raw Sample Relinquished by: RJ Cxt-1001

Date/Time 08/21/25 11:25
Raw Sample Received by: RJ Cxt-1001
Raw Sample Relinquished by: RJ Cxt-1001

Prep Standard - Chemical Standard Summary

Order ID : Q2832

Test : EPH

Prepbatch ID : PB169364,

Sequence ID/Qc Batch ID: FC082225AL,FD082225AR,FE082525AL,

Standard ID :

EP2626,EP2632,PP24500,PP24501,PP24502,PP24503,PP24504,PP24505,PP24506,PP24652,PP24767,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24801,

Chemical ID :

E3875,E3926,E3940,E3949,E3951,E3954,E3956,E3962,P10758,P11140,P12364,P13280,P13281,P13609,P13610,P13611,P13612,P13620,P13673,P13674,P13682,P13683,P13684,P13686,P13690,P13954,P13955,P14005,P14006,P14007,P14009,P14010,P14011,P14012,P14013,P14015,P14016,P14027,P14054,P14055,P14056,P14057,P14084,P14085,P14086,P14087,P14088,P14089,P14090,P14091,P14092,W3234,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2626	07/15/2025	01/15/2026	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel
07/15/2025								

FROM 8000.00000ml of E3949 + 8000.00000ml of E3954 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2632	08/11/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel
(EX-SC-2)								

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
782	100 PPM Aromatic HC Working STD	PP24500	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.25000ml of P13673 + 0.62500ml of P13954 + 1.25000ml of P10758 + 22.87500ml of E3926 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2945	100 PPM Aromatic HC Working STD (Absolute)	PP24501	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.25000ml of P13674 + 0.62500ml of P13955 + 1.25000ml of P11140 + 22.87500ml of E3926 = Final Quantity: 25.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
787	50 PPM Aromatic HC STD	PP24502	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.50000ml of E3926 + 0.50000ml of PP24500 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
788	20 PPM Aromatic HC STD	PP24503	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.80000ml of E3926 + 0.20000ml of PP24500 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
789	10 PPM Aromatic HC STD	PP24504	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24500 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
790	5 PPM Aromatic HC STD	PP24505	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24502 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2946	20 PPM Aromatic HC STD ICV (Absolute)	PP24506	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza
								05/08/2025

FROM 0.80000ml of E3926 + 0.20000ml of PP24501 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1339	100 PPM NJEPH Surrogate Spike	PP24652	06/17/2025	12/11/2025	Abdul Mirza	None	None	Yogesh Patel
								07/24/2025

FROM 1.25000ml of P13609 + 1.25000ml of P13610 + 1.25000ml of P13611 + 1.25000ml of P13612 + 1.25000ml of P13682 + 1.25000ml of P13683 + 1.25000ml of P13684 + 1.25000ml of P13686 + 490.00000ml of E3940 = Final Quantity: 500.000 ml



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

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

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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2900	100 PPM Aliphatic HC STD (Absolute)	PP24769	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.22000ml of P13690 + 0.25000ml of P13620 + 1.25000ml of P13280 + 1.25000ml of P13281 + 22.00000ml of E3956 = Final Quantity: 25.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
783	50 PPM Aliphatic HC STD	PP24770	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.50000ml of W3234 + 0.50000ml of PP24768 = Final Quantity: 1.000 ml								

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
784	20 PPM Aliphatic HC STD	PP24771	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24768 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
785	10 PPM Aliphatic HC STD	PP24772	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24768 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
786	5 PPM Aliphatic HC STD	PP24773	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24770 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2901	20 PPM Aliphatic HC STD ICV (Absolute)	PP24774	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24769 = Final Quantity: 1.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1331	100 PPM NJEPH Fractionating Surrogate	PP24801	08/13/2025	02/13/2026	Abdul Mirza	None	None	Yogesh Patel 08/19/2025
<u>FROM</u> 1.25000ml of P14054 + 1.25000ml of P14055 + 1.25000ml of P14056 + 1.25000ml of P14057 + 195.00000ml of E3962 = Final Quantity: 200.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	04/18/2027	07/08/2025 / RITESHKUMAR	07/03/2025 / RUPESH	E3949

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25B1862001	03/19/2026	07/14/2025 / RUPESH	06/11/2025 / RUPESH	E3954

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/16/2025 / RUPESH	07/16/2025 / RUPESH	E3956

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	08/05/2025 / RUPESH	07/30/2025 / RUPESH	E3962

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30541 / Custom NJEPH Aromatics Calibration Standard	A0172403	11/01/2025	05/01/2025 / yogesh	06/17/2021 / dhaval	P10758

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95709 / NJ EPH Aromatic Hydrocarbons, 2000 PPM	060420	11/01/2025	05/01/2025 / yogesh	10/29/2021 / Abdul	P11140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	02/01/2026	08/01/2025 / yogesh	03/16/2023 / Yogesh	P12364

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13280

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13281

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	12/17/2025	06/17/2025 / Abdul	10/16/2024 / yogesh	P13609

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	12/17/2025	06/17/2025 / Abdul	10/16/2024 / yogesh	P13610

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	12/17/2025	06/17/2025 / Abdul	10/16/2024 / yogesh	P13611

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	12/17/2025	06/17/2025 / Abdul	10/16/2024 / yogesh	P13612

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13620

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	11/01/2025	05/01/2025 / yogesh	10/16/2024 / yogesh	P13673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	11/01/2025	05/01/2025 / yogesh	10/16/2024 / yogesh	P13674

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	12/17/2025	06/17/2025 / Abdul	10/16/2024 / yogesh	P13682

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	12/17/2025	06/17/2025 / Abdul	10/16/2024 / yogesh	P13683

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	12/17/2025	06/17/2025 / Abdul	10/16/2024 / yogesh	P13684

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	12/17/2025	06/17/2025 / Abdul	10/16/2024 / yogesh	P13686

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13690

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0219106	11/01/2025	05/01/2025 / yogesh	03/10/2025 / yogesh	P13954

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	11/01/2025	05/01/2025 / yogesh	03/10/2025 / yogesh	P13955

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14005

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14006

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14007

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14010

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14012

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14013

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14015

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14016

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	05/20/2025 / Rahul	P14027

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	02/13/2026	08/13/2025 / Abdul	06/09/2025 / anahy	P14054

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	02/13/2026	08/13/2025 / Abdul	06/09/2025 / anahy	P14055

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	02/13/2026	08/13/2025 / Abdul	06/09/2025 / anahy	P14056

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	02/13/2026	08/13/2025 / Abdul	06/09/2025 / anahy	P14057

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	07/16/2025 / anahy	P14084

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	07/16/2025 / anahy	P14085

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	07/16/2025 / anahy	P14086

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	07/16/2025 / anahy	P14087

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	07/16/2025 / anahy	P14088

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	07/16/2025 / anahy	P14089

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	07/16/2025 / anahy	P14090

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	07/16/2025 / anahy	P14091

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	01/29/2026	07/29/2025 / Abdul	07/16/2025 / anahy	P14092

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/28/2025 / jignesh	07/25/2025 / jignesh	W3234



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

DD
06/17/2021

Catalog No. : 30541 **Lot No.:** A0172403

Description : NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P10758
TO
P10762
- (S)

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene CAS # 526-73-8 (Lot 8776.10-36) Purity 98%	2,010.0 µg/mL	+/- 11.7957 µg/mL Gravimetric +/- 90.5449 µg/mL Unstressed +/- 100.4678 µg/mL Stressed
2	Naphthalene CAS # 91-20-3 (Lot MKBZ8680V) Purity 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL Gravimetric +/- 90.3656 µg/mL Unstressed +/- 100.2689 µg/mL Stressed
3	2-Methylnaphthalene CAS # 91-57-6 (Lot STBG8884) Purity 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL Gravimetric +/- 90.4557 µg/mL Unstressed +/- 100.3688 µg/mL Stressed
4	Acenaphthylene CAS # 208-96-8 (Lot N19U) Purity 95%	2,002.6 µg/mL	+/- 11.7524 µg/mL Gravimetric +/- 90.2125 µg/mL Unstressed +/- 100.0989 µg/mL Stressed
5	Acenaphthene CAS # 83-32-9 (Lot MKCN0610) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 90.0953 µg/mL Unstressed +/- 99.9689 µg/mL Stressed
6	Fluorene CAS # 86-73-7 (Lot 10217947) Purity 99%	2,016.0 µg/mL	+/- 11.8310 µg/mL Gravimetric +/- 90.8161 µg/mL Unstressed +/- 100.7687 µg/mL Stressed
7	Phenanthrene CAS # 85-01-8 (Lot MKCL7390) Purity 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL Gravimetric +/- 90.6359 µg/mL Unstressed +/- 100.5688 µg/mL Stressed

8	Anthracene			2,002.0	µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS #	120-12-7	(Lot MKCM0015)			+/-	90.1854	µg/mL	Unstressed
	Purity	99%				+/-	100.0689	µg/mL	Stressed
9	Fluoranthene			2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS #	206-44-0	(Lot MKCF7378)			+/-	90.2305	µg/mL	Unstressed
	Purity	99%				+/-	100.1189	µg/mL	Stressed
10	Pyrene			2,011.0	µg/mL	+/-	11.8017	µg/mL	Gravimetric
	CAS #	129-00-0	(Lot BCCB9880)			+/-	90.5909	µg/mL	Unstressed
	Purity	99%				+/-	100.5188	µg/mL	Stressed
11	Benz(a)anthracene			2,011.0	µg/mL	+/-	11.8014	µg/mL	Gravimetric
	CAS #	56-55-3	(Lot P0022018-0505)			+/-	90.5890	µg/mL	Unstressed
	Purity	98%				+/-	100.5168	µg/mL	Stressed
12	Chrysene			2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS #	218-01-9	(Lot STBJ8094)			+/-	90.0953	µg/mL	Unstressed
	Purity	99%				+/-	99.9689	µg/mL	Stressed
13	Benzo(b)fluoranthene			2,006.0	µg/mL	+/-	11.7721	µg/mL	Gravimetric
	CAS #	205-99-2	(Lot 012012B)			+/-	90.3638	µg/mL	Unstressed
	Purity	97%				+/-	100.2669	µg/mL	Stressed
14	Benzo(k)fluoranthene			2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS #	207-08-9	(Lot 012019K)			+/-	90.5458	µg/mL	Unstressed
	Purity	99%				+/-	100.4688	µg/mL	Stressed
15	Benzo(a)pyrene			2,004.0	µg/mL	+/-	11.7606	µg/mL	Gravimetric
	CAS #	50-32-8	(Lot RP210113)			+/-	90.2755	µg/mL	Unstressed
	Purity	99%				+/-	100.1689	µg/mL	Stressed
16	Indeno(1,2,3-cd)pyrene			2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS #	193-39-5	(Lot 1-RAK-33-4)			+/-	90.5458	µg/mL	Unstressed
	Purity	99%				+/-	100.4688	µg/mL	Stressed
17	Dibenz(a,h)anthracene			2,017.0	µg/mL	+/-	11.8369	µg/mL	Gravimetric
	CAS #	53-70-3	(Lot ER032211-01)			+/-	90.8611	µg/mL	Unstressed
	Purity	99%				+/-	100.8187	µg/mL	Stressed
18	Benzo(g,h,i)perylene			2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS #	191-24-2	(Lot 8GFYJ)			+/-	90.2305	µg/mL	Unstressed
	Purity	99%				+/-	100.1189	µg/mL	Stressed
Solvent:	Methylene chloride								
	CAS #	75-09-2							
	Purity	99%							

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

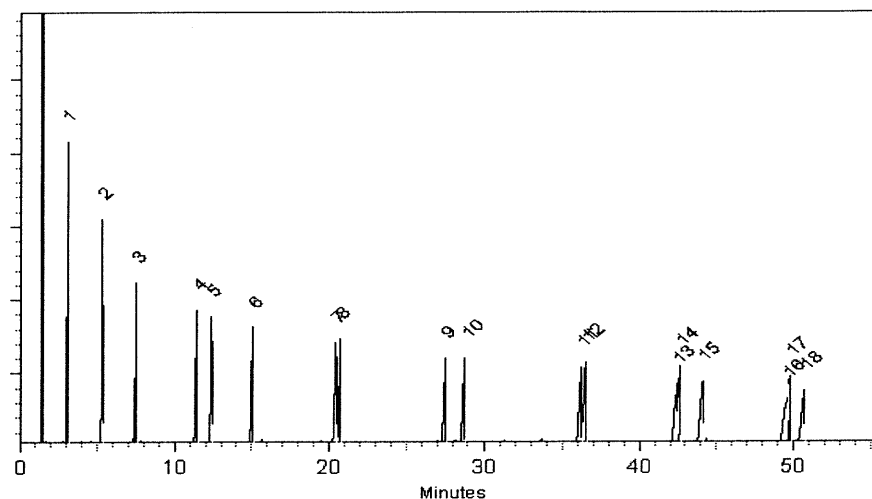
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

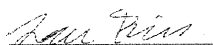
Inj. Temp:
250°C

Det. Temp:
330°C

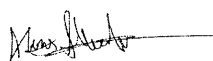
Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Lane Kibe - Mix Technician

Date Mixed: 14-May-2021 **Balance:** B345965662


Alexis Shelow - Operations Tech I

Date Passed: 18-May-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3926

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

J. Croak

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Reel on 7/2/25

E3949

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO ₂
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 1/12/25.

E3951

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4

Batch No.: 25B1862001

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

RS
7/14/25

E3954

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantors**[™]



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on 7/16/25

E3956



Jamie Croak
Director Quality Operations, Bioscience Production

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on 7/30/25

E3962

Jamie Croak
Director Quality Operations, Bioscience Production



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: 95709
Lot Number: 060420
Description: NJ EPH Aromatic Hydrocarbons
18 components
Expiration Date: 060425
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060
Weight(s) shown below were combined and diluted to (mL): 500.0
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.058

Solvent(s): Methylene chloride
Lot# 104923

Formulated By:	Benson Chan	060420
Reviewed By:	Pedro L. Renteria	060420
		DATE

Compound	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.)	LD50
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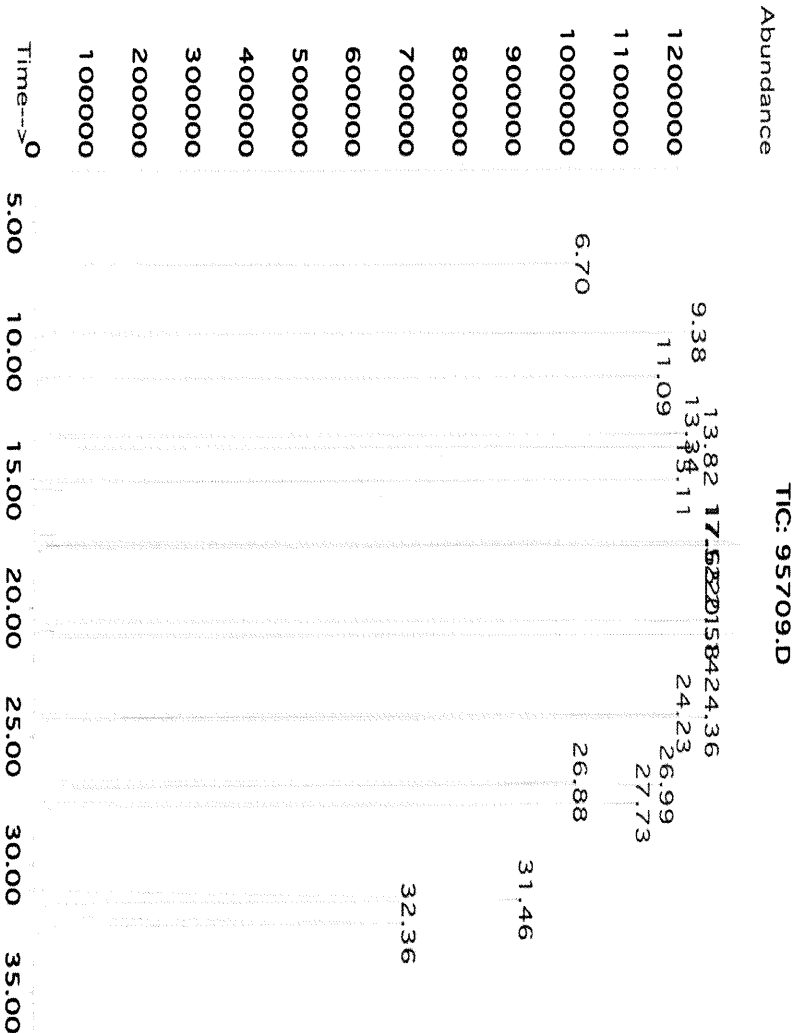
1. Acenaphthene	1	MKB14871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ip-tral 600mg/kg
2. Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-6	N/A	N/A
3. Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8h)	ip-trus 430mg/kg
4. Benz(a)anthracene	28	JY2TD-JT	2000	98	0.2	1.02033	1.02051	2000.3	8.2	56-55-3	N/A	N/A
5. Benz(a)pyrene	30	012012	2000	99.5	0.2	1.00495	1.00511	2000.3	8.1	50-32-8	0.2mg/m3 (8h)	scu-tral 50mg/kg
6. Benz(b)fluoranthene	31	012012b	2000	99	0.2	1.01003	1.01012	2000.2	8.1	205-99-2	N/A	N/A
7. Benz(k)fluoranthene	33	012012k	2000	99	0.2	1.01003	1.01018	2000.3	8.1	207-08-9	N/A	N/A
8. Benz(g,h,i)perylene	32	012018	2000	99	0.2	1.01003	1.01019	2000.3	8.1	191-24-2	N/A	N/A
9. Chrysene	91	012015	2000	98	0.2	1.02033	1.02040	2000.1	8.2	218-01-9	0.2mg/m3	N/A
10. Dibenzo(a,h)anthracene	112	012011	2000	98	0.2	1.02033	1.02050	2000.3	8.2	53-70-3	0.2mg/m3	N/A
11. Fluoranthene	183	04221PV	2000	98	0.2	1.02033	1.02050	2000.3	8.2	206-44-0	N/A	of-tral 2000mg/kg
12. Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ip-trus 2 g/kg
13. Indeno(1,2,3-cd)pyrene	202	012014	2000	99.9	0.2	1.00093	1.00119	2000.5	8.0	193-39-5	N/A	N/A
14. 2-Methylnaphthalene	214	MKB13783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	of-tral 1630mg/kg
15. Naphthalene	222	MKB28690V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8h)	of-tral 490mg/kg
16. Phenanthrene	248	03410PV	2000	99	0.2	1.01003	1.01030	2000.5	8.1	85-01-8	0.2mg/m3/8h	of-trus 700mg/kg
17. Pyrene	259	010197	2000	98	0.2	1.02033	1.02042	2000.2	8.2	129-00-0	0.2mg/m3/8h	of-tral 2700mg/kg
18. 1,2,3-Trimethylbenzene	944	031097	2000	99	0.2	1.01003	1.01025	2000.4	8.1	526-73-8	N/A	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N., and Kuyat, C.F., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

P11137
P11141
11/10/21



Method GC8MSD-2.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



Peak No.	Name	MSD RT (min.)
1	1,2,3-Trimethylbenzene	6.70
2	Naphthalene	9.38
3	2-Methylnaphthalene	11.09
4	Acenaphthylene	13.34
5	Acenaphthene	13.82
6	Fluorene	15.11
7	Phenanthrene	17.52
8	Anthracene	17.65
9	Fluoranthene	20.58
10	Pyrene	21.14
11	Chrysene	24.23
12	Benzo(a)anthracene	24.36
13	Benzo(b)fluoranthene/Benzo(k)fluoranthene	26.98
14	Benzo(a)pyrene	27.73
15	Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	31.46
16	Benzo(g,h,i)perylene	32.36



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) CAS # 111-84-2 Purity 99% (Lot SHBN5361)	2,014.0 µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99% (Lot SHBN8619)	2,014.7 µg/mL	+/- 11.8232 +/- 50.0193 +/- 59.9689	µg/mL Gravimetric Unstressed Stressed
3	Naphthalene CAS # 91-20-3 Purity 99% (Lot MKCH0219)	2,015.3 µg/mL	+/- 11.8271 +/- 50.0358 +/- 59.9888	µg/mL Gravimetric Unstressed Stressed
4	n-Dodecane (C12) CAS # 112-40-3 Purity 99% (Lot SHBN7174)	2,008.0 µg/mL	+/- 11.7841 +/- 49.8538 +/- 59.7705	µg/mL Gravimetric Unstressed Stressed
5	2-Methylnaphthalene CAS # 91-57-6 Purity 96% (Lot STBK0259)	2,007.0 µg/mL	+/- 11.7784 +/- 49.8299 +/- 59.7419	µg/mL Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) CAS # 629-59-4 Purity 99% (Lot STBK2282)	2,016.7 µg/mL	+/- 11.8349 +/- 50.0689 +/- 60.0284	µg/mL Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) CAS # 544-76-3 Purity 98% (Lot SHBM4146)	2,014.9 µg/mL	+/- 11.8244 +/- 50.0246 +/- 59.9753	µg/mL Gravimetric Unstressed Stressed

8	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	2,004.7 µg/mL	+/-	11.7645	µg/mL	Gravimetric
				+/-	49.7710	µg/mL	Unstressed
				+/-	59.6712	µg/mL	Stressed
9	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	(Lot MKCF7888)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
10	n-Heneicosane (C21) CAS # 629-94-7 Purity 99%	(Lot MKCL3226)	2,000.7 µg/mL	+/-	11.7410	µg/mL	Gravimetric
				+/-	49.6717	µg/mL	Unstressed
				+/-	59.5522	µg/mL	Stressed
11	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	2,005.3 µg/mL	+/-	11.7684	µg/mL	Gravimetric
				+/-	49.7876	µg/mL	Unstressed
				+/-	59.6911	µg/mL	Stressed
12	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
13	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	2,014.0 µg/mL	+/-	11.8193	µg/mL	Gravimetric
				+/-	50.0027	µg/mL	Unstressed
				+/-	59.9491	µg/mL	Stressed
14	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	2,002.0 µg/mL	+/-	11.7489	µg/mL	Gravimetric
				+/-	49.7048	µg/mL	Unstressed
				+/-	59.5919	µg/mL	Stressed
15	n-Triacontane (C30) CAS # 638-68-6 Purity 97%	(Lot MKCQ9436)	2,011.1 µg/mL	+/-	11.8025	µg/mL	Gravimetric
				+/-	49.9316	µg/mL	Unstressed
				+/-	59.8637	µg/mL	Stressed
16	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	2,012.0 µg/mL	+/-	11.8075	µg/mL	Gravimetric
				+/-	49.9531	µg/mL	Unstressed
				+/-	59.8895	µg/mL	Stressed
17	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	2,006.7 µg/mL	+/-	11.7762	µg/mL	Gravimetric
				+/-	49.8207	µg/mL	Unstressed
				+/-	59.7308	µg/mL	Stressed
18	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot Z27H018)	2,017.3 µg/mL	+/-	11.8388	µg/mL	Gravimetric
				+/-	50.0855	µg/mL	Unstressed
				+/-	60.0483	µg/mL	Stressed
19	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 96%	(Lot 0000145137)	2,017.3 µg/mL	+/-	11.8385	µg/mL	Gravimetric
				+/-	50.0842	µg/mL	Unstressed
				+/-	60.0467	µg/mL	Stressed
20	n-Tetracontane (C40) CAS # 4181-95-7 Purity 99%	(Lot BSBME)	2,008.7 µg/mL	+/-	11.7880	µg/mL	Gravimetric
				+/-	49.8703	µg/mL	Unstressed
				+/-	59.7903	µg/mL	Stressed
Solvent: Hexane/Carbon disulfide (80:20)							
	CAS # 110-54-3/75-15-0						
	Purity 99%						

Column:
30m x 0.25mm x 0.25µm
Pxx-5 (cat.#10223)

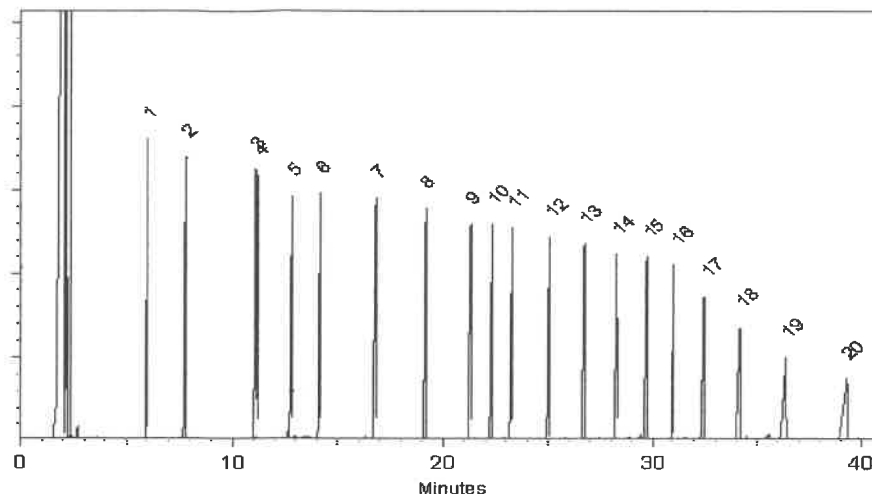
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

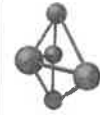
- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

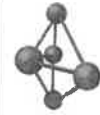
P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)	
																CAS#	OSHA PEL (TWA)
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H) orl-rat 490mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000.9	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	ivn-mus 218mg/kg
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1002.1	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	ivn-mus 3494mg/kg
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	0.013	NA	NA	NA	1000.3	4.1	589-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1002.4	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1001.9	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1001.2	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1001.5	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-06-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000.6	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
																CAS#	OSHA PEL (TWA)	LD50
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	or-rat 1630mg/kg
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H)	or-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.1	583-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1000	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1000	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-08-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

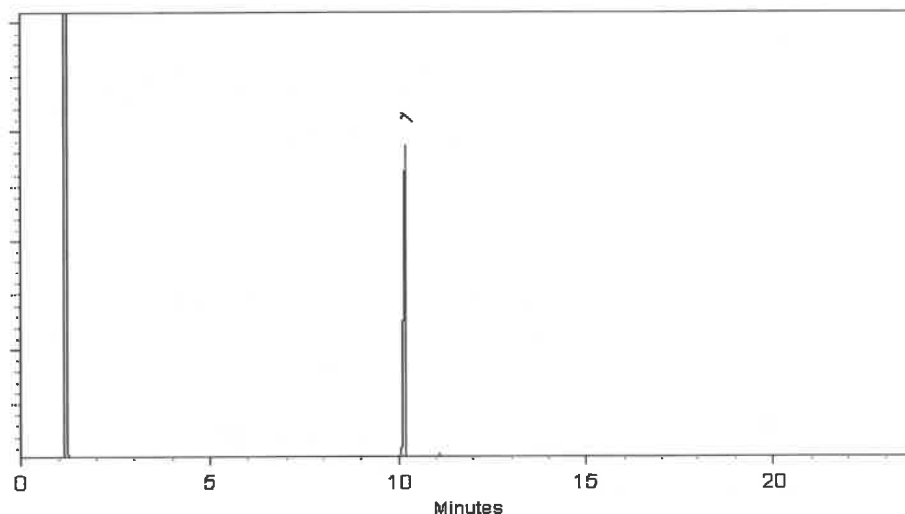
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

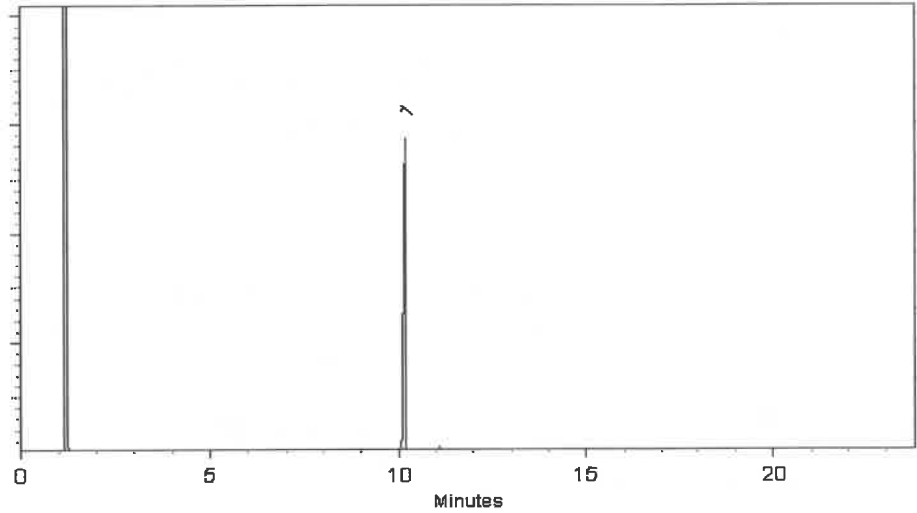
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

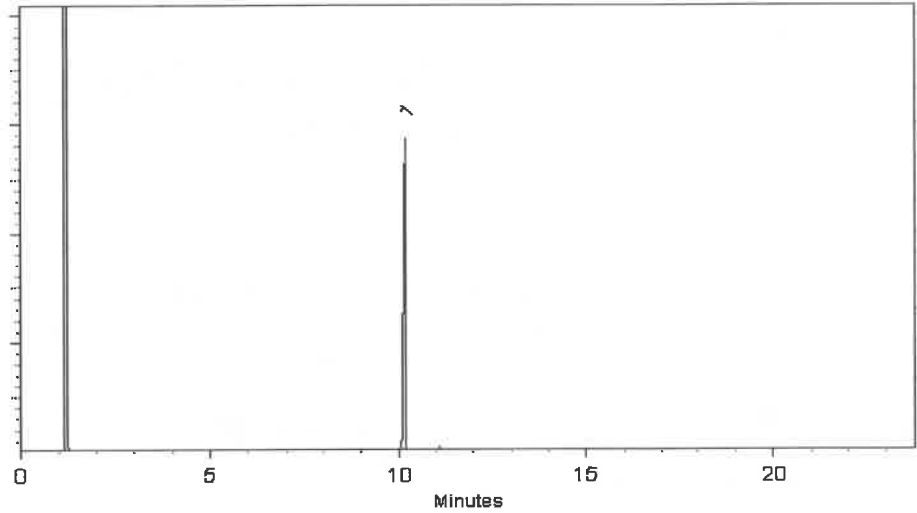
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

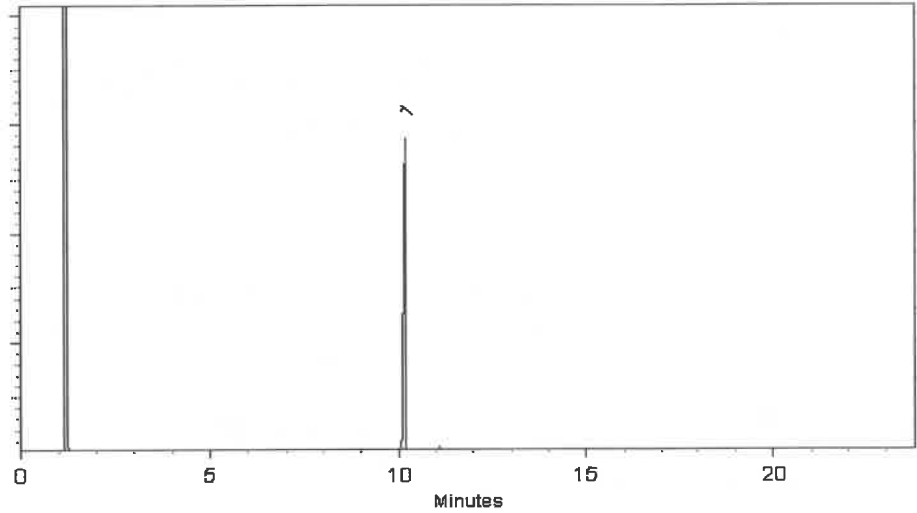
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

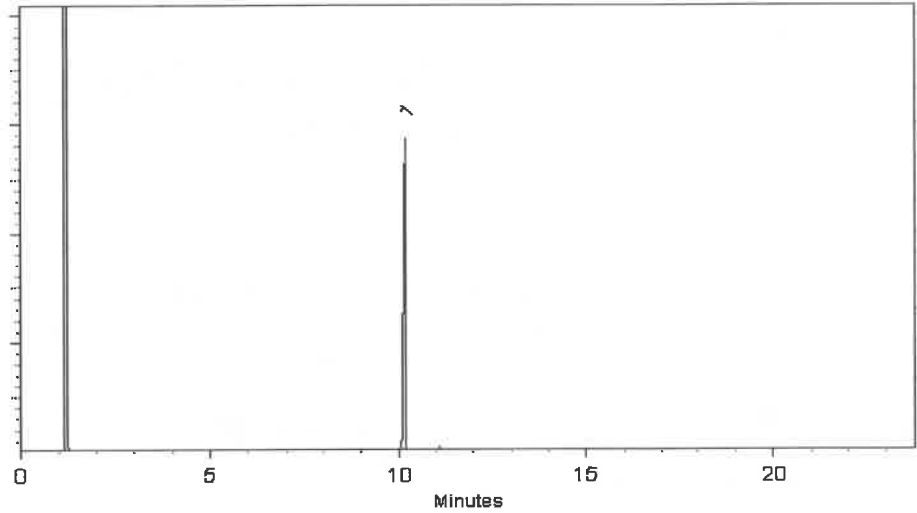
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

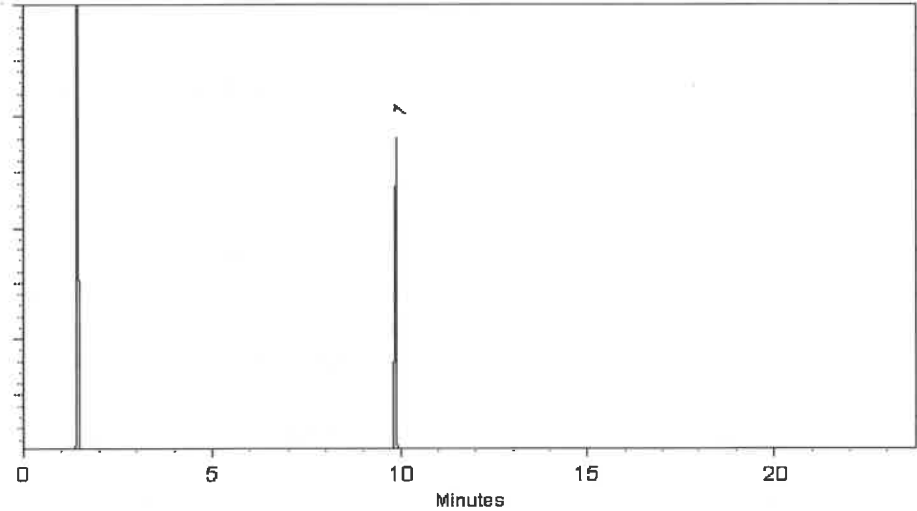
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

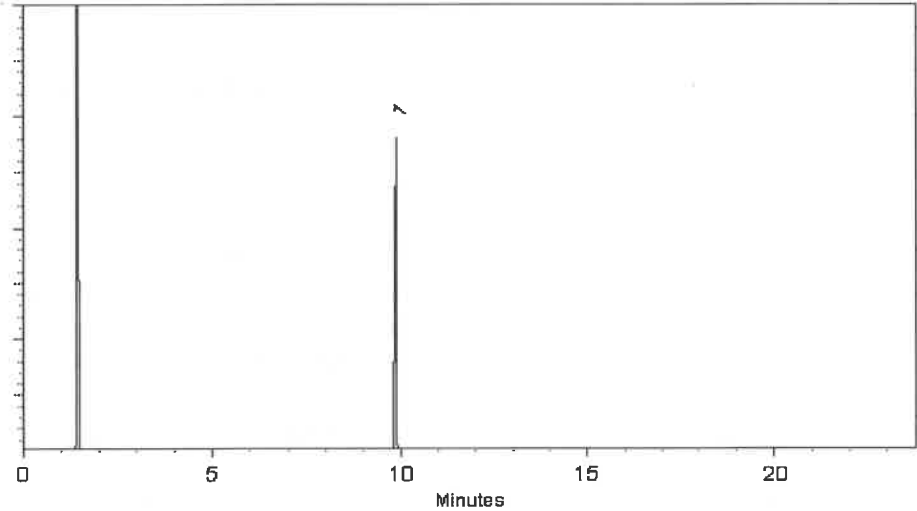
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

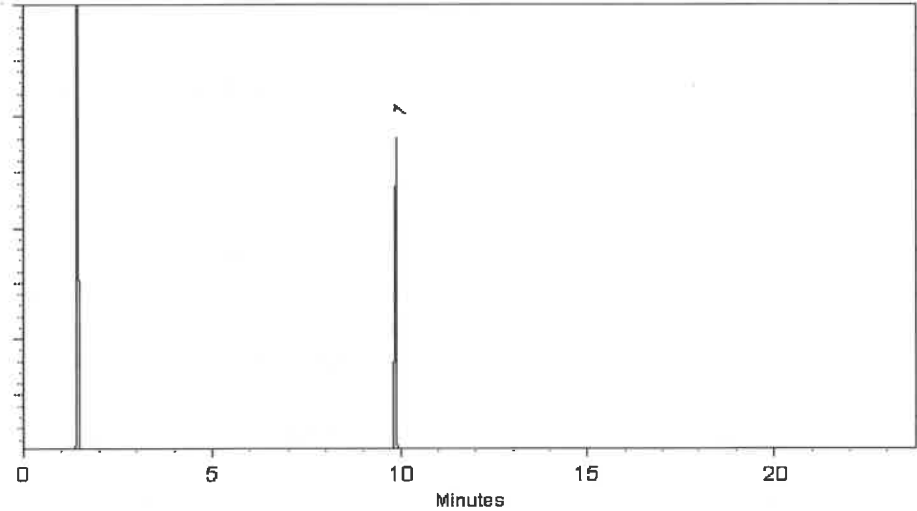
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

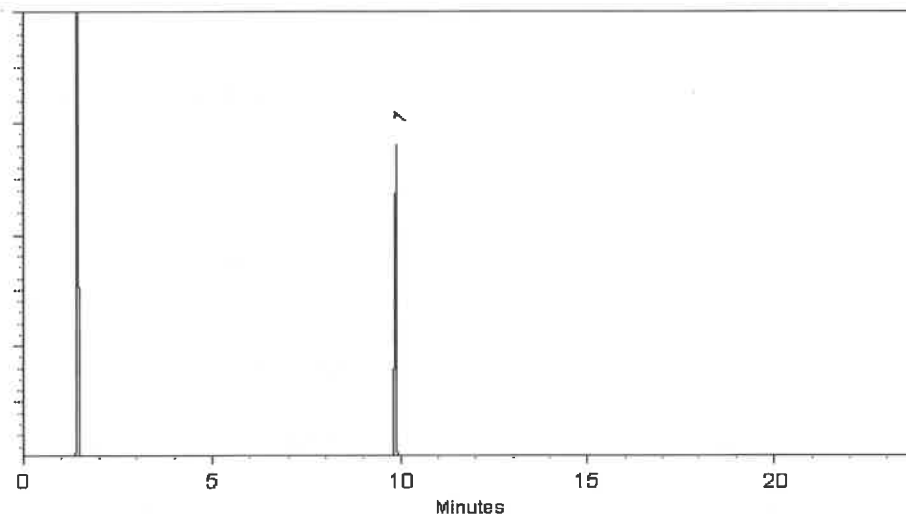
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

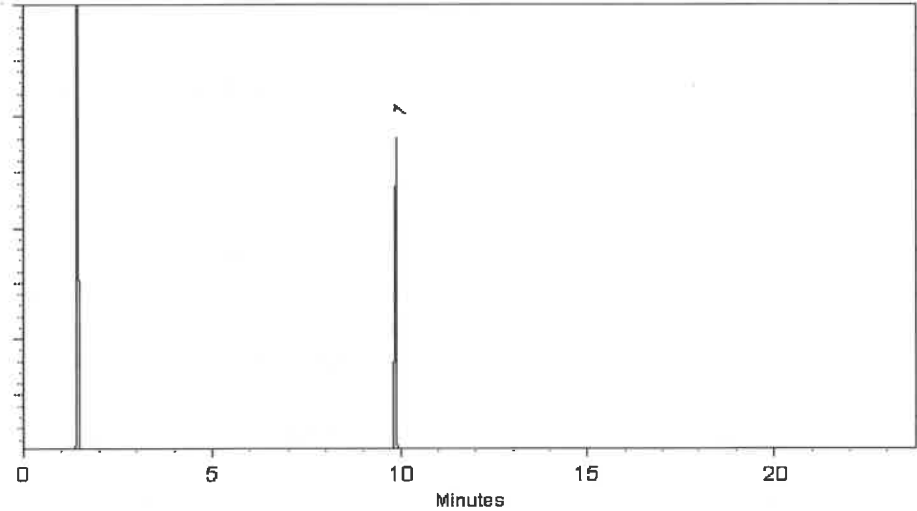
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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- Purity values are rounded to the nearest whole number.

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

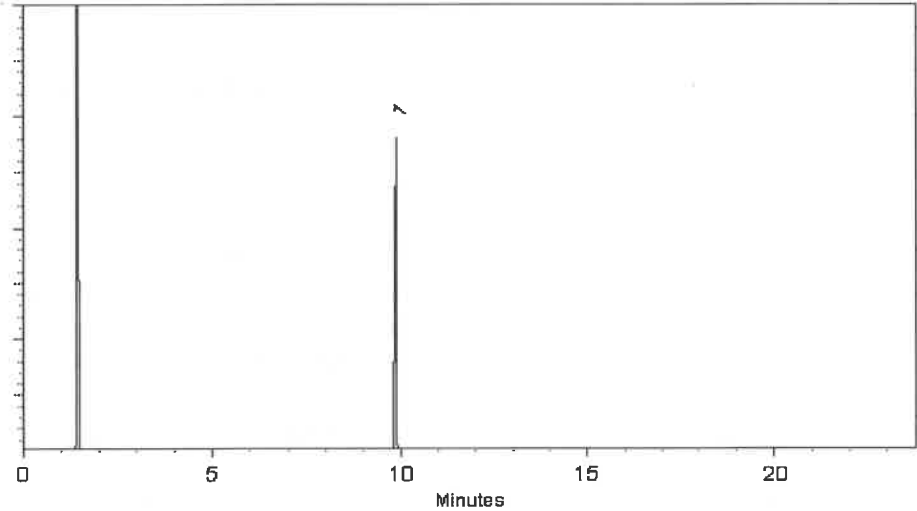
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

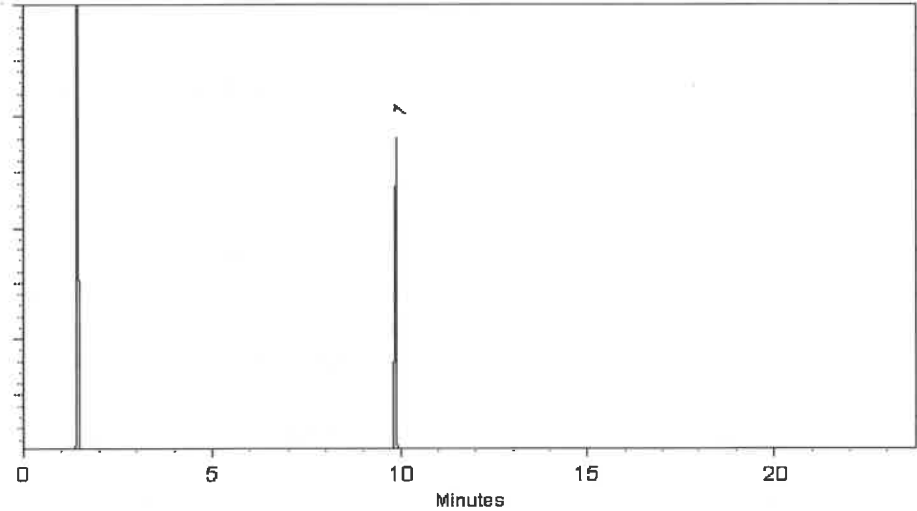
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0219106
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13947
L
P1395h

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,013.5 µg/mL	+/- 180.7988
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,011.0 µg/mL	+/- 180.6862

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

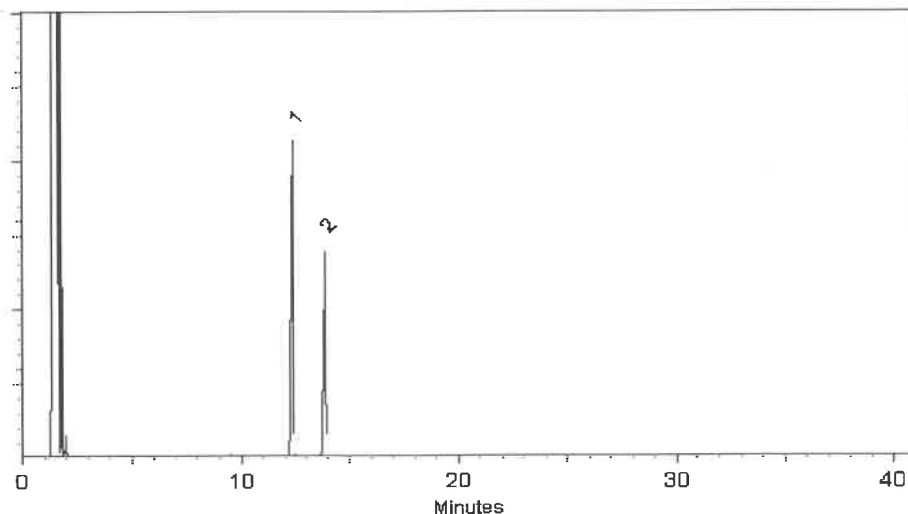
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Wilner Torres
Wilner Torres - Operation Tech I

Date Mixed: 14-Nov-2024

Balance Serial # 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Nov-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0221895
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2031 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P1395
↓
P13966.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

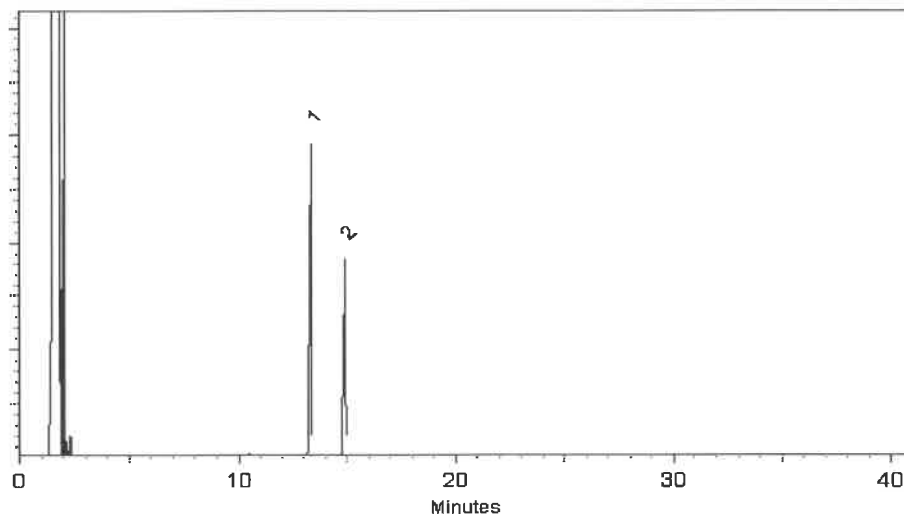
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 04-Feb-2025

Balance Serial # 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 12-Feb-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017 } RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

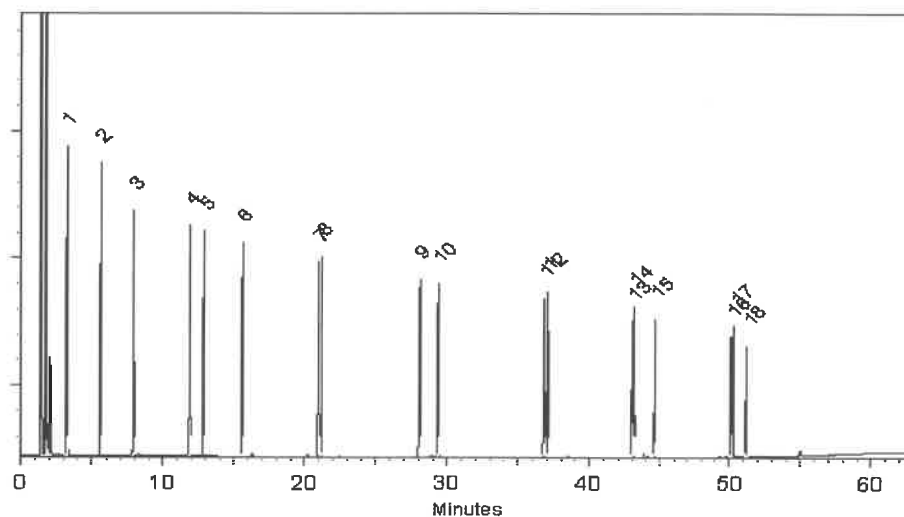
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

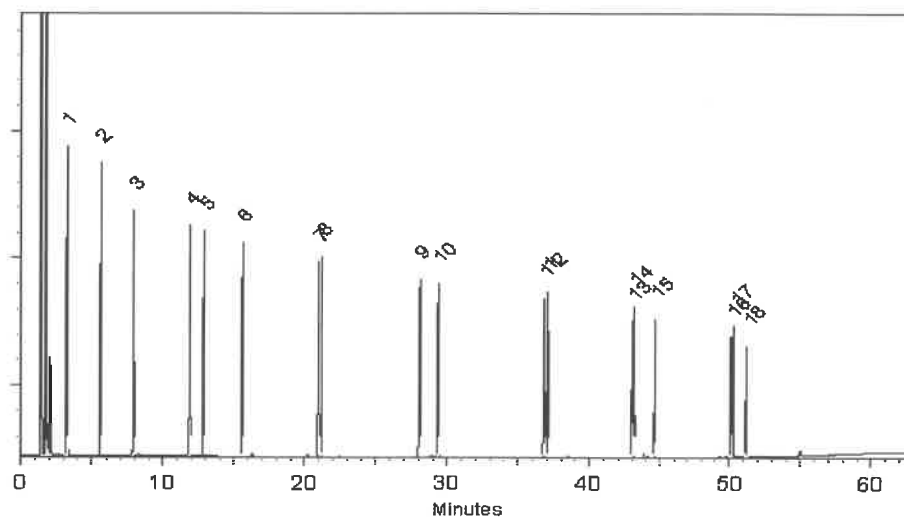
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Fax: 1-814-353-1309

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017 } RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

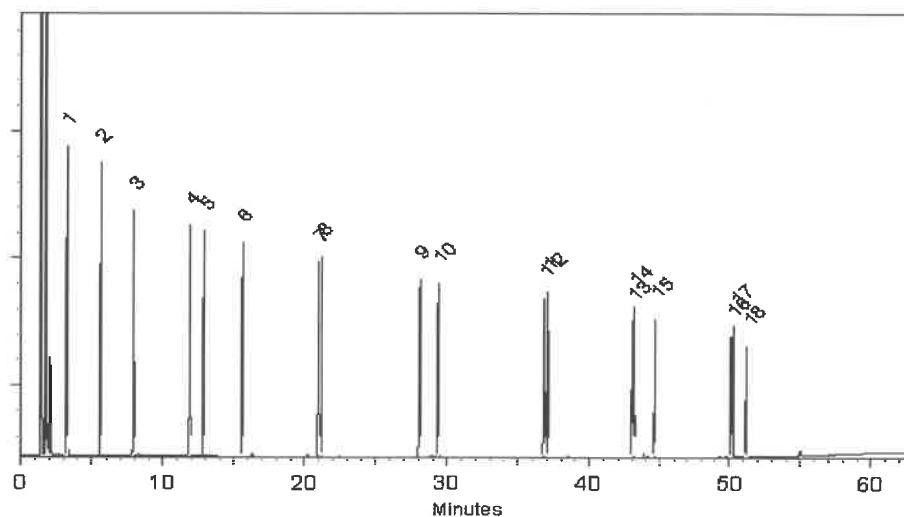
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505


Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

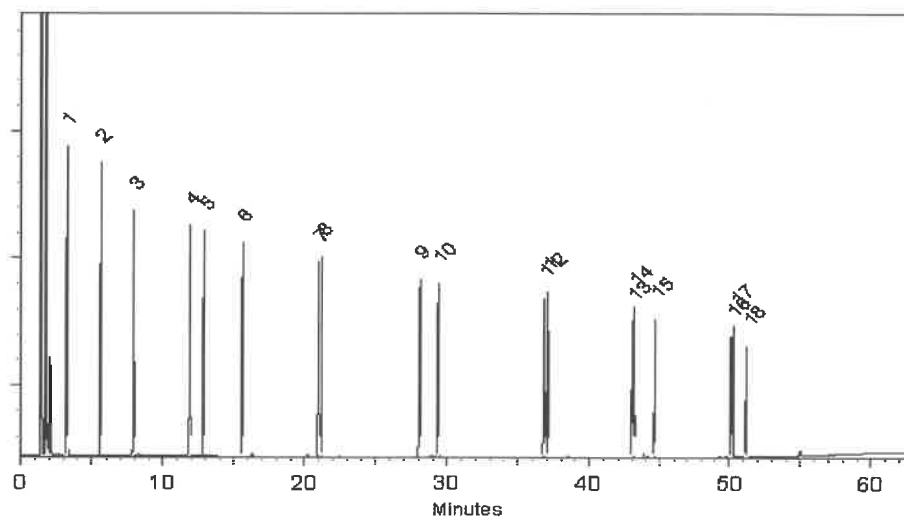
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
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P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

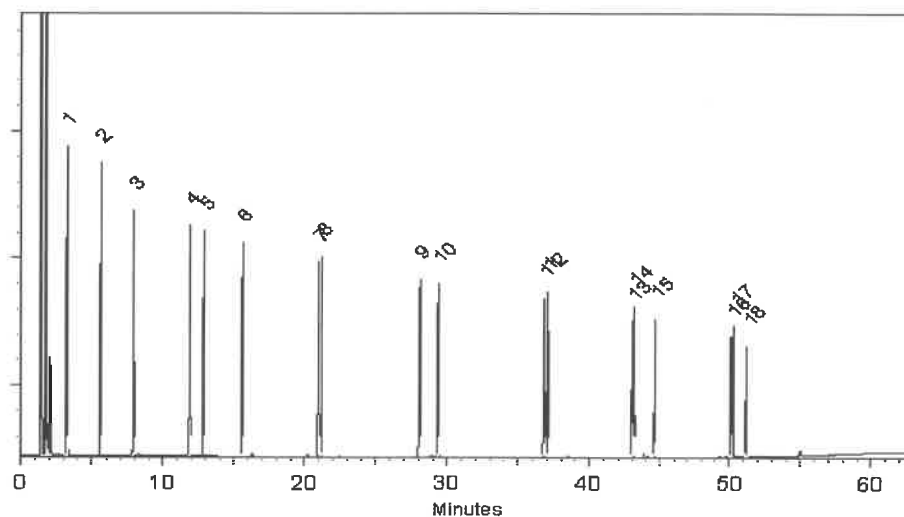
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505


Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

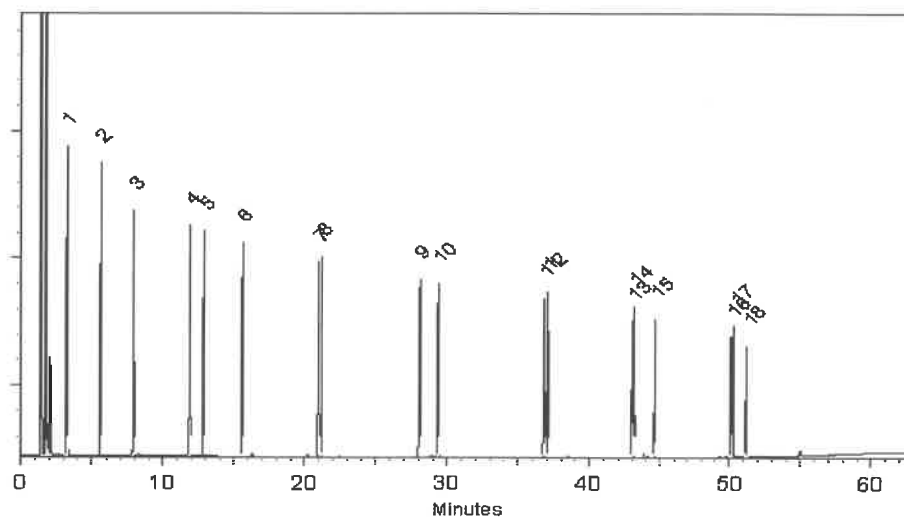
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

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18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

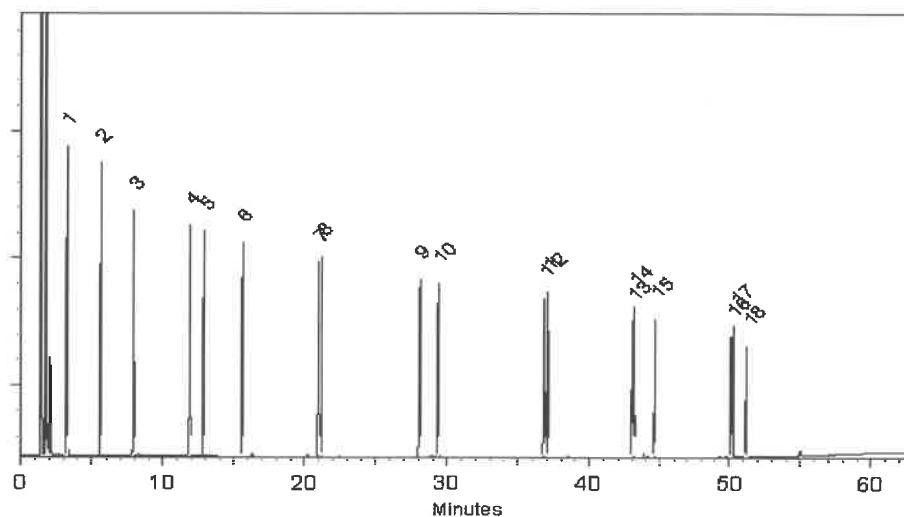
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505


Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
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5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

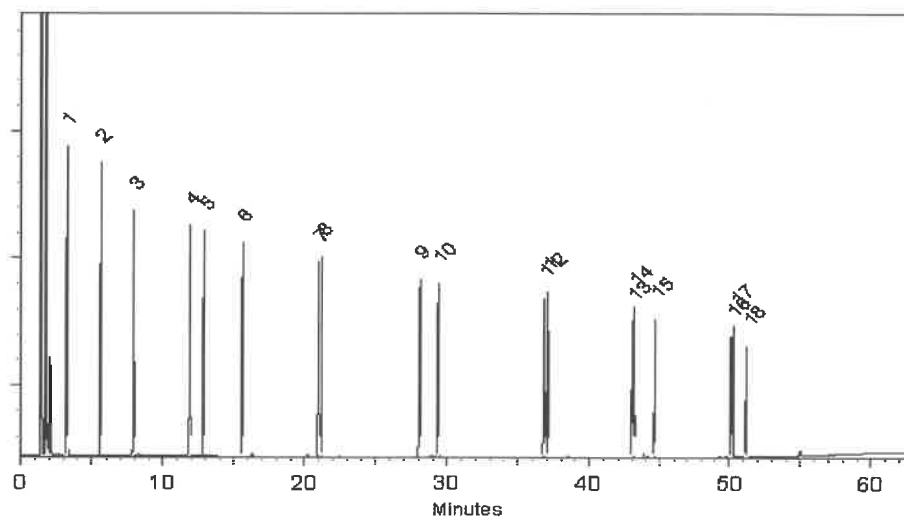
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505


Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

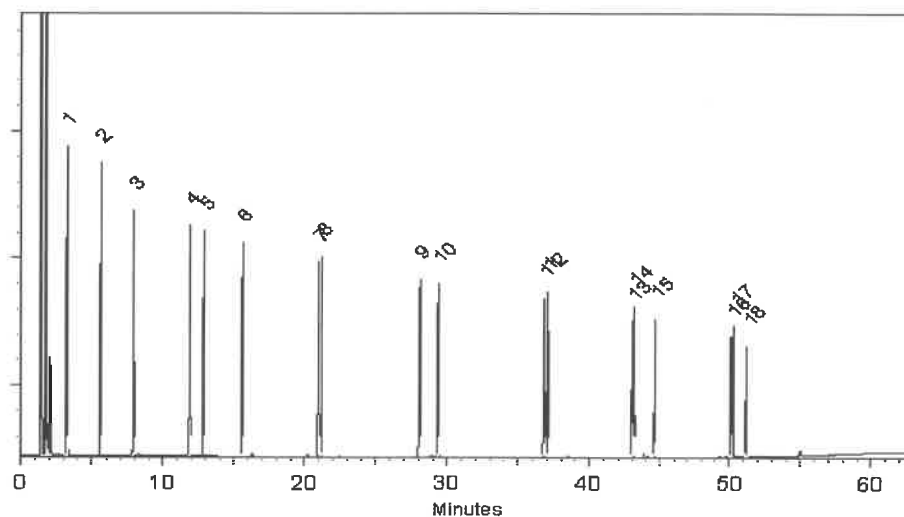
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

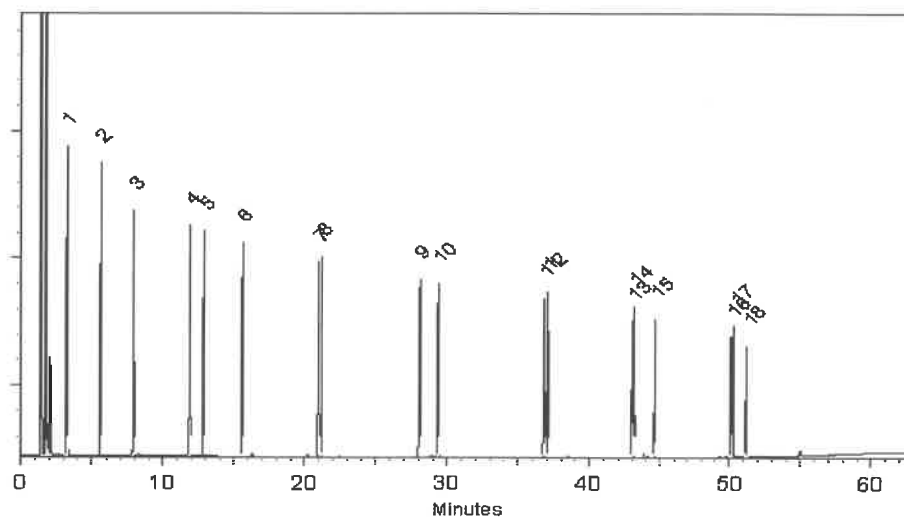
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505


Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0220449

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14018 } RC/
↓
P14027 } 5/21/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.3 µg/mL	+/- 5.2012
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.7 µg/mL	+/- 5.2098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	201.3 µg/mL	+/- 5.2012
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1839
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.3 µg/mL	+/- 5.1753
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.0 µg/mL	+/- 5.1926
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.2 µg/mL	+/- 5.1984
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.7 µg/mL	+/- 5.2098
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	201.3 µg/mL	+/- 5.2012
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.7 µg/mL	+/- 5.2098
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	201.6 µg/mL	+/- 5.2081

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

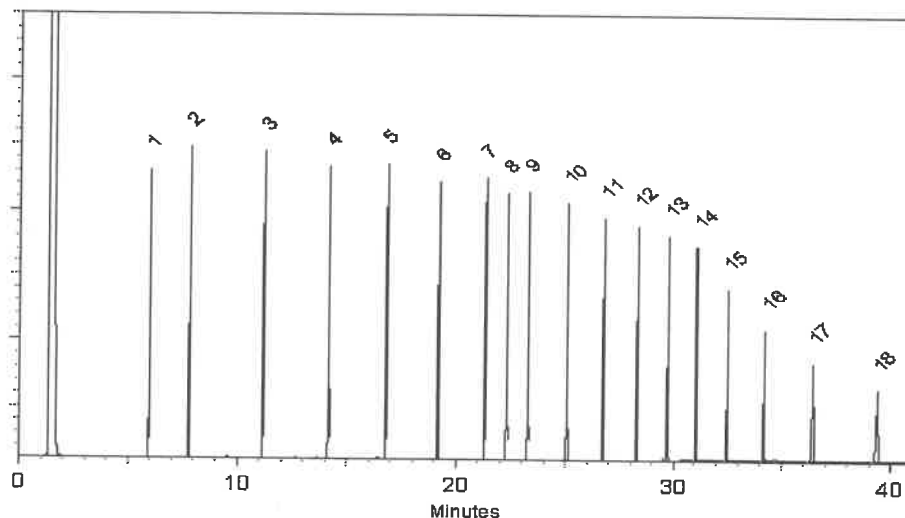
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024

Balance Serial # C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0224278

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 } AC
↓
P14058 } 6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Catalog No. : 31480 **Lot No.:** A0224278

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

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Expiration Date : March 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 } AC
↓
P14058 } 6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Catalog No. : 31480 **Lot No.:** A0224278

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 } AC
↓
P14058 } 6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Catalog No. : 31480 **Lot No.:** A0224278

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 } AC
↓
P14058 } 6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0220449

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

714084 } AC
↓
714093 } 7/16/25

CERTIFIED VALUES

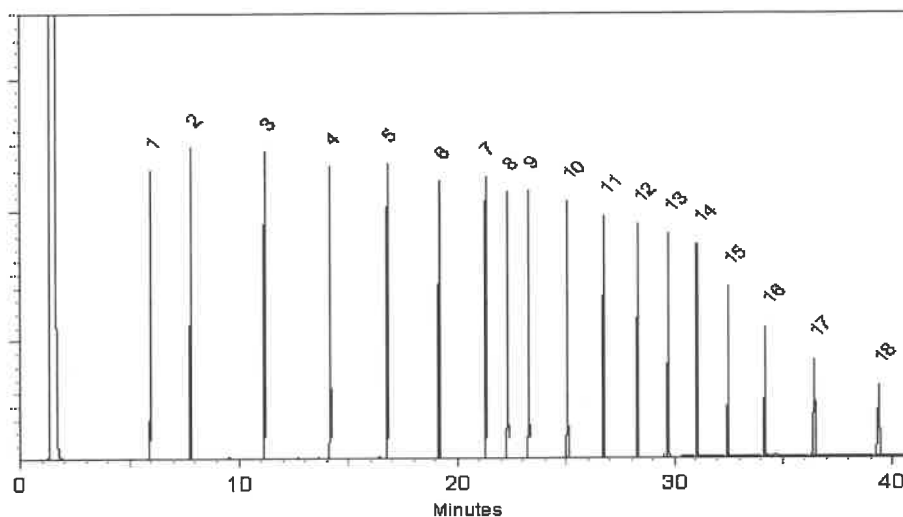
Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.3 µg/mL	+/- 5.2012
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.7 µg/mL	+/- 5.2098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	201.3 µg/mL	+/- 5.2012
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1839
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.3 µg/mL	+/- 5.1753
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.0 µg/mL	+/- 5.1926
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.2 µg/mL	+/- 5.1984
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.7 µg/mL	+/- 5.2098
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	201.3 µg/mL	+/- 5.2012
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.7 µg/mL	+/- 5.2098
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	201.6 µg/mL	+/- 5.2081

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
2 ml/min.
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0220449

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

714084 } AC
↓
714093 } 7/16/25

CERTIFIED VALUES

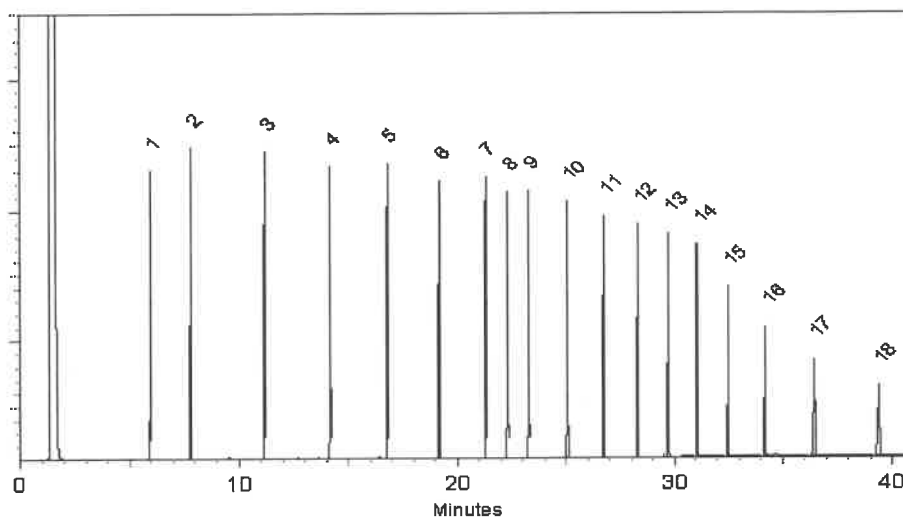
Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.3 µg/mL	+/- 5.2012
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.7 µg/mL	+/- 5.2098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	201.3 µg/mL	+/- 5.2012
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1839
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.3 µg/mL	+/- 5.1753
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.0 µg/mL	+/- 5.1926
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.2 µg/mL	+/- 5.1984
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.7 µg/mL	+/- 5.2098
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	201.3 µg/mL	+/- 5.2012
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.7 µg/mL	+/- 5.2098
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	201.6 µg/mL	+/- 5.2081

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
2 ml/min.
Inj. Vol
1µl



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Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Catalog No. : 30542 **Lot No.:** A0220449

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

714084 } AC
↓
714093 } 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	201.3 µg/mL	+/- 5.2012
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.3 µg/mL	+/- 5.1753
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7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
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15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	201.3 µg/mL	+/- 5.2012
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Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

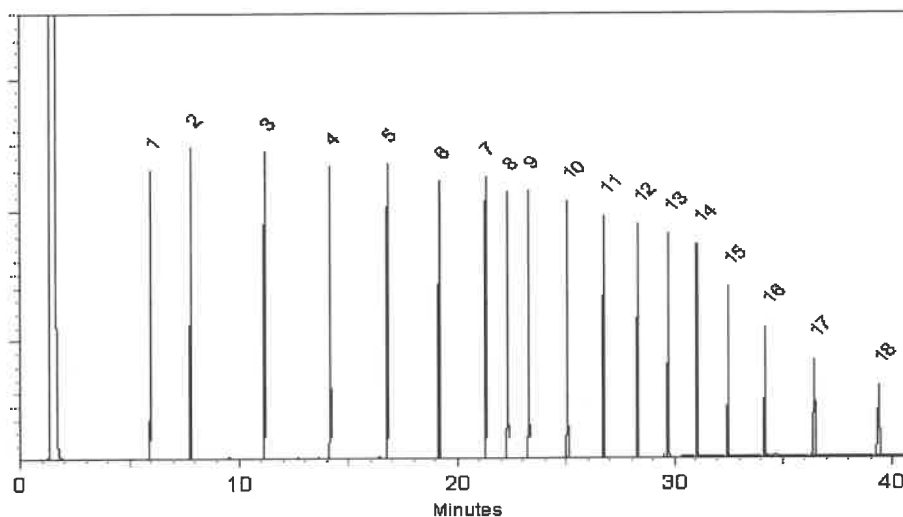
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

714084 } AC
↓
714093 } 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	201.3 µg/mL	+/- 5.2012
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
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10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.0 µg/mL	+/- 5.1926
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
 30m x 0.25mm x 0.25µm
 Rbx-5 (cat.#10223)

Carrier Gas:
 hydrogen-constant pressure 10 psi.

Temp. Program:
 40°C (hold 2 min.) to 330°C
 @ 10°C/min. (hold 10 min.)

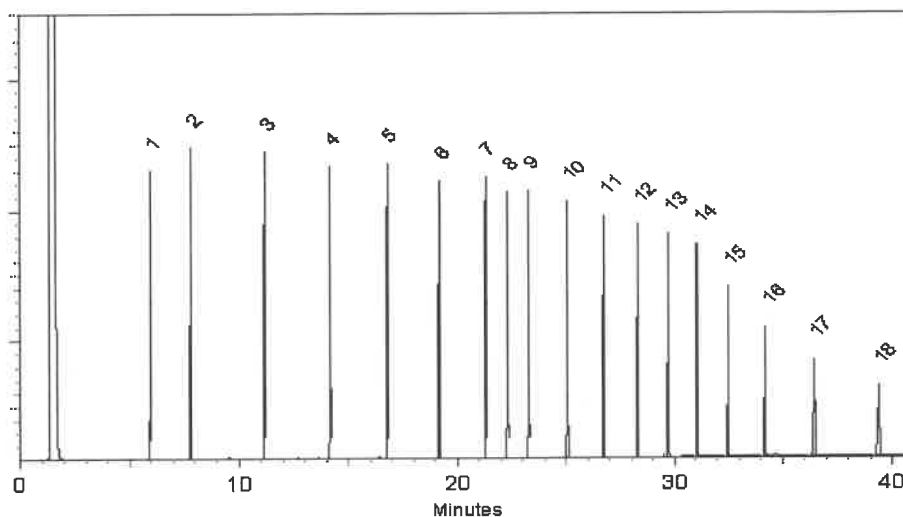
Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID

Split Vent:
 2 ml/min.

Inj. Vol
 1µl



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Brandon Reish
 Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dillon Murphy
 Dillon Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397



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NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

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Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

714084 } AC
↓
714093 } 7/16/25

CERTIFIED VALUES

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12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

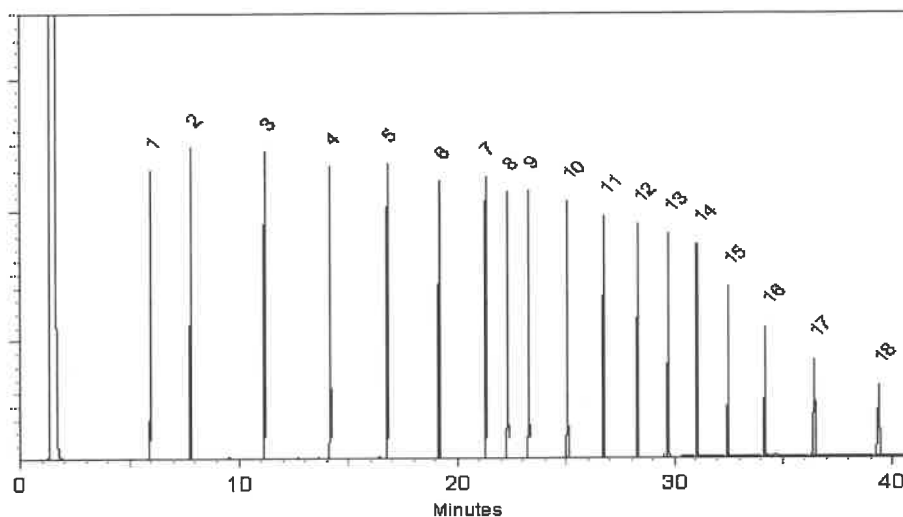
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

714084 } AC
↓
714093 } 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Purity 99%

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Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
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Temp. Program:
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@ 10°C/min. (hold 10 min.)

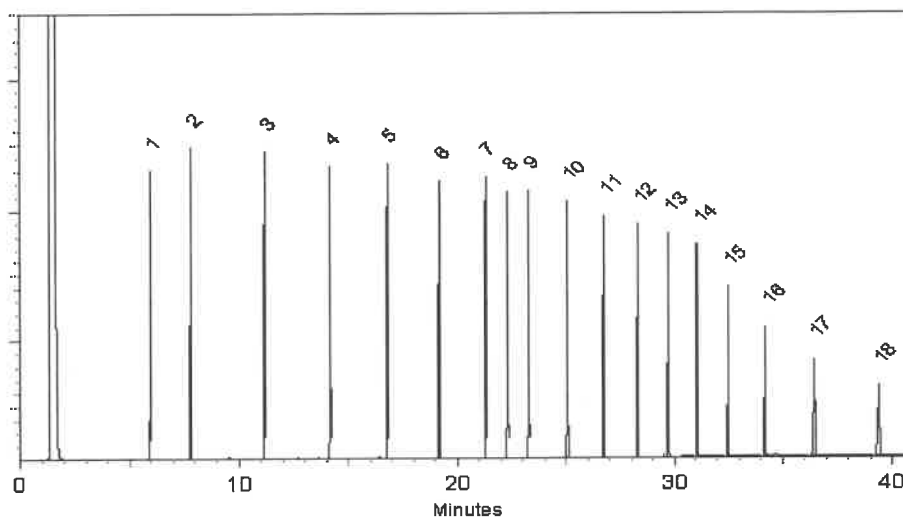
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

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@ 10°C/min. (hold 10 min.)

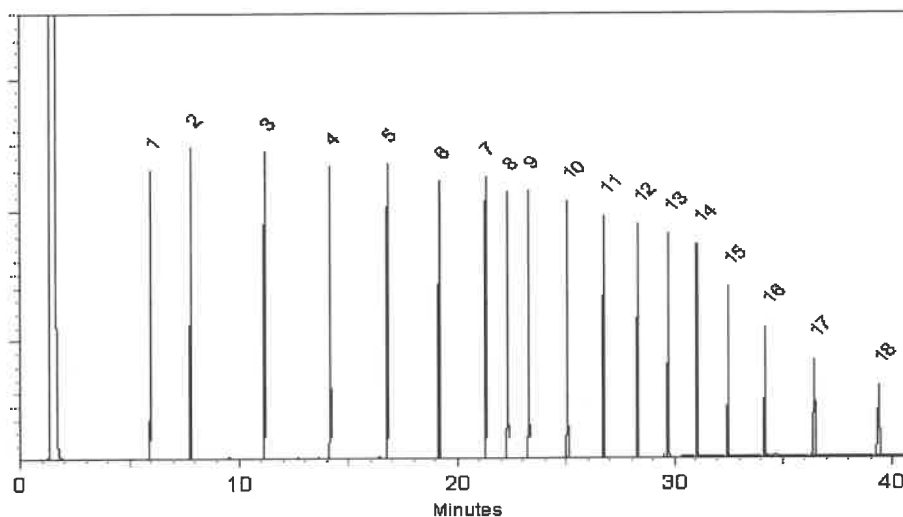
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0220449

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

714084 } AC
↓
714093 } 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.3 µg/mL	+/- 5.2012
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.7 µg/mL	+/- 5.2098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	201.3 µg/mL	+/- 5.2012
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1839
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.3 µg/mL	+/- 5.1753
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.0 µg/mL	+/- 5.1926
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.2 µg/mL	+/- 5.1984
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.7 µg/mL	+/- 5.2098
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	201.3 µg/mL	+/- 5.2012
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.7 µg/mL	+/- 5.2098
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	201.6 µg/mL	+/- 5.2081

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

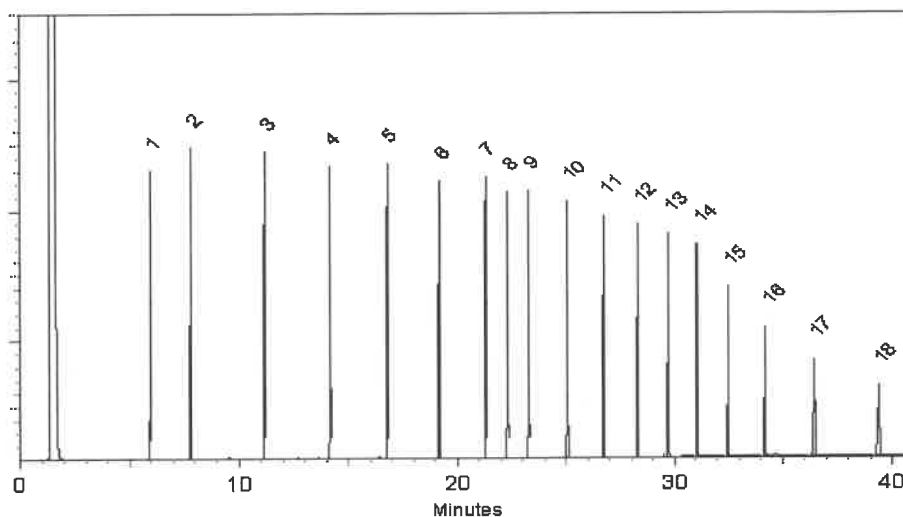
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Split Vent:
2 ml/min.

Inj. Vol
1µl



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Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Certificate of Analysis

chromatographic plus



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714084 } AC
↓
714093 } 7/16/25

CERTIFIED VALUES

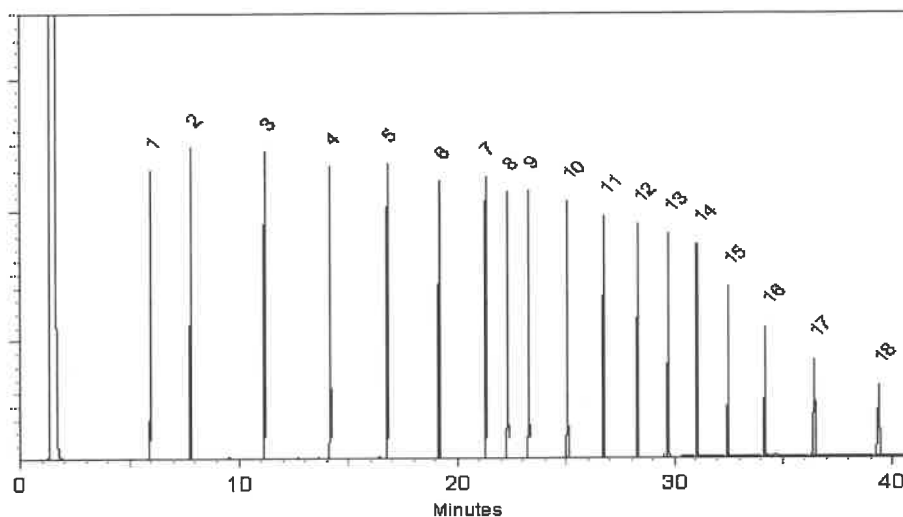
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330°C
Det. Type:
FID
Split Vent:
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Inj. Vol
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Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantor**™



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

W3234 JB
OP4421. 07/28/2025

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: **Gannett Fleming**
ADDRESS: **1010 Abrams Ave**
CITY: **Auburn** STATE: **PA** ZIP: **19403**
ATTENTION: **Joe Krupansky**
PHONE: **610-301-8342** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **Amtrak Replacement of Southern Bridges**
PROJECT NO.: LOCATION: **Keansburg, NJ**
PROJECT MANAGER: **Joe Krupansky**
e-mail: **Gjake@bemsys.com**
PHONE: **610-301-8342** FAX:

CLIENT BILLING INFORMATION

BILL TO: **Alliance** PO#: **2832**
ADDRESS: **284 Sheffield St**
CITY: **Mountainside** STATE: **NJ** ZIP: **07092**
ATTENTION: **Yazmen Gueez** PHONE: **908-728-3998**

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): **10** DAYS*
EDD: **10** DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 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
X EDD FORMAT **DEM EDD**

1. **TCL-Sink+25**
2. **TCL-Vol+10**
3. **PLBs**
4. **EPH**
5. **TAL Metals**
6. **TCLP Full Set**
7. **RLRA (PQ)**
8. **CRV/CCL**
9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TG-S01	S		X	8/1/15	0815	9	X	X	X	X	X	X	X	X	X	
2.	TG-S02	I		I	9/15	0915	9	I	I	I	I	I	I	I	I	I	
3.	TG-S03	I		I	11/10	1110	9	I	I	I	I	I	I	I	I	I	
4.	TG-S04	I		I	13/15	1315	9	I	I	I	I	I	I	I	I	I	
5.	TG-S05	I		I	8/1/15	0725	9	I	I	I	I	I	I	I	I	I	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. [Signature]	DATE/TIME: 8/12/15 0910	RECEIVED BY: 1. [Signature]	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 1.9 C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY: 2. [Signature]	Comments: If Can't
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME:	RECEIVED BY: 3. [Signature]	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	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2832 PORT06

Order Date : 8/12/2025 9:37:00 AM

Project Mgr :

Client Name : Portal Partners Tri-Venture

Project Name : Amtrak Sawtooth Bridges 2

Report Type : NJ Reduced

Client Contact : Joseph Krupansky

Receive DateTime : 8/12/2025 9:10:00 AM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Portal Partners Tri-Venture

Purchase Order :

Hard Copy Date :

Invoice Contact : Joseph Krupansky

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2832-01	TG-S01	Solid	08/11/2025	08:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2832-03	TG-S02	Solid	08/11/2025	09:15	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2832-05	TG-S03	Solid	08/11/2025	11:10	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2832-07	TG-S04	Solid	08/11/2025	13:45	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q2832-09	TG-S05	Solid	08/12/2025	07:25	VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By : af

Date / Time : 8/12/25 10:15

Received By : Sam

Date / Time : 08/12/25 10:15

Storage Area : VOA Refridgerator Room