

Cover Page

Order ID : Q2651

Project ID : Leon Avenue

Client : Earth Engineering Inc.

Lab Sample Number

Q2651-01
Q2651-02
Q2651-03
Q2651-04
Q2651-05

Client Sample Number

MH 2-1
MH 6-5
MH 7-6
MH 8-7
MH 9-8

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: 7/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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 #: Q2651

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRATHA PARGHI

Date: 07/26/2025

LAB CHRONICLE

OrderID:	Q2651	OrderDate:	7/18/2025 2:29:11 PM
Client:	Earth Engineering Inc.	Project:	Leon Avenue
Contact:	Frank Dougherty, LSRP	Location:	O22

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2651-01	MH 2-1	SOIL			07/17/25			07/18/25
			PCB	8082A		07/22/25	07/23/25	
			Pesticide-TCL	8081B		07/21/25	07/21/25	
			EPH_NF	NJEPH		07/21/25	07/21/25	
Q2651-02	MH 6-5	SOIL			07/17/25			07/18/25
			PCB	8082A		07/22/25	07/23/25	
			Pesticide-TCL	8081B		07/21/25	07/21/25	
			EPH_NF	NJEPH		07/21/25	07/22/25	
Q2651-03	MH 7-6	SOIL			07/17/25			07/18/25
			PCB	8082A		07/22/25	07/23/25	
			Pesticide-TCL	8081B		07/21/25	07/21/25	
			EPH_NF	NJEPH		07/21/25	07/21/25	
Q2651-04	MH 8-7	SOIL			07/17/25			07/18/25
			PCB	8082A		07/22/25	07/23/25	
			Pesticide-TCL	8081B		07/21/25	07/21/25	
			EPH_NF	NJEPH		07/21/25	07/21/25	
Q2651-05	MH 9-8	SOIL			07/17/25			07/18/25
			PCB	8082A		07/22/25	07/23/25	
			Pesticide-TCL	8081B		07/21/25	07/21/25	
			EPH_NF	NJEPH		07/21/25	07/22/25	



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: EARTH03
Lab Code: ACE SDG No.: Q2651
Run Number: FE072125AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB168930BL	71	71		0
PB168930BS	76	75		0
PB168930BSD	76	76		0
RT2286MS	58	56		0
RT2286MSD	56	54		0
MH 2-1	46	45		0
MH 7-6	49	48		0
MH 8-7	40	40		0

QC LIMITS

1-chlorooctadecane (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: EARTH03
Lab Code: ACE SDG No.: Q2651
Run Number: FE072225AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
MH 6-5	46	52		0
MH 9-8	74	70		0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

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

SOIL EPH SURROGATE RECOVERY

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

Column to be used to flag recovery values

* Values outside of contract required QC Limits

D Surrogate diluted out

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Earth Engineering Inc.</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2651</u>
Sample No :	<u>Q2635-01MS</u>	Datafile:	<u>FE054942.D</u>
		Client ID :	<u>RT2286MS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	35.3	13.9	40.6	76		(40-140)
Aliphatic C9-C28	117.7	38.4	97.7	50		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
n-Nonane (C9)	3.9	0.0168	1.7309	44		(40-140)
n-Decane (C10)	3.9	0.0222	4.0557	103		(40-140)
Naphthalene (C11.7)	3.9	0.1315	2.3273	56		(40-140)
n-Dodecane (C12)	3.9	0.0096	2.1841	56		(40-140)
2-methylnaphthalene (C12.89)	3.9	0.0389	2.2787	57		(40-140)
n-Tetradecane (C14)	3.9	0.0534	2.4007	60		(40-140)
n-Hexadecane (C16)	3.9	0.3568	2.7919	62		(40-140)
n-Octadecane (C18)	3.9	0.6793	3.2504	66		(40-140)
n-Eicosane (C20)	3.9	1.0919	3.4274	60		(40-140)
n-Heneicosane (C21)	3.9	0.6295	2.8297	56		(40-140)
n-Docosane (C22)	3.9	0.6235	2.8881	58		(40-140)
n-Tetracosane (C24)	7.9	0.5210	8.0570	95		(40-140)
n-Hexacosane (C26)	3.9	0.0892	2.3485	58		(40-140)
n-Octacosane (C28)	3.9	0.2466	2.4507	57		(40-140)
n-Tricontane (C30)	3.9	0.1502	2.2444	54		(40-140)
n-Dotriacontane (C32)	3.9	0.2577	2.4580	56		(40-140)
n-Tetratriacontane (C34)	3.9	0.1638	2.4780	59		(40-140)
n-Hexatriacontane (C36)	3.9	0.3625	2.9169	65		(40-140)
n-Octatriacontane (C38)	3.9	0.8379	3.3710	65		(40-140)
n-Tetracontane (C40)	3.9	0.0000	3.3886	87		(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Earth Engineering Inc.</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2651</u>
Sample No :	<u>Q2635-01MSD</u>	Datafile:	<u>FE054943.D</u>
		Client ID :	<u>RT2286MSD</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 C28-C40	35.3	13.9	40.6	76		0 (40-140) 50
Aliphatic C9-C28	117.7	38.4	94.2	47		5.9 (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)	3.9	0.0168	1.6789	43		2.3 (40-140) 50
n-Decane (C10)	3.9	0.0222	3.9239	100		2.96 (40-140) 50
Naphthalene (C11.7)	3.9	0.1315	2.2514	54		3.64 (40-140) 50
n-Dodecane (C12)	3.9	0.0096	2.1130	54		3.64 (40-140) 50
2-methylnaphthalene (C12.89)	3.9	0.0389	2.2035	56		1.77 (40-140) 50
n-Tetradecane (C14)	3.9	0.0534	2.3220	58		3.39 (40-140) 50
n-Hexadecane (C16)	3.9	0.3568	2.7116	60		3.28 (40-140) 50
n-Octadecane (C18)	3.9	0.6793	3.2121	65		1.53 (40-140) 50
n-Eicosane (C20)	3.9	1.0919	3.3258	57		5.13 (40-140) 50
n-Heneicosane (C21)	3.9	0.6295	2.7474	54		3.64 (40-140) 50
n-Docosane (C22)	3.9	0.6235	2.6728	53		9.01 (40-140) 50
n-Tetracosane (C24)	7.9	0.5210	7.7729	92		3.21 (40-140) 50
n-Hexacosane (C26)	3.9	0.0892	2.2709	56		3.51 (40-140) 50
n-Octacosane (C28)	3.9	0.2466	2.3196	53		7.27 (40-140) 50
n-Tricontane (C30)	3.9	0.1502	2.1274	51		5.71 (40-140) 50
n-Dotriacontane (C32)	3.9	0.2577	2.2477	51		9.35 (40-140) 50
n-Tetratriacontane (C34)	3.9	0.1638	2.5222	60		1.68 (40-140) 50
n-Hexatriacontane (C36)	3.9	0.3625	2.9804	67		3.03 (40-140) 50
n-Octatriacontane (C38)	3.9	0.8379	3.4302	66		1.53 (40-140) 50
n-Tetracontane (C40)	3.9	0.0000	3.4514	88		1.14 (40-140) 50

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Earth Engineering Inc.</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2651</u>
Sample No :	<u>PB168930BS</u>	Datafile:	<u>FE054938.D</u>
		Client ID :	<u>PB168930BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	30.0	20.4	68		(40-140)
Aliphatic C9-C28	100.1	57.3	58		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
n-Nonane (C9)	3.3	1.80115	55		(40-140)
n-Decane (C10)	3.3	1.90439	58		(40-140)
Naphthalene (C11.7)	3.3	2.12345	64		(40-140)
n-Dodecane (C12)	3.3	2.03141	62		(40-140)
2-methylnaphthalene (C12.89)	3.3	2.06991	63		(40-140)
n-Tetradecane (C14)	3.3	2.09111	63		(40-140)
n-Hexadecane (C16)	3.3	2.09604	64		(40-140)
n-Octadecane (C18)	3.3	2.04121	62		(40-140)
n-Eicosane (C20)	3.3	2.12987	65		(40-140)
n-Heneicosane (C21)	3.3	2.04677	62		(40-140)
n-Docosane (C22)	3.3	2.01950	61		(40-140)
n-Tetracosane (C24)	6.7	4.06690	61		(40-140)
n-Hexacosane (C26)	3.3	1.93024	58		(40-140)
n-Octacosane (C28)	3.3	1.90148	58		(40-140)
n-Tricontane (C30)	3.3	1.78997	54		(40-140)
n-Dotriacontane (C32)	3.3	1.75709	53		(40-140)
n-Tetratriacontane (C34)	3.3	1.97135	60		(40-140)
n-Hexatriacontane (C36)	3.3	2.18664	66		(40-140)
n-Octatriacontane (C38)	3.3	2.78623	84		(40-140)
n-Tetracontane (C40)	3.3	2.72354	83		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Earth Engineering Inc.
Lab Code: ACE **SDG No:** Q2651
Sample No : PB168930BSD **Datafile:** FE054939.D **Client ID :** PB168930BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
Aliphatic C28-C40	30.0	20.4	68		0.06 (40-140) 25
Aliphatic C9-C28	99.9	57.7	58		0.73 (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	1.80667	55		0 (40-140) 25
n-Decane (C10)	3.3	1.91471	58		0 (40-140) 25
Naphthalene (C11.7)	3.3	2.13400	65		1.55 (40-140) 25
n-Dodecane (C12)	3.3	2.04157	62		0 (40-140) 25
2-methylnaphthalene (C12.89)	3.3	2.08117	63		0 (40-140) 25
n-Tetradecane (C14)	3.3	2.10204	64		1.57 (40-140) 25
n-Hexadecane (C16)	3.3	2.10135	64		0 (40-140) 25
n-Octadecane (C18)	3.3	2.04629	62		0 (40-140) 25
n-Eicosane (C20)	3.3	2.13176	65		0 (40-140) 25
n-Heneicosane (C21)	3.3	2.05220	62		0 (40-140) 25
n-Docosane (C22)	3.3	2.02654	61		0 (40-140) 25
n-Tetracosane (C24)	6.7	4.10944	61		0 (40-140) 25
n-Hexacosane (C26)	3.3	1.94334	59		1.71 (40-140) 25
n-Octacosane (C28)	3.3	1.91270	58		0 (40-140) 25
n-Tricontane (C30)	3.3	1.79915	55		1.83 (40-140) 25
n-Dotriacontane (C32)	3.3	1.76048	53		0 (40-140) 25
n-Tetratriacontane (C34)	3.3	1.95261	59		1.68 (40-140) 25
n-Hexatriacontane (C36)	3.3	2.18953	66		0 (40-140) 25
n-Octatriacontane (C38)	3.3	2.68460	81		3.64 (40-140) 25
n-Tetracontane (C40)	3.3	2.73581	83		0 (40-140) 25

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB168930BL

Lab Name: Alliance

Contract: EARTH03

Lab Code: ACE

SDG NO.: Q2651

Instrument ID: FID_E

Lab Sample ID: PB168930BL

Matrix: (soil/water) Solid

Date Extracted: 7/21/2025 9:00:00 A

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB168930BS	PB168930BS
PB168930BSD	PB168930BSD
RT2286MS	Q2635-01MS
RT2286MSD	Q2635-01MSD
MH 2-1	Q2651-01
MH 6-5	Q2651-02
MH 7-6	Q2651-03
MH 8-7	Q2651-04
MH 9-8	Q2651-05

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 2-1	SDG No.:	Q2651
Lab Sample ID:	Q2651-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/21/25 17:34	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	11.7		1	1.24	2.11	mg/kg	FE054945.D
Aliphatic C9-C28	Aliphatic C9-C28	4.89		1	0.96	4.23	mg/kg	FE054945.D
Total AliphaticEPH	Total AliphaticEPH	16.6			2.20	6.34	mg/kg	
Total EPH	Total EPH	16.6			2.20	6.34	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 2-1	SDG No.:	Q2651
Lab Sample ID:	Q2651-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054945.D	1	07/21/25	07/21/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.89		0.96	4.23	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.7		1.24	2.11	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.9		40 - 140	46%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.6		40 - 140	45%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2651-01	Acq On:	21 Jul 2025 17:34
Client Sample ID:	MH 2-1	Operator:	YP\AJ
Data file:	FE054945.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.330	6.963	3080565	22.642	300	ug/ml
Aliphatic C12-C16	6.964	10.415	1434704	10.206	200	ug/ml
Aliphatic C16-C21	10.416	13.793	1273485	8.82	300	ug/ml
Aliphatic C21-C28	13.794	17.463	4023636	27.816	400	ug/ml
Aliphatic C28-C40	17.464	22.490	23108376	166.67	600	ug/ml
Aliphatic EPH	3.330	22.490	32920766	236.154		ug/ml
ortho-Terphenyl (SURR)	12.089	12.089	3662606	22.55		ug/ml
1-chlorooctadecane (SURR)	13.525	13.525	2886154	22.85		ug/ml
Aliphatic C9-C28	3.330	17.463	9812390	69.484	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054945.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 17:34
 Operator : YP\AJ
 Sample : Q2651-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 MH 2-1

Integration File: autoint1.e
 Quant Time: Jul 22 01:30:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.089	3662606	22.554 ug/ml
Spiked Amount 50.000		Recovery =	45.11%
12) S 1-chlorooctadecane (S...	13.525	2886154	22.853 ug/ml
Spiked Amount 50.000		Recovery =	45.71%

Target Compounds

(f)=RT Delta > 1/2 Window

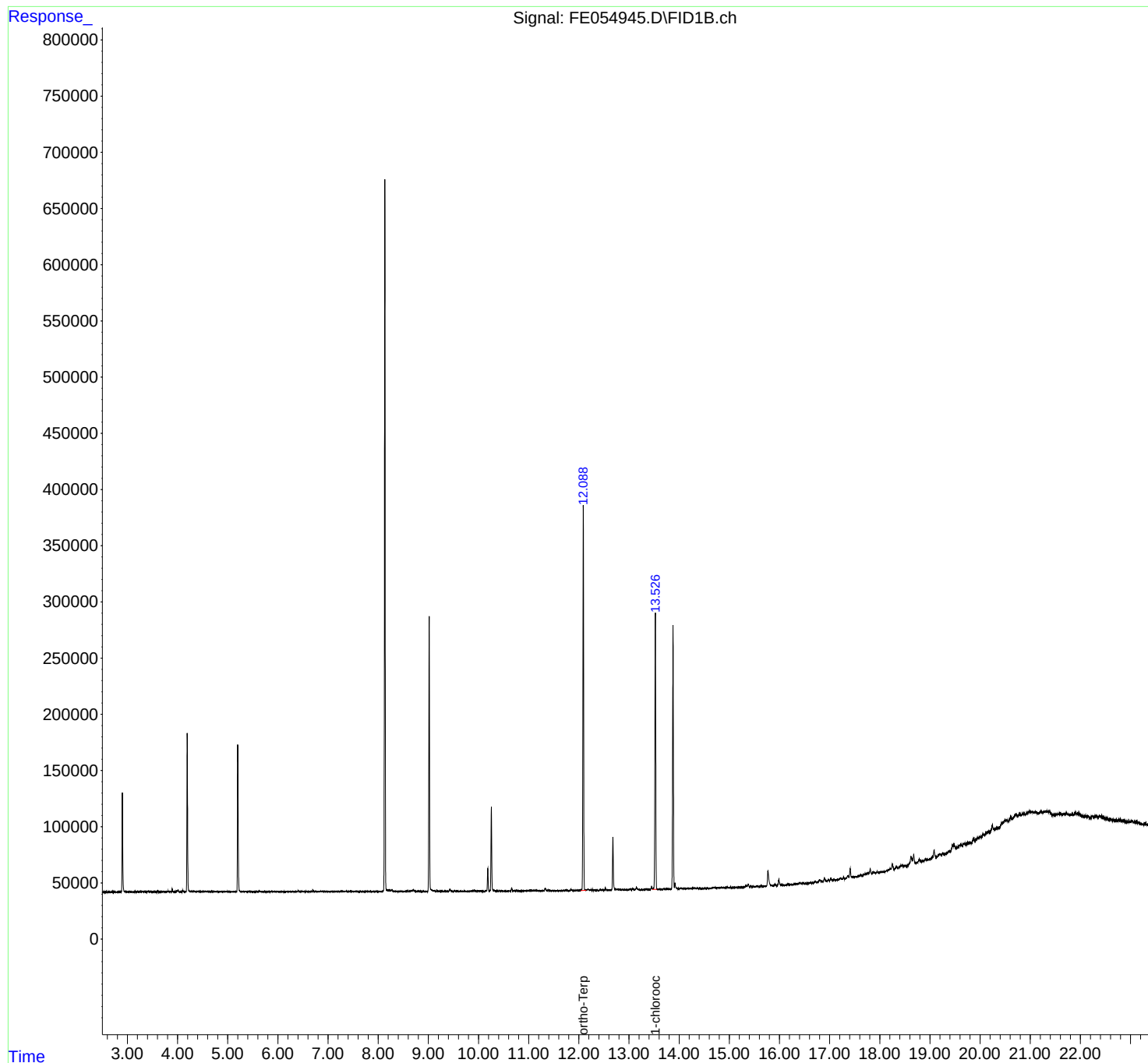
(m)=manual int.

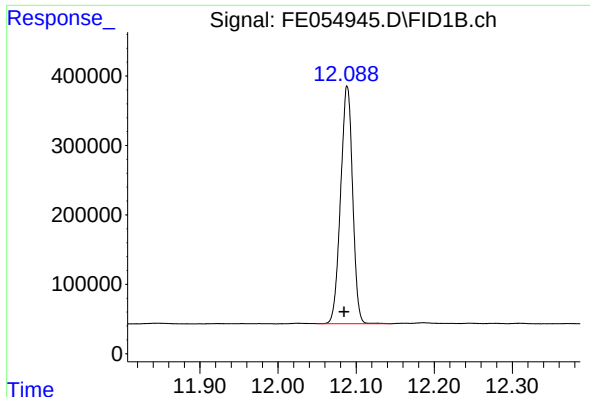
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054945.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 17:34
Operator : YP\AJ
Sample : Q2651-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
MH 2-1

Integration File: autoint1.e
Quant Time: Jul 22 01:30:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 2025
Response via : Initial Calibration
Integrator: ChemStation

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

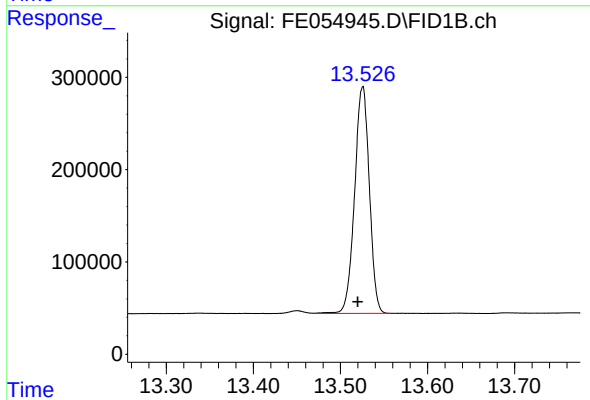




#9 ortho-Terphenyl (SURR)

R.T.: 12.089 min
Delta R.T.: 0.004 min
Response: 3662606
Conc: 22.55 ug/ml

Instrument :
FID_E
ClientSampleId :
MH 2-1



#12 1-chlorooctadecane (SURR)

R.T.: 13.525 min
Delta R.T.: 0.005 min
Response: 2886154
Conc: 22.85 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054945.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 17:34
 Sample : Q2651-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	2.839	2.805	2.871	BV	282	3973	0.11%	0.010%
2	2.899	2.871	3.018	PV	87921	847401	23.06%	2.098%
3	3.033	3.018	3.076	VV	164	3084	0.08%	0.008%
4	3.101	3.076	3.137	PV	126	2963	0.08%	0.007%
5	3.156	3.137	3.179	VV	230	3875	0.11%	0.010%
6	3.189	3.179	3.220	VV	171	2592	0.07%	0.006%
7	3.268	3.220	3.298	VV	361	10683	0.29%	0.026%
8	3.307	3.298	3.375	VV	351	7655	0.21%	0.019%
9	3.423	3.375	3.478	VV	407	10507	0.29%	0.026%
10	3.480	3.478	3.518	VV	206	2712	0.07%	0.007%
11	3.545	3.518	3.581	VV	199	5898	0.16%	0.015%
12	3.606	3.581	3.728	VV	779	18803	0.51%	0.047%
13	3.740	3.728	3.762	VV	331	3610	0.10%	0.009%
14	3.810	3.762	3.835	VV	498	9481	0.26%	0.023%
15	3.894	3.835	3.931	VV	2427	32186	0.88%	0.080%
16	3.949	3.931	3.965	VV	170	2673	0.07%	0.007%
17	4.010	3.965	4.070	VV	1918	32261	0.88%	0.080%
18	4.101	4.070	4.166	VV	1432	21536	0.59%	0.053%
19	4.193	4.166	4.264	VV	137613	1288768	35.07%	3.191%
20	4.275	4.264	4.368	VV	519	24890	0.68%	0.062%
21	4.410	4.368	4.430	VV	513	13391	0.36%	0.033%
22	4.448	4.430	4.466	VV	564	9133	0.25%	0.023%
23	4.473	4.466	4.491	VV	367	4728	0.13%	0.012%
24	4.542	4.491	4.555	VV	401	13158	0.36%	0.033%
25	4.561	4.555	4.611	VV	395	10834	0.29%	0.027%
26	4.630	4.611	4.651	VV	306	5700	0.16%	0.014%
27	4.684	4.651	4.714	VV	536	11606	0.32%	0.029%
28	4.726	4.714	4.760	VV	323	7090	0.19%	0.018%
29	4.773	4.760	4.832	VV	247	8833	0.24%	0.022%
30	4.845	4.832	4.865	VV	230	3665	0.10%	0.009%
31	4.878	4.865	4.891	VV	164	2451	0.07%	0.006%
32	4.910	4.891	4.932	VV	252	5084	0.14%	0.013%
33	4.940	4.932	5.041	VV	273	12592	0.34%	0.031%
34	5.058	5.041	5.085	VV	199	4451	0.12%	0.011%
35	5.095	5.085	5.102	VV	205	1730	0.05%	0.004%
36	5.108	5.102	5.131	VV	210	2758	0.08%	0.007%

					rteres			
37	5.152	5.131	5.173	VV	161	3163	0.09%	0.008%
38	5.199	5.173	5.325	VV	130882	1328490	36.15%	3.290%
39	5.339	5.325	5.398	VV	237	6399	0.17%	0.016%
40	5.419	5.398	5.461	VV	127	5269	0.14%	0.013%
41	5.505	5.461	5.549	VV	205	5690	0.15%	0.014%
42	5.628	5.549	5.655	VV	978	14985	0.41%	0.037%
43	5.667	5.655	5.694	VV	205	2651	0.07%	0.007%
44	5.701	5.694	5.738	VV	136	1985	0.05%	0.005%
45	5.746	5.738	5.758	VV	92	734	0.02%	0.002%
46	5.786	5.758	5.800	VV	117	1684	0.05%	0.004%
47	5.822	5.800	5.848	VV	282	4327	0.12%	0.011%
48	5.880	5.848	5.918	VV	245	6670	0.18%	0.017%
49	5.936	5.918	5.955	VV	221	3492	0.10%	0.009%
50	6.002	5.955	6.048	VV	241	6939	0.19%	0.017%
51	6.069	6.048	6.128	VV	158	5586	0.15%	0.014%
52	6.140	6.128	6.169	PV	162	3011	0.08%	0.007%
53	6.187	6.169	6.208	VV	166	3135	0.09%	0.008%
54	6.217	6.208	6.264	VV	185	3402	0.09%	0.008%
55	6.308	6.264	6.321	VV	177	4293	0.12%	0.011%
56	6.337	6.321	6.382	VV	280	5430	0.15%	0.013%
57	6.405	6.382	6.464	VV	1157	21188	0.58%	0.052%
58	6.484	6.464	6.541	VV	405	11393	0.31%	0.028%
59	6.567	6.541	6.595	VV	279	5976	0.16%	0.015%
60	6.657	6.595	6.671	VV	255	6778	0.18%	0.017%
61	6.697	6.671	6.731	VV	1250	16642	0.45%	0.041%
62	6.753	6.731	6.778	VV	208	4362	0.12%	0.011%
63	6.810	6.778	6.834	VV	182	4610	0.13%	0.011%
64	6.854	6.834	6.915	VV	488	14066	0.38%	0.035%
65	6.935	6.915	6.959	VV	452	7686	0.21%	0.019%
66	6.973	6.959	7.005	VV	160	3058	0.08%	0.008%
67	7.022	7.005	7.035	VV	129	1606	0.04%	0.004%
68	7.061	7.035	7.099	VV	271	4992	0.14%	0.012%
69	7.119	7.099	7.201	VV	167	4565	0.12%	0.011%
70	7.210	7.201	7.237	VV	87	1083	0.03%	0.003%
71	7.267	7.237	7.289	VV	357	4887	0.13%	0.012%
72	7.347	7.289	7.471	VV	565	25345	0.69%	0.063%
73	7.502	7.471	7.522	VV	214	5032	0.14%	0.012%
74	7.540	7.522	7.559	VV	321	4179	0.11%	0.010%
75	7.581	7.559	7.618	VV	217	4549	0.12%	0.011%
76	7.680	7.618	7.698	VV	336	7032	0.19%	0.017%
77	7.710	7.698	7.743	VV	221	3516	0.10%	0.009%
78	7.763	7.743	7.781	VV	176	2899	0.08%	0.007%
79	7.812	7.781	7.851	VV	348	7907	0.22%	0.020%
80	7.888	7.851	7.908	VV	256	5051	0.14%	0.013%
81	7.949	7.908	7.965	VV	173	4576	0.12%	0.011%
82	7.970	7.965	8.013	VV	174	3077	0.08%	0.008%
83	8.035	8.013	8.058	VV	189	2744	0.07%	0.007%
84	8.064	8.058	8.081	VV	77	916	0.02%	0.002%
85	8.230	8.211	8.255	VV	1470	30833	0.84%	0.076%
86	8.273	8.255	8.336	VV	1633	30053	0.82%	0.074%
87	8.341	8.336	8.362	VV	206	3004	0.08%	0.007%
88	8.407	8.362	8.511	VV	258	14583	0.40%	0.036%
89	8.522	8.511	8.535	VV	224	2422	0.07%	0.006%

					rteres			
90	8.544	8.535	8.555	VV	188	1909	0.05%	0.005%
91	8.589	8.555	8.613	VV	508	11448	0.31%	0.028%
92	8.627	8.613	8.639	VV	363	4625	0.13%	0.011%
93	8.659	8.639	8.675	VV	582	9336	0.25%	0.023%
94	8.697	8.675	8.796	VV	1515	40530	1.10%	0.100%
95	8.815	8.796	8.858	VV	430	9651	0.26%	0.024%
96	8.864	8.858	8.906	VV	185	3622	0.10%	0.009%
97	8.929	8.906	8.964	VV	299	5151	0.14%	0.013%
98	9.172	9.151	9.221	VV	561	13444	0.37%	0.033%
99	9.232	9.221	9.268	VV	254	5096	0.14%	0.013%
100	9.327	9.268	9.351	VV	354	8900	0.24%	0.022%
101	9.430	9.351	9.491	VV	1653	37708	1.03%	0.093%
102	9.529	9.491	9.550	VV	583	10274	0.28%	0.025%
103	9.562	9.550	9.585	VV	249	3771	0.10%	0.009%
104	9.601	9.585	9.615	VV	159	2268	0.06%	0.006%
105	9.620	9.615	9.663	VV	94	2077	0.06%	0.005%
106	9.683	9.663	9.695	VV	118	2118	0.06%	0.005%
107	9.712	9.695	9.728	VV	178	2591	0.07%	0.006%
108	9.746	9.728	9.794	VV	85	3220	0.09%	0.008%
109	9.822	9.794	9.845	VV	156	3476	0.09%	0.009%
110	9.873	9.845	9.895	VV	414	8599	0.23%	0.021%
111	9.911	9.895	9.959	VV	664	13203	0.36%	0.033%
112	9.979	9.959	10.018	VV	302	7787	0.21%	0.019%
113	10.055	10.018	10.109	VV	229	9010	0.25%	0.022%
114	10.148	10.109	10.160	VV	527	7390	0.20%	0.018%
115	10.185	10.160	10.220	VV	20327	215852	5.87%	0.535%
116	10.256	10.220	10.297	VV	75281	792354	21.56%	1.962%
117	10.310	10.297	10.391	VV	908	21385	0.58%	0.053%
118	10.416	10.391	10.443	VV	362	6219	0.17%	0.015%
119	10.466	10.443	10.506	VV	219	5138	0.14%	0.013%
120	10.532	10.506	10.545	VV	96	1269	0.03%	0.003%
121	10.585	10.545	10.601	PV	106	2464	0.07%	0.006%
122	10.661	10.601	10.686	VV	3040	36767	1.00%	0.091%
123	10.702	10.686	10.728	VV	296	6017	0.16%	0.015%
124	10.761	10.728	10.781	VV	472	9592	0.26%	0.024%
125	10.791	10.781	10.824	VV	252	4849	0.13%	0.012%
126	10.836	10.824	10.855	VV	242	2786	0.08%	0.007%
127	10.971	10.855	10.995	VV	546	22585	0.61%	0.056%
128	11.008	10.995	11.027	VV	661	9205	0.25%	0.023%
129	11.054	11.027	11.075	VV	625	11212	0.31%	0.028%
130	11.088	11.075	11.097	VV	318	3486	0.09%	0.009%
131	11.124	11.097	11.138	VV	536	9644	0.26%	0.024%
132	11.159	11.138	11.182	VV	652	11091	0.30%	0.027%
133	11.195	11.182	11.238	VV	309	6836	0.19%	0.017%
134	11.277	11.238	11.298	VV	340	8711	0.24%	0.022%
135	11.329	11.298	11.378	VV	2570	49347	1.34%	0.122%
136	11.396	11.378	11.435	VV	965	16645	0.45%	0.041%
137	11.449	11.435	11.471	VV	264	4808	0.13%	0.012%
138	11.486	11.471	11.551	VV	242	7321	0.20%	0.018%
139	11.567	11.551	11.595	PV	104	2482	0.07%	0.006%
140	11.625	11.595	11.663	VV	237	5263	0.14%	0.013%
141	11.692	11.663	11.711	VV	529	7485	0.20%	0.019%

					rteres			
142	11.733	11.711	11.744	VV	444	6104	0.17%	0.015%
143	11.760	11.744	11.788	VV	752	10861	0.30%	0.027%
144	11.806	11.788	11.813	VV	197	2309	0.06%	0.006%
145	11.847	11.813	11.892	VV	1028	20746	0.56%	0.051%
146	11.924	11.892	11.941	VV	415	7544	0.21%	0.019%
147	11.954	11.941	11.965	VV	403	4240	0.12%	0.010%
148	11.977	11.965	11.997	VV	352	4732	0.13%	0.012%
149	12.026	11.997	12.055	VV	860	16408	0.45%	0.041%
150	12.089	12.055	12.144	VV	343831	3674695	100.00%	9.100%
151	12.186	12.144	12.231	VV	1638	43190	1.18%	0.107%
152	12.246	12.231	12.264	VV	913	11717	0.32%	0.029%
153	12.277	12.264	12.294	VV	660	8439	0.23%	0.021%
154	12.309	12.294	12.337	VV	728	9189	0.25%	0.023%
155	12.372	12.337	12.395	PV	295	4644	0.13%	0.012%
156	12.430	12.395	12.455	VV	734	14538	0.40%	0.036%
157	12.487	12.455	12.505	VV	494	11278	0.31%	0.028%
158	12.529	12.505	12.578	VV	1678	30375	0.83%	0.075%
159	12.599	12.578	12.621	VV	490	8547	0.23%	0.021%
160	12.631	12.621	12.640	VV	317	2994	0.08%	0.007%
161	12.679	12.640	12.761	VV	46458	545914	14.86%	1.352%
162	12.773	12.761	12.790	VV	663	10509	0.29%	0.026%
163	12.806	12.790	12.868	VV	656	22326	0.61%	0.055%
164	12.883	12.868	12.905	VV	460	9208	0.25%	0.023%
165	12.916	12.905	12.958	VV	458	9352	0.25%	0.023%
166	13.030	12.958	13.050	VV	922	25092	0.68%	0.062%
167	13.074	13.050	13.125	VV	1285	25247	0.69%	0.063%
168	13.149	13.125	13.238	VV	2207	45229	1.23%	0.112%
169	13.283	13.238	13.297	VV	275	5669	0.15%	0.014%
170	13.338	13.297	13.373	VV	636	15826	0.43%	0.039%
171	13.391	13.373	13.421	VV	316	6574	0.18%	0.016%
172	13.450	13.421	13.470	VV	3220	40088	1.09%	0.099%
173	13.525	13.470	13.595	VV	245457	2903707	79.02%	7.191%
174	13.635	13.595	13.671	VV	400	9397	0.26%	0.023%
175	13.692	13.671	13.725	PV	759	13664	0.37%	0.034%
176	13.766	13.725	13.798	VV	623	20313	0.55%	0.050%
177	13.809	13.798	13.835	VV	491	7115	0.19%	0.018%
178	13.878	13.835	13.905	VV	233865	2577149	70.13%	6.382%
179	13.918	13.905	13.988	VV	5568	85223	2.32%	0.211%
180	14.040	13.988	14.076	VV	851	23517	0.64%	0.058%
181	14.101	14.076	14.122	VV	435	9040	0.25%	0.022%
182	14.147	14.122	14.171	VV	346	9298	0.25%	0.023%
183	14.191	14.171	14.209	VV	743	10974	0.30%	0.027%
184	14.228	14.209	14.251	VV	781	12220	0.33%	0.030%
185	14.278	14.251	14.295	VV	964	15197	0.41%	0.038%
186	14.320	14.295	14.340	VV	903	16258	0.44%	0.040%
187	14.362	14.340	14.391	VV	700	11819	0.32%	0.029%
188	14.408	14.391	14.445	VV	179	4895	0.13%	0.012%
189	14.507	14.445	14.518	VV	305	7736	0.21%	0.019%
190	14.525	14.518	14.588	VV	288	5217	0.14%	0.013%
191	14.602	14.588	14.617	PV	164	1452	0.04%	0.004%
192	14.681	14.617	14.700	VV	799	20162	0.55%	0.050%
193	14.715	14.700	14.760	VV	976	17993	0.49%	0.045%
194	14.778	14.760	14.818	VV	598	13064	0.36%	0.032%

					rteres			
195	14.842	14.818	14.861	VV	981	12266	0.33%	0.030%
196	14.881	14.861	14.898	VV	461	6744	0.18%	0.017%
197	14.917	14.898	14.933	VV	581	7629	0.21%	0.019%
198	14.960	14.933	15.001	VV	745	16022	0.44%	0.040%
199	15.021	15.001	15.048	VV	651	7910	0.22%	0.020%
200	15.083	15.048	15.105	PV	353	5649	0.15%	0.014%
201	15.153	15.105	15.173	VV	383	7086	0.19%	0.018%
202	15.215	15.173	15.231	VV	250	7231	0.20%	0.018%
203	15.238	15.231	15.263	VV	218	2863	0.08%	0.007%
204	15.335	15.263	15.354	VV	2004	34815	0.95%	0.086%
205	15.377	15.354	15.408	VV	3013	45851	1.25%	0.114%
206	15.430	15.408	15.455	VV	915	13075	0.36%	0.032%
207	15.487	15.455	15.520	VV	567	14358	0.39%	0.036%
208	15.541	15.520	15.551	VV	434	6014	0.16%	0.015%
209	15.575	15.551	15.608	VV	495	8769	0.24%	0.022%
210	15.647	15.608	15.678	PV	472	11629	0.32%	0.029%
211	15.697	15.678	15.721	VV	273	5239	0.14%	0.013%
212	15.771	15.721	15.880	VV	13519	280701	7.64%	0.695%
213	15.905	15.880	15.944	VV	1359	25732	0.70%	0.064%
214	15.988	15.944	16.031	VV	5167	89370	2.43%	0.221%
215	16.049	16.031	16.088	VV	585	11299	0.31%	0.028%
216	16.173	16.088	16.199	PV	703	19329	0.53%	0.048%
217	16.223	16.199	16.238	VV	416	7682	0.21%	0.019%
218	16.249	16.238	16.268	VV	293	3640	0.10%	0.009%
219	16.307	16.268	16.328	VV	587	14549	0.40%	0.036%
220	16.369	16.328	16.388	VV	798	17359	0.47%	0.043%
221	16.407	16.388	16.429	VV	1507	22137	0.60%	0.055%
222	16.466	16.429	16.506	VV	799	21095	0.57%	0.052%
223	16.545	16.506	16.567	VV	378	7705	0.21%	0.019%
224	16.620	16.567	16.655	PV	563	16601	0.45%	0.041%
225	16.713	16.655	16.735	VV	1155	21220	0.58%	0.053%
226	16.758	16.735	16.768	VV	548	8018	0.22%	0.020%
227	16.794	16.768	16.840	VV	1926	45731	1.24%	0.113%
228	16.859	16.840	16.868	VV	611	6499	0.18%	0.016%
229	16.895	16.868	16.940	VV	3039	53436	1.45%	0.132%
230	16.976	16.940	16.999	VV	1272	19657	0.53%	0.049%
231	17.025	16.999	17.067	VV	2476	37517	1.02%	0.093%
232	17.088	17.067	17.108	VV	651	7522	0.20%	0.019%
233	17.220	17.108	17.248	PV	1309	29790	0.81%	0.074%
234	17.278	17.248	17.299	VV	1635	19706	0.54%	0.049%
235	17.360	17.299	17.385	PV	2452	45516	1.24%	0.113%
236	17.410	17.385	17.498	VV	8202	130346	3.55%	0.323%
237	17.515	17.498	17.531	PV	416	3391	0.09%	0.008%
238	17.774	17.531	17.784	VV	1635	122631	3.34%	0.304%
239	17.809	17.784	17.845	VV	4967	83043	2.26%	0.206%
240	17.865	17.845	17.883	VV	2175	31907	0.87%	0.079%
241	17.896	17.883	17.923	VV	1687	23525	0.64%	0.058%
242	17.948	17.923	17.975	VV	1613	25151	0.68%	0.062%
243	18.002	17.975	18.015	VV	798	12470	0.34%	0.031%
244	18.032	18.015	18.047	VV	587	8911	0.24%	0.022%
245	18.066	18.047	18.084	VV	521	6725	0.18%	0.017%
246	18.135	18.084	18.148	PV	684	11506	0.31%	0.028%

					rteres			
247	18.209	18.148	18.223	VV	2023	50752	1.38%	0.126%
248	18.250	18.223	18.293	VV	5272	100010	2.72%	0.248%
249	18.338	18.293	18.368	VV	1757	41695	1.13%	0.103%
250	18.419	18.368	18.434	VV	2231	52154	1.42%	0.129%
251	18.448	18.434	18.478	VV	1919	36944	1.01%	0.091%
252	18.506	18.478	18.531	VV	955	23948	0.65%	0.059%
253	18.622	18.531	18.654	PV	8037	213891	5.82%	0.530%
254	18.675	18.654	18.710	VV	8812	154236	4.20%	0.382%
255	18.785	18.710	18.841	VV	3522	128860	3.51%	0.319%
256	18.864	18.841	18.880	VV	1248	24359	0.66%	0.060%
257	18.907	18.880	18.931	VV	2554	50619	1.38%	0.125%
258	18.942	18.931	18.967	VV	1461	26900	0.73%	0.067%
259	19.083	18.967	19.123	VV	7770	240980	6.56%	0.597%
260	19.208	19.123	19.226	VV	3377	152753	4.16%	0.378%
261	19.258	19.226	19.292	VV	3851	115161	3.13%	0.285%
262	19.368	19.292	19.395	VV	3962	175623	4.78%	0.435%
263	19.449	19.395	19.461	VV	8544	219803	5.98%	0.544%
264	19.480	19.461	19.521	VV	9368	256147	6.97%	0.634%
265	19.538	19.521	19.551	VV	5721	94763	2.58%	0.235%
266	19.611	19.551	19.650	VV	7054	364439	9.92%	0.902%
267	19.683	19.650	19.699	VV	7410	197439	5.37%	0.489%
268	19.715	19.699	19.734	VV	7017	134270	3.65%	0.333%
269	19.749	19.734	19.775	VV	6987	163520	4.45%	0.405%
270	19.791	19.775	19.827	VV	6913	202979	5.52%	0.503%
271	19.869	19.827	19.898	VV	10129	337717	9.19%	0.836%
272	20.014	19.898	20.034	VV	10020	719745	19.59%	1.782%
273	20.062	20.034	20.090	VV	11389	352950	9.60%	0.874%
274	20.164	20.090	20.196	VV	13069	752008	20.46%	1.862%
275	20.246	20.196	20.285	VV	17129	745922	20.30%	1.847%
276	20.452	20.285	20.464	VV	17187	1559876	42.45%	3.863%
277	20.490	20.464	20.511	VV	19011	511148	13.91%	1.266%
278	20.536	20.511	20.570	VV	18254	635395	17.29%	1.573%
279	20.608	20.570	20.648	VV	21062	887473	24.15%	2.198%
280	20.709	20.648	20.745	VV	21705	1177839	32.05%	2.917%
281	20.782	20.745	20.823	VV	21758	948028	25.80%	2.348%
282	20.846	20.823	20.858	VV	20524	420566	11.44%	1.041%
283	20.881	20.858	20.902	VV	20429	524703	14.28%	1.299%
284	20.976	20.902	21.031	VV	21291	1583664	43.10%	3.922%
285	21.039	21.031	21.088	VV	20745	669743	18.23%	1.659%
286	21.124	21.088	21.141	VV	19527	607391	16.53%	1.504%
287	21.150	21.141	21.171	VV	17696	315222	8.58%	0.781%
288	21.185	21.171	21.195	VV	17909	246007	6.69%	0.609%
289	21.223	21.195	21.249	VV	18634	594971	16.19%	1.473%
290	21.258	21.249	21.271	VV	17721	225409	6.13%	0.558%
291	21.279	21.271	21.297	VV	17932	267357	7.28%	0.662%
292	21.309	21.297	21.328	VV	17803	324050	8.82%	0.802%
293	21.342	21.328	21.353	VV	17281	253810	6.91%	0.629%
294	21.357	21.353	21.368	VV	16915	151458	4.12%	0.375%
295	21.381	21.368	21.497	VV	16840	1078915	29.36%	2.672%
296	21.604	21.497	21.640	VV	12403	1035898	28.19%	2.565%
297	21.651	21.640	21.662	VV	11421	145794	3.97%	0.361%
298	21.672	21.662	21.695	VV	11827	218650	5.95%	0.541%
299	21.706	21.695	21.711	VV	11081	105123	2.86%	0.260%

					rters			
300	21.722	21.711	21.753	VV	11416	263663	7.18%	0.653%
301	21.767	21.753	21.781	VV	9881	164659	4.48%	0.408%
302	21.793	21.781	21.817	VV	9237	190295	5.18%	0.471%
303	21.840	21.817	21.860	VV	9205	225203	6.13%	0.558%
304	21.910	21.860	21.924	VV	9278	332026	9.04%	0.822%
305	21.943	21.924	21.970	VV	8720	230619	6.28%	0.571%
306	21.981	21.970	22.021	VV	8239	208134	5.66%	0.515%
307	22.028	22.021	22.042	VV	5645	65876	1.79%	0.163%
308	22.051	22.042	22.072	VV	4990	76798	2.09%	0.190%
309	22.099	22.072	22.117	VV	4205	108399	2.95%	0.268%
310	22.126	22.117	22.188	VV	3919	130181	3.54%	0.322%
311	22.235	22.188	22.265	VV	3229	91944	2.50%	0.228%
312	22.314	22.265	22.326	VV	2128	58465	1.59%	0.145%
313	22.332	22.326	22.355	VV	1301	13777	0.37%	0.034%
					Sum of corrected areas:		40381406	

Aliphatic EPH 062725.M Tue Jul 22 02:04:38 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 6-5	SDG No.:	Q2651
Lab Sample ID:	Q2651-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/22/25 9:24	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	17.8		1	1.26	2.13	mg/kg	FE054955.D
Aliphatic C9-C28	Aliphatic C9-C28	2.13	J	1	0.97	4.25	mg/kg	FE054955.D
Total AliphaticEPH	Total AliphaticEPH	19.9			2.23	6.38	mg/kg	
Total EPH	Total EPH	19.9			2.23	6.38	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 6-5	SDG No.:	Q2651
Lab Sample ID:	Q2651-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054955.D	1	07/21/25	07/22/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.13	J	0.97	4.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	17.8		1.26	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	23.0		40 - 140	46%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.0		40 - 140	52%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2651-02	Acq On:	22 Jul 2025 09:24
Client Sample ID:	MH 6-5	Operator:	YP\AJ
Data file:	FE054955.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	3.325	6.960	363690	2.673	300	ug/ml
Aliphatic C12-C16	6.961	10.412	864727	6.152	200	ug/ml
Aliphatic C16-C21	10.413	13.791	1243564	8.612	300	ug/ml
Aliphatic C21-C28	13.792	17.461	1816024	12.554	400	ug/ml
Aliphatic C28-C40	17.462	22.488	34816053	251.112	600	ug/ml
Aliphatic EPH	3.325	22.488	39104058	281.104		ug/ml
ortho-Terphenyl (SURR)	12.093	12.093	4222881	26		ug/ml
1-chlorooctadecane (SURR)	13.528	13.528	2900289	22.96		ug/ml
Aliphatic C9-C28	3.325	17.461	4288005	29.991	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
 Data File : FE054955.D
 Signal(s) : FID1B.ch
 Acq On : 22 Jul 2025 09:24
 Operator : YP\AJ
 Sample : Q2651-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 MH 6-5

Integration File: autoint1.e
 Quant Time: Jul 23 04:28:13 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.093	4222881	26.004 ug/ml
Spiked Amount 50.000		Recovery =	52.01%
12) S 1-chlorooctadecane (S...	13.528	2900289	22.965 ug/ml
Spiked Amount 50.000		Recovery =	45.93%

Target Compounds

(f)=RT Delta > 1/2 Window

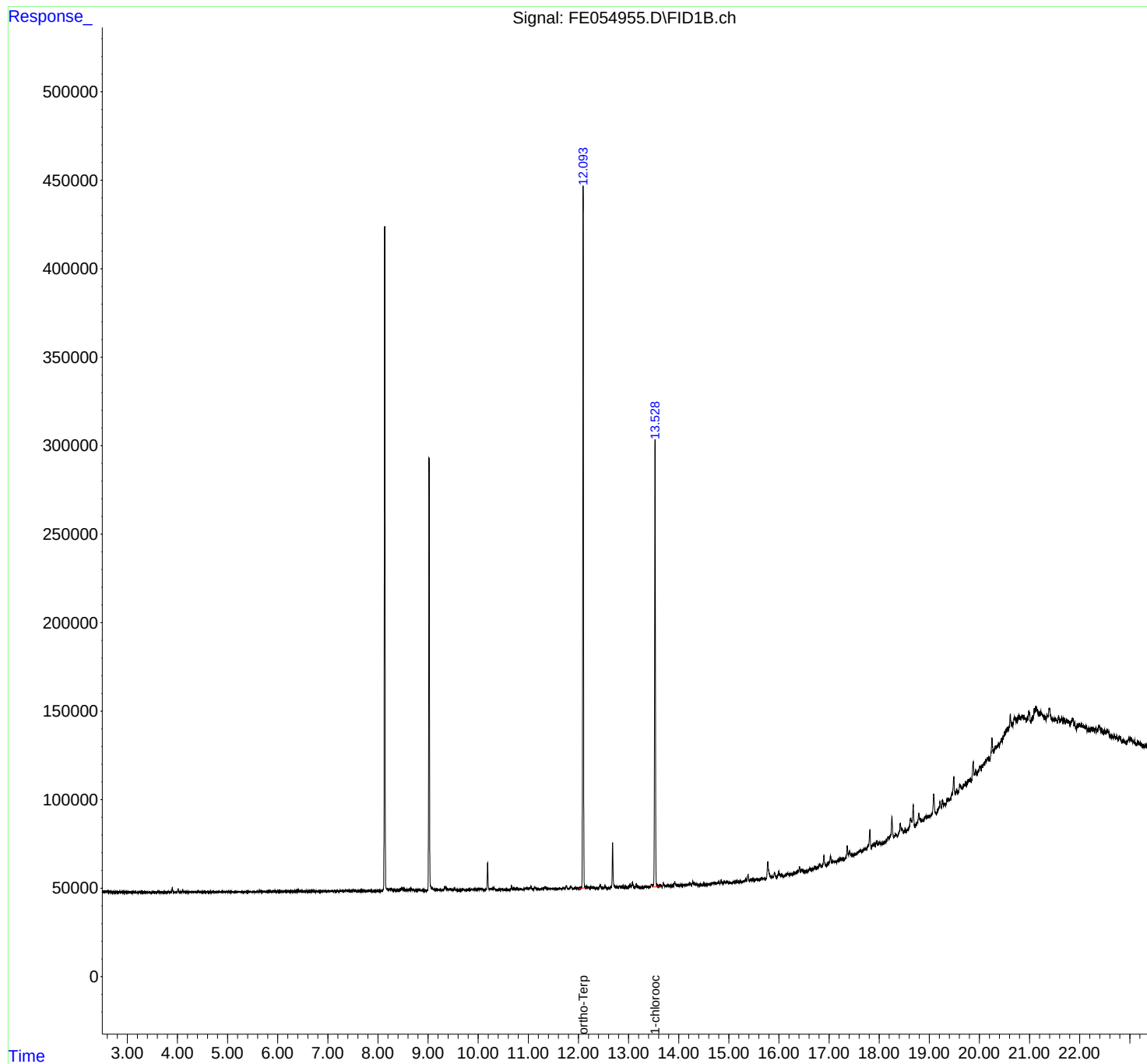
(m)=manual int.

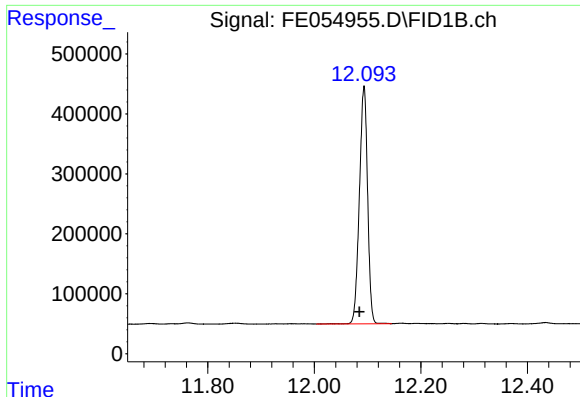
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
Data File : FE054955.D
Signal(s) : FID1B.ch
Acq On : 22 Jul 2025 09:24
Operator : YP\AJ
Sample : Q2651-02
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
MH 6-5

Integration File: autoint1.e
Quant Time: Jul 23 04:28:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 2025
Response via : Initial Calibration
Integrator: ChemStation

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

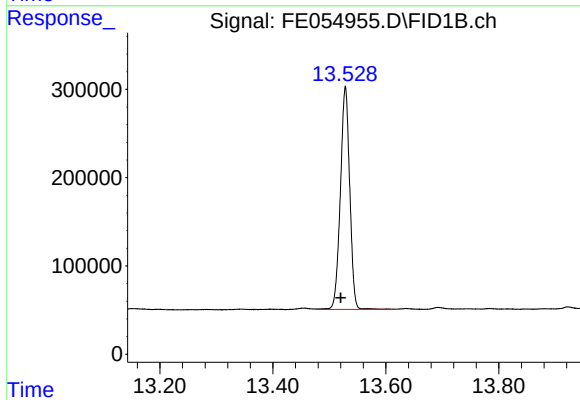




#9 ortho-Terphenyl (SURR)

R.T.: 12.093 min
Delta R.T.: 0.008 min
Response: 4222881
Conc: 26.00 ug/ml

Instrument :
FID_E
ClientSampleId :
MH 6-5



#12 1-chlorooctadecane (SURR)

R.T.: 13.528 min
Delta R.T.: 0.008 min
Response: 2900289
Conc: 22.96 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
 Data File : FE054955.D
 Signal(s) : FID1B.ch
 Acq On : 22 Jul 2025 09:24
 Sample : Q2651-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	2.848	2.804	2.894	BV	333	5512	0.13%	0.012%
2	2.915	2.894	2.934	PV	147	2469	0.06%	0.005%
3	2.971	2.934	2.988	VV	153	3243	0.08%	0.007%
4	2.993	2.988	3.048	VV	109	2072	0.05%	0.004%
5	3.064	3.048	3.091	PV	92	1751	0.04%	0.004%
6	3.095	3.091	3.130	VV	99	1253	0.03%	0.003%
7	3.160	3.130	3.194	VV	209	3674	0.09%	0.008%
8	3.204	3.194	3.238	PV	109	1404	0.03%	0.003%
9	3.251	3.238	3.261	VV	175	1680	0.04%	0.004%
10	3.274	3.261	3.301	VV	299	4672	0.11%	0.010%
11	3.310	3.301	3.354	VV	219	3621	0.09%	0.008%
12	3.367	3.354	3.390	PV	96	835	0.02%	0.002%
13	3.425	3.390	3.472	VV	253	4412	0.10%	0.010%
14	3.479	3.472	3.498	VV	62	649	0.02%	0.001%
15	3.506	3.498	3.534	VV	105	668	0.02%	0.001%
16	3.541	3.534	3.552	VV	95	739	0.02%	0.002%
17	3.558	3.552	3.584	VV	75	925	0.02%	0.002%
18	3.611	3.584	3.701	VV	810	10788	0.25%	0.023%
19	3.711	3.701	3.720	VV	96	788	0.02%	0.002%
20	3.732	3.720	3.742	VV	174	1266	0.03%	0.003%
21	3.750	3.742	3.758	VV	77	480	0.01%	0.001%
22	3.806	3.758	3.836	PV	269	5690	0.13%	0.012%
23	3.861	3.836	3.874	VV	232	3566	0.08%	0.008%
24	3.898	3.874	3.948	VV	2835	29835	0.70%	0.064%
25	3.952	3.948	3.961	VV	95	401	0.01%	0.001%
26	3.967	3.961	3.977	VV	56	435	0.01%	0.001%
27	4.014	3.977	4.064	VV	2143	21230	0.50%	0.046%
28	4.072	4.064	4.081	VV	110	824	0.02%	0.002%
29	4.105	4.081	4.194	VV	1670	21252	0.50%	0.046%
30	4.227	4.194	4.271	VV	179	5819	0.14%	0.013%
31	4.293	4.271	4.308	VV	191	3764	0.09%	0.008%
32	4.315	4.308	4.391	VV	242	7564	0.18%	0.016%
33	4.414	4.391	4.432	VV	365	6123	0.14%	0.013%
34	4.452	4.432	4.494	VV	378	8090	0.19%	0.017%
35	4.498	4.494	4.514	VV	158	1418	0.03%	0.003%
36	4.521	4.514	4.574	VV	160	4928	0.12%	0.011%

					rteres			
37	4.596	4.574	4.661	VV	174	6308	0.15%	0.014%
38	4.687	4.661	4.721	VV	357	5791	0.14%	0.013%
39	4.781	4.721	4.797	VV	227	6370	0.15%	0.014%
40	4.811	4.797	4.830	VV	204	2718	0.06%	0.006%
41	4.859	4.830	4.874	VV	186	3238	0.08%	0.007%
42	4.914	4.874	4.931	VV	260	4713	0.11%	0.010%
43	4.941	4.931	4.954	PV	133	1466	0.03%	0.003%
44	4.968	4.954	4.987	VV	201	2711	0.06%	0.006%
45	5.007	4.987	5.045	VV	158	4389	0.10%	0.009%
46	5.058	5.045	5.100	VV	154	4229	0.10%	0.009%
47	5.109	5.100	5.134	VV	151	2439	0.06%	0.005%
48	5.157	5.134	5.168	VV	193	2600	0.06%	0.006%
49	5.172	5.168	5.177	VV	140	669	0.02%	0.001%
50	5.184	5.177	5.194	VV	163	1079	0.03%	0.002%
51	5.201	5.194	5.239	VV	142	2859	0.07%	0.006%
52	5.252	5.239	5.272	VV	108	1670	0.04%	0.004%
53	5.285	5.272	5.308	VV	88	1476	0.03%	0.003%
54	5.345	5.308	5.378	VV	173	4376	0.10%	0.009%
55	5.398	5.378	5.485	VV	170	7312	0.17%	0.016%
56	5.506	5.485	5.574	VV	222	5634	0.13%	0.012%
57	5.633	5.574	5.698	VV	714	16246	0.38%	0.035%
58	5.709	5.698	5.758	VV	222	4739	0.11%	0.010%
59	5.789	5.758	5.802	VV	150	2751	0.06%	0.006%
60	5.829	5.802	5.854	VV	360	6622	0.16%	0.014%
61	5.888	5.854	5.909	VV	245	6577	0.15%	0.014%
62	5.936	5.909	5.984	VV	260	7971	0.19%	0.017%
63	6.020	5.984	6.051	VV	270	6077	0.14%	0.013%
64	6.077	6.051	6.115	VV	185	5295	0.12%	0.011%
65	6.123	6.115	6.134	VV	135	1395	0.03%	0.003%
66	6.147	6.134	6.171	VV	216	2901	0.07%	0.006%
67	6.183	6.171	6.199	VV	219	2394	0.06%	0.005%
68	6.214	6.199	6.291	VV	221	7427	0.17%	0.016%
69	6.308	6.291	6.327	VV	181	2778	0.07%	0.006%
70	6.361	6.327	6.381	VV	234	4779	0.11%	0.010%
71	6.410	6.381	6.477	VV	1006	20284	0.48%	0.044%
72	6.491	6.477	6.541	VV	261	6159	0.15%	0.013%
73	6.565	6.541	6.623	VV	237	7061	0.17%	0.015%
74	6.655	6.623	6.677	PV	175	3730	0.09%	0.008%
75	6.702	6.677	6.734	VV	790	11445	0.27%	0.025%
76	6.757	6.734	6.767	VV	207	2379	0.06%	0.005%
77	6.782	6.767	6.811	VV	233	3696	0.09%	0.008%
78	6.814	6.811	6.847	VV	161	2014	0.05%	0.004%
79	6.867	6.847	6.894	VV	260	4363	0.10%	0.009%
80	6.941	6.894	6.967	VV	385	10071	0.24%	0.022%
81	6.978	6.967	7.001	VV	253	3545	0.08%	0.008%
82	7.019	7.001	7.048	VV	205	4496	0.11%	0.010%
83	7.067	7.048	7.091	VV	301	5136	0.12%	0.011%
84	7.142	7.091	7.168	VV	220	7444	0.18%	0.016%
85	7.181	7.168	7.211	VV	215	4445	0.10%	0.010%
86	7.218	7.211	7.226	VV	166	1195	0.03%	0.003%
87	7.271	7.226	7.291	VV	451	9333	0.22%	0.020%
88	7.308	7.291	7.321	VV	204	3021	0.07%	0.007%
89	7.354	7.321	7.390	VV	643	16404	0.39%	0.035%

					rteres			
90	7.407	7.390	7.487	VV	365	14690	0.35%	0.032%
91	7.508	7.487	7.528	VV	666	9254	0.22%	0.020%
92	7.544	7.528	7.569	VV	250	4860	0.11%	0.010%
93	7.601	7.569	7.631	VV	235	5951	0.14%	0.013%
94	7.648	7.631	7.671	VV	564	6646	0.16%	0.014%
95	7.684	7.671	7.704	VV	333	4359	0.10%	0.009%
96	7.717	7.704	7.748	VV	193	3547	0.08%	0.008%
97	7.778	7.748	7.791	PV	131	2135	0.05%	0.005%
98	7.814	7.791	7.858	VV	333	6693	0.16%	0.014%
99	7.867	7.858	7.901	VV	138	2623	0.06%	0.006%
100	7.908	7.901	7.934	VV	125	1671	0.04%	0.004%
101	7.948	7.934	7.969	VV	211	1973	0.05%	0.004%
102	7.994	7.969	8.019	VV	224	3373	0.08%	0.007%
103	8.042	8.019	8.071	VV	170	3071	0.07%	0.007%
104	8.078	8.071	8.088	VV	101	743	0.02%	0.002%
105	8.247	8.221	8.260	VV	1005	21496	0.51%	0.046%
106	8.276	8.260	8.330	VV	1341	25424	0.60%	0.055%
107	8.346	8.330	8.362	VV	344	5549	0.13%	0.012%
108	8.391	8.362	8.427	VV	374	13324	0.31%	0.029%
109	8.478	8.427	8.501	VV	1390	38532	0.91%	0.083%
110	8.507	8.501	8.560	VV	1073	25687	0.61%	0.055%
111	8.593	8.560	8.614	VV	723	18539	0.44%	0.040%
112	8.630	8.614	8.646	VV	1084	14921	0.35%	0.032%
113	8.662	8.646	8.684	VV	1376	20100	0.47%	0.043%
114	8.703	8.684	8.767	VV	668	18918	0.45%	0.041%
115	8.811	8.767	8.854	VV	447	15396	0.36%	0.033%
116	8.868	8.854	8.919	VV	239	8259	0.19%	0.018%
117	8.928	8.919	8.972	VV	232	4702	0.11%	0.010%
118	9.175	9.149	9.224	VV	785	22619	0.53%	0.049%
119	9.242	9.224	9.286	VV	556	11438	0.27%	0.025%
120	9.334	9.286	9.381	VV	2101	58963	1.39%	0.127%
121	9.394	9.381	9.406	VV	763	9836	0.23%	0.021%
122	9.446	9.406	9.508	VV	920	36366	0.86%	0.079%
123	9.530	9.508	9.553	VV	1055	15406	0.36%	0.033%
124	9.572	9.553	9.628	VV	635	11895	0.28%	0.026%
125	9.689	9.628	9.706	VV	590	12047	0.28%	0.026%
126	9.718	9.706	9.758	VV	445	6398	0.15%	0.014%
127	9.765	9.758	9.775	VV	153	1246	0.03%	0.003%
128	9.828	9.775	9.851	VV	566	11638	0.27%	0.025%
129	9.873	9.851	9.891	VV	591	10862	0.26%	0.023%
130	9.914	9.891	9.963	VV	803	21973	0.52%	0.047%
131	9.992	9.963	10.021	VV	798	17926	0.42%	0.039%
132	10.035	10.021	10.056	VV	603	9882	0.23%	0.021%
133	10.067	10.056	10.124	VV	440	13127	0.31%	0.028%
134	10.151	10.124	10.164	VV	728	9766	0.23%	0.021%
135	10.188	10.164	10.220	VV	15437	168258	3.96%	0.363%
136	10.250	10.220	10.263	VV	744	17081	0.40%	0.037%
137	10.314	10.263	10.384	VV	1272	40545	0.95%	0.088%
138	10.424	10.384	10.448	VV	403	7078	0.17%	0.015%
139	10.467	10.448	10.529	VV	673	11964	0.28%	0.026%
140	10.597	10.529	10.609	PV	125	3019	0.07%	0.007%
141	10.665	10.609	10.687	VV	2133	30064	0.71%	0.065%

					rteres			
142	10.707	10.687	10.727	VV	843	13292	0.31%	0.029%
143	10.769	10.727	10.821	VV	670	22950	0.54%	0.050%
144	10.843	10.821	10.884	VV	320	8645	0.20%	0.019%
145	10.944	10.884	10.958	VV	751	19054	0.45%	0.041%
146	10.975	10.958	10.998	VV	907	18401	0.43%	0.040%
147	11.013	10.998	11.024	VV	828	10607	0.25%	0.023%
148	11.054	11.024	11.100	VV	1651	33647	0.79%	0.073%
149	11.130	11.100	11.184	VV	1424	31579	0.74%	0.068%
150	11.193	11.184	11.216	VV	280	3693	0.09%	0.008%
151	11.235	11.216	11.245	VV	199	2199	0.05%	0.005%
152	11.273	11.245	11.302	VV	697	13442	0.32%	0.029%
153	11.332	11.302	11.381	VV	1485	36773	0.87%	0.079%
154	11.401	11.381	11.421	VV	703	11657	0.27%	0.025%
155	11.453	11.421	11.485	VV	482	13705	0.32%	0.030%
156	11.497	11.485	11.526	VV	389	7016	0.17%	0.015%
157	11.541	11.526	11.557	VV	260	3453	0.08%	0.007%
158	11.567	11.557	11.590	VV	149	2501	0.06%	0.005%
159	11.618	11.590	11.662	VV	581	10932	0.26%	0.024%
160	11.692	11.662	11.714	PV	1077	16684	0.39%	0.036%
161	11.732	11.714	11.741	VV	695	7882	0.19%	0.017%
162	11.762	11.741	11.802	VV	2039	30565	0.72%	0.066%
163	11.852	11.802	11.885	VV	1528	28333	0.67%	0.061%
164	11.928	11.885	11.941	VV	516	7221	0.17%	0.016%
165	11.956	11.941	11.971	VV	560	7606	0.18%	0.016%
166	11.981	11.971	12.003	VV	493	6639	0.16%	0.014%
167	12.031	12.003	12.054	VV	578	11868	0.28%	0.026%
168	12.093	12.054	12.151	VV	398237	4245675	100.00%	9.172%
169	12.163	12.151	12.179	VV	1373	17274	0.41%	0.037%
170	12.192	12.179	12.238	VV	1040	25029	0.59%	0.054%
171	12.252	12.238	12.268	VV	968	11959	0.28%	0.026%
172	12.281	12.268	12.298	VV	890	9933	0.23%	0.021%
173	12.314	12.298	12.348	VV	914	10504	0.25%	0.023%
174	12.370	12.348	12.392	PV	731	8566	0.20%	0.019%
175	12.434	12.392	12.463	PV	2270	37790	0.89%	0.082%
176	12.478	12.463	12.508	VV	488	9578	0.23%	0.021%
177	12.530	12.508	12.588	VV	1375	23824	0.56%	0.051%
178	12.603	12.588	12.623	VV	367	4833	0.11%	0.010%
179	12.681	12.623	12.762	VV	25831	327994	7.73%	0.709%
180	12.779	12.762	12.793	VV	766	11430	0.27%	0.025%
181	12.812	12.793	12.844	VV	1015	21293	0.50%	0.046%
182	12.850	12.844	12.861	VV	574	5081	0.12%	0.011%
183	12.891	12.861	12.909	VV	689	16486	0.39%	0.036%
184	12.923	12.909	12.961	VV	768	13975	0.33%	0.030%
185	12.978	12.961	12.987	VV	351	4251	0.10%	0.009%
186	13.036	12.987	13.054	VV	1492	32905	0.78%	0.071%
187	13.077	13.054	13.124	VV	3045	50588	1.19%	0.109%
188	13.152	13.124	13.186	VV	1419	29602	0.70%	0.064%
189	13.197	13.186	13.237	VV	611	7992	0.19%	0.017%
190	13.255	13.237	13.268	PV	197	1902	0.04%	0.004%
191	13.281	13.268	13.311	VV	319	4487	0.11%	0.010%
192	13.344	13.311	13.374	VV	647	11415	0.27%	0.025%
193	13.397	13.374	13.423	VV	503	9570	0.23%	0.021%
194	13.455	13.423	13.477	VV	1674	28069	0.66%	0.061%

					rteres			
195	13.528	13.477	13.614	VV	251255	2909929	68.54%	6.286%
196	13.637	13.614	13.668	VV	1066	16845	0.40%	0.036%
197	13.693	13.668	13.733	VV	2104	36506	0.86%	0.079%
198	13.744	13.733	13.768	VV	596	9912	0.23%	0.021%
199	13.784	13.768	13.803	VV	821	11502	0.27%	0.025%
200	13.817	13.803	13.831	VV	394	4957	0.12%	0.011%
201	13.847	13.831	13.861	PV	245	2894	0.07%	0.006%
202	13.881	13.861	13.897	VV	567	7941	0.19%	0.017%
203	13.923	13.897	14.017	VV	2493	55800	1.31%	0.121%
204	14.043	14.017	14.069	VV	631	13295	0.31%	0.029%
205	14.091	14.069	14.118	VV	530	12259	0.29%	0.026%
206	14.144	14.118	14.171	VV	499	13623	0.32%	0.029%
207	14.195	14.171	14.210	VV	650	11622	0.27%	0.025%
208	14.227	14.210	14.258	VV	1142	18306	0.43%	0.040%
209	14.281	14.258	14.336	VV	2180	51896	1.22%	0.112%
210	14.346	14.336	14.385	VV	875	15583	0.37%	0.034%
211	14.412	14.385	14.420	VV	290	4345	0.10%	0.009%
212	14.435	14.420	14.463	VV	317	4481	0.11%	0.010%
213	14.475	14.463	14.481	PV	185	1086	0.03%	0.002%
214	14.506	14.481	14.554	VV	572	14710	0.35%	0.032%
215	14.577	14.554	14.593	VV	314	3744	0.09%	0.008%
216	14.608	14.593	14.618	VV	199	2294	0.05%	0.005%
217	14.716	14.618	14.737	VV	996	41232	0.97%	0.089%
218	14.787	14.737	14.822	VV	905	29503	0.69%	0.064%
219	14.846	14.822	14.866	VV	2192	28253	0.67%	0.061%
220	14.883	14.866	14.894	VV	682	9287	0.22%	0.020%
221	14.921	14.894	14.938	VV	751	15410	0.36%	0.033%
222	14.965	14.938	15.008	VV	1207	25365	0.60%	0.055%
223	15.023	15.008	15.044	VV	460	5585	0.13%	0.012%
224	15.052	15.044	15.063	VV	149	1251	0.03%	0.003%
225	15.082	15.063	15.101	PV	419	5021	0.12%	0.011%
226	15.117	15.101	15.134	VV	371	6285	0.15%	0.014%
227	15.155	15.134	15.174	VV	645	9946	0.23%	0.021%
228	15.191	15.174	15.208	VV	332	4600	0.11%	0.010%
229	15.219	15.208	15.236	VV	327	3847	0.09%	0.008%
230	15.246	15.236	15.261	VV	228	2865	0.07%	0.006%
231	15.274	15.261	15.290	VV	303	3669	0.09%	0.008%
232	15.338	15.290	15.357	VV	1474	29105	0.69%	0.063%
233	15.383	15.357	15.409	VV	3661	56708	1.34%	0.123%
234	15.432	15.409	15.454	VV	1193	16712	0.39%	0.036%
235	15.475	15.454	15.518	VV	947	19479	0.46%	0.042%
236	15.544	15.518	15.566	VV	938	18399	0.43%	0.040%
237	15.577	15.566	15.611	VV	671	10744	0.25%	0.023%
238	15.652	15.611	15.677	PV	994	23796	0.56%	0.051%
239	15.693	15.677	15.708	VV	608	8396	0.20%	0.018%
240	15.715	15.708	15.725	VV	446	3911	0.09%	0.008%
241	15.734	15.725	15.748	VV	351	4142	0.10%	0.009%
242	15.776	15.748	15.848	VV	9599	219677	5.17%	0.475%
243	15.862	15.848	15.881	VV	892	12751	0.30%	0.028%
244	15.911	15.881	15.947	VV	3022	53836	1.27%	0.116%
245	15.993	15.947	16.034	VV	3019	67804	1.60%	0.146%
246	16.052	16.034	16.091	VV	1030	18607	0.44%	0.040%

					rteres			
247	16.180	16.091	16.199	PV	1308	32041	0.75%	0.069%
248	16.222	16.199	16.244	VV	596	10613	0.25%	0.023%
249	16.265	16.244	16.273	VV	339	4040	0.10%	0.009%
250	16.302	16.273	16.325	VV	986	18473	0.44%	0.040%
251	16.375	16.325	16.387	VV	1425	30682	0.72%	0.066%
252	16.411	16.387	16.433	VV	3600	56239	1.32%	0.121%
253	16.453	16.433	16.510	VV	1521	37920	0.89%	0.082%
254	16.522	16.510	16.528	VV	622	3952	0.09%	0.009%
255	16.545	16.528	16.564	VV	631	7587	0.18%	0.016%
256	16.615	16.564	16.637	PV	1377	26860	0.63%	0.058%
257	16.651	16.637	16.665	VV	611	6385	0.15%	0.014%
258	16.715	16.665	16.748	VV	1414	30177	0.71%	0.065%
259	16.764	16.748	16.773	VV	719	7783	0.18%	0.017%
260	16.817	16.773	16.848	VV	1846	44140	1.04%	0.095%
261	16.897	16.848	16.944	PV	5846	97277	2.29%	0.210%
262	17.029	16.944	17.066	VV	4848	107662	2.54%	0.233%
263	17.089	17.066	17.106	VV	1307	23264	0.55%	0.050%
264	17.118	17.106	17.150	VV	862	15944	0.38%	0.034%
265	17.198	17.150	17.208	PV	1210	22359	0.53%	0.048%
266	17.228	17.208	17.266	VV	1681	31404	0.74%	0.068%
267	17.281	17.266	17.299	VV	507	7560	0.18%	0.016%
268	17.363	17.299	17.385	PV	6861	112285	2.64%	0.243%
269	17.410	17.385	17.428	VV	3276	65357	1.54%	0.141%
270	17.439	17.428	17.460	VV	1437	20998	0.49%	0.045%
271	17.477	17.460	17.493	VV	914	11050	0.26%	0.024%
272	17.517	17.493	17.527	VV	752	7610	0.18%	0.016%
273	17.572	17.527	17.581	VV	1151	22096	0.52%	0.048%
274	17.628	17.581	17.654	VV	1794	47933	1.13%	0.104%
275	17.699	17.654	17.716	VV	1703	37746	0.89%	0.082%
276	17.778	17.716	17.786	VV	2673	64277	1.51%	0.139%
277	17.814	17.786	17.843	VV	11062	169348	3.99%	0.366%
278	17.868	17.843	17.886	VV	2299	39140	0.92%	0.085%
279	17.905	17.886	17.919	VV	2351	33539	0.79%	0.072%
280	17.951	17.919	17.974	VV	3288	61741	1.45%	0.133%
281	18.005	17.974	18.023	VV	2129	38481	0.91%	0.083%
282	18.039	18.023	18.054	VV	1485	16956	0.40%	0.037%
283	18.074	18.054	18.088	VV	1236	13903	0.33%	0.030%
284	18.107	18.088	18.124	PV	1466	15978	0.38%	0.035%
285	18.175	18.124	18.204	VV	2952	77843	1.83%	0.168%
286	18.255	18.204	18.290	VV	12888	251906	5.93%	0.544%
287	18.322	18.290	18.334	VV	2543	38602	0.91%	0.083%
288	18.346	18.334	18.362	VV	1587	19615	0.46%	0.042%
289	18.421	18.362	18.447	PV	6840	155578	3.66%	0.336%
290	18.457	18.447	18.500	VV	3066	60715	1.43%	0.131%
291	18.517	18.500	18.548	VV	1875	29132	0.69%	0.063%
292	18.628	18.548	18.654	VV	6782	194521	4.58%	0.420%
293	18.679	18.654	18.711	VV	12920	216785	5.11%	0.468%
294	18.791	18.711	18.815	VV	7109	187745	4.42%	0.406%
295	18.823	18.815	18.838	VV	3547	36351	0.86%	0.079%
296	18.854	18.838	18.879	VV	2340	47903	1.13%	0.103%
297	18.908	18.879	18.928	VV	3139	67301	1.59%	0.145%
298	18.948	18.928	18.971	VV	3368	70744	1.67%	0.153%
299	18.992	18.971	19.002	VV	2847	42196	0.99%	0.091%

					rteres			
300	19.089	19.002	19.143	VV	13474	371578	8.75%	0.803%
301	19.169	19.143	19.176	VV	3895	56030	1.32%	0.121%
302	19.214	19.176	19.244	VV	6968	194581	4.58%	0.420%
303	19.264	19.244	19.287	VV	7799	149166	3.51%	0.322%
304	19.311	19.287	19.328	VV	5028	107328	2.53%	0.232%
305	19.351	19.328	19.360	VV	6346	100553	2.37%	0.217%
306	19.375	19.360	19.408	VV	6541	170746	4.02%	0.369%
307	19.488	19.408	19.521	VV	16867	625815	14.74%	1.352%
308	19.544	19.521	19.562	VV	9221	197435	4.65%	0.427%
309	19.604	19.562	19.650	VV	11084	476639	11.23%	1.030%
310	19.675	19.650	19.684	VV	9688	182908	4.31%	0.395%
311	19.728	19.684	19.748	VV	10140	367953	8.67%	0.795%
312	19.782	19.748	19.804	VV	11335	345823	8.15%	0.747%
313	19.824	19.804	19.841	VV	11400	228371	5.38%	0.493%
314	19.876	19.841	19.898	VV	19911	506873	11.94%	1.095%
315	19.925	19.898	19.949	VV	14146	396929	9.35%	0.857%
316	20.020	19.949	20.033	VV	15141	690519	16.26%	1.492%
317	20.058	20.033	20.071	VV	15641	333777	7.86%	0.721%
318	20.122	20.071	20.131	VV	17331	571418	13.46%	1.234%
319	20.152	20.131	20.181	VV	18191	514229	12.11%	1.111%
320	20.193	20.181	20.208	VV	17789	263070	6.20%	0.568%
321	20.249	20.208	20.278	VV	27801	900679	21.21%	1.946%
322	20.318	20.278	20.334	VV	22356	699634	16.48%	1.511%
323	20.355	20.334	20.363	VV	21801	370786	8.73%	0.801%
324	20.378	20.363	20.401	VV	22247	498817	11.75%	1.078%
325	20.440	20.401	20.454	VV	24541	738847	17.40%	1.596%
326	20.559	20.454	20.571	VV	28760	1844979	43.46%	3.986%
327	20.616	20.571	20.665	VV	36115	1721096	40.54%	3.718%
328	20.698	20.665	20.711	VV	32981	856534	20.17%	1.850%
329	20.714	20.711	20.735	VV	32420	444814	10.48%	0.961%
330	20.790	20.735	20.844	VV	32267	2030040	47.81%	4.385%
331	20.849	20.844	20.878	VV	31597	612238	14.42%	1.323%
332	20.888	20.878	20.931	VV	31009	934539	22.01%	2.019%
333	20.986	20.931	21.026	VV	32485	1633484	38.47%	3.529%
334	21.126	21.026	21.184	VV	32657	2729011	64.28%	5.895%
335	21.224	21.184	21.301	VV	28788	1833635	43.19%	3.961%
336	21.310	21.301	21.328	VV	23701	380948	8.97%	0.823%
337	21.348	21.328	21.363	VV	24571	493831	11.63%	1.067%
338	21.398	21.363	21.448	VV	27280	1228910	28.94%	2.655%
339	21.457	21.448	21.494	VV	20541	552922	13.02%	1.194%
340	21.514	21.494	21.557	VV	20434	714682	16.83%	1.544%
341	21.581	21.557	21.608	VV	20548	567939	13.38%	1.227%
342	21.642	21.608	21.667	VV	19192	604161	14.23%	1.305%
343	21.681	21.667	21.707	VV	17657	394204	9.28%	0.852%
344	21.735	21.707	21.760	VV	16632	477805	11.25%	1.032%
345	21.773	21.760	21.802	VV	14681	349498	8.23%	0.755%
346	21.869	21.802	21.936	VV	14669	974630	22.96%	2.105%
347	21.959	21.936	21.984	VV	9852	256485	6.04%	0.554%
348	21.992	21.984	22.020	VV	9710	190075	4.48%	0.411%
349	22.040	22.020	22.060	VV	9133	197972	4.66%	0.428%
350	22.073	22.060	22.078	VV	7631	77491	1.83%	0.167%
351	22.084	22.078	22.117	VV	6773	150664	3.55%	0.325%

						rters		
352	22.127	22.117	22.148	VV	6682	105879	2.49%	0.229%
353	22.157	22.148	22.167	VV	4721	44423	1.05%	0.096%
354	22.179	22.167	22.199	VV	4417	72474	1.71%	0.157%
355	22.209	22.199	22.215	VV	3519	28122	0.66%	0.061%
356	22.222	22.215	22.227	VV	3926	24065	0.57%	0.052%
357	22.269	22.227	22.278	VV	3475	84343	1.99%	0.182%
358	22.290	22.278	22.314	VV	2412	40117	0.94%	0.087%
359	22.326	22.314	22.338	VV	2904	26804	0.63%	0.058%
					Sum of corrected areas:	46291017		

Aliphatic EPH 062725.M Wed Jul 23 05:14:15 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 7-6	SDG No.:	Q2651
Lab Sample ID:	Q2651-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.9
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/21/25 18:35	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	12.9		1	1.26	2.13	mg/kg	FE054947.D
Aliphatic C9-C28	Aliphatic C9-C28	2.03	J	1	0.97	4.25	mg/kg	FE054947.D
Total AliphaticEPH	Total AliphaticEPH	14.9			2.23	6.38	mg/kg	
Total EPH	Total EPH	14.9			2.23	6.38	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 7-6	SDG No.:	Q2651
Lab Sample ID:	Q2651-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.9
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054947.D	1	07/21/25	07/21/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.03	J	0.97	4.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	12.9		1.26	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	24.7		40 - 140	49%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.2		40 - 140	48%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2651-03	Acq On:	21 Jul 2025 18:35
Client Sample ID:	MH 7-6	Operator:	YP\AJ
Data file:	FE054947.D	Misc:	
Instrument:	FID_E	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.330	6.963	428669	3.151	300	ug/ml
Aliphatic C12-C16	6.964	10.415	661265	4.704	200	ug/ml
Aliphatic C16-C21	10.416	13.793	1394328	9.656	300	ug/ml
Aliphatic C21-C28	13.794	17.463	1611743	11.142	400	ug/ml
Aliphatic C28-C40	17.464	22.490	25232049	181.987	600	ug/ml
Aliphatic EPH	3.330	22.490	29328054	210.641		ug/ml
ortho-Terphenyl (SURR)	12.089	12.089	3934789	24.23		ug/ml
1-chlorooctadecane (SURR)	13.526	13.526	3115524	24.67		ug/ml
Aliphatic C9-C28	3.330	17.463	4096005	28.653	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054947.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 18:35
 Operator : YP\AJ
 Sample : Q2651-03
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 MH 7-6

Integration File: autoint1.e
 Quant Time: Jul 22 01:30:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.089	3934789	24.230 ug/ml
Spiked Amount 50.000		Recovery =	48.46%
12) S 1-chlorooctadecane (S...	13.526	3115524	24.669 ug/ml
Spiked Amount 50.000		Recovery =	49.34%

Target Compounds

(f)=RT Delta > 1/2 Window

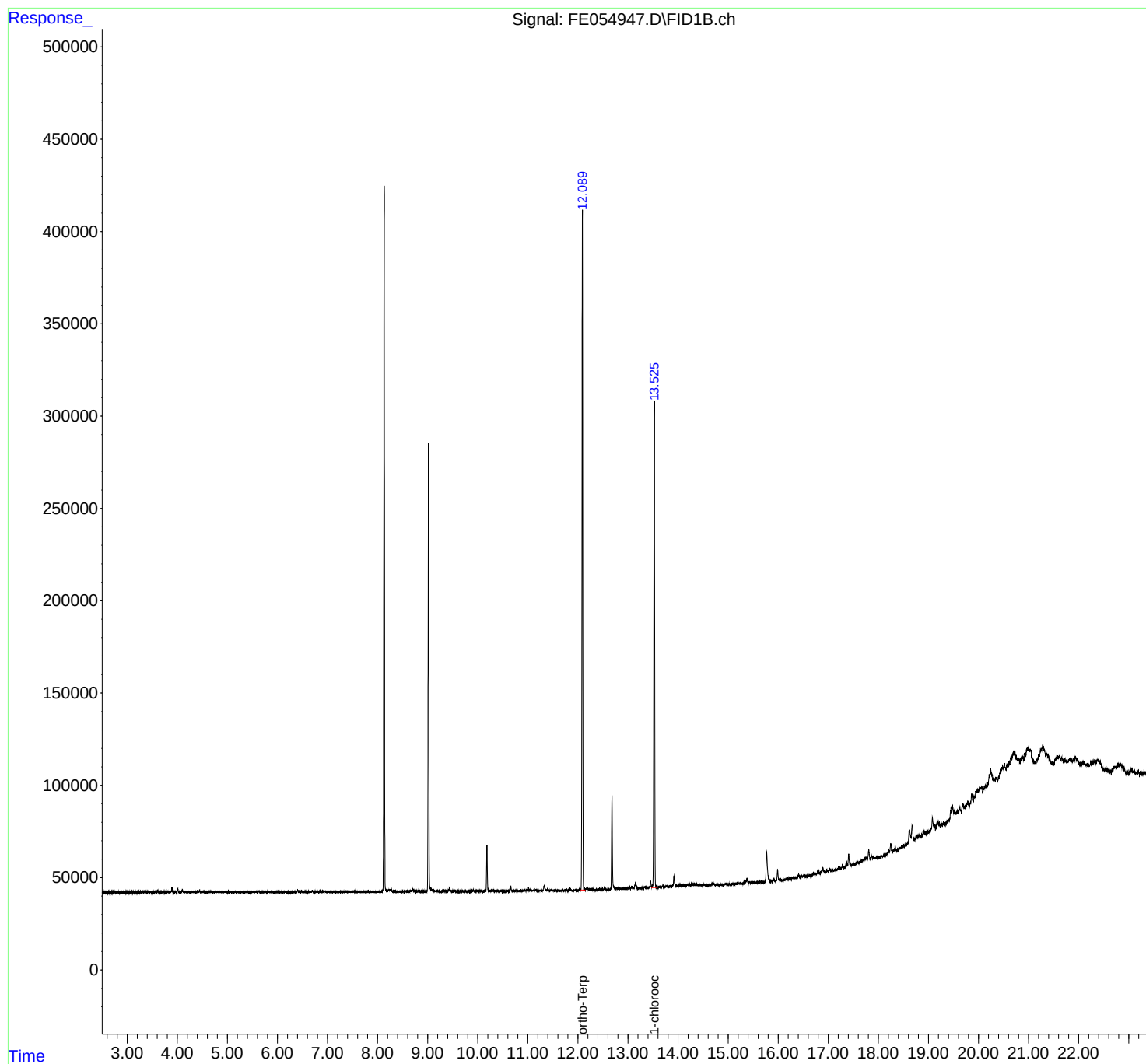
(m)=manual int.

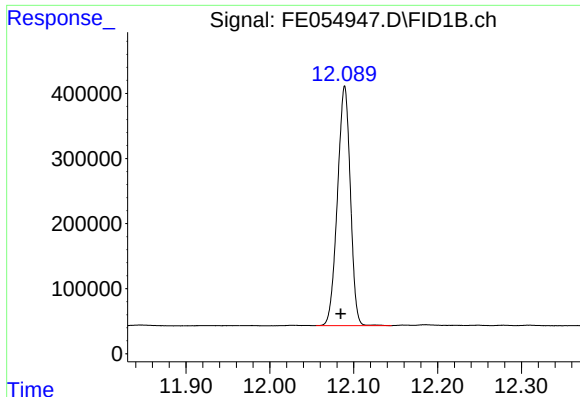
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054947.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 18:35
Operator : YP\AJ
Sample : Q2651-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
MH 7-6

Integration File: autoint1.e
Quant Time: Jul 22 01:30:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 2025
Response via : Initial Calibration
Integrator: ChemStation

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

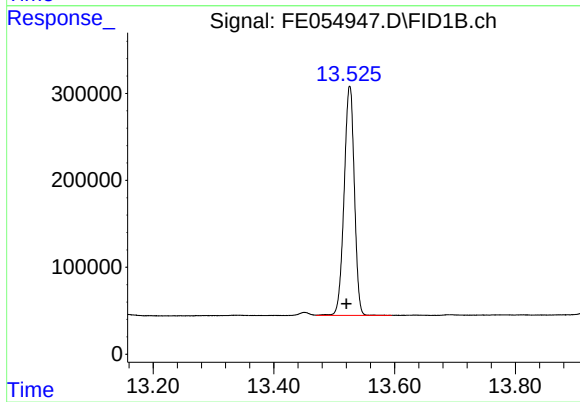




#9 ortho-Terphenyl (SURR)

R.T.: 12.089 min
Delta R.T.: 0.005 min
Response: 3934789
Conc: 24.23 ug/ml

Instrument :
FID_E
ClientSampleId :
MH 7-6



#12 1-chlorooctadecane (SURR)

R.T.: 13.526 min
Delta R.T.: 0.005 min
Response: 3115524
Conc: 24.67 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054947.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 18:35
Sample : Q2651-03
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	2.843	2.804	2.890	BV	212	4662	0.12%	0.013%
2	2.910	2.890	2.951	PV	391	6537	0.17%	0.018%
3	2.962	2.951	2.987	VV	196	3091	0.08%	0.008%
4	2.998	2.987	3.021	VV	198	2227	0.06%	0.006%
5	3.035	3.021	3.048	VV	145	1604	0.04%	0.004%
6	3.059	3.048	3.078	VV	280	2825	0.07%	0.008%
7	3.105	3.078	3.144	VV	183	4303	0.11%	0.012%
8	3.158	3.144	3.204	VV	209	4108	0.10%	0.011%
9	3.210	3.204	3.230	VV	121	1203	0.03%	0.003%
10	3.246	3.230	3.254	VV	197	1940	0.05%	0.005%
11	3.267	3.254	3.279	VV	374	4385	0.11%	0.012%
12	3.290	3.279	3.342	VV	370	9104	0.23%	0.025%
13	3.350	3.342	3.368	VV	171	1809	0.05%	0.005%
14	3.422	3.368	3.457	VV	319	8168	0.21%	0.022%
15	3.485	3.457	3.523	VV	165	4291	0.11%	0.012%
16	3.547	3.523	3.558	VV	147	2601	0.07%	0.007%
17	3.606	3.558	3.648	VV	805	14565	0.37%	0.040%
18	3.678	3.648	3.731	VV	191	7111	0.18%	0.020%
19	3.803	3.731	3.844	VV	375	13774	0.35%	0.038%
20	3.858	3.844	3.870	VV	359	4003	0.10%	0.011%
21	3.894	3.870	3.951	VV	2934	33438	0.85%	0.092%
22	3.954	3.951	3.961	VV	254	1017	0.03%	0.003%
23	4.010	3.961	4.071	VV	2148	27039	0.68%	0.074%
24	4.101	4.071	4.128	VV	1626	19140	0.48%	0.052%
25	4.137	4.128	4.156	VV	286	3406	0.09%	0.009%
26	4.169	4.156	4.188	VV	213	3132	0.08%	0.009%
27	4.200	4.188	4.210	VV	228	2927	0.07%	0.008%
28	4.223	4.210	4.261	VV	281	6638	0.17%	0.018%
29	4.280	4.261	4.373	VV	315	15801	0.40%	0.043%
30	4.407	4.373	4.428	VV	469	10907	0.28%	0.030%
31	4.447	4.428	4.484	VV	538	12329	0.31%	0.034%
32	4.495	4.484	4.528	VV	290	6563	0.17%	0.018%
33	4.540	4.528	4.551	VV	247	3438	0.09%	0.009%
34	4.565	4.551	4.613	VV	194	6592	0.17%	0.018%
35	4.622	4.613	4.658	VV	218	4562	0.12%	0.013%
36	4.683	4.658	4.710	VV	497	8727	0.22%	0.024%

					rt	er		
37	4.727	4.710	4.771	VV	225	7022	0.18%	0.019%
38	4.776	4.771	4.790	VV	189	1912	0.05%	0.005%
39	4.800	4.790	4.824	VV	237	2591	0.07%	0.007%
40	4.838	4.824	4.875	VV	226	4834	0.12%	0.013%
41	4.916	4.875	4.947	VV	278	7667	0.19%	0.021%
42	4.962	4.947	4.992	VV	252	4448	0.11%	0.012%
43	5.001	4.992	5.031	VV	137	2691	0.07%	0.007%
44	5.054	5.031	5.098	VV	156	5126	0.13%	0.014%
45	5.108	5.098	5.126	VV	159	2035	0.05%	0.006%
46	5.154	5.126	5.197	VV	158	3915	0.10%	0.011%
47	5.206	5.197	5.231	VV	108	1513	0.04%	0.004%
48	5.285	5.231	5.312	VV	149	4448	0.11%	0.012%
49	5.325	5.312	5.334	VV	103	1088	0.03%	0.003%
50	5.344	5.334	5.377	VV	189	3065	0.08%	0.008%
51	5.388	5.377	5.423	VV	165	3218	0.08%	0.009%
52	5.434	5.423	5.442	VV	148	1326	0.03%	0.004%
53	5.454	5.442	5.464	VV	138	1531	0.04%	0.004%
54	5.473	5.464	5.491	VV	111	1376	0.03%	0.004%
55	5.503	5.491	5.555	VV	214	3232	0.08%	0.009%
56	5.628	5.555	5.658	PV	804	11580	0.29%	0.032%
57	5.664	5.658	5.692	VV	128	2172	0.05%	0.006%
58	5.709	5.692	5.728	VV	117	1897	0.05%	0.005%
59	5.776	5.728	5.804	VV	140	4044	0.10%	0.011%
60	5.824	5.804	5.854	VV	249	4483	0.11%	0.012%
61	5.880	5.854	5.924	VV	302	7489	0.19%	0.021%
62	5.940	5.924	5.954	VV	126	1786	0.05%	0.005%
63	5.975	5.954	5.991	VV	164	1738	0.04%	0.005%
64	6.000	5.991	6.058	VV	138	3834	0.10%	0.011%
65	6.074	6.058	6.098	VV	208	2850	0.07%	0.008%
66	6.103	6.098	6.111	VV	106	882	0.02%	0.002%
67	6.118	6.111	6.181	VV	134	4265	0.11%	0.012%
68	6.188	6.181	6.231	VV	144	3006	0.08%	0.008%
69	6.243	6.231	6.289	VV	112	2192	0.06%	0.006%
70	6.316	6.289	6.323	VV	97	1415	0.04%	0.004%
71	6.343	6.323	6.384	VV	229	4020	0.10%	0.011%
72	6.405	6.384	6.461	VV	1142	18329	0.46%	0.050%
73	6.483	6.461	6.530	VV	423	9530	0.24%	0.026%
74	6.538	6.530	6.546	VV	184	1303	0.03%	0.004%
75	6.564	6.546	6.607	VV	279	5387	0.14%	0.015%
76	6.697	6.607	6.731	VV	999	17991	0.46%	0.049%
77	6.745	6.731	6.768	VV	181	2689	0.07%	0.007%
78	6.783	6.768	6.822	VV	183	4715	0.12%	0.013%
79	6.856	6.822	6.900	VV	468	13653	0.35%	0.037%
80	6.907	6.900	6.916	VV	271	2368	0.06%	0.006%
81	6.936	6.916	6.982	VV	546	10035	0.25%	0.028%
82	7.001	6.982	7.044	VV	139	3678	0.09%	0.010%
83	7.062	7.044	7.110	VV	209	4852	0.12%	0.013%
84	7.123	7.110	7.134	VV	171	1591	0.04%	0.004%
85	7.145	7.134	7.211	VV	156	3053	0.08%	0.008%
86	7.222	7.211	7.247	PV	147	1570	0.04%	0.004%
87	7.268	7.247	7.296	VV	424	5063	0.13%	0.014%
88	7.324	7.296	7.338	VV	265	3663	0.09%	0.010%
89	7.350	7.338	7.390	VV	464	9761	0.25%	0.027%

					rteres			
90	7.408	7.390	7.491	VV	302	9822	0.25%	0.027%
91	7.507	7.491	7.523	VV	237	3337	0.08%	0.009%
92	7.544	7.523	7.571	VV	260	5093	0.13%	0.014%
93	7.586	7.571	7.620	VV	171	3483	0.09%	0.010%
94	7.643	7.620	7.711	PV	222	6889	0.17%	0.019%
95	7.718	7.711	7.751	VV	165	2444	0.06%	0.007%
96	7.759	7.751	7.766	VV	129	883	0.02%	0.002%
97	7.808	7.766	7.851	VV	364	7633	0.19%	0.021%
98	7.870	7.851	7.888	VV	160	2236	0.06%	0.006%
99	7.894	7.888	7.905	VV	127	804	0.02%	0.002%
100	7.925	7.905	7.938	VV	132	1300	0.03%	0.004%
101	7.945	7.938	7.961	VV	124	1258	0.03%	0.003%
102	7.984	7.961	7.998	PV	90	914	0.02%	0.003%
103	8.032	7.998	8.071	VV	230	3626	0.09%	0.010%
104	8.237	8.214	8.258	VV	1008	23370	0.59%	0.064%
105	8.272	8.258	8.368	VV	1574	29303	0.74%	0.080%
106	8.378	8.368	8.384	VV	181	1394	0.04%	0.004%
107	8.392	8.384	8.428	VV	200	4038	0.10%	0.011%
108	8.463	8.428	8.488	VV	199	5304	0.13%	0.015%
109	8.517	8.488	8.534	VV	216	4424	0.11%	0.012%
110	8.547	8.534	8.560	VV	171	2167	0.05%	0.006%
111	8.591	8.560	8.605	VV	404	7067	0.18%	0.019%
112	8.627	8.605	8.643	VV	412	7047	0.18%	0.019%
113	8.698	8.643	8.797	VV	1495	44194	1.12%	0.121%
114	8.814	8.797	8.871	VV	507	9651	0.24%	0.026%
115	8.889	8.871	8.897	VV	107	1559	0.04%	0.004%
116	8.930	8.897	8.943	VV	262	4087	0.10%	0.011%
117	8.947	8.943	8.974	VV	137	1530	0.04%	0.004%
118	9.172	9.151	9.221	VV	586	13815	0.35%	0.038%
119	9.236	9.221	9.270	VV	354	6003	0.15%	0.016%
120	9.279	9.270	9.308	VV	146	2963	0.07%	0.008%
121	9.325	9.308	9.379	VV	257	7282	0.18%	0.020%
122	9.431	9.379	9.497	VV	1542	35173	0.89%	0.096%
123	9.527	9.497	9.554	VV	571	10563	0.27%	0.029%
124	9.566	9.554	9.594	VV	259	4630	0.12%	0.013%
125	9.601	9.594	9.640	VV	171	3091	0.08%	0.008%
126	9.652	9.640	9.663	VV	80	866	0.02%	0.002%
127	9.686	9.663	9.701	VV	196	3258	0.08%	0.009%
128	9.712	9.701	9.731	VV	249	3255	0.08%	0.009%
129	9.824	9.731	9.842	VV	159	7376	0.19%	0.020%
130	9.873	9.842	9.894	VV	355	7320	0.19%	0.020%
131	9.911	9.894	9.963	VV	677	13612	0.34%	0.037%
132	9.986	9.963	10.016	VV	351	6808	0.17%	0.019%
133	10.064	10.016	10.120	VV	233	9283	0.23%	0.025%
134	10.148	10.120	10.159	VV	550	7005	0.18%	0.019%
135	10.184	10.159	10.291	VV	24847	276269	6.99%	0.758%
136	10.311	10.291	10.380	VV	717	14605	0.37%	0.040%
137	10.417	10.380	10.458	VV	375	7978	0.20%	0.022%
138	10.468	10.458	10.511	VV	132	1960	0.05%	0.005%
139	10.534	10.511	10.546	VV	62	795	0.02%	0.002%
140	10.589	10.546	10.608	PV	117	2391	0.06%	0.007%
141	10.661	10.608	10.685	VV	2907	33793	0.86%	0.093%

					rteres			
142	10.705	10.685	10.741	VV	359	8668	0.22%	0.024%
143	10.761	10.741	10.820	VV	411	12045	0.30%	0.033%
144	10.836	10.820	10.872	VV	222	4865	0.12%	0.013%
145	10.939	10.872	10.950	VV	369	11543	0.29%	0.032%
146	10.967	10.950	10.992	VV	482	10127	0.26%	0.028%
147	11.013	10.992	11.091	VV	1084	25291	0.64%	0.069%
148	11.127	11.091	11.141	VV	770	14269	0.36%	0.039%
149	11.159	11.141	11.182	VV	705	11711	0.30%	0.032%
150	11.193	11.182	11.231	VV	399	7170	0.18%	0.020%
151	11.280	11.231	11.297	VV	436	9835	0.25%	0.027%
152	11.327	11.297	11.374	VV	2772	54742	1.39%	0.150%
153	11.397	11.374	11.474	VV	1121	26306	0.67%	0.072%
154	11.500	11.474	11.528	VV	320	7116	0.18%	0.020%
155	11.541	11.528	11.553	VV	172	1808	0.05%	0.005%
156	11.564	11.553	11.594	VV	192	2447	0.06%	0.007%
157	11.615	11.594	11.663	VV	245	4764	0.12%	0.013%
158	11.691	11.663	11.710	PV	587	7782	0.20%	0.021%
159	11.760	11.710	11.795	VV	859	18707	0.47%	0.051%
160	11.847	11.795	11.892	VV	1214	25352	0.64%	0.070%
161	11.922	11.892	11.943	VV	356	7034	0.18%	0.019%
162	11.977	11.943	12.000	VV	399	8301	0.21%	0.023%
163	12.028	12.000	12.052	VV	706	12739	0.32%	0.035%
164	12.089	12.052	12.144	VV	364883	3951816	100.00%	10.839%
165	12.160	12.144	12.171	VV	990	11976	0.30%	0.033%
166	12.186	12.171	12.212	VV	1574	25634	0.65%	0.070%
167	12.221	12.212	12.233	VV	671	7723	0.20%	0.021%
168	12.247	12.233	12.264	VV	871	10845	0.27%	0.030%
169	12.278	12.264	12.293	VV	796	8713	0.22%	0.024%
170	12.310	12.293	12.347	VV	857	10680	0.27%	0.029%
171	12.367	12.347	12.398	VV	214	3221	0.08%	0.009%
172	12.430	12.398	12.453	PV	808	14331	0.36%	0.039%
173	12.485	12.453	12.508	VV	514	11280	0.29%	0.031%
174	12.529	12.508	12.581	VV	1296	24318	0.62%	0.067%
175	12.599	12.581	12.618	VV	524	6827	0.17%	0.019%
176	12.631	12.618	12.640	VV	316	2724	0.07%	0.007%
177	12.680	12.640	12.758	VV	51147	604754	15.30%	1.659%
178	12.772	12.758	12.788	VV	667	10460	0.26%	0.029%
179	12.808	12.788	12.844	VV	672	17049	0.43%	0.047%
180	12.851	12.844	12.864	VV	351	4201	0.11%	0.012%
181	12.886	12.864	12.905	VV	547	9670	0.24%	0.027%
182	12.919	12.905	12.956	VV	490	9140	0.23%	0.025%
183	12.984	12.956	12.993	VV	456	6564	0.17%	0.018%
184	13.030	12.993	13.054	VV	969	20931	0.53%	0.057%
185	13.074	13.054	13.112	VV	1366	23694	0.60%	0.065%
186	13.148	13.112	13.215	VV	2754	61539	1.56%	0.169%
187	13.338	13.215	13.384	VV	699	34148	0.86%	0.094%
188	13.403	13.384	13.421	VV	429	7788	0.20%	0.021%
189	13.451	13.421	13.471	VV	3883	50921	1.29%	0.140%
190	13.526	13.471	13.594	VV	264225	3134937	79.33%	8.598%
191	13.601	13.594	13.608	VV	347	2743	0.07%	0.008%
192	13.635	13.608	13.661	VV	521	11810	0.30%	0.032%
193	13.691	13.661	13.728	VV	904	19830	0.50%	0.054%
194	13.774	13.728	13.798	VV	655	21275	0.54%	0.058%

					rteres			
195	13.812	13.798	13.829	VV	608	9596	0.24%	0.026%
196	13.843	13.829	13.853	VV	422	5690	0.14%	0.016%
197	13.918	13.853	13.998	VV	5978	120282	3.04%	0.330%
198	14.038	13.998	14.068	VV	1210	36476	0.92%	0.100%
199	14.099	14.068	14.117	VV	809	20428	0.52%	0.056%
200	14.150	14.117	14.164	VV	868	21916	0.55%	0.060%
201	14.190	14.164	14.211	VV	1224	27329	0.69%	0.075%
202	14.226	14.211	14.248	VV	1070	20094	0.51%	0.055%
203	14.277	14.248	14.295	VV	1642	30931	0.78%	0.085%
204	14.320	14.295	14.343	VV	1374	31984	0.81%	0.088%
205	14.363	14.343	14.396	VV	1378	31202	0.79%	0.086%
206	14.403	14.396	14.417	VV	695	8194	0.21%	0.022%
207	14.425	14.417	14.456	VV	732	14558	0.37%	0.040%
208	14.519	14.456	14.541	VV	696	29044	0.73%	0.080%
209	14.554	14.541	14.587	VV	445	10195	0.26%	0.028%
210	14.680	14.587	14.700	VV	931	30950	0.78%	0.085%
211	14.716	14.700	14.740	VV	1016	14779	0.37%	0.041%
212	14.777	14.740	14.818	VV	524	13122	0.33%	0.036%
213	14.842	14.818	14.862	PV	760	8967	0.23%	0.025%
214	14.879	14.862	14.893	VV	280	3089	0.08%	0.008%
215	14.918	14.893	14.932	VV	515	6337	0.16%	0.017%
216	14.961	14.932	15.001	VV	840	16023	0.41%	0.044%
217	15.021	15.001	15.051	VV	604	8026	0.20%	0.022%
218	15.085	15.051	15.114	PV	465	8263	0.21%	0.023%
219	15.158	15.114	15.174	VV	459	8063	0.20%	0.022%
220	15.214	15.174	15.225	VV	402	10522	0.27%	0.029%
221	15.237	15.225	15.271	VV	345	7172	0.18%	0.020%
222	15.335	15.271	15.351	VV	1829	31947	0.81%	0.088%
223	15.377	15.351	15.407	VV	2752	48027	1.22%	0.132%
224	15.429	15.407	15.453	VV	1111	16968	0.43%	0.047%
225	15.492	15.453	15.518	VV	650	16658	0.42%	0.046%
226	15.575	15.518	15.614	VV	525	15529	0.39%	0.043%
227	15.650	15.614	15.674	PV	412	9623	0.24%	0.026%
228	15.695	15.674	15.709	VV	225	2743	0.07%	0.008%
229	15.769	15.709	15.848	VV	16523	317044	8.02%	0.870%
230	15.861	15.848	15.878	VV	356	4299	0.11%	0.012%
231	15.906	15.878	15.942	VV	1093	20500	0.52%	0.056%
232	15.989	15.942	16.026	PV	5929	86804	2.20%	0.238%
233	16.044	16.026	16.081	VV	579	9363	0.24%	0.026%
234	16.174	16.081	16.196	PV	550	12876	0.33%	0.035%
235	16.222	16.196	16.243	VV	482	8058	0.20%	0.022%
236	16.255	16.243	16.267	VV	196	2332	0.06%	0.006%
237	16.298	16.267	16.324	VV	534	13257	0.34%	0.036%
238	16.336	16.324	16.347	VV	421	4952	0.13%	0.014%
239	16.369	16.347	16.385	VV	614	9958	0.25%	0.027%
240	16.407	16.385	16.431	VV	1502	22609	0.57%	0.062%
241	16.469	16.431	16.501	VV	517	15215	0.39%	0.042%
242	16.539	16.501	16.560	VV	313	7659	0.19%	0.021%
243	16.623	16.560	16.671	VV	355	11647	0.29%	0.032%
244	16.712	16.671	16.734	PV	908	13920	0.35%	0.038%
245	16.793	16.734	16.841	VV	1712	44835	1.13%	0.123%
246	16.859	16.841	16.868	VV	577	7542	0.19%	0.021%

					rteres			
247	16.895	16.868	16.944	VV	2909	51146	1.29%	0.140%
248	16.975	16.944	17.001	PV	1060	15303	0.39%	0.042%
249	17.027	17.001	17.071	VV	1491	25161	0.64%	0.069%
250	17.090	17.071	17.105	VV	294	4313	0.11%	0.012%
251	17.151	17.105	17.161	VV	273	5655	0.14%	0.016%
252	17.219	17.161	17.255	VV	1310	27945	0.71%	0.077%
253	17.279	17.255	17.302	PV	1538	18902	0.48%	0.052%
254	17.360	17.302	17.383	VV	2840	49514	1.25%	0.136%
255	17.409	17.383	17.464	VV	6846	106207	2.69%	0.291%
256	17.510	17.464	17.534	VV	557	16748	0.42%	0.046%
257	17.586	17.534	17.604	VV	771	23690	0.60%	0.065%
258	17.652	17.604	17.662	VV	1036	27501	0.70%	0.075%
259	17.769	17.662	17.782	VV	1932	108900	2.76%	0.299%
260	17.809	17.782	17.840	VV	5945	100818	2.55%	0.277%
261	17.867	17.840	17.884	VV	2292	39837	1.01%	0.109%
262	17.896	17.884	17.917	VV	1320	19821	0.50%	0.054%
263	17.971	17.917	17.994	VV	587	19195	0.49%	0.053%
264	18.069	17.994	18.083	PV	418	7155	0.18%	0.020%
265	18.125	18.083	18.137	PV	437	8356	0.21%	0.023%
266	18.204	18.137	18.223	VV	2306	47124	1.19%	0.129%
267	18.248	18.223	18.280	VV	5372	89987	2.28%	0.247%
268	18.338	18.280	18.367	VV	2345	57930	1.47%	0.159%
269	18.421	18.367	18.437	PV	1134	28661	0.73%	0.079%
270	18.457	18.437	18.473	VV	993	17430	0.44%	0.048%
271	18.502	18.473	18.516	VV	1252	24772	0.63%	0.068%
272	18.532	18.516	18.545	VV	1589	17292	0.44%	0.047%
273	18.620	18.545	18.651	VV	8516	231073	5.85%	0.634%
274	18.674	18.651	18.724	VV	10205	225140	5.70%	0.617%
275	18.742	18.724	18.753	VV	2495	37364	0.95%	0.102%
276	18.774	18.753	18.787	VV	3327	55386	1.40%	0.152%
277	18.816	18.787	18.853	VV	3131	107568	2.72%	0.295%
278	18.867	18.853	18.879	VV	3455	42894	1.09%	0.118%
279	18.908	18.879	18.952	VV	4205	139297	3.52%	0.382%
280	18.973	18.952	19.010	VV	3517	100039	2.53%	0.274%
281	19.080	19.010	19.114	VV	9500	299673	7.58%	0.822%
282	19.134	19.114	19.149	VV	4878	84844	2.15%	0.233%
283	19.180	19.149	19.200	VV	5883	147309	3.73%	0.404%
284	19.213	19.200	19.240	VV	5768	109023	2.76%	0.299%
285	19.262	19.240	19.277	VV	3998	80587	2.04%	0.221%
286	19.304	19.277	19.334	VV	4823	128663	3.26%	0.353%
287	19.398	19.334	19.408	VV	4796	163793	4.14%	0.449%
288	19.446	19.408	19.464	VV	9313	227024	5.74%	0.623%
289	19.482	19.464	19.531	VV	10877	336794	8.52%	0.924%
290	19.542	19.531	19.554	VV	6919	87202	2.21%	0.239%
291	19.572	19.554	19.580	VV	6995	100753	2.55%	0.276%
292	19.622	19.580	19.654	VV	8394	324447	8.21%	0.890%
293	19.686	19.654	19.721	VV	10100	329695	8.34%	0.904%
294	19.786	19.721	19.822	VV	9199	500737	12.67%	1.373%
295	19.864	19.822	19.898	VV	13240	446321	11.29%	1.224%
296	19.912	19.898	19.929	VV	11196	196532	4.97%	0.539%
297	19.988	19.929	20.001	VV	14388	562645	14.24%	1.543%
298	20.013	20.001	20.024	VV	14539	189503	4.80%	0.520%
299	20.068	20.024	20.088	VV	14196	521349	13.19%	1.430%

					rteres			
300	20.117	20.088	20.147	VV	14305	471656	11.94%	1.294%
301	20.167	20.147	20.177	VV	15636	263997	6.68%	0.724%
302	20.244	20.177	20.286	VV	22051	1172696	29.67%	3.216%
303	20.304	20.286	20.334	VV	16764	455605	11.53%	1.250%
304	20.362	20.334	20.384	VV	16025	464418	11.75%	1.274%
305	20.438	20.384	20.448	VV	18823	637876	16.14%	1.749%
306	20.480	20.448	20.503	VV	20337	640887	16.22%	1.758%
307	20.521	20.503	20.550	VV	21452	556003	14.07%	1.525%
308	20.577	20.550	20.598	VV	20516	565700	14.31%	1.552%
309	20.610	20.598	20.621	VV	21798	286318	7.25%	0.785%
310	20.648	20.621	20.663	VV	24072	558420	14.13%	1.532%
311	20.727	20.663	20.791	VV	26124	1793573	45.39%	4.919%
312	20.807	20.791	20.828	VV	21054	446927	11.31%	1.226%
313	20.846	20.828	20.867	VV	20872	465800	11.79%	1.278%
314	20.887	20.867	20.906	VV	21375	479488	12.13%	1.315%
315	20.934	20.906	20.944	VV	22591	483285	12.23%	1.325%
316	20.984	20.944	21.024	VV	24665	1129860	28.59%	3.099%
317	21.033	21.024	21.109	VV	22876	975148	24.68%	2.675%
318	21.125	21.109	21.141	VV	15733	295973	7.49%	0.812%
319	21.285	21.141	21.382	VV	23263	2645342	66.94%	7.255%
320	21.394	21.382	21.458	VV	15876	597546	15.12%	1.639%
321	21.470	21.458	21.481	VV	11583	145261	3.68%	0.398%
322	21.494	21.481	21.505	VV	10662	149266	3.78%	0.409%
323	21.581	21.505	21.594	VV	13227	628931	15.91%	1.725%
324	21.617	21.594	21.647	VV	12721	374855	9.49%	1.028%
325	21.661	21.647	21.695	VV	11272	297456	7.53%	0.816%
326	21.724	21.695	21.734	VV	9455	212500	5.38%	0.583%
327	21.820	21.734	21.832	VV	8773	478932	12.12%	1.314%
328	21.839	21.832	21.851	VV	7868	87032	2.20%	0.239%
329	21.857	21.851	21.878	VV	7594	115152	2.91%	0.316%
330	21.888	21.878	21.922	VV	7895	194842	4.93%	0.534%
331	21.936	21.922	21.956	VV	8608	156608	3.96%	0.430%
332	21.973	21.956	22.062	VV	7005	288661	7.30%	0.792%
333	22.095	22.062	22.107	VV	3719	90551	2.29%	0.248%
334	22.116	22.107	22.143	VV	3556	48728	1.23%	0.134%
335	22.154	22.143	22.182	VV	1959	34953	0.88%	0.096%
336	22.196	22.182	22.210	VV	1109	11814	0.30%	0.032%
337	22.241	22.210	22.252	PV	1796	23416	0.59%	0.064%
338	22.274	22.252	22.289	VV	2024	28562	0.72%	0.078%
339	22.302	22.289	22.313	VV	1909	18382	0.47%	0.050%
340	22.325	22.313	22.351	VV	2271	28757	0.73%	0.079%

Sum of corrected areas: 36460786

Aliphatic EPH 062725.M Tue Jul 22 02:05:34 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 8-7	SDG No.:	Q2651
Lab Sample ID:	Q2651-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.6
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/21/25 19:05	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	11.5		1	1.24	2.11	mg/kg	FE054948.D
Aliphatic C9-C28	Aliphatic C9-C28	0.98	J	1	0.96	4.21	mg/kg	FE054948.D
Total AliphaticEPH	Total AliphaticEPH	12.5			2.20	6.32	mg/kg	
Total EPH	Total EPH	12.5			2.20	6.32	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 8-7	SDG No.:	Q2651
Lab Sample ID:	Q2651-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.6
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054948.D	1	07/21/25	07/21/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.98	J	0.96	4.21	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.5		1.24	2.11	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	20.0		40 - 140	40%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	20.0		40 - 140	40%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2651-04	Acq On:	21 Jul 2025 19:05
Client Sample ID:	MH 8-7	Operator:	YP\AJ
Data file:	FE054948.D	Misc:	
Instrument:	FID_E	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.330	6.963	462456	3.399	300	ug/ml
Aliphatic C12-C16	6.964	10.415	568400	4.044	200	ug/ml
Aliphatic C16-C21	10.416	13.793	934363	6.471	300	ug/ml
Aliphatic C21-C28	13.794	17.463	1089068	7.529	400	ug/ml
Aliphatic C28-C40	17.464	22.490	22597503	162.985	600	ug/ml
Aliphatic EPH	3.330	22.490	25651790	184.428		ug/ml
ortho-Terphenyl (SURR)	12.088	12.088	3254229	20.04		ug/ml
1-chlorooctadecane (SURR)	13.524	13.524	2528230	20.02		ug/ml
Aliphatic C9-C28	3.330	17.463	3054287	21.443	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054948.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 19:05
 Operator : YP\AJ
 Sample : Q2651-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 MH 8-7

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/22/2025
 Supervised By :mohammad ahmed 07/23/2025

Integration File: autoint1.e
 Quant Time: Jul 22 01:30:55 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.088	3254229	20.039 ug/mlm
Spiked Amount 50.000		Recovery =	40.08%
12) S 1-chlorooctadecane (S...	13.524	2528230	20.019 ug/ml
Spiked Amount 50.000		Recovery =	40.04%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054948.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 19:05
Operator : YP\AJ
Sample : Q2651-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

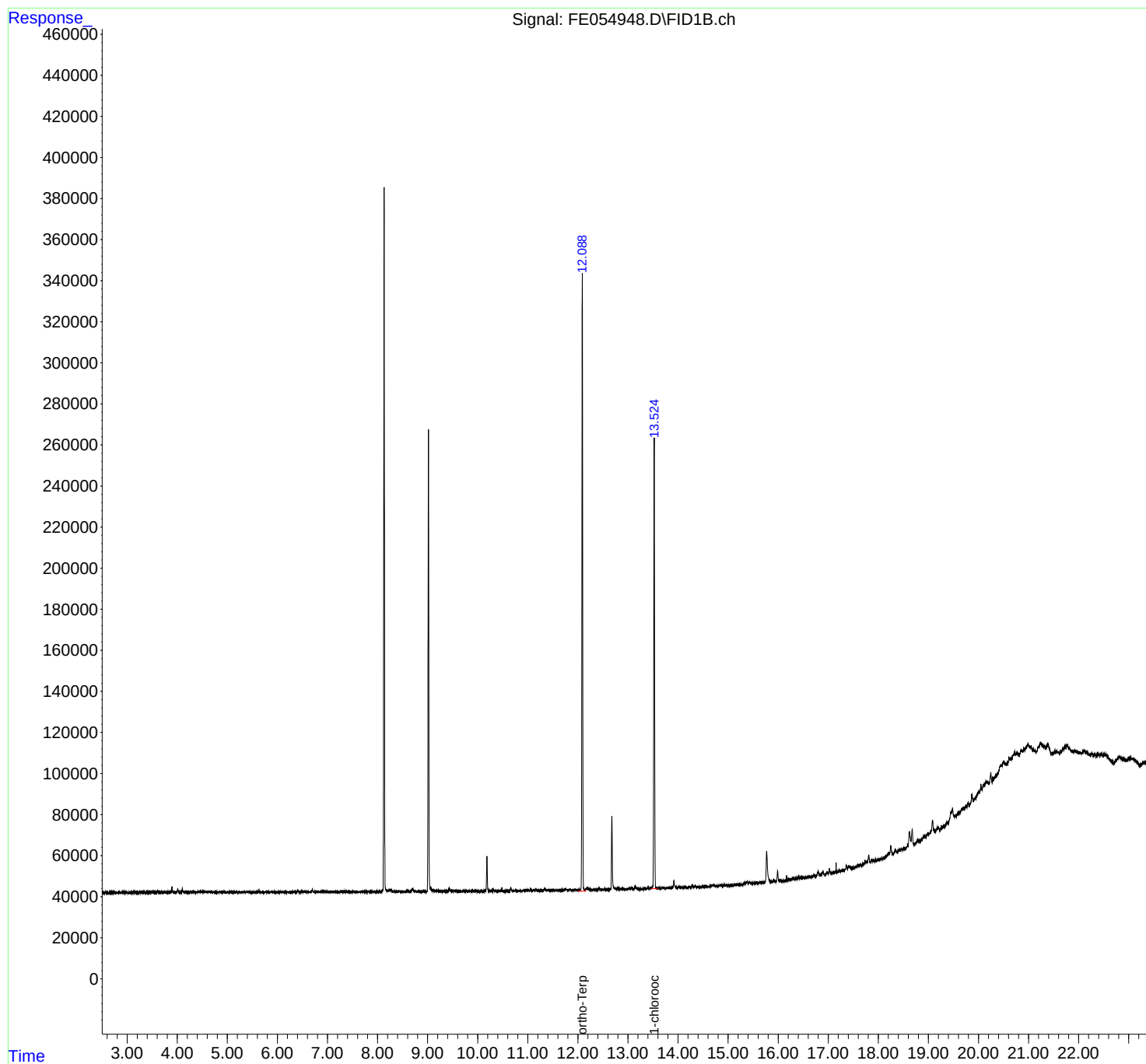
Instrument :
FID_E
ClientSampleId :
MH 8-7

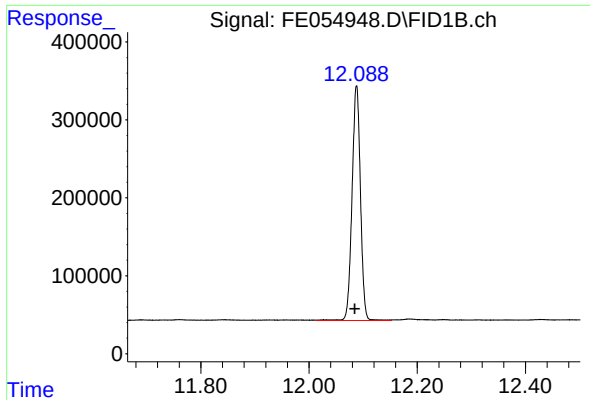
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/22/2025
Supervised By :mohammad ahmed 07/23/2025

Integration File: autoint1.e
Quant Time: Jul 22 01:30:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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.: 12.088 min
Delta R.T.: 0.003 min
Response: 3254229
Conc: 20.04 ug/ml

Instrument :

FID_E

ClientSampleId :

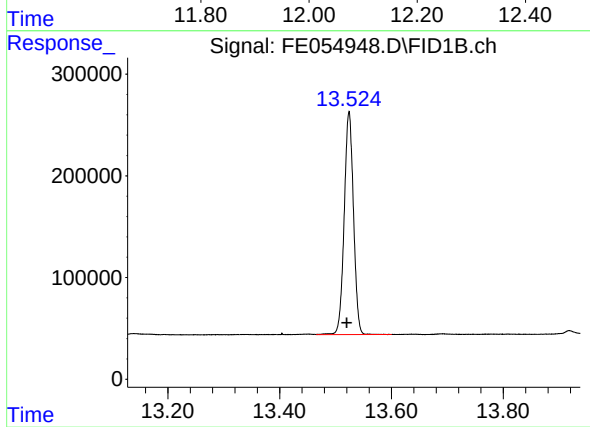
MH 8-7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.524 min
Delta R.T.: 0.004 min
Response: 2528230
Conc: 20.02 ug/ml

rteres

Instrument :

FID_E

ClientSampleId :

MH 8-7

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE07212
Data File : FE054948.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 19:05
Sample : Q2651-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	2.841	2.805	2.881	BV	310	5476	0.17%	0.017%
2	2.913	2.881	2.943	PV	211	4626	0.14%	0.015%
3	2.972	2.943	2.992	VV	184	3554	0.11%	0.011%
4	3.000	2.992	3.028	VV	140	1424	0.04%	0.005%
5	3.037	3.028	3.073	VV	122	1973	0.06%	0.006%
6	3.104	3.073	3.140	VV	178	3838	0.12%	0.012%
7	3.155	3.140	3.181	VV	204	3384	0.11%	0.011%
8	3.204	3.181	3.238	VV	150	3477	0.11%	0.011%
9	3.270	3.238	3.375	VV	416	16016	0.50%	0.051%
10	3.423	3.375	3.495	VV	381	12679	0.39%	0.040%
11	3.512	3.495	3.545	VV	180	4453	0.14%	0.014%
12	3.559	3.545	3.586	VV	197	3899	0.12%	0.012%
13	3.607	3.586	3.648	VV	887	11296	0.35%	0.036%
14	3.653	3.648	3.657	VV	160	768	0.02%	0.002%
15	3.666	3.657	3.688	VV	188	2530	0.08%	0.008%
16	3.705	3.688	3.735	VV	177	3964	0.12%	0.013%
17	3.740	3.735	3.760	VV	105	1965	0.06%	0.006%
18	3.805	3.760	3.843	VV	340	9466	0.29%	0.030%
19	3.859	3.843	3.868	VV	299	3523	0.11%	0.011%
20	3.894	3.868	3.948	VV	2885	33822	1.05%	0.108%
21	3.961	3.948	3.971	VV	234	1975	0.06%	0.006%
22	4.010	3.971	4.060	VV	2099	25864	0.81%	0.082%
23	4.101	4.060	4.166	VV	1565	25430	0.79%	0.081%
24	4.176	4.166	4.183	VV	196	1726	0.05%	0.005%
25	4.221	4.183	4.239	VV	295	7103	0.22%	0.023%
26	4.279	4.239	4.301	VV	335	8655	0.27%	0.028%
27	4.311	4.301	4.323	VV	264	3080	0.10%	0.010%
28	4.334	4.323	4.389	VV	252	8141	0.25%	0.026%
29	4.410	4.389	4.425	VV	483	7706	0.24%	0.025%
30	4.447	4.425	4.488	VV	544	14338	0.45%	0.046%
31	4.496	4.488	4.545	VV	361	10208	0.32%	0.032%
32	4.552	4.545	4.585	VV	308	6103	0.19%	0.019%
33	4.587	4.585	4.658	VV	290	9502	0.30%	0.030%
34	4.682	4.658	4.711	VV	468	8051	0.25%	0.026%
35	4.718	4.711	4.755	VV	212	4752	0.15%	0.015%
36	4.759	4.755	4.777	VV	319	2457	0.08%	0.008%

					retention			
37	4.792	4.777	4.837	VV	235	6556	0.20%	0.021%
38	4.850	4.837	4.863	VV	271	2708		
39	4.870	4.863	4.881	VV	181	1478		
40	4.901	4.881	4.925	VV	233	4240		
41	4.966	4.925	4.978	VV	195	4883		
42	5.006	4.978	5.043	VV	219	6766		
43	5.061	5.043	5.132	VV	208	8878	0.28%	0.028%
44	5.138	5.132	5.176	VV	174	4408	0.14%	0.014%
45	5.198	5.176	5.235	VV	190	5191	0.16%	0.017%
46	5.245	5.235	5.253	VV	121	1224	0.04%	0.004%
47	5.267	5.253	5.278	VV	164	1908	0.06%	0.006%
48	5.337	5.278	5.369	VV	225	8549	0.27%	0.027%
49	5.404	5.369	5.419	VV	256	5062	0.16%	0.016%
50	5.428	5.419	5.441	VV	210	2049	0.06%	0.007%
51	5.447	5.441	5.459	VV	154	1496	0.05%	0.005%
52	5.505	5.459	5.535	VV	199	5302	0.17%	0.017%
53	5.562	5.535	5.581	VV	121	2380	0.07%	0.008%
54	5.628	5.581	5.654	VV	963	13211	0.41%	0.042%
55	5.664	5.654	5.675	VV	144	1173	0.04%	0.004%
56	5.714	5.675	5.777	PV	183	7263	0.23%	0.023%
57	5.790	5.777	5.802	VV	162	1901	0.06%	0.006%
58	5.822	5.802	5.853	VV	299	5781	0.18%	0.018%
59	5.882	5.853	5.928	VV	271	8188	0.26%	0.026%
60	5.939	5.928	5.969	VV	226	3451	0.11%	0.011%
61	5.998	5.969	6.009	VV	234	3224	0.10%	0.010%
62	6.019	6.009	6.050	VV	132	2863	0.09%	0.009%
63	6.072	6.050	6.135	VV	159	5430	0.17%	0.017%
64	6.154	6.135	6.169	VV	126	1970	0.06%	0.006%
65	6.194	6.169	6.222	VV	164	3080	0.10%	0.010%
66	6.231	6.222	6.248	VV	110	1104	0.03%	0.004%
67	6.301	6.248	6.312	VV	155	3873	0.12%	0.012%
68	6.337	6.312	6.377	VV	289	5486	0.17%	0.017%
69	6.406	6.377	6.465	VV	871	17149	0.53%	0.055%
70	6.482	6.465	6.534	VV	343	8631	0.27%	0.027%
71	6.561	6.534	6.601	VV	255	7056	0.22%	0.022%
72	6.617	6.601	6.637	VV	187	3101	0.10%	0.010%
73	6.652	6.637	6.668	VV	218	3157	0.10%	0.010%
74	6.696	6.668	6.748	VV	1284	19765	0.62%	0.063%
75	6.753	6.748	6.770	VV	224	2366	0.07%	0.008%
76	6.812	6.770	6.831	VV	221	6120	0.19%	0.019%
77	6.862	6.831	6.917	VV	381	12638	0.39%	0.040%
78	6.934	6.917	6.961	VV	458	7941	0.25%	0.025%
79	6.966	6.961	7.038	VV	222	6278	0.20%	0.020%
80	7.075	7.038	7.111	VV	213	6137	0.19%	0.020%
81	7.122	7.111	7.135	VV	232	1767	0.06%	0.006%
82	7.145	7.135	7.177	VV	158	3139	0.10%	0.010%
83	7.189	7.177	7.218	VV	144	2627	0.08%	0.008%
84	7.221	7.218	7.233	VV	156	771	0.02%	0.002%
85	7.268	7.233	7.292	PV	366	5556	0.17%	0.018%
86	7.329	7.292	7.337	VV	219	3411	0.11%	0.011%
87	7.354	7.337	7.393	VV	431	10093	0.31%	0.032%
88	7.407	7.393	7.475	VV	300	8020	0.25%	0.026%
89	7.507	7.475	7.519	VV	206	4305	0.13%	0.014%

Instrument :

FID_E

ClientSampleId :

MH 8-7

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

90	7.542	7.519	7.565	VV	229	3996	0.12%	0.013%
91	7.597	7.565	7.616	VV	189	3437		
92	7.649	7.616	7.657	PV	174	2468		
93	7.677	7.657	7.781	VV	281	10275		
94	7.808	7.781	7.855	VV	267	6861		
95	7.865	7.855	7.885	VV	136	1901		
96	7.940	7.885	7.964	VV	198	4290	0.13%	0.014%
97	7.975	7.964	7.980	VV	107	892	0.03%	0.003%
98	7.989	7.980	8.008	VV	149	1668	0.05%	0.005%
99	8.031	8.008	8.082	PV	155	4377	0.14%	0.014%
100	8.232	8.210	8.256	VV	1072	24540	0.76%	0.078%
101	8.271	8.256	8.361	VV	1310	26140	0.81%	0.083%
102	8.375	8.361	8.411	VV	214	4497	0.14%	0.014%
103	8.428	8.411	8.447	VV	235	3032	0.09%	0.010%
104	8.459	8.447	8.501	VV	136	4007	0.12%	0.013%
105	8.519	8.501	8.564	VV	206	5672	0.18%	0.018%
106	8.589	8.564	8.636	VV	422	12403	0.39%	0.039%
107	8.698	8.636	8.742	VV	1472	37351	1.16%	0.119%
108	8.751	8.742	8.791	VV	319	6031	0.19%	0.019%
109	8.825	8.791	8.881	VV	427	9941	0.31%	0.032%
110	8.904	8.881	8.915	VV	184	2549	0.08%	0.008%
111	8.927	8.915	8.948	VV	193	2531	0.08%	0.008%
112	8.950	8.948	8.965	VV	150	839	0.03%	0.003%
113	9.130	9.122	9.158	VV	411	6704	0.21%	0.021%
114	9.175	9.158	9.220	VV	496	12027	0.37%	0.038%
115	9.232	9.220	9.285	VV	251	6325	0.20%	0.020%
116	9.322	9.285	9.355	VV	265	7168	0.22%	0.023%
117	9.362	9.355	9.373	VV	155	1357	0.04%	0.004%
118	9.431	9.373	9.501	VV	1384	33872	1.05%	0.108%
119	9.528	9.501	9.662	VV	468	16894	0.53%	0.054%
120	9.712	9.662	9.739	VV	285	6826	0.21%	0.022%
121	9.746	9.739	9.754	VV	88	825	0.03%	0.003%
122	9.780	9.754	9.847	VV	233	5035	0.16%	0.016%
123	9.869	9.847	9.887	VV	224	4428	0.14%	0.014%
124	9.911	9.887	9.963	VV	528	12195	0.38%	0.039%
125	9.982	9.963	10.008	VV	212	4790	0.15%	0.015%
126	10.070	10.008	10.121	VV	195	7795	0.24%	0.025%
127	10.147	10.121	10.159	VV	432	5338	0.17%	0.017%
128	10.184	10.159	10.221	VV	17119	182948	5.70%	0.582%
129	10.246	10.221	10.275	VV	448	9176	0.29%	0.029%
130	10.311	10.275	10.371	VV	578	12895	0.40%	0.041%
131	10.420	10.371	10.473	VV	242	7187	0.22%	0.023%
132	10.484	10.473	10.538	VV	637	3730	0.12%	0.012%
133	10.569	10.538	10.584	PV	116	1370	0.04%	0.004%
134	10.661	10.584	10.686	VV	1849	24169	0.75%	0.077%
135	10.706	10.686	10.730	VV	254	4996	0.16%	0.016%
136	10.756	10.730	10.834	VV	347	12175	0.38%	0.039%
137	10.856	10.834	10.876	VV	230	3226	0.10%	0.010%
138	10.942	10.876	10.954	VV	360	9081	0.28%	0.029%
139	10.971	10.954	10.992	VV	404	7811	0.24%	0.025%
140	11.009	10.992	11.029	VV	608	9020	0.28%	0.029%
141	11.054	11.029	11.091	VV	585	12019	0.37%	0.038%

Instrument :

FID_E

ClientSampleId :

MH 8-7

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

142	11.158	11.091	11.234	VV	672	25063	0.78%	0.080%
143	11.277	11.234	11.299	VV	327	8272		
144	11.335	11.299	11.381	VV	1038	25976		
145	11.397	11.381	11.435	VV	406	9401		
146	11.497	11.435	11.545	VV	353	14961		
147	11.571	11.545	11.593	VV	203	3931		
148	11.621	11.593	11.661	PV	278	6394	0.20%	0.020%
149	11.691	11.661	11.713	VV	483	8128	0.25%	0.026%
150	11.731	11.713	11.742	VV	363	4665	0.15%	0.015%
151	11.761	11.742	11.805	VV	786	13764	0.43%	0.044%
152	11.811	11.805	11.818	VV	153	1114	0.03%	0.004%
153	11.843	11.818	11.884	VV	624	12299	0.38%	0.039%
154	11.924	11.884	11.945	VV	273	5963	0.19%	0.019%
155	11.956	11.945	11.968	VV	325	3209	0.10%	0.010%
156	11.979	11.968	12.004	VV	160	2726	0.08%	0.009%
157	12.031	12.004	12.051	VV	476	8250	0.26%	0.026%
158	12.088	12.051	12.144	VV	302174	3210779	100.00%	10.212%
159	12.186	12.144	12.232	VV	1407	33004	1.03%	0.105%
160	12.248	12.232	12.266	VV	606	7831	0.24%	0.025%
161	12.280	12.266	12.295	VV	247	2982	0.09%	0.009%
162	12.312	12.295	12.333	VV	267	3075	0.10%	0.010%
163	12.366	12.333	12.400	PV	163	3085	0.10%	0.010%
164	12.430	12.400	12.466	VV	693	12492	0.39%	0.040%
165	12.483	12.466	12.504	VV	303	5027	0.16%	0.016%
166	12.529	12.504	12.581	VV	609	13304	0.41%	0.042%
167	12.594	12.581	12.617	VV	180	2736	0.09%	0.009%
168	12.679	12.617	12.793	VV	35926	446117	13.89%	1.419%
169	12.808	12.793	12.870	VV	561	17092	0.53%	0.054%
170	12.891	12.870	12.907	VV	441	7385	0.23%	0.023%
171	12.916	12.907	12.954	VV	301	6043	0.19%	0.019%
172	12.975	12.954	12.984	VV	182	2786	0.09%	0.009%
173	13.018	12.984	13.049	VV	517	11908	0.37%	0.038%
174	13.075	13.049	13.118	VV	1045	18844	0.59%	0.060%
175	13.140	13.118	13.188	VV	1276	29238	0.91%	0.093%
176	13.194	13.188	13.226	VV	349	3779	0.12%	0.012%
177	13.231	13.226	13.238	VV	96	487	0.02%	0.002%
178	13.249	13.238	13.264	VV	144	1029	0.03%	0.003%
179	13.288	13.264	13.310	PV	217	3101	0.10%	0.010%
180	13.337	13.310	13.413	VV	318	12158	0.38%	0.039%
181	13.450	13.413	13.464	VV	615	10035	0.31%	0.032%
182	13.524	13.464	13.600	VV	219283	2535412	78.97%	8.064%
183	13.637	13.600	13.659	VV	303	6513	0.20%	0.021%
184	13.691	13.659	13.731	PV	683	12198	0.38%	0.039%
185	13.779	13.731	13.855	VV	343	13214	0.41%	0.042%
186	13.918	13.855	13.991	VV	3655	64449	2.01%	0.205%
187	14.027	13.991	14.084	VV	370	11501	0.36%	0.037%
188	14.100	14.084	14.121	VV	232	3823	0.12%	0.012%
189	14.135	14.121	14.173	VV	248	4721	0.15%	0.015%
190	14.226	14.173	14.251	VV	461	8369	0.26%	0.027%
191	14.279	14.251	14.328	VV	764	16918	0.53%	0.054%
192	14.342	14.328	14.391	VV	687	10685	0.33%	0.034%
193	14.401	14.391	14.417	VV	102	566	0.02%	0.002%
194	14.426	14.417	14.451	VV	82	1089	0.03%	0.003%

Instrument :

FID_E

ClientSampleId :

MH 8-7

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

195	14.505	14.451	14.541	PV	212	6373	0.20%	0.020%
196	14.582	14.541	14.591	VV	116	2388		
197	14.681	14.591	14.695	VV	778	18476		
198	14.717	14.695	14.743	VV	790	13156		
199	14.753	14.743	14.761	VV	191	1835		
200	14.797	14.761	14.817	VV	270	6298		
201	14.842	14.817	14.865	VV	799	10344	0.32%	0.033%
202	14.876	14.865	14.894	VV	382	4713	0.15%	0.015%
203	14.918	14.894	14.934	VV	525	8177	0.25%	0.026%
204	14.951	14.934	14.998	VV	454	11238	0.35%	0.036%
205	15.018	14.998	15.051	VV	186	3061	0.10%	0.010%
206	15.072	15.051	15.108	PV	185	3159	0.10%	0.010%
207	15.156	15.108	15.178	VV	346	5879	0.18%	0.019%
208	15.189	15.178	15.198	VV	210	1618	0.05%	0.005%
209	15.241	15.198	15.255	VV	291	6083	0.19%	0.019%
210	15.261	15.255	15.269	VV	170	1034	0.03%	0.003%
211	15.337	15.269	15.354	VV	699	15761	0.49%	0.050%
212	15.379	15.354	15.408	VV	1413	24094	0.75%	0.077%
213	15.429	15.408	15.452	VV	928	14648	0.46%	0.047%
214	15.482	15.452	15.511	VV	439	10744	0.33%	0.034%
215	15.538	15.511	15.554	VV	321	6296	0.20%	0.020%
216	15.575	15.554	15.605	VV	408	7690	0.24%	0.024%
217	15.651	15.605	15.670	VV	323	7357	0.23%	0.023%
218	15.681	15.670	15.711	VV	212	4317	0.13%	0.014%
219	15.770	15.711	15.883	VV	15135	297750	9.27%	0.947%
220	15.906	15.883	15.942	VV	834	15877	0.49%	0.050%
221	15.988	15.942	16.021	PV	5212	73300	2.28%	0.233%
222	16.044	16.021	16.079	VV	374	9052	0.28%	0.029%
223	16.168	16.079	16.194	PV	1216	12325	0.38%	0.039%
224	16.222	16.194	16.257	VV	448	10965	0.34%	0.035%
225	16.299	16.257	16.336	VV	685	20269	0.63%	0.064%
226	16.370	16.336	16.388	VV	621	13526	0.42%	0.043%
227	16.407	16.388	16.429	VV	1120	17546	0.55%	0.056%
228	16.468	16.429	16.508	VV	557	16879	0.53%	0.054%
229	16.540	16.508	16.564	VV	201	6317	0.20%	0.020%
230	16.606	16.564	16.661	VV	400	12475	0.39%	0.040%
231	16.711	16.661	16.731	PV	967	15709	0.49%	0.050%
232	16.751	16.731	16.761	VV	355	5723	0.18%	0.018%
233	16.794	16.761	16.841	VV	2192	48977	1.53%	0.156%
234	16.858	16.841	16.868	VV	625	7585	0.24%	0.024%
235	16.893	16.868	16.939	VV	1894	32004	1.00%	0.102%
236	16.976	16.939	17.000	PV	1174	19557	0.61%	0.062%
237	17.025	17.000	17.065	VV	2528	35985	1.12%	0.114%
238	17.086	17.065	17.121	VV	358	5458	0.17%	0.017%
239	17.158	17.121	17.248	PV	2017	16067	0.50%	0.051%
240	17.280	17.248	17.303	PV	461	6889	0.21%	0.022%
241	17.360	17.303	17.383	VV	2040	34743	1.08%	0.110%
242	17.409	17.383	17.426	VV	1902	27281	0.85%	0.087%
243	17.437	17.426	17.460	VV	782	9949	0.31%	0.032%
244	17.483	17.460	17.495	VV	112	1746	0.05%	0.006%
245	17.595	17.495	17.603	PV	387	9943	0.31%	0.032%
246	17.621	17.603	17.665	VV	581	10832	0.34%	0.034%

Instrument :

FID_E

ClientSampleId :

MH 8-7

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

					rters			
247	17.743	17.665	17.782	VV	1372	49423	1.54%	0.157%
248	17.809	17.782	17.841	VV	3958	60990		
249	17.865	17.841	17.881	VV	1205	15124		
250	17.897	17.881	17.921	VV	964	11537		
251	17.949	17.921	17.971	VV	495	7305		
252	17.996	17.971	18.013	VV	325	4977		
253	18.035	18.013	18.044	VV	265	2246	0.07%	0.007%
254	18.207	18.044	18.228	PV	1753	47448	1.48%	0.151%
255	18.249	18.228	18.285	VV	4531	73473	2.29%	0.234%
256	18.339	18.285	18.371	VV	1837	37013	1.15%	0.118%
257	18.420	18.371	18.433	PV	1092	21829	0.68%	0.069%
258	18.455	18.433	18.477	VV	784	15561	0.48%	0.049%
259	18.501	18.477	18.530	VV	759	12275	0.38%	0.039%
260	18.620	18.530	18.651	VV	7566	178019	5.54%	0.566%
261	18.675	18.651	18.715	VV	7826	134561	4.19%	0.428%
262	18.779	18.715	18.808	PV	1297	40289	1.25%	0.128%
263	18.819	18.808	18.828	VV	610	6698	0.21%	0.021%
264	18.925	18.828	18.934	VV	1525	72095	2.25%	0.229%
265	18.989	18.934	19.011	VV	2322	79918	2.49%	0.254%
266	19.082	19.011	19.135	VV	7683	240121	7.48%	0.764%
267	19.184	19.135	19.229	VV	2928	119912	3.73%	0.381%
268	19.258	19.229	19.280	VV	2579	53104	1.65%	0.169%
269	19.298	19.280	19.327	VV	2493	53384	1.66%	0.170%
270	19.368	19.327	19.390	VV	3018	92910	2.89%	0.295%
271	19.449	19.390	19.460	VV	7221	194840	6.07%	0.620%
272	19.482	19.460	19.505	VV	8325	185177	5.77%	0.589%
273	19.513	19.505	19.526	VV	4889	58073	1.81%	0.185%
274	19.540	19.526	19.558	VV	4558	80835	2.52%	0.257%
275	19.615	19.558	19.624	VV	5180	191294	5.96%	0.608%
276	19.668	19.624	19.678	VV	6166	179698	5.60%	0.572%
277	19.711	19.678	19.720	VV	6195	153323	4.78%	0.488%
278	19.748	19.720	19.770	VV	7071	184505	5.75%	0.587%
279	19.793	19.770	19.818	VV	7435	192697	6.00%	0.613%
280	19.868	19.818	19.898	VV	10816	380582	11.85%	1.210%
281	20.006	19.898	20.020	VV	10751	661582	20.61%	2.104%
282	20.048	20.020	20.071	VV	12407	340638	10.61%	1.083%
283	20.156	20.071	20.188	VV	13504	892890	27.81%	2.840%
284	20.197	20.188	20.214	VV	12998	194389	6.05%	0.618%
285	20.246	20.214	20.273	VV	16941	503532	15.68%	1.601%
286	20.462	20.273	20.471	VV	18148	1796735	55.96%	5.714%
287	20.509	20.471	20.550	VV	19436	866476	26.99%	2.756%
288	20.574	20.550	20.584	VV	17947	360729	11.23%	1.147%
289	20.609	20.584	20.636	VV	20036	578585	18.02%	1.840%
290	20.723	20.636	20.746	VV	21617	1309846	40.80%	4.166%
291	20.777	20.746	20.814	VV	20443	811406	25.27%	2.581%
292	20.865	20.814	20.887	VV	20497	875509	27.27%	2.785%
293	20.908	20.887	20.921	VV	20782	408647	12.73%	1.300%
294	20.949	20.921	20.956	VV	21101	433814	13.51%	1.380%
295	20.991	20.956	21.078	VV	21648	1486945	46.31%	4.729%
296	21.088	21.078	21.121	VV	18660	459682	14.32%	1.462%
297	21.132	21.121	21.152	VV	17854	314932	9.81%	1.002%
298	21.242	21.152	21.296	VV	19506	1564472	48.73%	4.976%
299	21.310	21.296	21.338	VV	17437	418384	13.03%	1.331%

Instrument :

FID_E

ClientSampleId :

MH 8-7

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

Area						Area		Area	
Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
300	21.383	21.338	21.442	VV	17478	975238	30.37%	3.102%	
301	21.459	21.442	21.494	VV	12253	365592	11.78%	1.243%	Manual Integration Reviewed By :Yogesh Supervised By :moh
302	21.522	21.494	21.540	VV	12457	321615	10.82%	1.106%	
303	21.560	21.540	21.588	VV	11947	327827	10.61%	1.122%	
304	21.593	21.588	21.613	VV	10925	158318	4.16%	0.452%	
305	21.642	21.613	21.652	VV	10930	245153	7.17%	0.772%	
306	21.725	21.652	21.741	VV	12395	602891	18.78%	1.917%	
307	21.769	21.741	21.809	VV	12231	469537	14.62%	1.493%	
308	21.818	21.809	21.865	VV	10189	304074	9.47%	0.967%	
309	21.875	21.865	21.886	VV	8057	99770	3.11%	0.317%	
310	21.904	21.886	21.941	VV	7877	247494	7.71%	0.787%	
311	21.951	21.941	22.009	VV	7388	260598	8.12%	0.829%	
312	22.027	22.009	22.066	VV	5754	183618	5.72%	0.584%	
313	22.106	22.066	22.155	VV	5820	269842	8.40%	0.858%	
314	22.166	22.155	22.204	VV	4060	99524	3.10%	0.317%	
315	22.215	22.204	22.223	VV	2491	24552	0.76%	0.078%	
316	22.235	22.223	22.251	VV	1990	32745	1.02%	0.104%	
317	22.274	22.251	22.294	VV	2016	44837	1.40%	0.143%	
318	22.321	22.294	22.355	VV	1517	31328	0.98%	0.100%	
Sum of corrected areas:						31441756			

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025
Supervised By :mohammad ahmed 07/23/2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 9-8	SDG No.:	Q2651
Lab Sample ID:	Q2651-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.9
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/22/25 9:54	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	25.2		1	1.27	2.15	mg/kg	FE054956.D
Aliphatic C9-C28	Aliphatic C9-C28	2.24	J	1	0.98	4.29	mg/kg	FE054956.D
Total AliphaticEPH	Total AliphaticEPH	27.4			2.25	6.44	mg/kg	
Total EPH	Total EPH	27.4			2.25	6.44	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	07/17/25
Project:	Leon Avenue	Date Received:	07/18/25
Client Sample ID:	MH 9-8	SDG No.:	Q2651
Lab Sample ID:	Q2651-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.9
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054956.D	1	07/21/25	07/22/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.24	J	0.98	4.29	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	25.2		1.27	2.15	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.8		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.9		40 - 140	70%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2651-05	Acq On:	22 Jul 2025 09:54
Client Sample ID:	MH 9-8	Operator:	YP\AJ
Data file:	FE054956.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	3.325	6.960	415192	3.052	300	ug/ml
Aliphatic C12-C16	6.961	10.412	723703	5.148	200	ug/ml
Aliphatic C16-C21	10.413	13.791	1286154	8.907	300	ug/ml
Aliphatic C21-C28	13.792	17.461	2058108	14.228	400	ug/ml
Aliphatic C28-C40	17.462	22.488	48861337	352.414	600	ug/ml
Aliphatic EPH	3.325	22.488	53344494	383.75		ug/ml
ortho-Terphenyl (SURR)	12.090	12.090	5674282	34.94		ug/ml
1-chlorooctadecane (SURR)	13.526	13.526	4640870	36.75		ug/ml
Aliphatic C9-C28	3.325	17.461	4483157	31.335	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
Data File : FE054956.D
Signal(s) : FID1B.ch
Acq On : 22 Jul 2025 09:54
Operator : YP\AJ
Sample : Q2651-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
MH 9-8

Integration File: autoint1.e
Quant Time: Jul 23 04:28:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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	5674282	34.941 ug/ml
Spiked Amount	50.000	Recovery	= 69.88%
12) S 1-chlorooctadecane (S...	13.526	4640870	36.747 ug/ml
Spiked Amount	50.000	Recovery	= 73.49%

Target Compounds

(f)=RT Delta > 1/2 Window

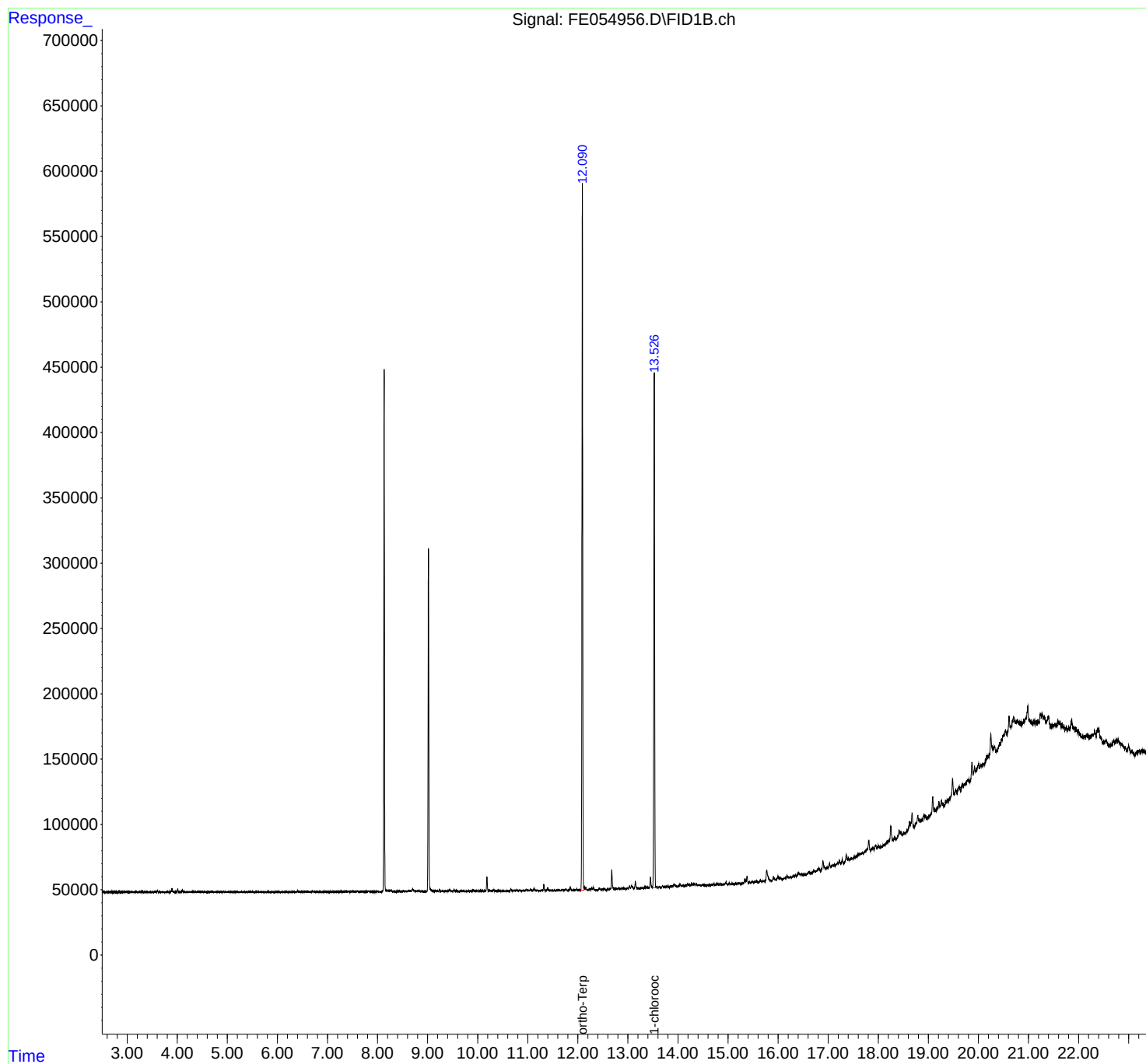
(m)=manual int.

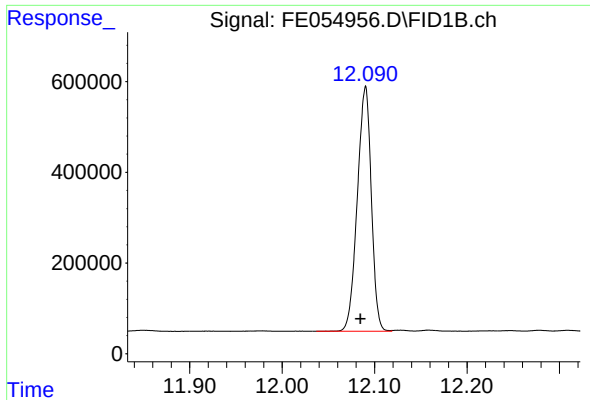
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
Data File : FE054956.D
Signal(s) : FID1B.ch
Acq On : 22 Jul 2025 09:54
Operator : YP\AJ
Sample : Q2651-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
MH 9-8

Integration File: autoint1.e
Quant Time: Jul 23 04:28:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 2025
Response via : Initial Calibration
Integrator: ChemStation

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

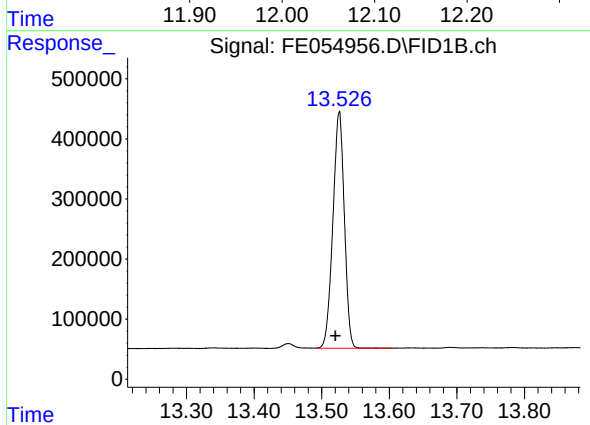




#9 ortho-Terphenyl (SURR)

R.T.: 12.090 min
Delta R.T.: 0.005 min
Response: 5674282
Conc: 34.94 ug/ml

Instrument :
FID_E
ClientSampleId :
MH 9-8



#12 1-chlorooctadecane (SURR)

R.T.: 13.526 min
Delta R.T.: 0.006 min
Response: 4640870
Conc: 36.75 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
 Data File : FE054956.D
 Signal(s) : FID1B.ch
 Acq On : 22 Jul 2025 09:54
 Sample : Q2651-05
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	2.842	2.804	2.893	PV	341	5307	0.09%	0.008%
2	2.914	2.893	2.941	PV	196	3238	0.06%	0.005%
3	2.959	2.941	2.984	VV	173	2496	0.04%	0.004%
4	2.997	2.984	3.020	VV	115	1600	0.03%	0.003%
5	3.035	3.020	3.091	VV	157	3999	0.07%	0.006%
6	3.106	3.091	3.141	VV	133	2382	0.04%	0.004%
7	3.157	3.141	3.184	PV	165	3224	0.06%	0.005%
8	3.194	3.184	3.218	VV	141	1856	0.03%	0.003%
9	3.246	3.218	3.256	VV	252	3486	0.06%	0.005%
10	3.269	3.256	3.281	VV	368	4111	0.07%	0.006%
11	3.288	3.281	3.298	VV	317	2885	0.05%	0.005%
12	3.308	3.298	3.364	VV	280	6538	0.12%	0.010%
13	3.422	3.364	3.452	VV	255	8008	0.14%	0.013%
14	3.464	3.452	3.519	VV	137	4569	0.08%	0.007%
15	3.539	3.519	3.558	VV	187	2805	0.05%	0.004%
16	3.569	3.558	3.586	VV	222	2910	0.05%	0.005%
17	3.606	3.586	3.648	VV	975	12527	0.22%	0.020%
18	3.665	3.648	3.674	VV	137	1895	0.03%	0.003%
19	3.694	3.674	3.778	VV	196	8487	0.15%	0.013%
20	3.781	3.778	3.788	VV	194	869	0.02%	0.001%
21	3.807	3.788	3.843	VV	350	6977	0.12%	0.011%
22	3.856	3.843	3.864	VV	326	3187	0.06%	0.005%
23	3.894	3.864	3.958	VV	3068	37265	0.66%	0.058%
24	3.965	3.958	3.987	VV	156	2488	0.04%	0.004%
25	4.010	3.987	4.048	VV	2274	24913	0.44%	0.039%
26	4.061	4.048	4.074	VV	146	1816	0.03%	0.003%
27	4.101	4.074	4.183	VV	1851	25900	0.46%	0.041%
28	4.222	4.183	4.244	VV	238	7309	0.13%	0.011%
29	4.249	4.244	4.270	VV	261	3268	0.06%	0.005%
30	4.285	4.270	4.298	VV	268	3639	0.06%	0.006%
31	4.305	4.298	4.370	VV	279	9282	0.16%	0.015%
32	4.408	4.370	4.427	VV	558	10493	0.18%	0.016%
33	4.447	4.427	4.483	VV	506	10874	0.19%	0.017%
34	4.490	4.483	4.528	VV	221	5594	0.10%	0.009%
35	4.550	4.528	4.581	VV	270	6285	0.11%	0.010%
36	4.597	4.581	4.611	VV	177	2888	0.05%	0.005%

					rters			
37	4.621	4.611	4.631	VV	200	2041	0.04%	0.003%
38	4.634	4.631	4.647	VV	199	1489	0.03%	0.002%
39	4.681	4.647	4.713	VV	463	9688	0.17%	0.015%
40	4.730	4.713	4.828	VV	212	11313	0.20%	0.018%
41	4.852	4.828	4.868	VV	224	4019	0.07%	0.006%
42	4.874	4.868	4.888	VV	150	1817	0.03%	0.003%
43	4.917	4.888	4.975	VV	377	12483	0.22%	0.020%
44	4.984	4.975	5.034	VV	228	6359	0.11%	0.010%
45	5.056	5.034	5.121	VV	249	9364	0.16%	0.015%
46	5.131	5.121	5.174	VV	201	4941	0.09%	0.008%
47	5.189	5.174	5.242	VV	178	5461	0.10%	0.009%
48	5.250	5.242	5.260	VV	165	1447	0.03%	0.002%
49	5.293	5.260	5.317	VV	175	3775	0.07%	0.006%
50	5.338	5.317	5.349	VV	179	2007	0.04%	0.003%
51	5.356	5.349	5.371	VV	107	1114	0.02%	0.002%
52	5.391	5.371	5.421	VV	165	3486	0.06%	0.005%
53	5.445	5.421	5.463	VV	190	3222	0.06%	0.005%
54	5.504	5.463	5.539	VV	250	5294	0.09%	0.008%
55	5.550	5.539	5.557	VV	64	669	0.01%	0.001%
56	5.565	5.557	5.572	VV	124	648	0.01%	0.001%
57	5.584	5.572	5.593	VV	131	1133	0.02%	0.002%
58	5.628	5.593	5.660	VV	524	7642	0.13%	0.012%
59	5.671	5.660	5.691	VV	144	1767	0.03%	0.003%
60	5.703	5.691	5.772	VV	121	3273	0.06%	0.005%
61	5.779	5.772	5.800	VV	123	1217	0.02%	0.002%
62	5.824	5.800	5.867	VV	428	7192	0.13%	0.011%
63	5.883	5.867	5.965	VV	193	7027	0.12%	0.011%
64	6.023	5.965	6.046	VV	185	5222	0.09%	0.008%
65	6.102	6.046	6.111	PV	178	4251	0.07%	0.007%
66	6.144	6.111	6.207	VV	283	7747	0.14%	0.012%
67	6.237	6.207	6.261	VV	149	3258	0.06%	0.005%
68	6.305	6.261	6.328	VV	146	2804	0.05%	0.004%
69	6.359	6.328	6.384	VV	188	3416	0.06%	0.005%
70	6.404	6.384	6.452	VV	933	14744	0.26%	0.023%
71	6.458	6.452	6.471	VV	177	1742	0.03%	0.003%
72	6.487	6.471	6.531	VV	307	6475	0.11%	0.010%
73	6.562	6.531	6.581	VV	290	5071	0.09%	0.008%
74	6.590	6.581	6.601	VV	165	1633	0.03%	0.003%
75	6.701	6.601	6.731	VV	498	13064	0.23%	0.021%
76	6.756	6.731	6.768	VV	210	3502	0.06%	0.005%
77	6.779	6.768	6.828	VV	166	4786	0.08%	0.008%
78	6.859	6.828	6.902	VV	409	8494	0.15%	0.013%
79	6.928	6.902	6.988	VV	164	4847	0.09%	0.008%
80	7.014	6.988	7.039	VV	273	4496	0.08%	0.007%
81	7.056	7.039	7.104	VV	252	5112	0.09%	0.008%
82	7.150	7.104	7.172	VV	164	4250	0.07%	0.007%
83	7.189	7.172	7.251	VV	221	6136	0.11%	0.010%
84	7.266	7.251	7.298	VV	398	6506	0.11%	0.010%
85	7.314	7.298	7.341	VV	327	4197	0.07%	0.007%
86	7.377	7.341	7.394	VV	396	10313	0.18%	0.016%
87	7.402	7.394	7.421	VV	367	5006	0.09%	0.008%
88	7.437	7.421	7.467	VV	310	6149	0.11%	0.010%
89	7.504	7.467	7.561	VV	542	14654	0.26%	0.023%

					rteres			
90	7.582	7.561	7.624	VV	429	9352	0.16%	0.015%
91	7.643	7.624	7.663	VV	410	5721	0.10%	0.009%
92	7.680	7.663	7.711	VV	285	5595	0.10%	0.009%
93	7.717	7.711	7.741	VV	195	2287	0.04%	0.004%
94	7.776	7.741	7.786	VV	192	4280	0.08%	0.007%
95	7.810	7.786	7.858	VV	703	12413	0.22%	0.019%
96	7.883	7.858	7.918	VV	167	4777	0.08%	0.007%
97	7.932	7.918	7.940	VV	156	1580	0.03%	0.002%
98	7.989	7.940	8.023	VV	267	7241	0.13%	0.011%
99	8.045	8.023	8.064	VV	103	1502	0.03%	0.002%
100	8.226	8.211	8.256	VV	1014	23892	0.42%	0.038%
101	8.272	8.256	8.358	VV	1276	26637	0.47%	0.042%
102	8.393	8.358	8.428	VV	348	10306	0.18%	0.016%
103	8.436	8.428	8.489	VV	339	9399	0.17%	0.015%
104	8.515	8.489	8.560	VV	630	15592	0.27%	0.024%
105	8.585	8.560	8.594	VV	461	7345	0.13%	0.012%
106	8.626	8.594	8.643	VV	993	17050	0.30%	0.027%
107	8.658	8.643	8.669	VV	702	8471	0.15%	0.013%
108	8.703	8.669	8.768	VV	2018	51994	0.92%	0.082%
109	8.816	8.768	8.851	VV	942	24211	0.43%	0.038%
110	8.866	8.851	8.885	VV	385	5052	0.09%	0.008%
111	8.906	8.885	8.934	VV	273	5277	0.09%	0.008%
112	8.946	8.934	8.970	VV	153	2206	0.04%	0.003%
113	9.169	9.140	9.214	VV	702	19148	0.34%	0.030%
114	9.237	9.214	9.268	VV	805	13938	0.25%	0.022%
115	9.295	9.268	9.311	VV	240	5674	0.10%	0.009%
116	9.327	9.311	9.338	VV	353	5048	0.09%	0.008%
117	9.351	9.338	9.374	VV	516	7770	0.14%	0.012%
118	9.390	9.374	9.406	VV	435	5575	0.10%	0.009%
119	9.435	9.406	9.498	VV	1296	32891	0.58%	0.052%
120	9.527	9.498	9.550	VV	1400	21057	0.37%	0.033%
121	9.568	9.550	9.664	VV	694	16856	0.30%	0.026%
122	9.685	9.664	9.703	VV	600	8177	0.14%	0.013%
123	9.717	9.703	9.756	VV	498	7640	0.13%	0.012%
124	9.771	9.756	9.788	VV	273	3282	0.06%	0.005%
125	9.822	9.788	9.846	VV	522	8778	0.15%	0.014%
126	9.874	9.846	9.891	VV	313	6842	0.12%	0.011%
127	9.909	9.891	9.957	VV	876	19386	0.34%	0.030%
128	9.989	9.957	10.015	VV	760	14348	0.25%	0.023%
129	10.031	10.015	10.040	VV	302	4107	0.07%	0.006%
130	10.058	10.040	10.074	VV	423	7485	0.13%	0.012%
131	10.088	10.074	10.108	VV	466	6729	0.12%	0.011%
132	10.147	10.108	10.161	VV	492	9933	0.17%	0.016%
133	10.185	10.161	10.215	VV	11147	122668	2.16%	0.193%
134	10.245	10.215	10.291	VV	654	19608	0.35%	0.031%
135	10.312	10.291	10.391	VV	1416	27764	0.49%	0.044%
136	10.418	10.391	10.468	VV	391	8875	0.16%	0.014%
137	10.491	10.468	10.521	VV	190	4113	0.07%	0.006%
138	10.527	10.521	10.570	VV	122	2114	0.04%	0.003%
139	10.586	10.570	10.608	PV	99	1747	0.03%	0.003%
140	10.660	10.608	10.682	VV	1351	19068	0.34%	0.030%
141	10.704	10.682	10.729	VV	855	13438	0.24%	0.021%

					rteres			
142	10.763	10.729	10.778	VV	528	10876	0.19%	0.017%
143	10.793	10.778	10.816	VV	603	9285	0.16%	0.015%
144	10.840	10.816	10.877	VV	579	10838	0.19%	0.017%
145	10.914	10.877	10.950	VV	485	12973	0.23%	0.020%
146	10.971	10.950	10.995	VV	784	15169	0.27%	0.024%
147	11.009	10.995	11.028	VV	563	8148	0.14%	0.013%
148	11.054	11.028	11.098	VV	1518	25390	0.45%	0.040%
149	11.125	11.098	11.228	VV	1754	41769	0.74%	0.066%
150	11.278	11.228	11.294	VV	375	9068	0.16%	0.014%
151	11.321	11.294	11.361	VV	4709	58388	1.03%	0.092%
152	11.397	11.361	11.428	VV	2419	33489	0.59%	0.053%
153	11.450	11.428	11.494	VV	430	10641	0.19%	0.017%
154	11.510	11.494	11.553	VV	324	6849	0.12%	0.011%
155	11.565	11.553	11.588	VV	202	3087	0.05%	0.005%
156	11.617	11.588	11.651	VV	395	9465	0.17%	0.015%
157	11.690	11.651	11.724	VV	905	18180	0.32%	0.029%
158	11.731	11.724	11.740	VV	446	3773	0.07%	0.006%
159	11.761	11.740	11.791	VV	1592	22240	0.39%	0.035%
160	11.812	11.791	11.821	VV	351	5054	0.09%	0.008%
161	11.850	11.821	11.887	VV	2335	38634	0.68%	0.061%
162	11.921	11.887	11.943	PV	471	9159	0.16%	0.014%
163	11.977	11.943	11.998	VV	1097	16584	0.29%	0.026%
164	12.017	11.998	12.037	VV	381	6801	0.12%	0.011%
165	12.090	12.037	12.118	VV	544318	5679630	100.00%	8.915%
166	12.127	12.118	12.144	VV	2435	27117	0.48%	0.043%
167	12.159	12.144	12.197	VV	2512	33324	0.59%	0.052%
168	12.225	12.197	12.233	VV	983	13955	0.25%	0.022%
169	12.246	12.233	12.262	VV	1406	16999	0.30%	0.027%
170	12.278	12.262	12.294	VV	2134	23862	0.42%	0.037%
171	12.309	12.294	12.350	VV	2069	25185	0.44%	0.040%
172	12.373	12.350	12.394	VV	182	3643	0.06%	0.006%
173	12.432	12.394	12.457	PV	1462	25592	0.45%	0.040%
174	12.486	12.457	12.508	VV	447	9451	0.17%	0.015%
175	12.529	12.508	12.570	VV	1051	15454	0.27%	0.024%
176	12.598	12.570	12.617	PV	914	10072	0.18%	0.016%
177	12.633	12.617	12.646	VV	617	6979	0.12%	0.011%
178	12.677	12.646	12.734	VV	14834	190355	3.35%	0.299%
179	12.744	12.734	12.761	VV	622	8830	0.16%	0.014%
180	12.779	12.761	12.794	VV	650	9727	0.17%	0.015%
181	12.810	12.794	12.841	VV	888	16472	0.29%	0.026%
182	12.851	12.841	12.862	VV	516	5527	0.10%	0.009%
183	12.885	12.862	12.904	VV	728	13309	0.23%	0.021%
184	12.921	12.904	12.961	VV	923	14677	0.26%	0.023%
185	12.983	12.961	13.001	PV	611	8175	0.14%	0.013%
186	13.032	13.001	13.051	VV	2420	34242	0.60%	0.054%
187	13.073	13.051	13.117	VV	2407	45065	0.79%	0.071%
188	13.149	13.117	13.234	VV	5330	78648	1.38%	0.123%
189	13.280	13.234	13.296	VV	608	12109	0.21%	0.019%
190	13.303	13.296	13.318	VV	402	4207	0.07%	0.007%
191	13.339	13.318	13.372	VV	1086	18984	0.33%	0.030%
192	13.400	13.372	13.423	VV	598	11850	0.21%	0.019%
193	13.451	13.423	13.491	VV	8085	103315	1.82%	0.162%
194	13.526	13.491	13.568	VV	391070	4642070	81.73%	7.287%

					rteres			
195	13.580	13.568	13.605	VV	486	8426	0.15%	0.013%
196	13.635	13.605	13.669	VV	578	11867	0.21%	0.019%
197	13.690	13.669	13.714	VV	1356	18028	0.32%	0.028%
198	13.738	13.714	13.764	VV	588	13139	0.23%	0.021%
199	13.782	13.764	13.803	VV	868	12354	0.22%	0.019%
200	13.813	13.803	13.830	VV	253	2260	0.04%	0.004%
201	13.875	13.830	13.889	VV	692	13945	0.25%	0.022%
202	13.919	13.889	13.985	VV	2424	60156	1.06%	0.094%
203	14.040	13.985	14.074	VV	1920	48531	0.85%	0.076%
204	14.096	14.074	14.123	VV	953	21278	0.37%	0.033%
205	14.153	14.123	14.170	VV	967	22078	0.39%	0.035%
206	14.191	14.170	14.211	VV	2020	33145	0.58%	0.052%
207	14.226	14.211	14.251	VV	1366	26171	0.46%	0.041%
208	14.277	14.251	14.291	VV	2178	33288	0.59%	0.052%
209	14.321	14.291	14.343	VV	2627	50335	0.89%	0.079%
210	14.362	14.343	14.391	VV	2072	36448	0.64%	0.057%
211	14.428	14.391	14.467	VV	726	24553	0.43%	0.039%
212	14.499	14.467	14.554	VV	777	26063	0.46%	0.041%
213	14.602	14.554	14.618	VV	283	7476	0.13%	0.012%
214	14.715	14.618	14.734	VV	1060	33428	0.59%	0.052%
215	14.778	14.734	14.821	VV	1264	33349	0.59%	0.052%
216	14.842	14.821	14.864	PV	1570	18335	0.32%	0.029%
217	14.882	14.864	14.897	VV	517	6918	0.12%	0.011%
218	14.916	14.897	14.928	VV	420	6169	0.11%	0.010%
219	14.960	14.928	15.000	VV	2027	37528	0.66%	0.059%
220	15.024	15.000	15.060	VV	1527	20058	0.35%	0.031%
221	15.084	15.060	15.101	VV	958	12484	0.22%	0.020%
222	15.114	15.101	15.128	VV	239	2945	0.05%	0.005%
223	15.148	15.128	15.169	VV	488	6779	0.12%	0.011%
224	15.211	15.169	15.258	VV	687	18419	0.32%	0.029%
225	15.287	15.258	15.297	VV	230	4102	0.07%	0.006%
226	15.334	15.297	15.352	VV	3647	53652	0.94%	0.084%
227	15.378	15.352	15.408	VV	5529	89010	1.57%	0.140%
228	15.428	15.408	15.454	VV	1006	17340	0.31%	0.027%
229	15.493	15.454	15.520	VV	1152	32500	0.57%	0.051%
230	15.543	15.520	15.559	VV	1492	24633	0.43%	0.039%
231	15.576	15.559	15.604	VV	1096	19446	0.34%	0.031%
232	15.649	15.604	15.681	PV	1494	37876	0.67%	0.059%
233	15.772	15.681	15.838	VV	8804	220918	3.89%	0.347%
234	15.854	15.838	15.868	VV	568	8555	0.15%	0.013%
235	15.907	15.868	15.947	VV	2699	54013	0.95%	0.085%
236	15.989	15.947	15.998	VV	2435	34546	0.61%	0.054%
237	16.009	15.998	16.031	VV	2768	34729	0.61%	0.055%
238	16.048	16.031	16.078	VV	1420	18497	0.33%	0.029%
239	16.176	16.078	16.198	PV	1777	46381	0.82%	0.073%
240	16.250	16.198	16.270	VV	747	18219	0.32%	0.029%
241	16.304	16.270	16.323	PV	1030	17688	0.31%	0.028%
242	16.343	16.323	16.355	VV	864	13754	0.24%	0.022%
243	16.372	16.355	16.382	VV	867	10941	0.19%	0.017%
244	16.407	16.382	16.428	VV	3030	46150	0.81%	0.072%
245	16.456	16.428	16.478	VV	1128	26243	0.46%	0.041%
246	16.487	16.478	16.501	VV	336	3369	0.06%	0.005%

					rteres			
247	16.616	16.501	16.641	PV	1084	24881	0.44%	0.039%
248	16.719	16.641	16.742	VV	1089	25671	0.45%	0.040%
249	16.817	16.742	16.839	VV	2037	57065	1.00%	0.090%
250	16.896	16.839	16.956	PV	6817	128791	2.27%	0.202%
251	16.976	16.956	16.987	VV	527	8054	0.14%	0.013%
252	17.026	16.987	17.052	VV	2863	48295	0.85%	0.076%
253	17.082	17.052	17.101	VV	1368	24693	0.43%	0.039%
254	17.121	17.101	17.144	VV	1001	18803	0.33%	0.030%
255	17.196	17.144	17.203	VV	2038	36723	0.65%	0.058%
256	17.222	17.203	17.251	VV	3311	53594	0.94%	0.084%
257	17.280	17.251	17.313	VV	3398	45005	0.79%	0.071%
258	17.361	17.313	17.381	PV	5676	91409	1.61%	0.143%
259	17.399	17.381	17.418	VV	2470	37633	0.66%	0.059%
260	17.440	17.418	17.454	VV	1329	22790	0.40%	0.036%
261	17.475	17.454	17.493	VV	1193	19927	0.35%	0.031%
262	17.592	17.493	17.601	VV	1944	68312	1.20%	0.107%
263	17.652	17.601	17.661	VV	1922	61214	1.08%	0.096%
264	17.729	17.661	17.736	VV	1912	72444	1.28%	0.114%
265	17.810	17.736	17.841	VV	9555	240315	4.23%	0.377%
266	17.863	17.841	17.881	VV	2744	46066	0.81%	0.072%
267	17.897	17.881	17.916	VV	2515	37307	0.66%	0.059%
268	17.946	17.916	17.974	VV	3719	67908	1.20%	0.107%
269	18.001	17.974	18.019	VV	2394	36329	0.64%	0.057%
270	18.036	18.019	18.048	VV	991	9247	0.16%	0.015%
271	18.066	18.048	18.083	VV	659	6495	0.11%	0.010%
272	18.177	18.083	18.188	PV	2531	63944	1.13%	0.100%
273	18.211	18.188	18.222	VV	2828	43091	0.76%	0.068%
274	18.250	18.222	18.300	VV	12425	219161	3.86%	0.344%
275	18.323	18.300	18.366	VV	2394	45485	0.80%	0.071%
276	18.418	18.366	18.435	VV	6156	129309	2.28%	0.203%
277	18.448	18.435	18.488	VV	4127	84740	1.49%	0.133%
278	18.511	18.488	18.528	VV	2902	41216	0.73%	0.065%
279	18.626	18.528	18.644	VV	8285	257298	4.53%	0.404%
280	18.675	18.644	18.718	VV	14382	310636	5.47%	0.488%
281	18.789	18.718	18.807	VV	9903	300053	5.28%	0.471%
282	18.817	18.807	18.840	VV	7122	116235	2.05%	0.182%
283	18.910	18.840	18.984	VV	8277	483083	8.51%	0.758%
284	18.991	18.984	19.002	VV	5575	49697	0.88%	0.078%
285	19.087	19.002	19.118	VV	18474	571075	10.05%	0.896%
286	19.210	19.118	19.234	VV	12567	571001	10.05%	0.896%
287	19.259	19.234	19.281	VV	11917	279672	4.92%	0.439%
288	19.290	19.281	19.311	VV	9912	146994	2.59%	0.231%
289	19.383	19.311	19.406	VV	10528	512551	9.02%	0.805%
290	19.484	19.406	19.514	VV	24548	902627	15.89%	1.417%
291	19.551	19.514	19.571	VV	14234	443016	7.80%	0.695%
292	19.613	19.571	19.622	VV	16031	440485	7.76%	0.691%
293	19.630	19.622	19.648	VV	14837	205889	3.63%	0.323%
294	19.676	19.648	19.692	VV	16400	384301	6.77%	0.603%
295	19.733	19.692	19.755	VV	16094	577050	10.16%	0.906%
296	19.807	19.755	19.828	VV	17595	708484	12.47%	1.112%
297	19.871	19.828	19.894	VV	29345	848430	14.94%	1.332%
298	19.922	19.894	19.941	VV	25290	613784	10.81%	0.963%
299	20.006	19.941	20.028	VV	25719	1201796	21.16%	1.886%

					rteres			
300	20.048	20.028	20.061	VV	24567	461671	8.13%	0.725%
301	20.073	20.061	20.084	VV	23216	325738	5.74%	0.511%
302	20.162	20.084	20.171	VV	28633	1276215	22.47%	2.003%
303	20.248	20.171	20.301	VV	43720	2461019	43.33%	3.863%
304	20.308	20.301	20.344	VV	32678	812447	14.30%	1.275%
305	20.354	20.344	20.363	VV	29037	313671	5.52%	0.492%
306	20.538	20.363	20.574	VV	41149	4376702	77.06%	6.870%
307	20.612	20.574	20.658	VV	49956	2139170	37.66%	3.358%
308	20.701	20.658	20.744	VV	47603	2303341	40.55%	3.616%
309	20.778	20.744	20.826	VV	44153	2062754	36.32%	3.238%
310	20.845	20.826	20.882	VV	41355	1305402	22.98%	2.049%
311	20.910	20.882	20.919	VV	41141	902650	15.89%	1.417%
312	20.936	20.919	20.948	VV	41990	697591	12.28%	1.095%
313	20.986	20.948	21.087	VV	49906	3367532	59.29%	5.286%
314	21.119	21.087	21.129	VV	36836	885403	15.59%	1.390%
315	21.152	21.129	21.172	VV	36216	888263	15.64%	1.394%
316	21.191	21.172	21.208	VV	35844	750850	13.22%	1.179%
317	21.234	21.208	21.255	VV	39203	1025045	18.05%	1.609%
318	21.272	21.255	21.295	VV	38534	885335	15.59%	1.390%
319	21.305	21.295	21.311	VV	35432	338098	5.95%	0.531%
320	21.319	21.311	21.350	VV	35405	787705	13.87%	1.236%
321	21.394	21.350	21.438	VV	34937	1610325	28.35%	2.528%
322	21.445	21.438	21.466	VV	26368	437864	7.71%	0.687%
323	21.483	21.466	21.499	VV	25721	494543	8.71%	0.776%
324	21.528	21.499	21.570	VV	26092	1060204	18.67%	1.664%
325	21.596	21.570	21.661	VV	26832	1327960	23.38%	2.084%
326	21.669	21.661	21.691	VV	23879	387649	6.83%	0.608%
327	21.706	21.691	21.728	VV	22274	439683	7.74%	0.690%
328	21.739	21.728	21.747	VV	18381	209825	3.69%	0.329%
329	21.757	21.747	21.790	VV	20011	457820	8.06%	0.719%
330	21.804	21.790	21.829	VV	18491	393538	6.93%	0.618%
331	21.862	21.829	21.889	VV	23321	678309	11.94%	1.065%
332	21.897	21.889	21.929	VV	16389	365373	6.43%	0.574%
333	21.940	21.929	21.980	VV	14649	393156	6.92%	0.617%
334	21.991	21.980	22.069	VV	12943	445831	7.85%	0.700%
335	22.077	22.069	22.097	VV	5965	80358	1.41%	0.126%
336	22.167	22.097	22.177	VV	6287	217026	3.82%	0.341%
337	22.186	22.177	22.198	VV	4402	38884	0.68%	0.061%
338	22.208	22.198	22.219	VV	3250	31621	0.56%	0.050%
339	22.318	22.219	22.350	VV	5639	208099	3.66%	0.327%
Sum of corrected areas:					63707320			

Aliphatic EPH 062725.M Wed Jul 23 05:15:06 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FE062725AL

AreaCount

Parameter Range	FE054608.D	FE054609.D	FE054610.D	FE054611.D	FE054612.D	
Aliphatic C9-C12	38319626.000	18841259.000	7903525.000	4345683.000	2255301.000	
Aliphatic C12-C16	26299885.000	12905734.000	5443215.000	2993160.000	1565455.000	
Aliphatic C16-C21	40647007.000	19884289.000	8390490.000	4604333.000	2408955.000	
Aliphatic C21-C28	54422256.000	26660814.000	11204648.000	6127397.000	3213117.000	
Aliphatic C28-C40	69156138.000	36606449.000	15572202.000	9126447.000	5222398.000	
Aliphatic EPH	228844912.000	114898545.000	48514080.000	27197020.000	14665226.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	136055.079333	8.044				
Aliphatic C12-C16	140568.128	8.513				
Aliphatic C16-C21	144393.643333	8.376				
Aliphatic C21-C28	144651.717	8.126				
Aliphatic C28-C40	138647.4919998	17.441				
Aliphatic EPH	140720.791333	11.192				

Concentration

Parameter Range	FE054608.D	FE054609.D	FE054610.D	FE054611.D	FE054612.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	FE054608.D	FE054609.D	FE054610.D	FE054611.D	FE054612.D	
Aliphatic C9-C12	127732.086666	125608.393333	131725.416666	144856.100000	150353.400000	
Aliphatic C12-C16	131499.425000	129057.340000	136080.375000	149658.000000	156545.500000	
Aliphatic C16-C21	135490.023333	132561.926666	139841.500000	153477.766666	160597.000000	

Initial Calibration Report for SequenceID : FE062725AL

Aliphatic C21-C28	136055.640000	133304.070000	140058.100000	153184.925000	160655.850000	
Aliphatic C28-C40	115260.230000	122021.496666	129768.350000	152107.450000	174079.933333	
Aliphatic EPH	127136.062222	127665.050000	134761.333333	151094.555555	162946.955555	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
 Data File : FE054608.D
 Signal(s) : FID1B.ch
 Acq On : 27 Jun 2025 12:53
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Jun 27 14:25:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Fri Jun 27 14:25:10 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)	12.071	15261711	98.315 ug/ml
Spiked Amount 50.000		Recovery =	196.63%
12) S 1-chlorooctadecane (S...	13.503	11912385	98.558 ug/ml
Spiked Amount 50.000		Recovery =	197.12%
Target Compounds			
1) T n-Nonane (C9)	3.421	12635864	98.501 ug/ml
2) T n-Decane (C10)	4.676	12802268	98.438 ug/ml
3) T A~Naphthalene (C11.7)	6.388	14212427	98.414 ug/ml
4) T n-Dodecane (C12)	6.848	12881494	98.444 ug/ml
5) T A~2-methylnaphthalene...	7.488	13806245	98.393 ug/ml
6) T n-Tetradecane (C14)	8.683	12896740	98.170 ug/ml
7) T n-Hexadecane (C16)	10.296	13403145	98.402 ug/ml
8) T n-Octadecane (C18)	11.745	13738504	98.383 ug/ml
10) T n-Eicosane (C20)	13.057	13489369	98.417 ug/ml
11) T n-Heneicosane (C21)	13.671	13419134	98.460 ug/ml
13) T n-Docosane (C22)	14.257	13479858	98.591 ug/ml
14) T n-Tetracosane (C24)	15.363	13696854	98.641 ug/ml
15) T n-Hexacosane (C26)	16.386	13694406	98.865 ug/ml
16) T n-Octacosane (C28)	17.337	13551138	98.105 ug/ml
17) T n-Tricontane (C30)	18.224	13754161	95.716 ug/ml
18) T n-Dotriacontane (C32)	19.056	13143119	93.127 ug/ml
19) T n-Tetratriacontane (C34)	19.839	12141560	91.978 ug/ml
20) T n-Hexatriacontane (C36)	20.578	11077409	94.492 ug/ml
21) T n-Octatriacontane (C38)	21.352	9810489	94.258 ug/ml
22) T n-Tetracontane (C40)	22.334	9229400	95.208 ug/ml

(f)=RT Delta > 1/2 Window

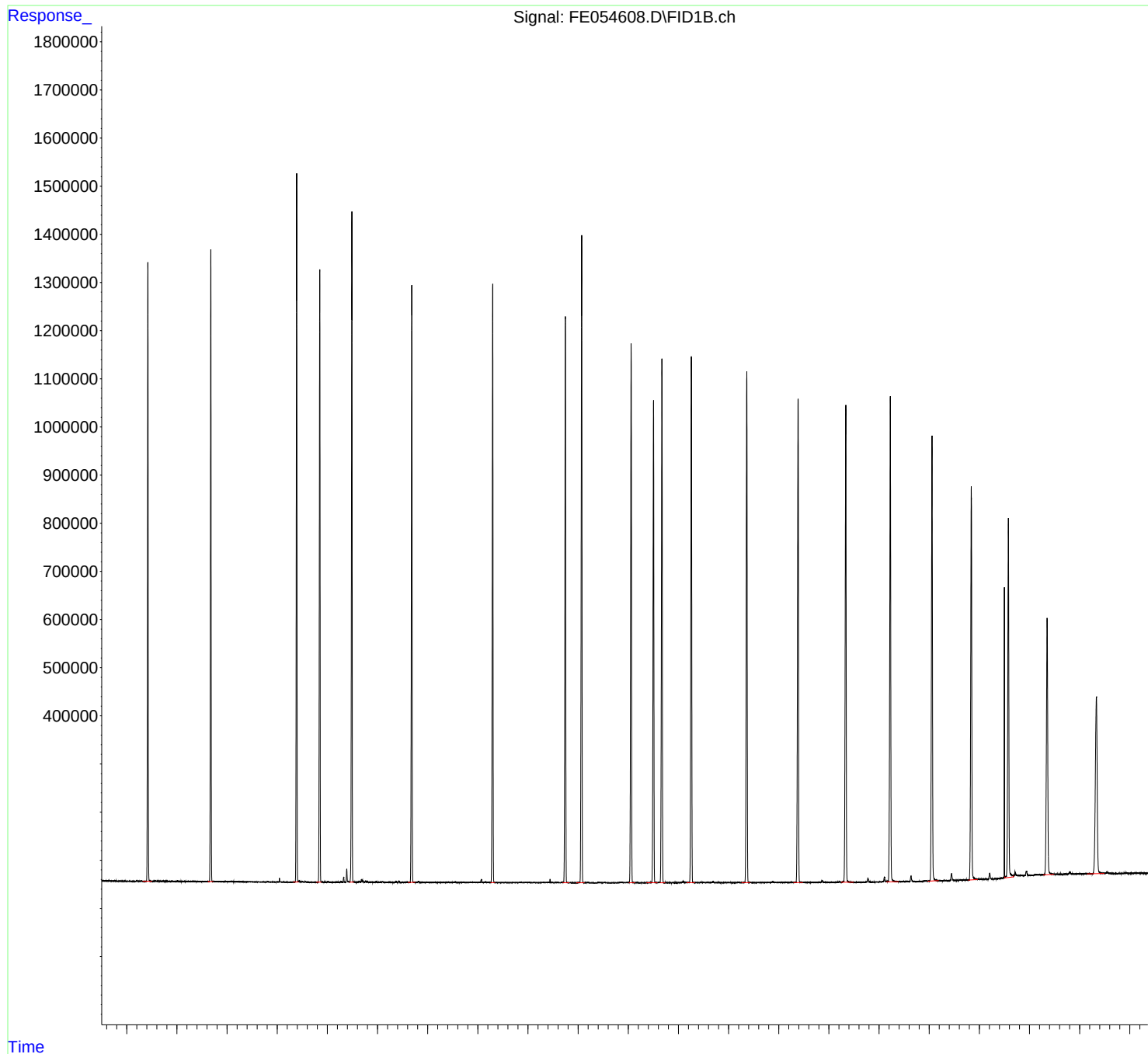
(m)=manual int.

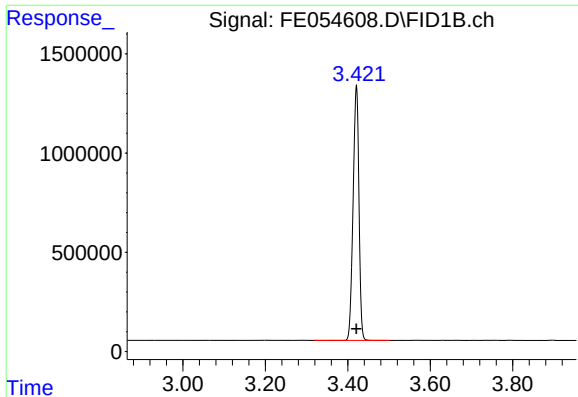
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054608.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 12:53
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jun 27 14:25:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Fri Jun 27 14:25:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 u1
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

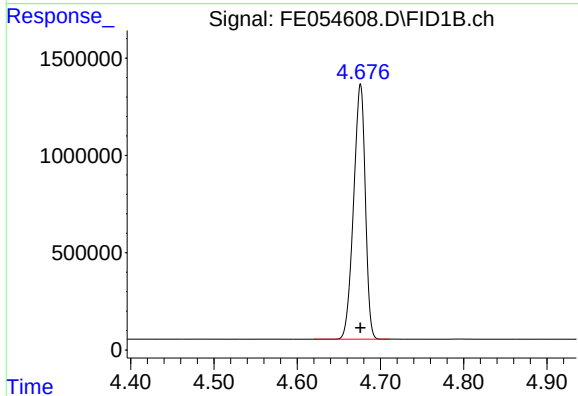




#1 n-Nonane (C9)

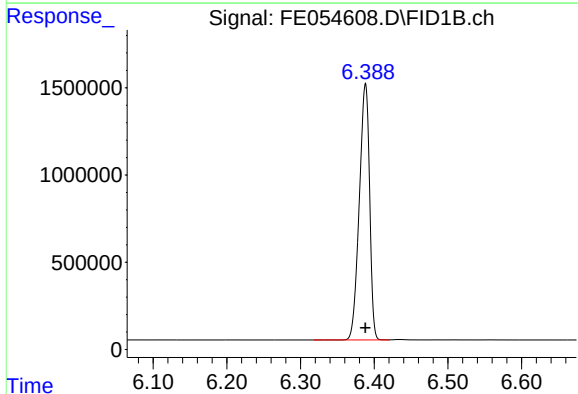
R.T.: 3.421 min
Delta R.T.: 0.000 min
Response: 12635864
Conc: 98.50 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



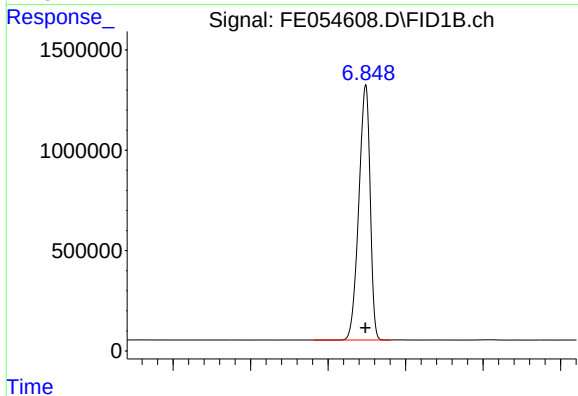
#2 n-Decane (C10)

R.T.: 4.676 min
Delta R.T.: 0.000 min
Response: 12802268
Conc: 98.44 ug/ml



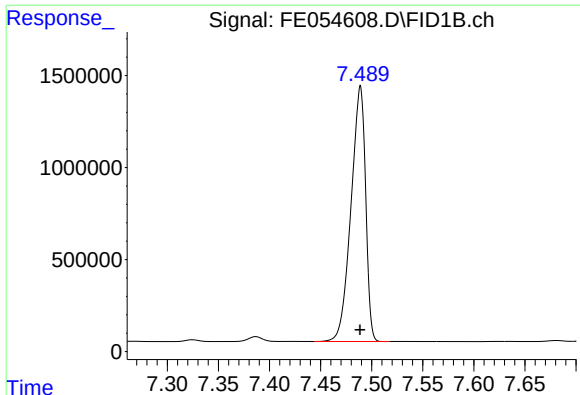
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 14212427
Conc: 98.41 ug/ml



#4 n-Dodecane (C12)

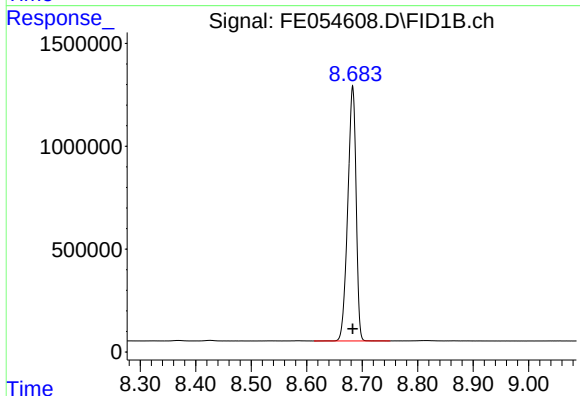
R.T.: 6.848 min
Delta R.T.: 0.000 min
Response: 12881494
Conc: 98.44 ug/ml



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

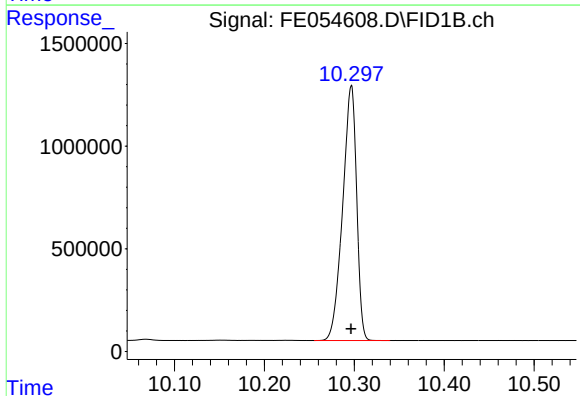
R.T.: 7.488 min
Delta R.T.: 0.000 min
Response: 13806245
Conc: 98.39 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



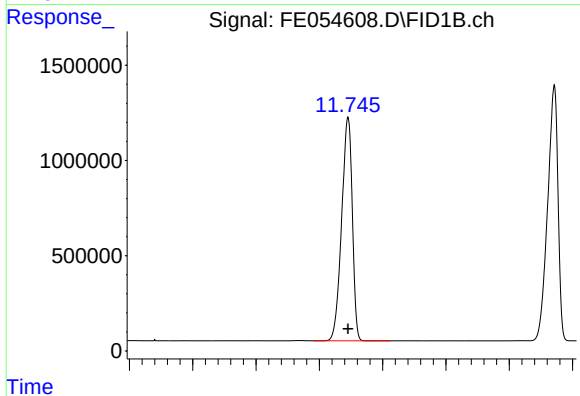
#6 n-Tetradecane (C14)

R.T.: 8.683 min
Delta R.T.: 0.000 min
Response: 12896740
Conc: 98.17 ug/ml



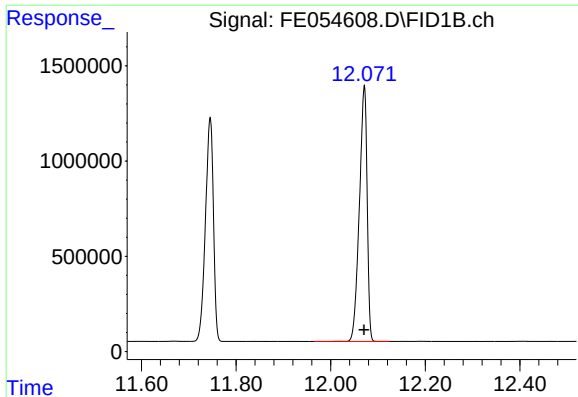
#7 n-Hexadecane (C16)

R.T.: 10.296 min
Delta R.T.: 0.000 min
Response: 13403145
Conc: 98.40 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.745 min
Delta R.T.: 0.000 min
Response: 13738504
Conc: 98.38 ug/ml



#9 ortho-Terphenyl (SURR)

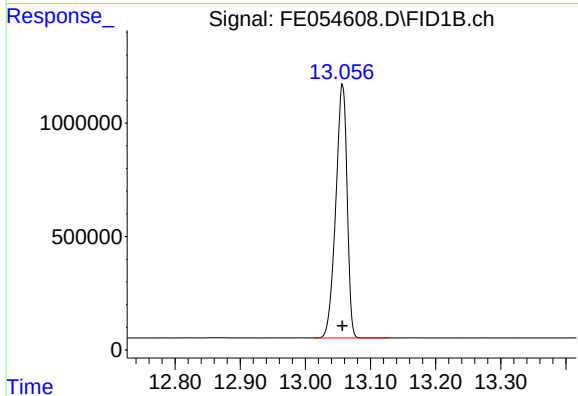
R.T.: 12.071 min
Delta R.T.: 0.000 min
Response: 15261711
Conc: 98.32 ug/ml

Instrument :

FID_E

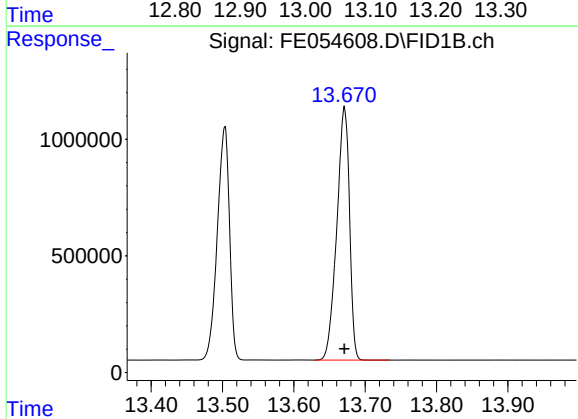
ClientSampleId :

100 PPM ALIPHATIC HC STD1



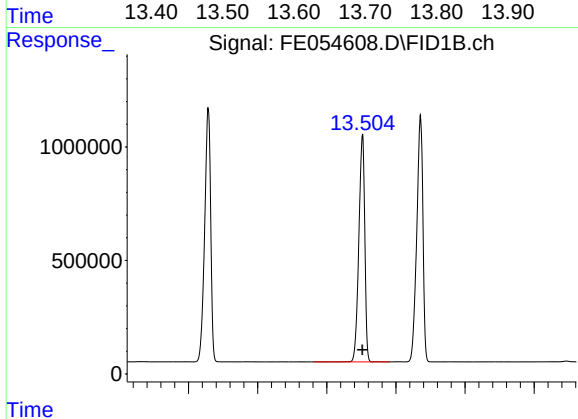
#10 n-Eicosane (C20)

R.T.: 13.057 min
Delta R.T.: 0.000 min
Response: 13489369
Conc: 98.42 ug/ml



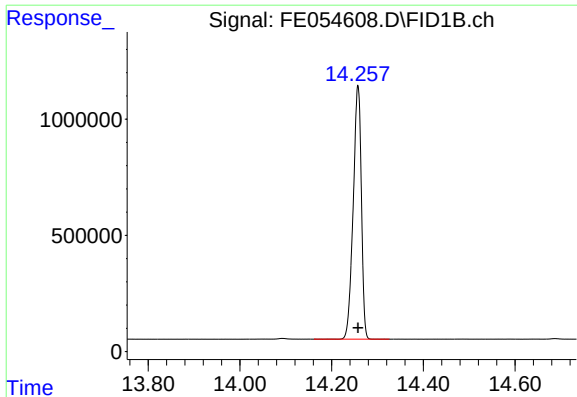
#11 n-Heneicosane (C21)

R.T.: 13.671 min
Delta R.T.: 0.000 min
Response: 13419134
Conc: 98.46 ug/ml



#12 1-chlorooctadecane (SURR)

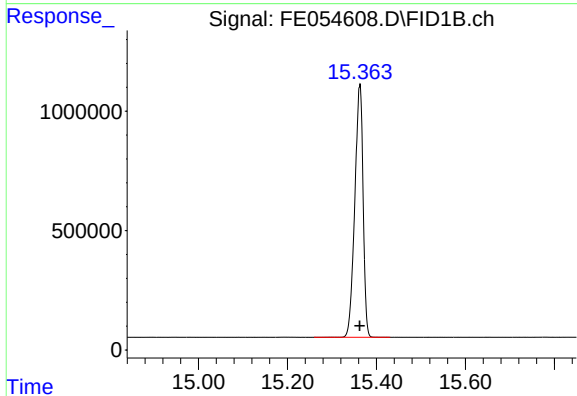
R.T.: 13.503 min
Delta R.T.: 0.000 min
Response: 11912385
Conc: 98.56 ug/ml



#13 n-Docosane (C22)

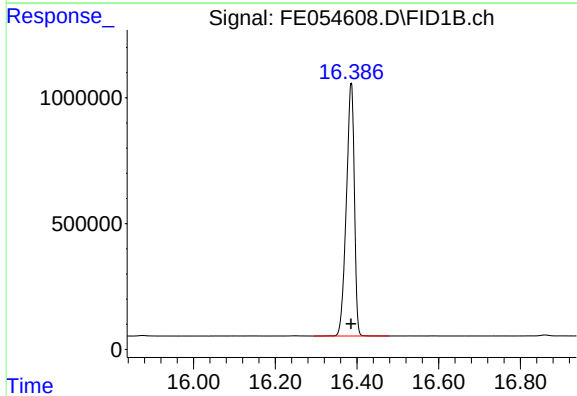
R.T.: 14.257 min
Delta R.T.: 0.000 min
Response: 13479858
Conc: 98.59 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



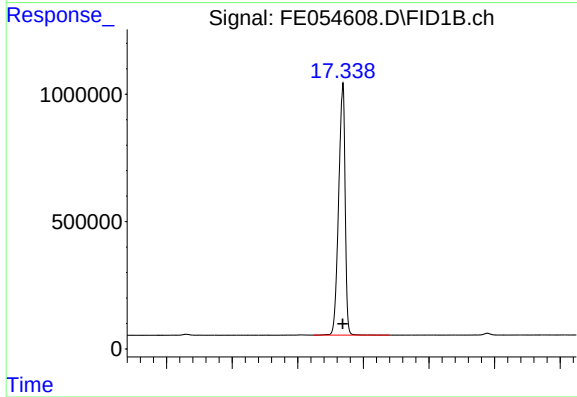
#14 n-Tetracosane (C24)

R.T.: 15.363 min
Delta R.T.: 0.000 min
Response: 13696854
Conc: 98.64 ug/ml



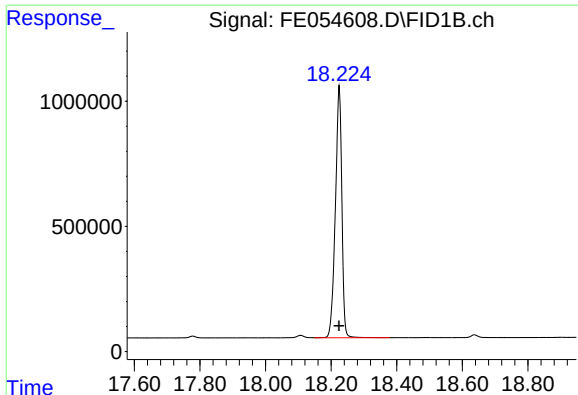
#15 n-Hexacosane (C26)

R.T.: 16.386 min
Delta R.T.: 0.000 min
Response: 13694406
Conc: 98.86 ug/ml



#16 n-Octacosane (C28)

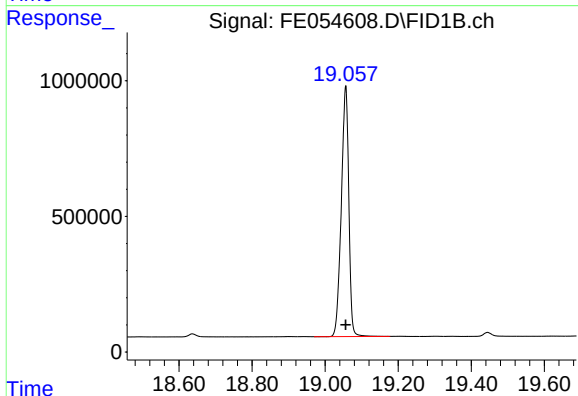
R.T.: 17.337 min
Delta R.T.: 0.000 min
Response: 13551138
Conc: 98.10 ug/ml



#17 n-Tricontane (C30)

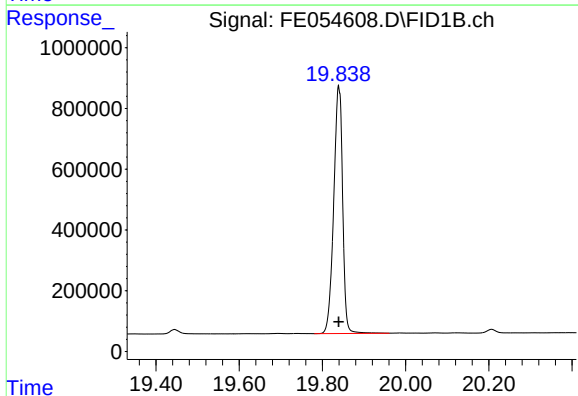
R.T.: 18.224 min
Delta R.T.: 0.000 min
Response: 13754161
Conc: 95.72 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



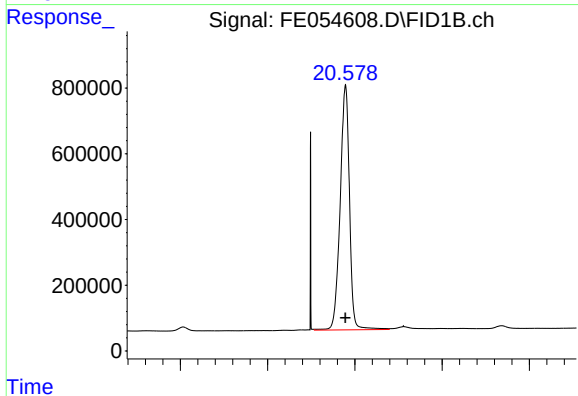
#18 n-Dotriacontane (C32)

R.T.: 19.056 min
Delta R.T.: 0.000 min
Response: 13143119
Conc: 93.13 ug/ml



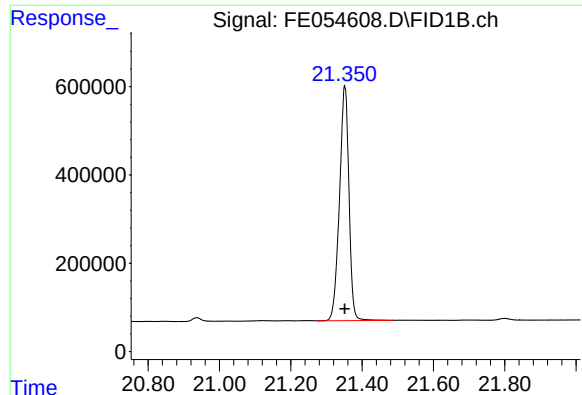
#19 n-Tetratriacontane (C34)

R.T.: 19.839 min
Delta R.T.: 0.000 min
Response: 12141560
Conc: 91.98 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.578 min
Delta R.T.: 0.000 min
Response: 11077409
Conc: 94.49 ug/ml



#21 n-Octatriacontane (C38)

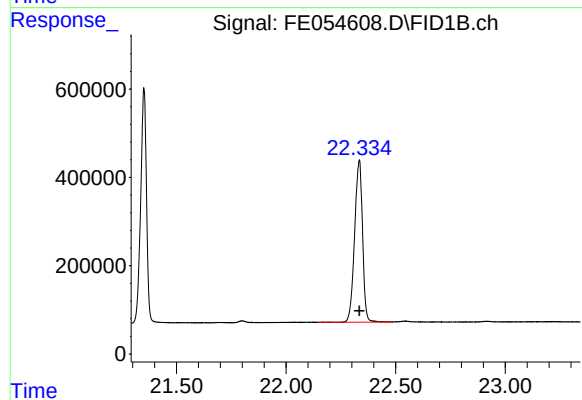
R.T.: 21.352 min
Delta R.T.: 0.000 min
Response: 9810489
Conc: 94.26 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.334 min
Delta R.T.: 0.000 min
Response: 9229400
Conc: 95.21 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054608.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 12:53
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	3.421	3.319	3.500	BB	1283528	12635864	82.79%	4.449%
2	4.676	4.620	4.710	BV	1312539	12802268	83.88%	4.507%
3	6.388	6.319	6.420	BV	1479361	14212427	93.12%	5.004%
4	6.848	6.782	6.879	BV	1278516	12881494	84.40%	4.535%
5	7.488	7.444	7.517	VV	1394772	13806245	90.46%	4.861%
6	8.683	8.614	8.749	PB	1234943	12896740	84.50%	4.541%
7	10.296	10.255	10.339	PB	1250423	13403145	87.82%	4.719%
8	11.745	11.692	11.810	VB	1176747	13738504	90.02%	4.837%
9	12.071	11.965	12.124	BB	1336962	15261711	100.00%	5.373%
10	13.057	13.014	13.129	PB	1115976	13489369	88.39%	4.749%
11	13.503	13.364	13.580	BV	997573	11912385	78.05%	4.194%
12	13.671	13.629	13.734	VB	1084496	13419134	87.93%	4.724%
13	14.257	14.162	14.325	BB	1093867	13479858	88.32%	4.746%
14	15.363	15.260	15.429	BB	1054542	13696854	89.75%	4.822%
15	16.386	16.295	16.479	BB	1005481	13694406	89.73%	4.821%
16	17.337	17.250	17.479	BB	985681	13551138	88.79%	4.771%
17	18.224	18.149	18.377	VB	1004571	13754161	90.12%	4.842%
18	19.056	18.970	19.175	BV	923456	13143119	86.12%	4.627%
19	19.839	19.780	19.960	BV	814419	12141560	79.56%	4.275%
20	20.578	20.507	20.679	VV	746760	11077409	72.58%	3.900%
21	21.352	21.277	21.487	BV	529504	9810489	64.28%	3.454%
22	22.334	22.147	22.489	BV	367080	9229400	60.47%	3.249%
Sum of corrected areas:						284037678		

Aliphatic EPH 062725.M Sat Jun 28 02:13:46 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
 Data File : FE054609.D
 Signal(s) : FID1B.ch
 Acq On : 27 Jun 2025 13:23
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/30/2025
 Supervised By :mohammad ahmed 06/30/2025

Integration File: autoint1.e
 Quant Time: Jun 27 14:26:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 Qlast Update : Fri Jun 27 14:26:43 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)	12.065	7472405	48.742 ug/ml
Spiked Amount 50.000		Recovery =	97.48%
12) S 1-chlorooctadecane (S...	13.499	5810376	48.698 ug/ml
Spiked Amount 50.000		Recovery =	97.40%
Target Compounds			
1) T n-Nonane (C9)	3.418	6226788	49.017 ug/ml
2) T n-Decane (C10)	4.673	6290394	48.900 ug/ml
3) T A~Naphthalene (C11.7)	6.384	6971284	48.835 ug/ml
4) T n-Dodecane (C12)	6.845	6324077	48.874 ug/ml
5) T A~2-methylnaphthalene...	7.484	6781515	48.874 ug/ml
6) T n-Tetradecane (C14)	8.679	6340887	48.831 ug/ml
7) T n-Hexadecane (C16)	10.292	6564847	48.783 ug/ml
8) T n-Octadecane (C18)	11.741	6726768	48.766 ug/ml
10) T n-Eicosane (C20)	13.053	6597648	48.742 ug/ml
11) T n-Heneicosane (C21)	13.666	6559873	48.739 ug/ml
13) T n-Docosane (C22)	14.254	6582801	48.749 ug/ml
14) T n-Tetracosane (C24)	15.358	6691637	48.779 ug/ml
15) T n-Hexacosane (C26)	16.381	6698709	48.895 ug/ml
16) T n-Octacosane (C28)	17.331	6687667	48.933 ug/ml
17) T n-Tricontane (C30)	18.220	7024431	49.250 ug/ml
18) T n-Dotriacontane (C32)	19.053	7061554	50.024 ug/ml
19) T n-Tetratriacontane (C34)	19.836	6627704	50.139 ug/ml
20) T n-Hexatriacontane (C36)	20.576	5878224	50.095 ug/ml
21) T n-Octatriacontane (C38)	21.348	5181070	49.853 ug/ml
22) T n-Tetracontane (C40)	22.327	4833466	49.907 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054609.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 13:23
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 7 Sample Multiplier: 1

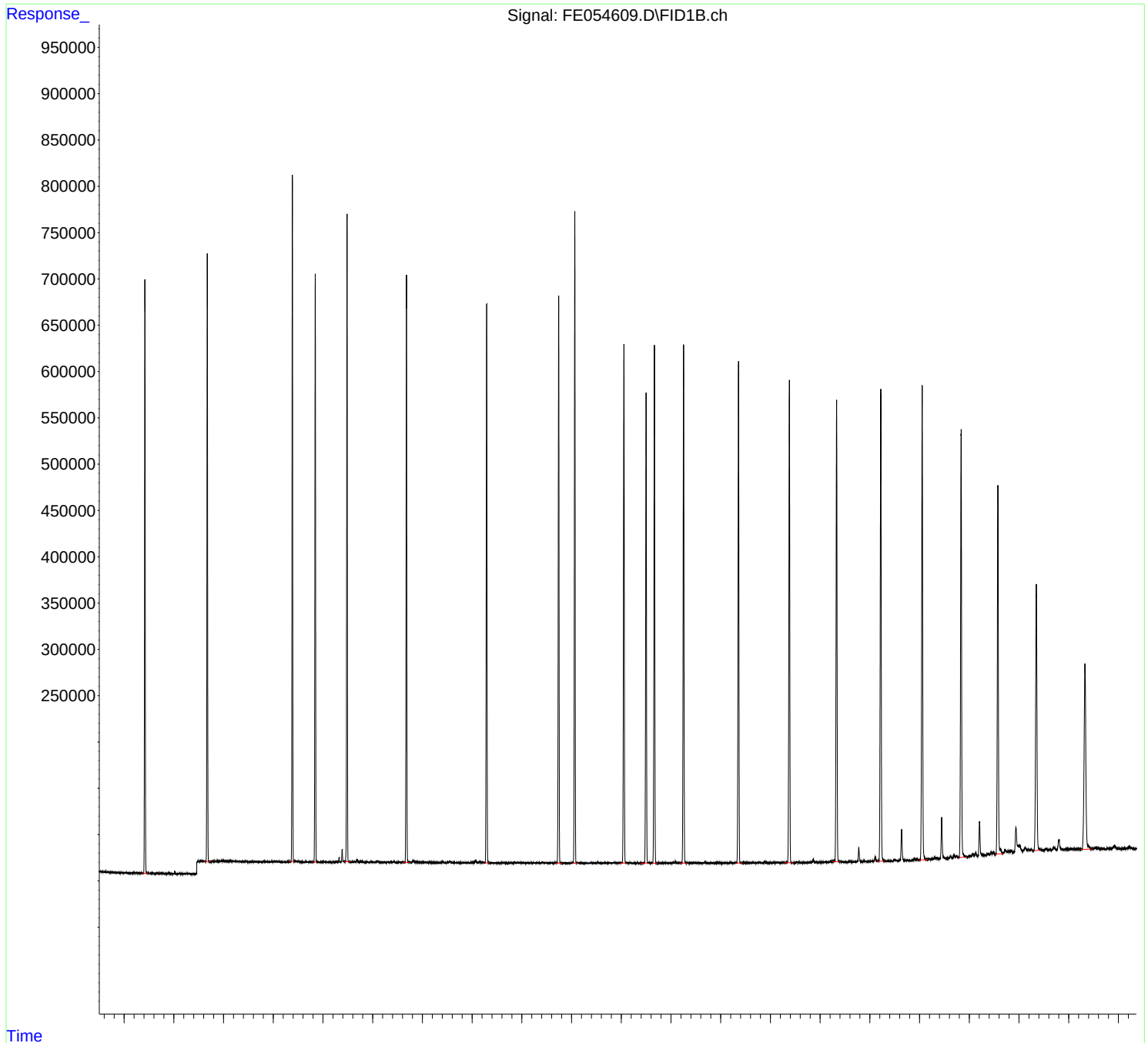
Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

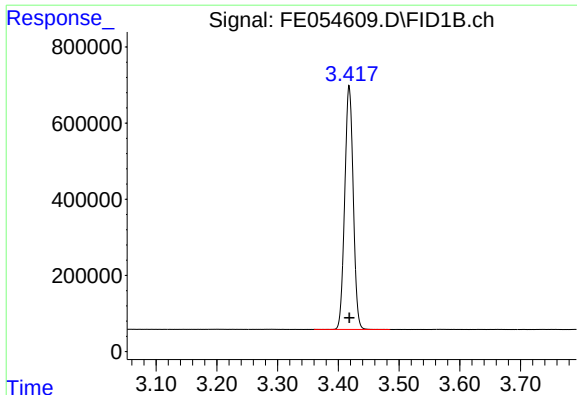
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/30/2025
Supervised By :mohammad ahmed 06/30/2025

Integration File: autoint1.e
Quant Time: Jun 27 14:26:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Fri Jun 27 14:26:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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





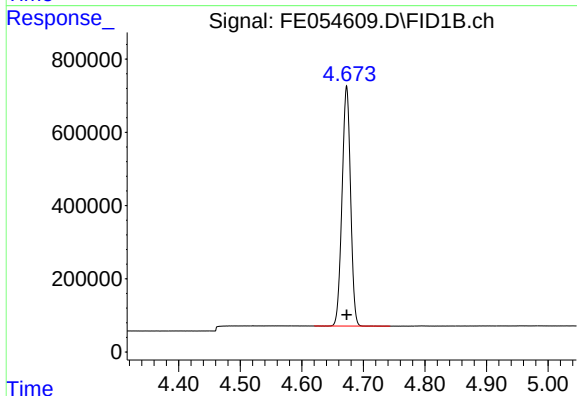
#1 n-Nonane (C9)

R.T.: 3.418 min
Delta R.T.: 0.000 min
Response: 6226788
Conc: 49.02 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

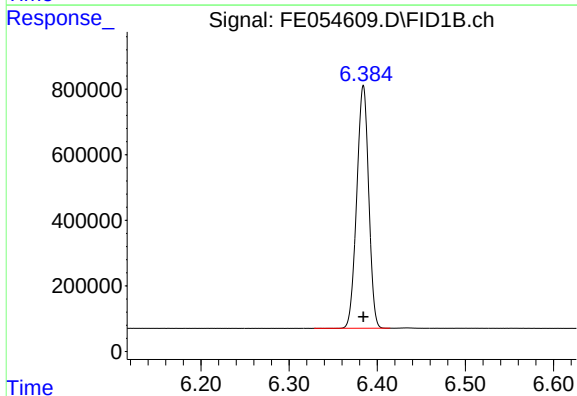
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/30/2025
Supervised By :mohammad ahmed 06/30/2025



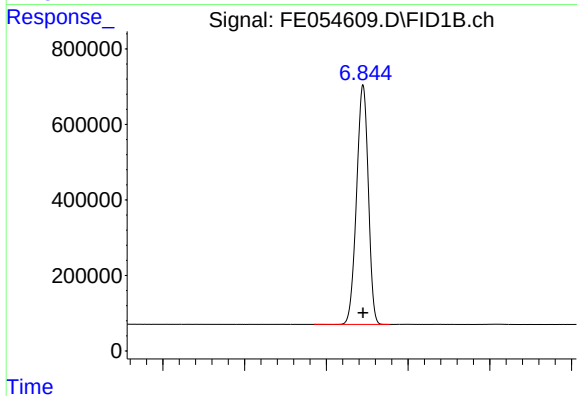
#2 n-Decane (C10)

R.T.: 4.673 min
Delta R.T.: 0.000 min
Response: 6290394
Conc: 48.90 ug/ml



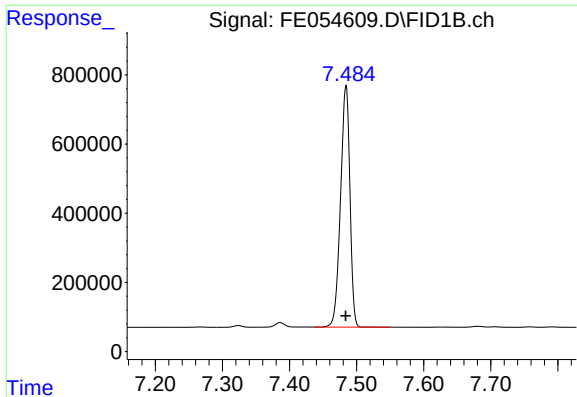
#3 A~Naphthalene (C11.7)

R.T.: 6.384 min
Delta R.T.: 0.000 min
Response: 6971284
Conc: 48.83 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.845 min
Delta R.T.: 0.000 min
Response: 6324077
Conc: 48.87 ug/ml



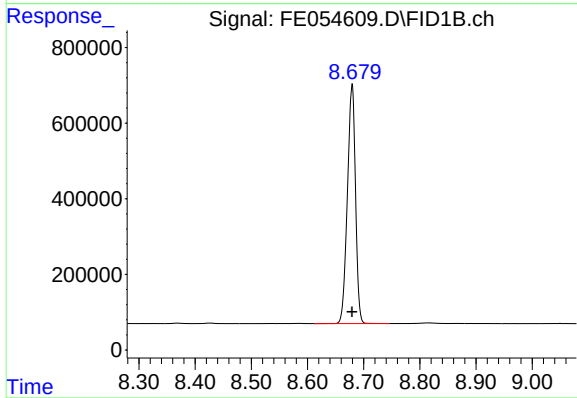
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.484 min
Delta R.T.: 0.000 min
Response: 6781515
Conc: 48.87 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

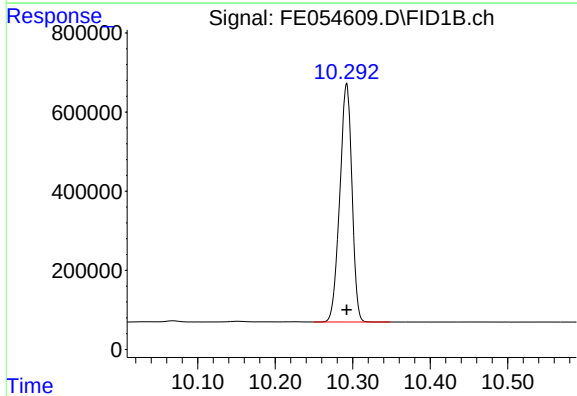
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/30/2025
Supervised By :mohammad ahmed 06/30/2025



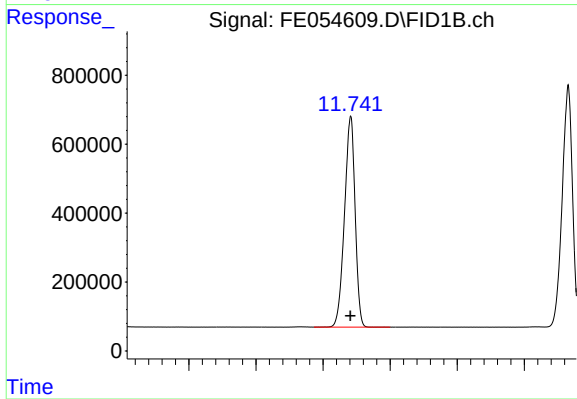
#6 n-Tetradecane (C14)

R.T.: 8.679 min
Delta R.T.: 0.000 min
Response: 6340887
Conc: 48.83 ug/ml



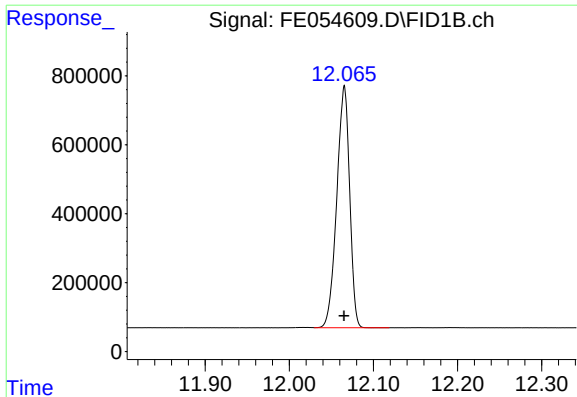
#7 n-Hexadecane (C16)

R.T.: 10.292 min
Delta R.T.: 0.000 min
Response: 6564847
Conc: 48.78 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.741 min
Delta R.T.: 0.000 min
Response: 6726768
Conc: 48.77 ug/ml



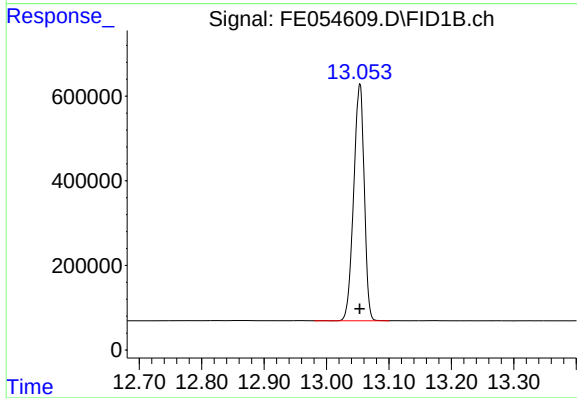
#9 ortho-Terphenyl (SURR)

R.T.: 12.065 min
Delta R.T.: 0.000 min
Response: 7472405
Conc: 48.74 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

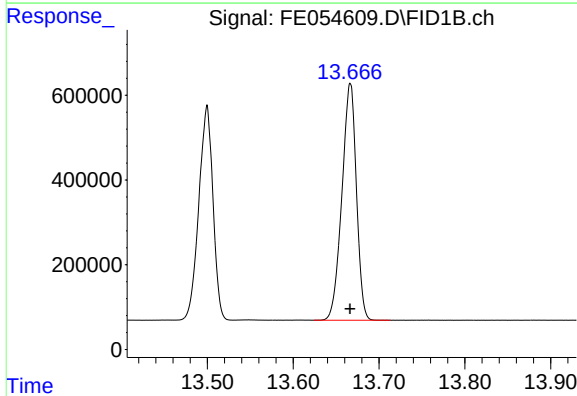
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/30/2025
Supervised By :mohammad ahmed 06/30/2025



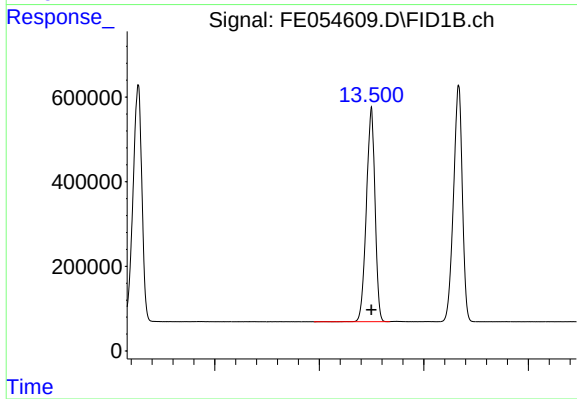
#10 n-Eicosane (C20)

R.T.: 13.053 min
Delta R.T.: 0.000 min
Response: 6597648
Conc: 48.74 ug/ml



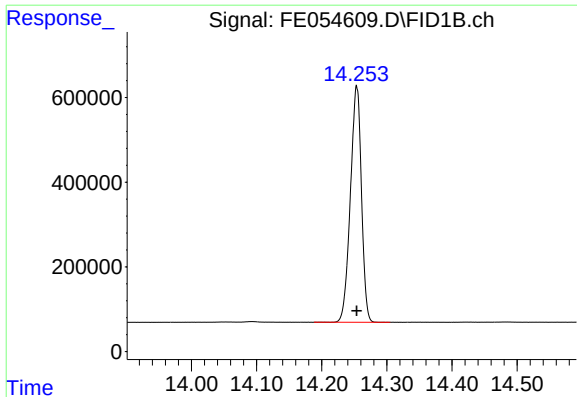
#11 n-Heneicosane (C21)

R.T.: 13.666 min
Delta R.T.: 0.000 min
Response: 6559873
Conc: 48.74 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.499 min
Delta R.T.: 0.000 min
Response: 5810376
Conc: 48.70 ug/ml



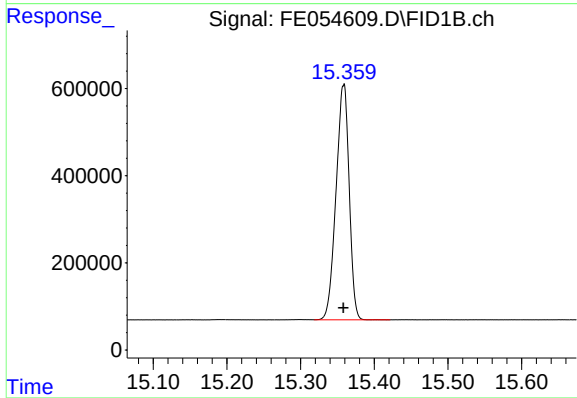
#13 n-Docosane (C22)

R.T.: 14.254 min
Delta R.T.: 0.000 min
Response: 6582801
Conc: 48.75 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

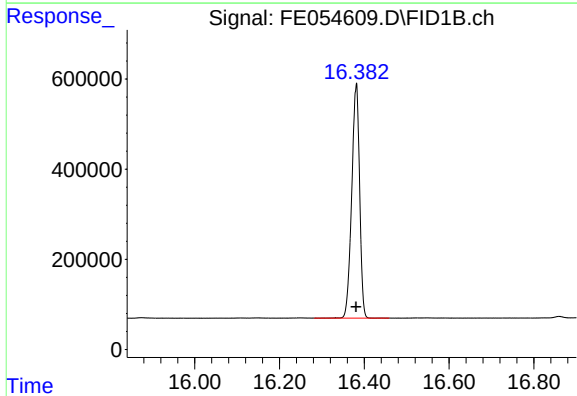
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/30/2025
Supervised By :mohammad ahmed 06/30/2025



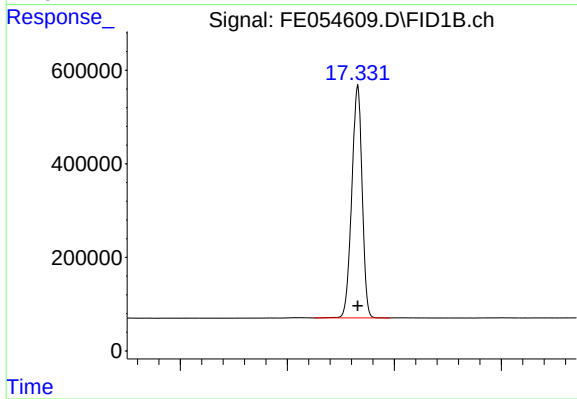
#14 n-Tetracosane (C24)

R.T.: 15.358 min
Delta R.T.: 0.000 min
Response: 6691637
Conc: 48.78 ug/ml



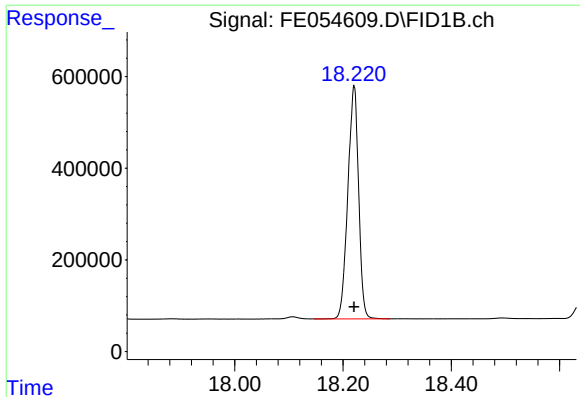
#15 n-Hexacosane (C26)

R.T.: 16.381 min
Delta R.T.: 0.000 min
Response: 6698709
Conc: 48.89 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.331 min
Delta R.T.: 0.000 min
Response: 6687667
Conc: 48.93 ug/ml



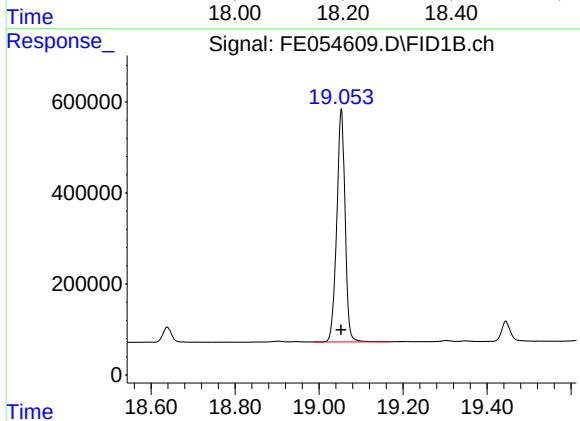
#17 n-Tricontane (C30)

R.T.: 18.220 min
Delta R.T.: 0.000 min
Response: 7024431
Conc: 49.25 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

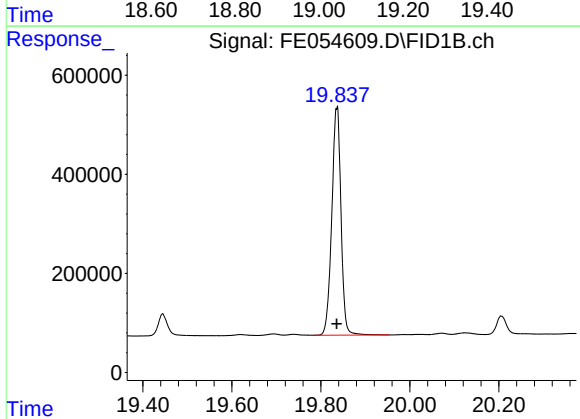
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/30/2025
Supervised By :mohammad ahmed 06/30/2025



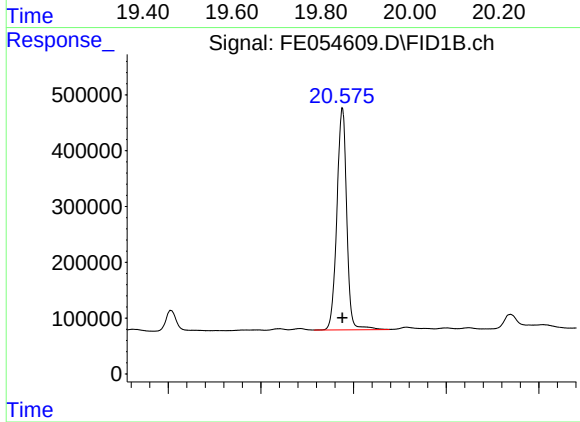
#18 n-Dotriacontane (C32)

R.T.: 19.053 min
Delta R.T.: 0.000 min
Response: 7061554
Conc: 50.02 ug/ml



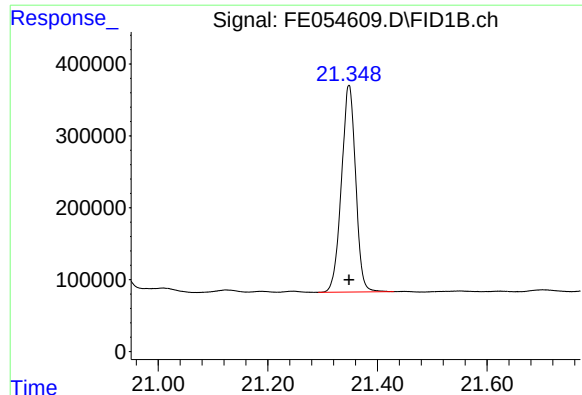
#19 n-Tetratriacontane (C34)

R.T.: 19.836 min
Delta R.T.: 0.000 min
Response: 6627704
Conc: 50.14 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.576 min
Delta R.T.: 0.000 min
Response: 5878224
Conc: 50.09 ug/ml



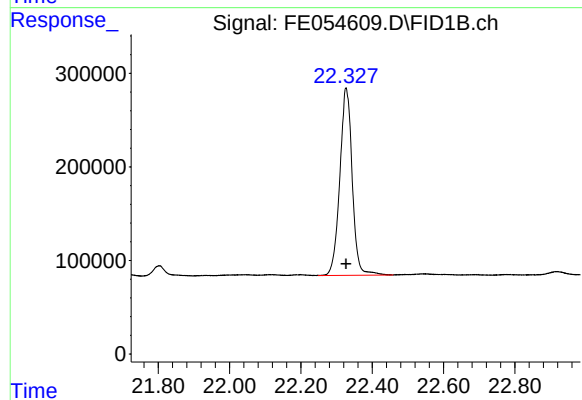
#21 n-Octatriacontane (C38)

R.T.: 21.348 min
Delta R.T.: 0.000 min
Response: 5181070
Conc: 49.85 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/30/2025
Supervised By :mohammad ahmed 06/30/2025



#22 n-Tetracontane (C40)

R.T.: 22.327 min
Delta R.T.: 0.000 min
Response: 4833466
Conc: 49.91 ug/ml

rteres

Instrument :
FID_E
LabSampleId :
50 PPM ALIPHATIC HC STD2
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE06272
Data File : FE054609.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 13:23
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 06/30/2025
Supervised By :mohammad ahmed 06/30/2025

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	3.360	3.484	BB	636637	6226788	83.33%	4.387%
2	4.673	4.620	4.742	BB	656352	6290394	84.18%	4.432%
3	6.384	6.329	6.414	BV	740919	6971284	93.29%	4.912%
4	6.845	6.785	6.877	BV	635637	6324077	84.63%	4.456%
5	7.484	7.437	7.549	BB	696784	6781515	90.75%	4.778%
6	8.679	8.612	8.745	BB	627912	6340887	84.86%	4.467%
7	10.292	10.250	10.347	BB	602896	6564847	87.85%	4.625%
8	11.741	11.687	11.799	VB	609597	6726768	90.02%	4.739%
9	12.065	12.030	12.119	VB	704192	7472405	100.00%	5.265%
10	13.053	12.980	13.100	BB	562485	6597648	88.29%	4.648%
11	13.499	13.390	13.534	BV	501995	5810376	77.76%	4.094%
12	13.666	13.625	13.712	PB	560211	6559873	87.79%	4.622%
13	14.254	14.189	14.304	BB	559020	6582801	88.09%	4.638%
14	15.358	15.319	15.420	VB	539298	6691637	89.55%	4.715%
15	16.381	16.282	16.459	BB	513585	6698709	89.65%	4.720%
16	17.331	17.250	17.390	BV	499581	6687667	89.50%	4.712%
17	18.220	18.147	18.285	VB	509924	7024431	94.00%	4.949%
18	19.053	18.989	19.167	BB	510669	7061554	94.50%	4.975%
19	19.836	19.785	19.954	VV	457918	6627704	88.70%	4.670%
20	20.576	20.515	20.677	VV	398656	5878224	78.67%	4.142%
21	21.348	21.292	21.429	PV	287822	5181070	69.34%	3.650%
22	22.327	22.249	22.459	BV	200256	4833466	64.68%	3.405%
Sum of corrected areas:						141934123		

Aliphatic EPH 062725.M Sat Jun 28 02:15:27 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
 Data File : FE054610.D
 Signal(s) : FID1B.ch
 Acq On : 27 Jun 2025 13:53
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Jun 27 14:22:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Fri Jun 27 14:22:06 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)	12.062	3156943	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.497	2452207	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.417	2604070	20.000 ug/ml
2) T n-Decane (C10)	4.672	2641707	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.383	2934117	20.000 ug/ml
4) T n-Dodecane (C12)	6.844	2657748	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.482	2851436	20.000 ug/ml
6) T n-Tetradecane (C14)	8.677	2675509	20.000 ug/ml
7) T n-Hexadecane (C16)	10.290	2767706	20.000 ug/ml
8) T n-Octadecane (C18)	11.737	2838043	20.000 ug/ml
10) T n-Eicosane (C20)	13.050	2784649	20.000 ug/ml
11) T n-Heneicosane (C21)	13.664	2767798	20.000 ug/ml
13) T n-Docosane (C22)	14.251	2773055	20.000 ug/ml
14) T n-Tetracosane (C24)	15.356	2814871	20.000 ug/ml
15) T n-Hexacosane (C26)	16.378	2801775	20.000 ug/ml
16) T n-Octacosane (C28)	17.329	2814947	20.000 ug/ml
17) T n-Tricontane (C30)	18.217	2997062	20.000 ug/ml
18) T n-Dotriacontane (C32)	19.050	3016622	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.834	2851871	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.572	2473790	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.345	2201144	20.000 ug/ml
22) T n-Tetracontane (C40)	22.321	2031713	20.000 ug/ml

(f)=RT Delta > 1/2 Window

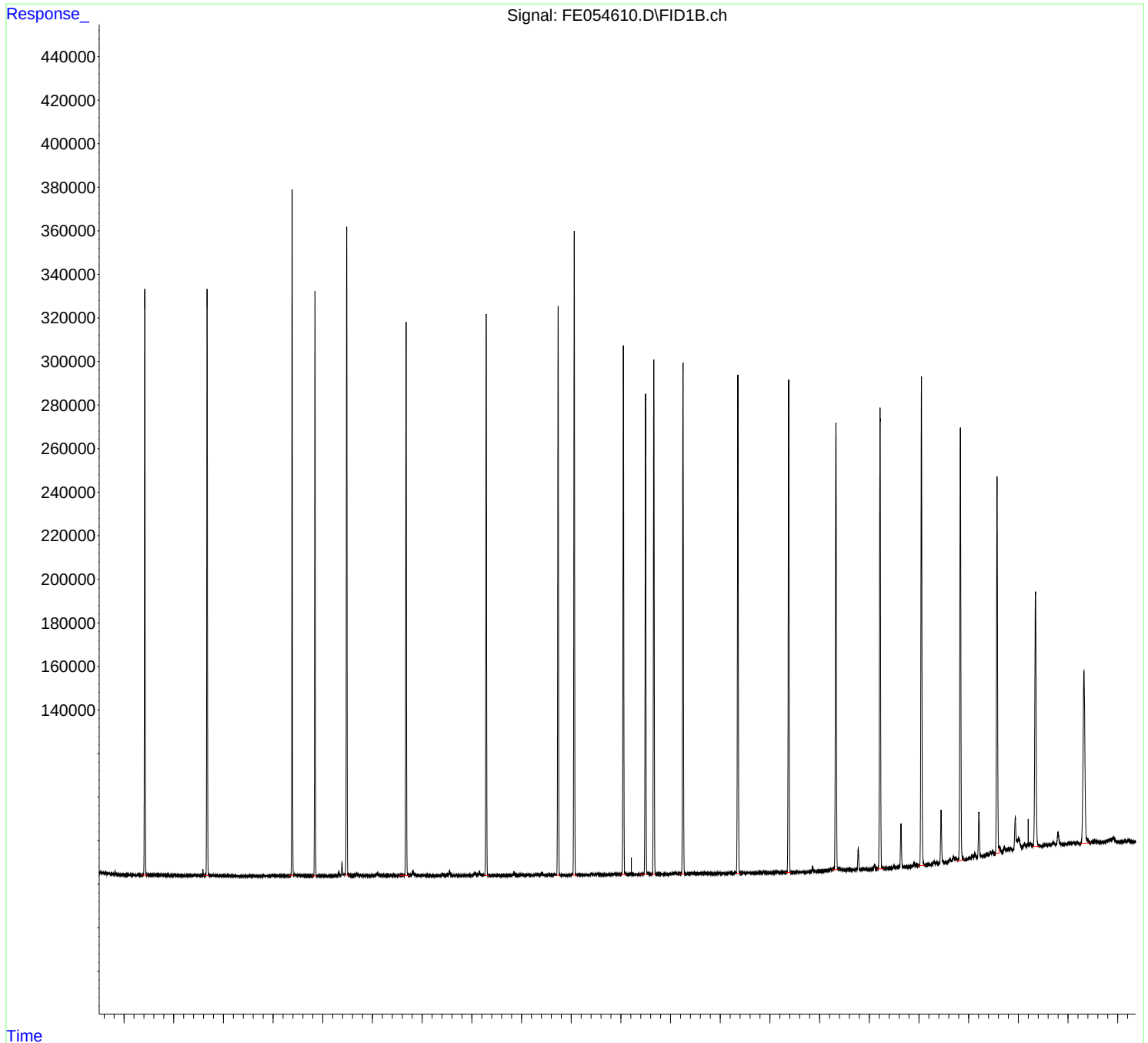
(m)=manual int.

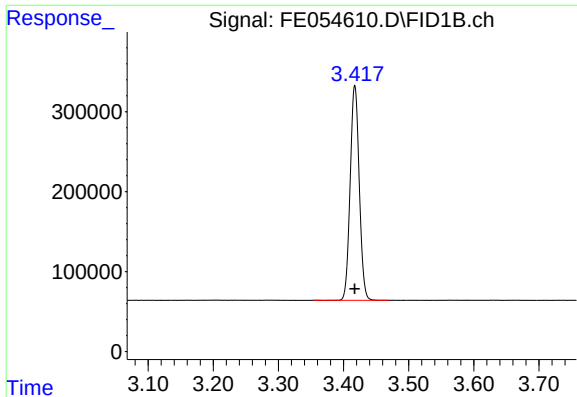
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054610.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 13:53
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jun 27 14:22:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Fri Jun 27 14:22:06 2025
Response via : Initial Calibration
Integrator: ChemStation

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

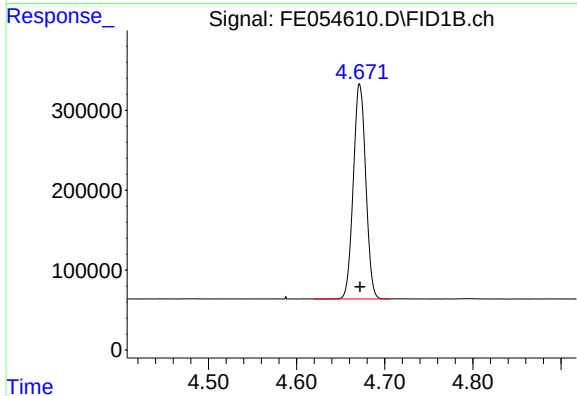




#1 n-Nonane (C9)

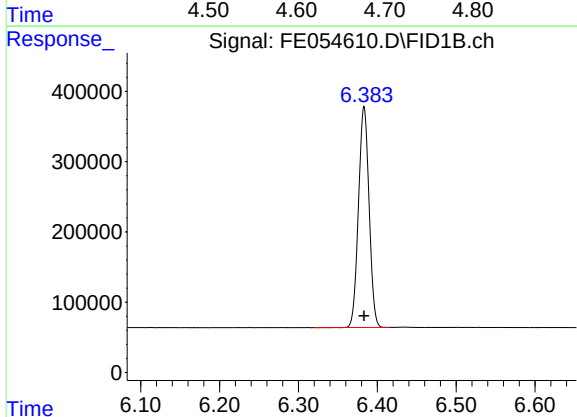
R.T.: 3.417 min
Delta R.T.: 0.000 min
Response: 2604070
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



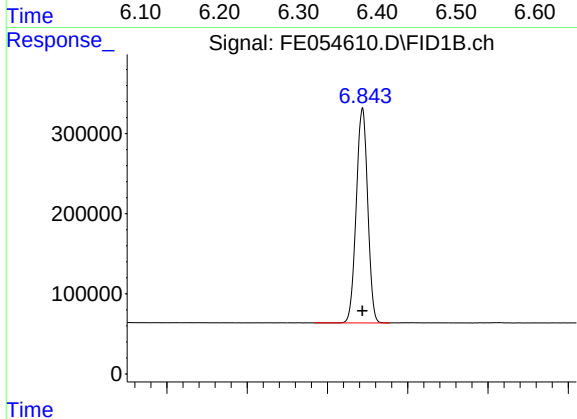
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.000 min
Response: 2641707
Conc: 20.00 ug/ml



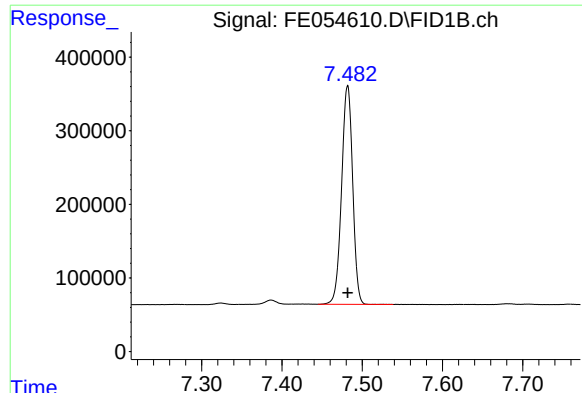
#3 A~Naphthalene (C11.7)

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 2934117
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

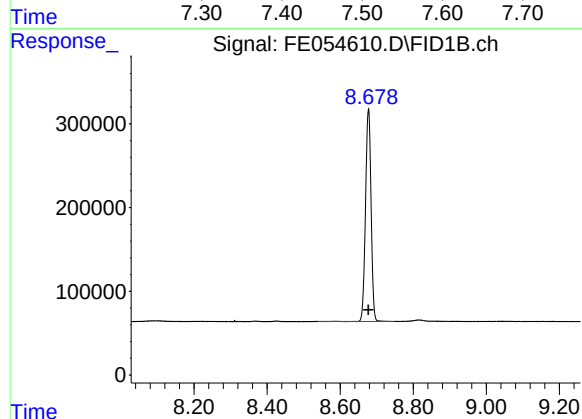
R.T.: 6.844 min
Delta R.T.: 0.000 min
Response: 2657748
Conc: 20.00 ug/ml



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

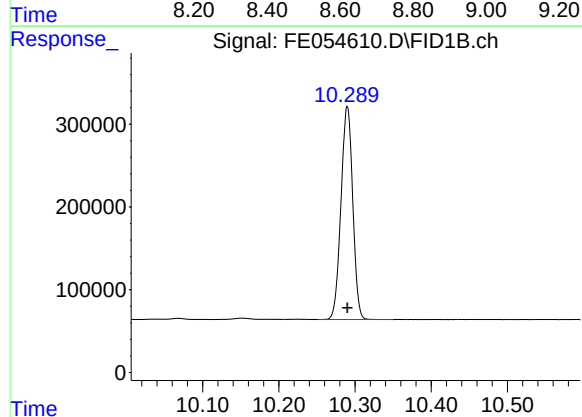
R.T.: 7.482 min
Delta R.T.: 0.000 min
Response: 2851436
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



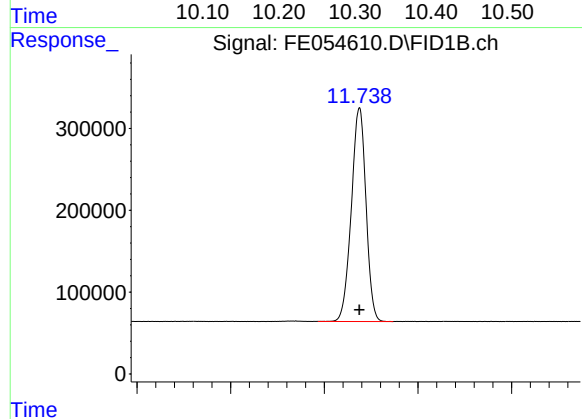
#6 n-Tetradecane (C14)

R.T.: 8.677 min
Delta R.T.: 0.000 min
Response: 2675509
Conc: 20.00 ug/ml



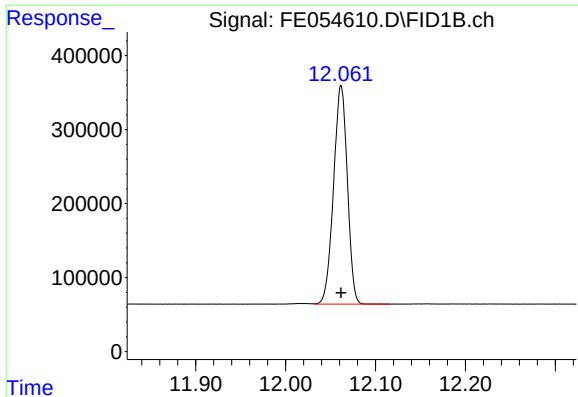
#7 n-Hexadecane (C16)

R.T.: 10.290 min
Delta R.T.: 0.000 min
Response: 2767706
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

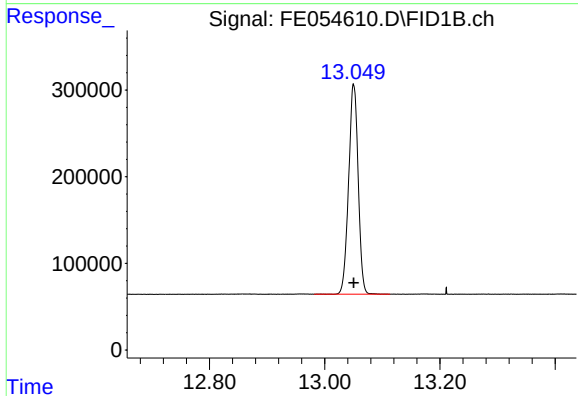
R.T.: 11.737 min
Delta R.T.: 0.000 min
Response: 2838043
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

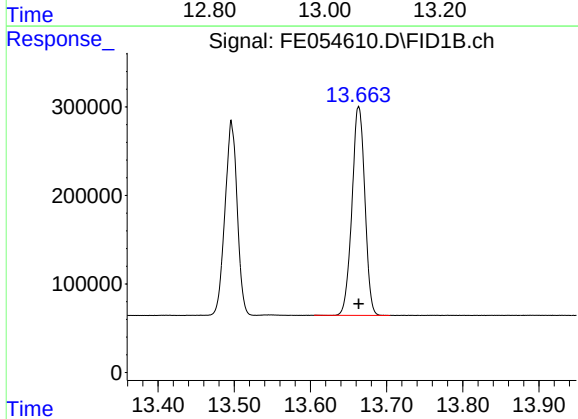
R.T.: 12.062 min
Delta R.T.: 0.000 min
Response: 3156943
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



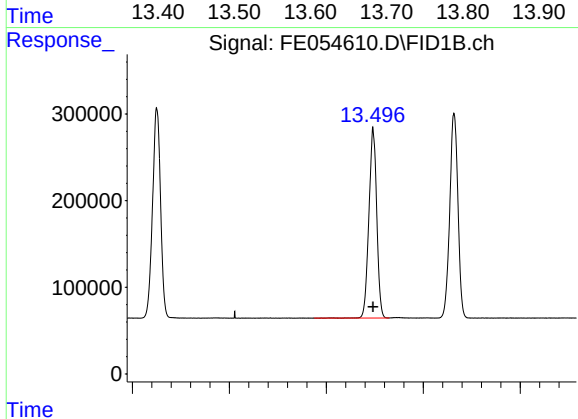
#10 n-Eicosane (C20)

R.T.: 13.050 min
Delta R.T.: 0.000 min
Response: 2784649
Conc: 20.00 ug/ml



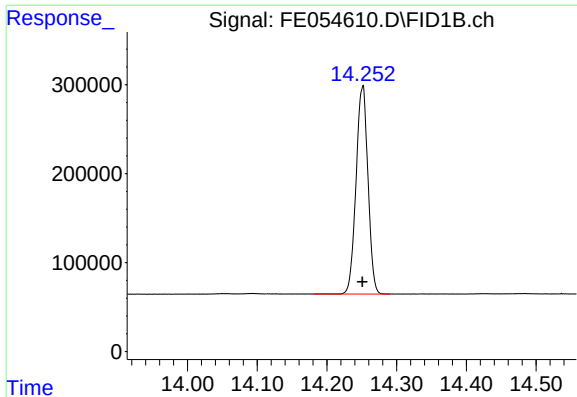
#11 n-Heneicosane (C21)

R.T.: 13.664 min
Delta R.T.: 0.000 min
Response: 2767798
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

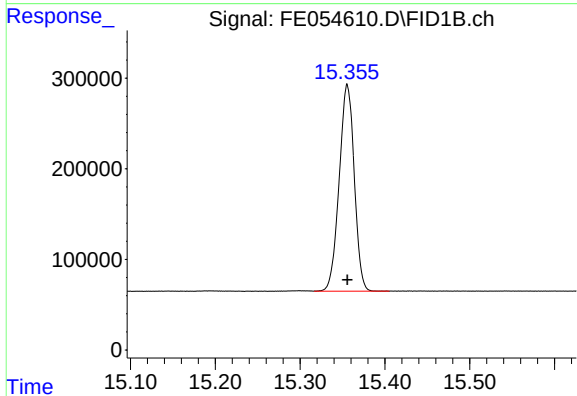
R.T.: 13.497 min
Delta R.T.: 0.000 min
Response: 2452207
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

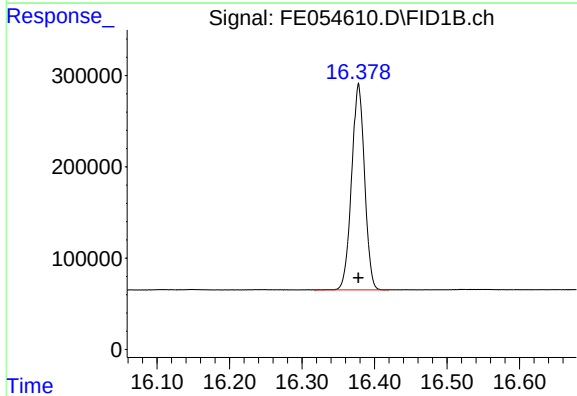
R.T.: 14.251 min
Delta R.T.: 0.000 min
Response: 2773055
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



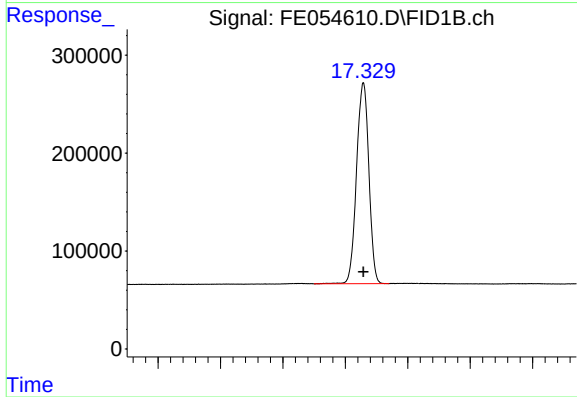
#14 n-Tetracosane (C24)

R.T.: 15.356 min
Delta R.T.: 0.000 min
Response: 2814871
Conc: 20.00 ug/ml



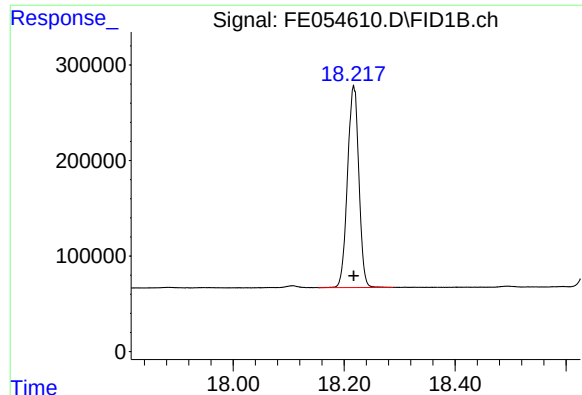
#15 n-Hexacosane (C26)

R.T.: 16.378 min
Delta R.T.: 0.000 min
Response: 2801775
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

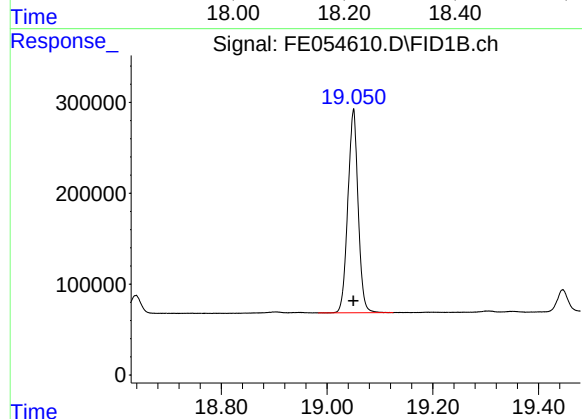
R.T.: 17.329 min
Delta R.T.: 0.000 min
Response: 2814947
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

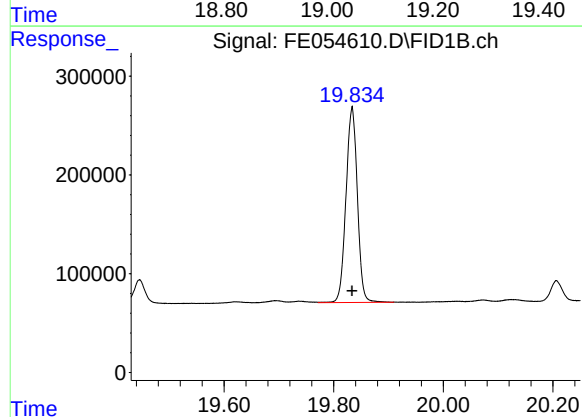
R.T.: 18.217 min
Delta R.T.: 0.000 min
Response: 2997062
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



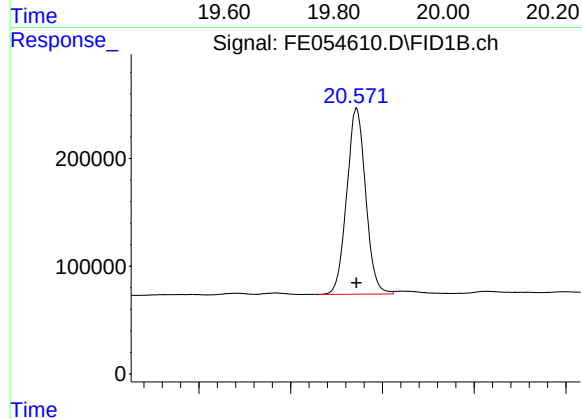
#18 n-Dotriacontane (C32)

R.T.: 19.050 min
Delta R.T.: 0.000 min
Response: 3016622
Conc: 20.00 ug/ml



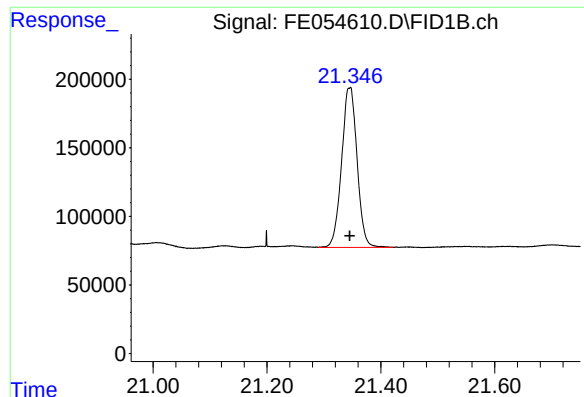
#19 n-Tetratriacontane (C34)

R.T.: 19.834 min
Delta R.T.: 0.000 min
Response: 2851871
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

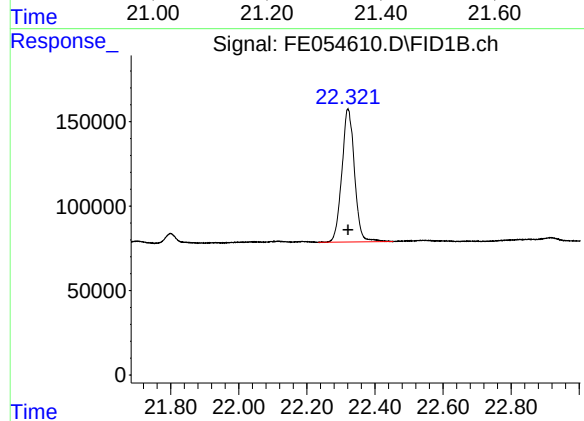
R.T.: 20.572 min
Delta R.T.: 0.000 min
Response: 2473790
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.345 min
Delta R.T.: 0.000 min
Response: 2201144
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.321 min
Delta R.T.: 0.000 min
Response: 2031713
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054610.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 13:53
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	3.417	3.355	3.470	BB	269063	2604070	82.49%	4.347%
2	4.672	4.620	4.705	BB	268277	2641707	83.68%	4.410%
3	6.383	6.320	6.415	BV	314891	2934117	92.94%	4.898%
4	6.844	6.783	6.877	BV	268290	2657748	84.19%	4.436%
5	7.482	7.445	7.538	BB	297241	2851436	90.32%	4.760%
6	8.677	8.540	8.745	BB	253033	2675509	84.75%	4.466%
7	10.290	10.252	10.350	BB	257624	2767706	87.67%	4.620%
8	11.737	11.693	11.773	BB	260719	2838043	89.90%	4.737%
9	12.062	12.032	12.115	VB	295794	3156943	100.00%	5.270%
10	13.050	12.982	13.112	BB	242032	2784649	88.21%	4.648%
11	13.497	13.375	13.530	BV	216935	2452207	77.68%	4.093%
12	13.664	13.605	13.703	BB	235623	2767798	87.67%	4.620%
13	14.251	14.182	14.289	BB	232009	2773055	87.84%	4.629%
14	15.356	15.317	15.405	VB	228102	2814871	89.16%	4.699%
15	16.378	16.317	16.420	BB	225943	2801775	88.75%	4.677%
16	17.329	17.250	17.370	BV	205609	2814947	89.17%	4.699%
17	18.217	18.153	18.288	BB	210880	2997062	94.94%	5.003%
18	19.050	18.983	19.125	BB	224239	3016622	95.56%	5.035%
19	19.834	19.772	19.908	VB	197877	2851871	90.34%	4.760%
20	20.572	20.530	20.612	BV	172986	2473790	78.36%	4.129%
21	21.345	21.290	21.422	VV	116171	2201144	69.72%	3.674%
22	22.321	22.233	22.453	BV	78611	2031713	64.36%	3.391%
Sum of corrected areas:							59908781	

Aliphatic EPH 062725.M Sat Jun 28 02:16:17 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
 Data File : FE054611.D
 Signal(s) : FID1B.ch
 Acq On : 27 Jun 2025 14:23
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Jun 27 14:51:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Fri Jun 27 14:51:43 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)	12.061	1724999	10.911 ug/ml
Spiked Amount 50.000		Recovery =	21.82%
12) S 1-chlorooctadecane (S...	13.496	1337321	10.880 ug/ml
Spiked Amount 50.000		Recovery =	21.76%
Target Compounds			
1) T n-Nonane (C9)	3.418	1430994	10.920 ug/ml
2) T n-Decane (C10)	4.672	1453045	10.941 ug/ml
3) T A~Naphthalene (C11.7)	6.383	1612580	10.942 ug/ml
4) T n-Dodecane (C12)	6.843	1461644	10.942 ug/ml
5) T A~2-methylnaphthalene...	7.481	1563539	10.922 ug/ml
6) T n-Tetradecane (C14)	8.677	1478055	11.002 ug/ml
7) T n-Hexadecane (C16)	10.289	1515105	10.915 ug/ml
8) T n-Octadecane (C18)	11.737	1554612	10.923 ug/ml
10) T n-Eicosane (C20)	13.049	1530215	10.948 ug/ml
11) T n-Heneicosane (C21)	13.663	1519506	10.937 ug/ml
13) T n-Docosane (C22)	14.251	1512806	10.876 ug/ml
14) T n-Tetracosane (C24)	15.354	1537308	10.878 ug/ml
15) T n-Hexacosane (C26)	16.377	1534827	10.876 ug/ml
16) T n-Octacosane (C28)	17.327	1542456	10.934 ug/ml
17) T n-Tricontane (C30)	18.215	1692830	11.339 ug/ml
18) T n-Dotriacontane (C32)	19.048	1774595	11.812 ug/ml
19) T n-Tetratriacontane (C34)	19.833	1678325	11.895 ug/ml
20) T n-Hexatriacontane (C36)	20.572	1485639	11.871 ug/ml
21) T n-Octatriacontane (C38)	21.343	1300115	11.771 ug/ml
22) T n-Tetracontane (C40)	22.322	1194943	11.657 ug/ml

(f)=RT Delta > 1/2 Window

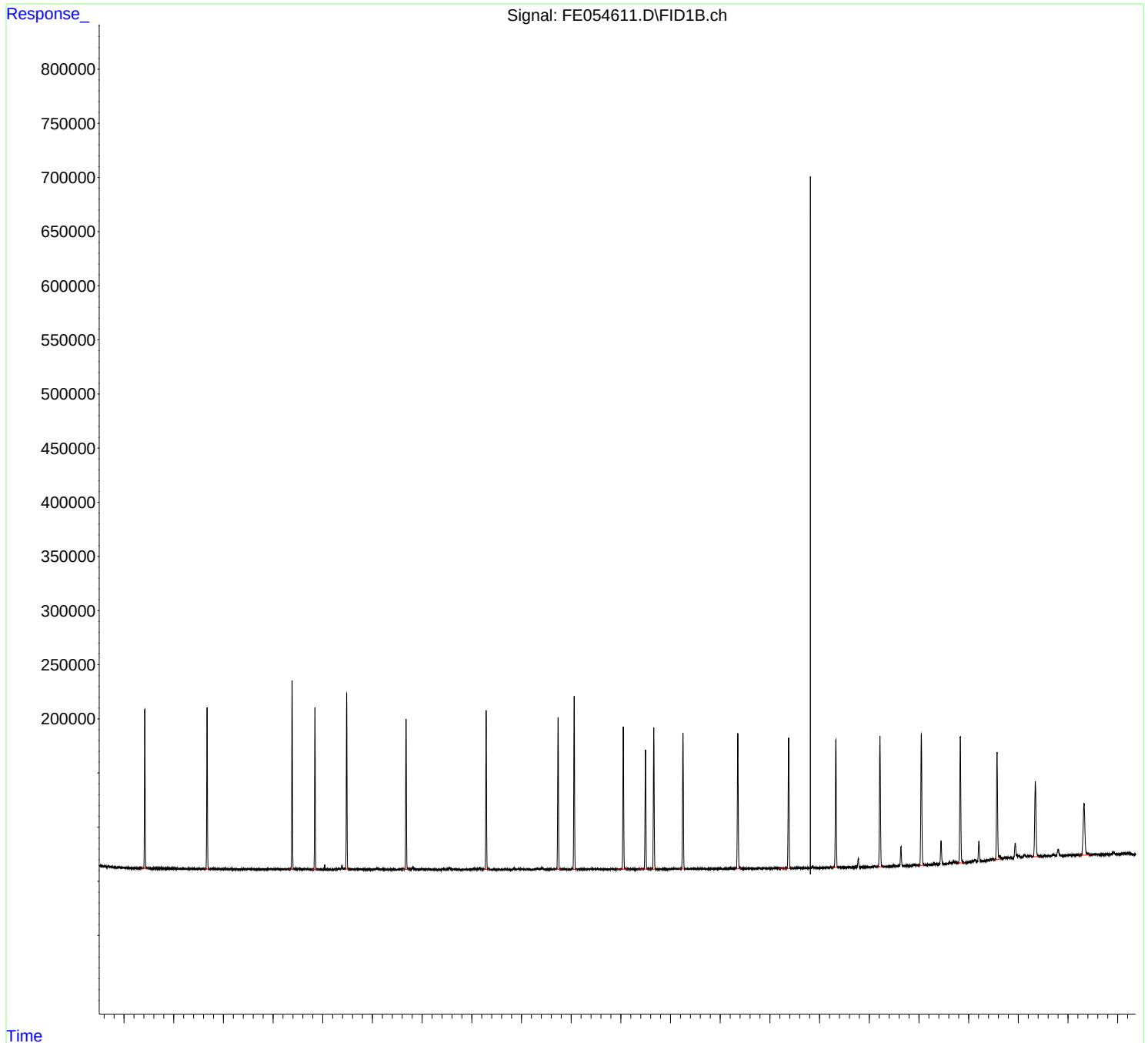
(m)=manual int.

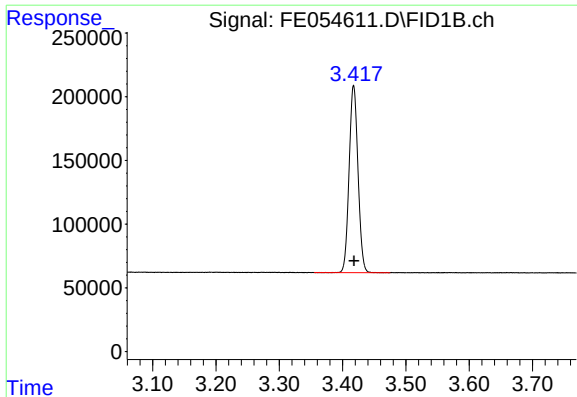
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054611.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 14:23
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jun 27 14:51:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Fri Jun 27 14:51:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

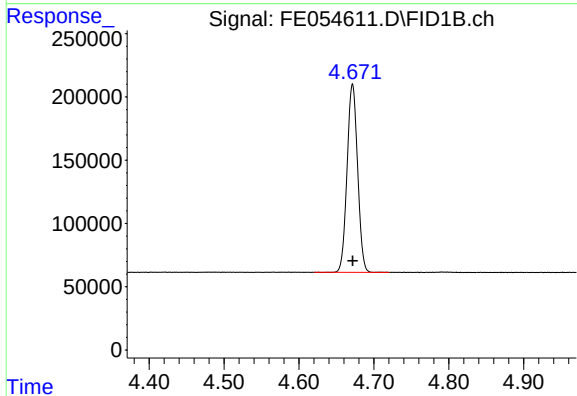




#1 n-Nonane (C9)

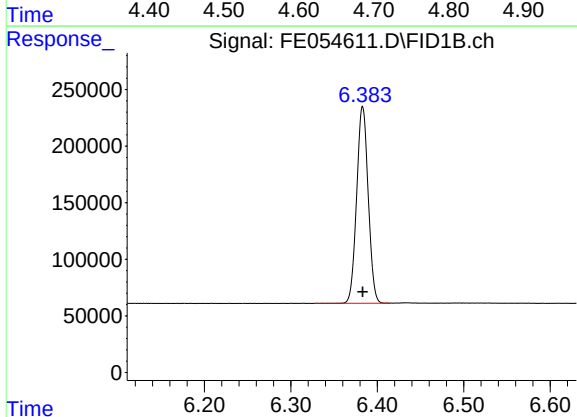
R.T.: 3.418 min
Delta R.T.: 0.000 min
Response: 1430994
Conc: 10.92 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



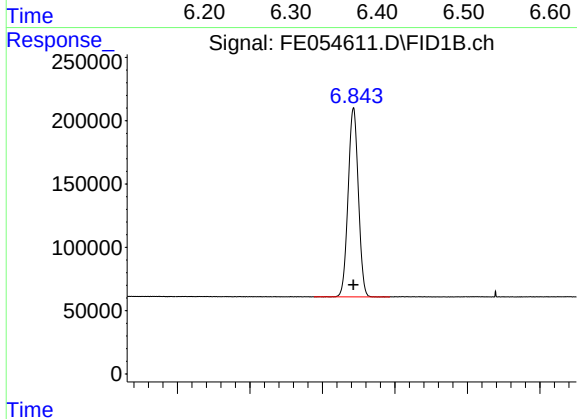
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.000 min
Response: 1453045
Conc: 10.94 ug/ml



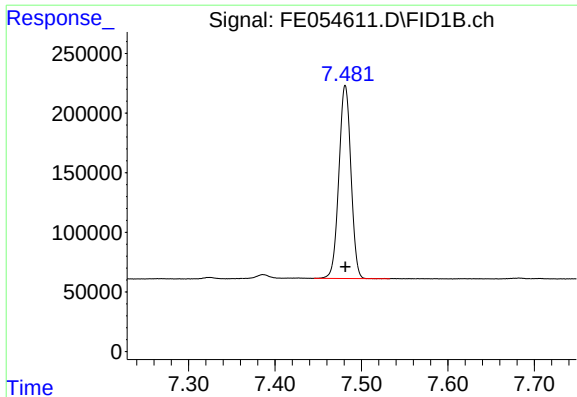
#3 A~Naphthalene (C11.7)

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 1612580
Conc: 10.94 ug/ml



#4 n-Dodecane (C12)

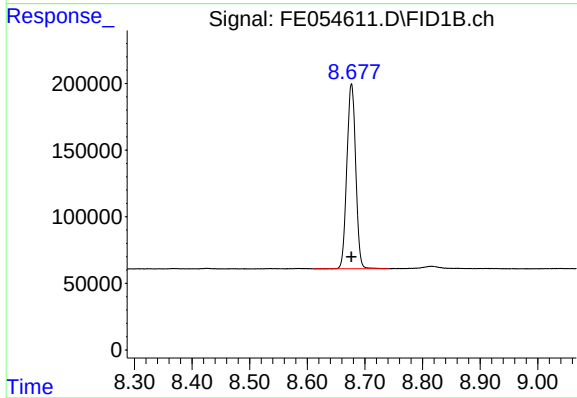
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 1461644
Conc: 10.94 ug/ml



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

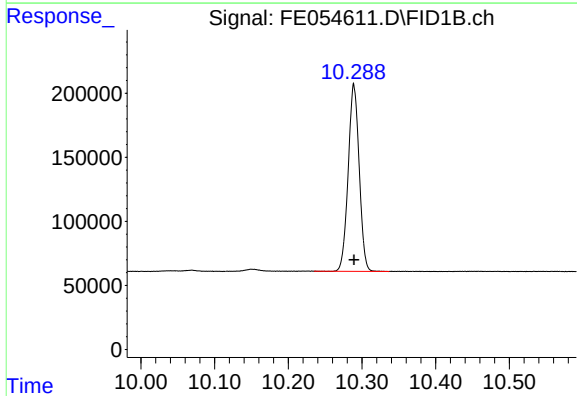
R.T.: 7.481 min
Delta R.T.: 0.000 min
Response: 1563539
Conc: 10.92 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



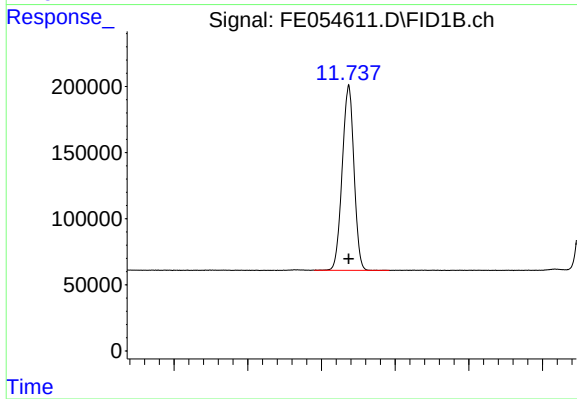
#6 n-Tetradecane (C14)

R.T.: 8.677 min
Delta R.T.: 0.000 min
Response: 1478055
Conc: 11.00 ug/ml



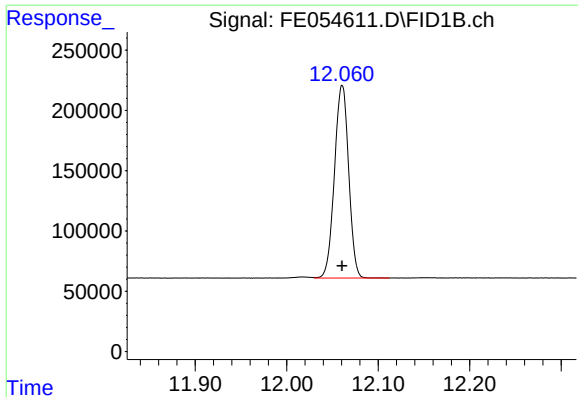
#7 n-Hexadecane (C16)

R.T.: 10.289 min
Delta R.T.: 0.000 min
Response: 1515105
Conc: 10.92 ug/ml



#8 n-Octadecane (C18)

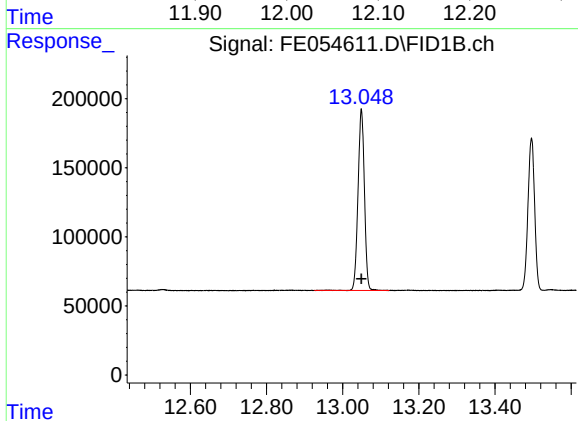
R.T.: 11.737 min
Delta R.T.: 0.000 min
Response: 1554612
Conc: 10.92 ug/ml



#9 ortho-Terphenyl (SURR)

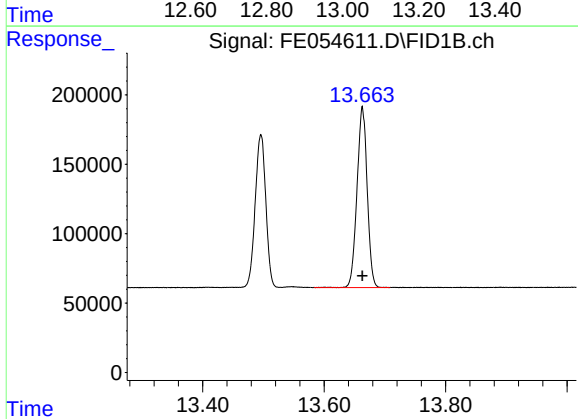
R.T.: 12.061 min
Delta R.T.: 0.000 min
Response: 1724999
Conc: 10.91 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



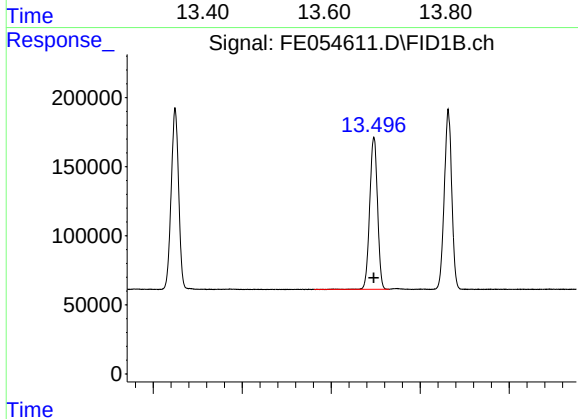
#10 n-Eicosane (C20)

R.T.: 13.049 min
Delta R.T.: 0.000 min
Response: 1530215
Conc: 10.95 ug/ml



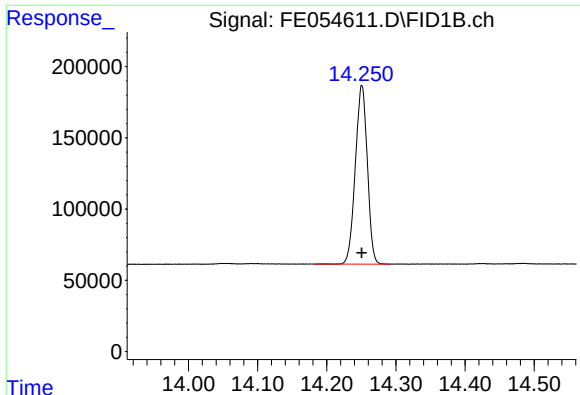
#11 n-Heneicosane (C21)

R.T.: 13.663 min
Delta R.T.: 0.000 min
Response: 1519506
Conc: 10.94 ug/ml



#12 1-chlorooctadecane (SURR)

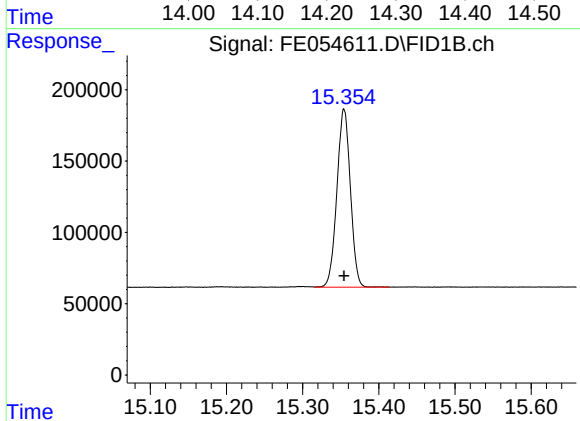
R.T.: 13.496 min
Delta R.T.: 0.000 min
Response: 1337321
Conc: 10.88 ug/ml



#13 n-Docosane (C22)

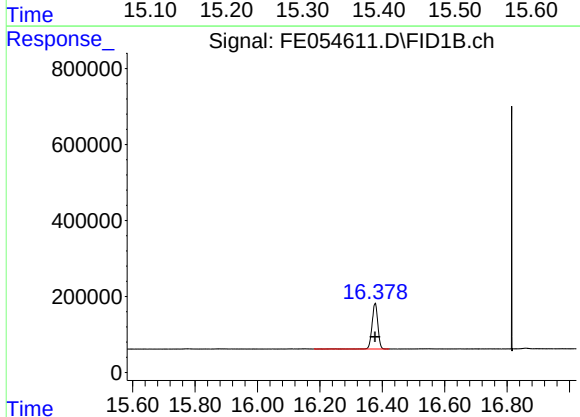
R.T.: 14.251 min
Delta R.T.: 0.000 min
Response: 1512806
Conc: 10.88 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



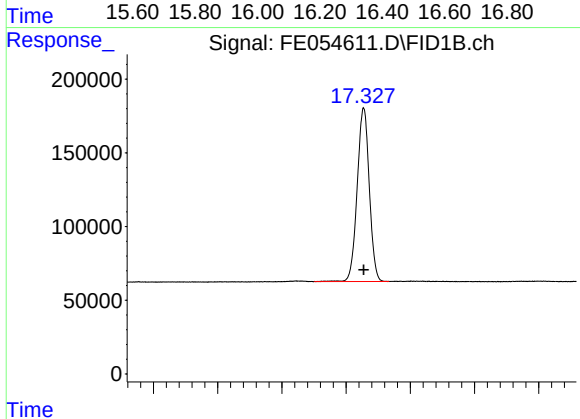
#14 n-Tetracosane (C24)

R.T.: 15.354 min
Delta R.T.: 0.000 min
Response: 1537308
Conc: 10.88 ug/ml



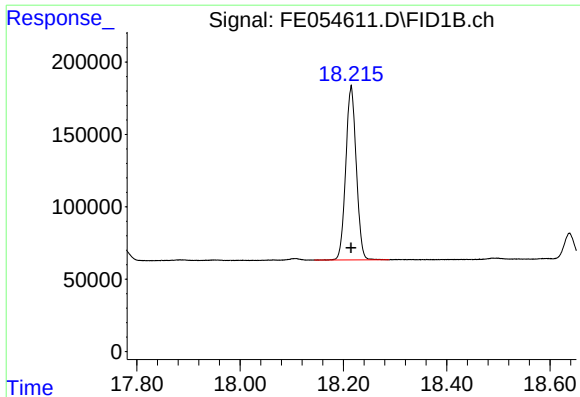
#15 n-Hexacosane (C26)

R.T.: 16.377 min
Delta R.T.: 0.000 min
Response: 1534827
Conc: 10.88 ug/ml



#16 n-Octacosane (C28)

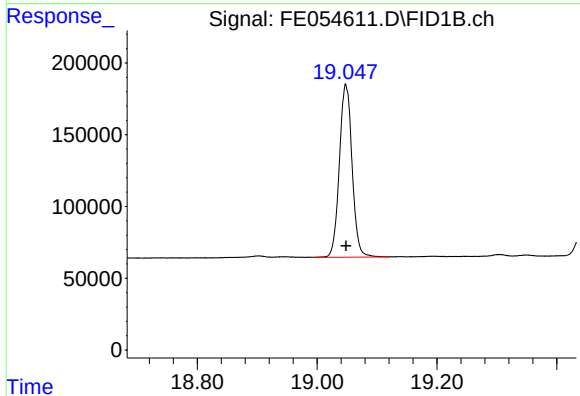
R.T.: 17.327 min
Delta R.T.: 0.000 min
Response: 1542456
Conc: 10.93 ug/ml



#17 n-Tricontane (C30)

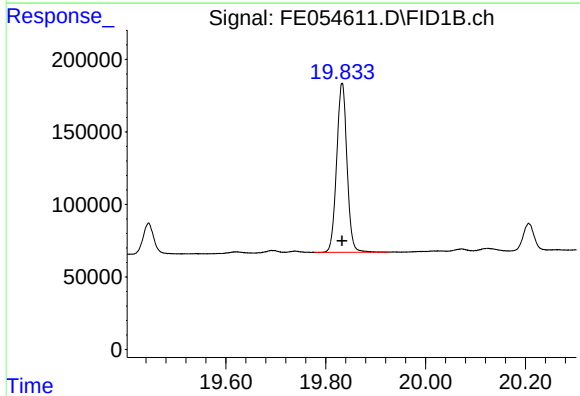
R.T.: 18.215 min
Delta R.T.: 0.000 min
Response: 1692830
Conc: 11.34 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



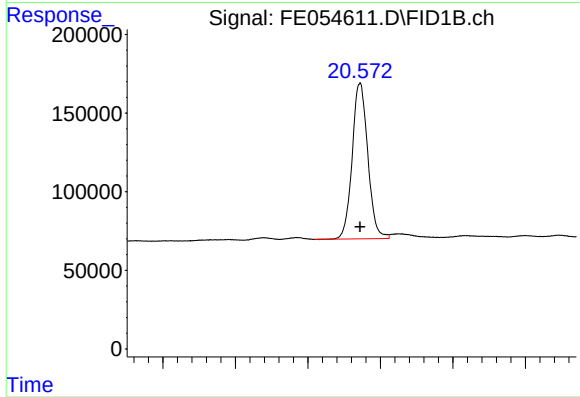
#18 n-Dotriacontane (C32)

R.T.: 19.048 min
Delta R.T.: 0.000 min
Response: 1774595
Conc: 11.81 ug/ml



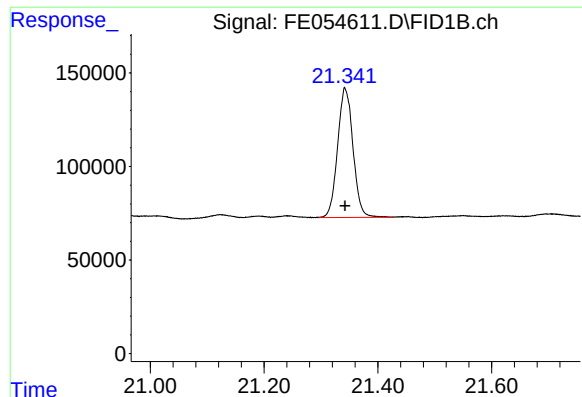
#19 n-Tetratriacontane (C34)

R.T.: 19.833 min
Delta R.T.: 0.000 min
Response: 1678325
Conc: 11.89 ug/ml



#20 n-Hexatriacontane (C36)

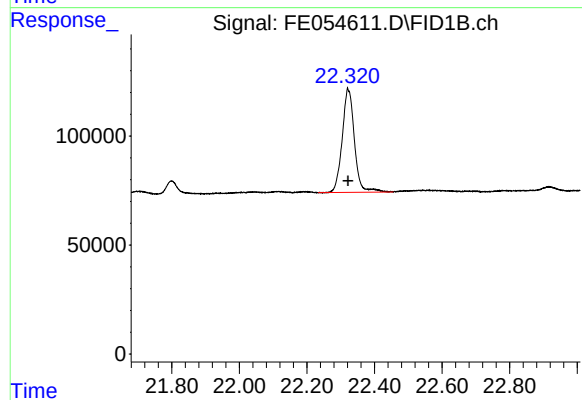
R.T.: 20.572 min
Delta R.T.: 0.000 min
Response: 1485639
Conc: 11.87 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.343 min
Delta R.T.: 0.000 min
Response: 1300115
Conc: 11.77 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.322 min
Delta R.T.: 0.000 min
Response: 1194943
Conc: 11.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054611.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 14:23
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	3.355	3.474	BB	147088	1430994	80.64%	4.280%
2	4.672	4.620	4.720	BB	149044	1453045	81.88%	4.346%
3	6.383	6.327	6.414	BV	173644	1612580	90.87%	4.823%
4	6.843	6.789	6.892	BB	150128	1461644	82.36%	4.372%
5	7.481	7.445	7.532	BB	161988	1563539	88.11%	4.676%
6	8.677	8.612	8.742	BB	138745	1478055	83.29%	4.421%
7	10.289	10.235	10.337	BB	146184	1515105	85.38%	4.531%
8	11.737	11.690	11.792	BB	140251	1554612	87.60%	4.650%
9	12.061	12.030	12.112	VB	160148	1724999	97.21%	5.159%
10	13.049	12.925	13.122	BB	131406	1530215	86.23%	4.577%
11	13.496	13.362	13.530	BV	109975	1337321	75.36%	4.000%
12	13.663	13.584	13.707	BB	129154	1519506	85.63%	4.545%
13	14.251	14.182	14.290	BB	125822	1512806	85.25%	4.525%
14	15.354	15.315	15.414	VB	125210	1537308	86.63%	4.598%
15	16.377	16.182	16.422	BB	119959	1534827	86.49%	4.590%
16	17.327	17.250	17.367	BB	118066	1542456	86.92%	4.613%
17	18.215	18.144	18.289	BB	120625	1692830	95.39%	5.063%
18	19.048	18.995	19.120	BB	119636	1774595	100.00%	5.308%
19	19.833	19.777	19.927	BB	116860	1678325	94.58%	5.020%
20	20.572	20.509	20.612	PV	99169	1485639	83.72%	4.443%
21	21.343	21.295	21.427	BV	69221	1300115	73.26%	3.888%
22	22.322	22.234	22.455	BV	47021	1194943	67.34%	3.574%
Sum of corrected areas:							33435459	

Aliphatic EPH 062725.M Sat Jun 28 02:17:27 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
 Data File : FE054612.D
 Signal(s) : FID1B.ch
 Acq On : 27 Jun 2025 14:54
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Jun 27 15:17:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Fri Jun 27 15:17:39 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)	12.060	897784	5.528 ug/ml
Spiked Amount 50.000		Recovery =	11.06%
12) S 1-chlorooctadecane (S...	13.496	698976	5.535 ug/ml
Spiked Amount 50.000		Recovery =	11.07%
Target Compounds			
1) T n-Nonane (C9)	3.418	741733	5.514 ug/ml
2) T n-Decane (C10)	4.672	755134	5.534 ug/ml
3) T A~Naphthalene (C11.7)	6.383	837756	5.533 ug/ml
4) T n-Dodecane (C12)	6.843	758434	5.528 ug/ml
5) T A~2-methylnaphthalene...	7.481	812009	5.524 ug/ml
6) T n-Tetradecane (C14)	8.676	778826	5.618 ug/ml
7) T n-Hexadecane (C16)	10.289	786629	5.520 ug/ml
8) T n-Octadecane (C18)	11.736	817448	5.578 ug/ml
10) T n-Eicosane (C20)	13.049	799341	5.559 ug/ml
11) T n-Heneicosane (C21)	13.662	792166	5.546 ug/ml
13) T n-Docosane (C22)	14.250	787773	5.517 ug/ml
14) T n-Tetracosane (C24)	15.354	807739	5.557 ug/ml
15) T n-Hexacosane (C26)	16.377	795436	5.497 ug/ml
16) T n-Octacosane (C28)	17.327	822169	5.641 ug/ml
17) T n-Tricontane (C30)	18.216	953767	6.052 ug/ml
18) T n-Dotriacontane (C32)	19.049	1039900	6.428 ug/ml
19) T n-Tetratriacontane (C34)	19.833	987799	6.482 ug/ml
20) T n-Hexatriacontane (C36)	20.573	858425	6.384 ug/ml
21) T n-Octatriacontane (C38)	21.346	723114	6.166 ug/ml
22) T n-Tetracontane (C40)	22.324	659393	6.084 ug/ml

(f)=RT Delta > 1/2 Window

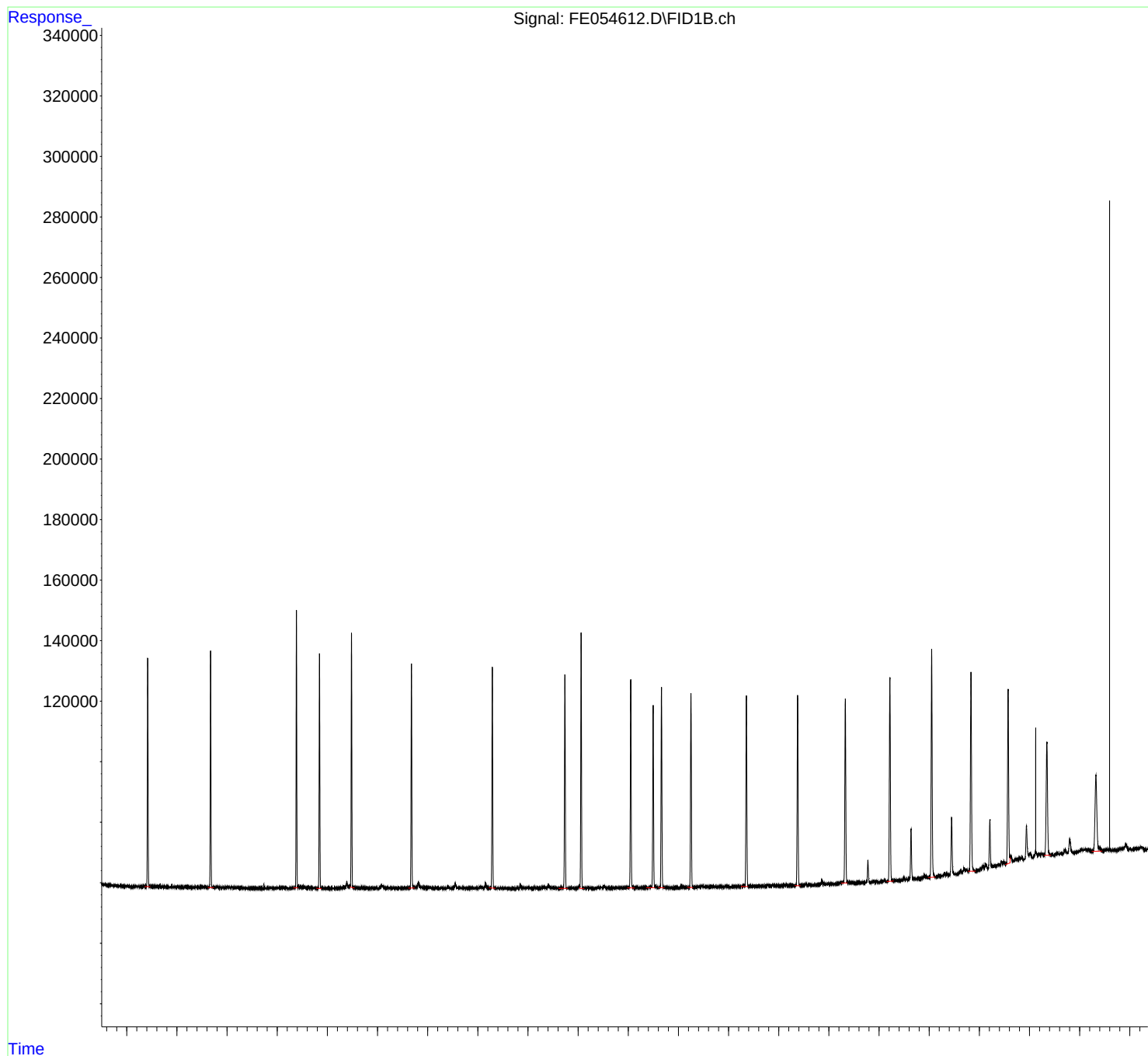
(m)=manual int.

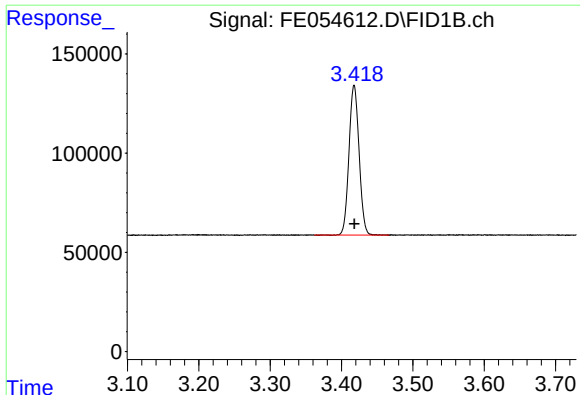
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054612.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 14:54
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jun 27 15:17:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Fri Jun 27 15:17:39 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 u1
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

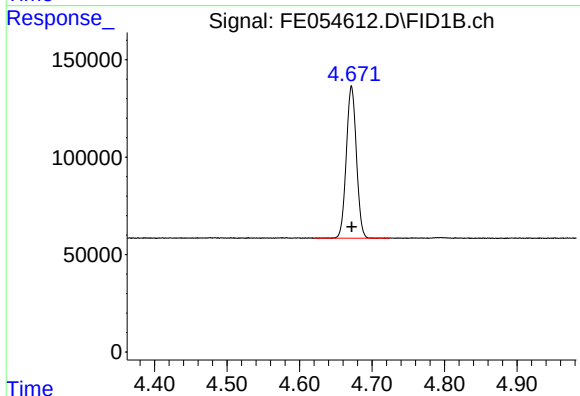




#1 n-Nonane (C9)

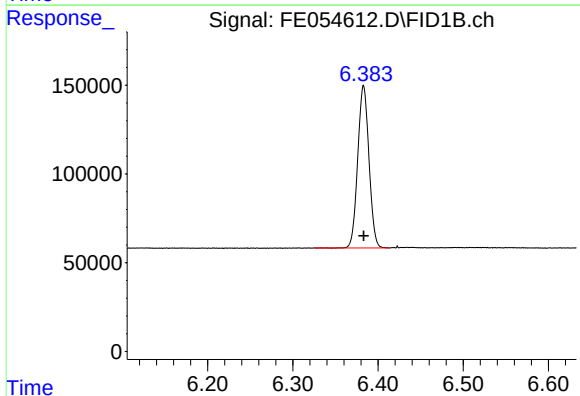
R.T.: 3.418 min
Delta R.T.: 0.000 min
Response: 741733
Conc: 5.51 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



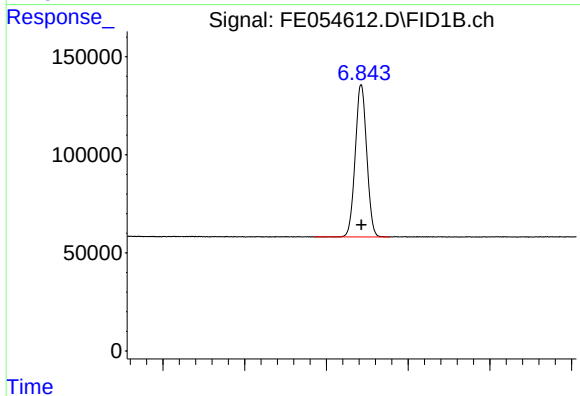
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.000 min
Response: 755134
Conc: 5.53 ug/ml



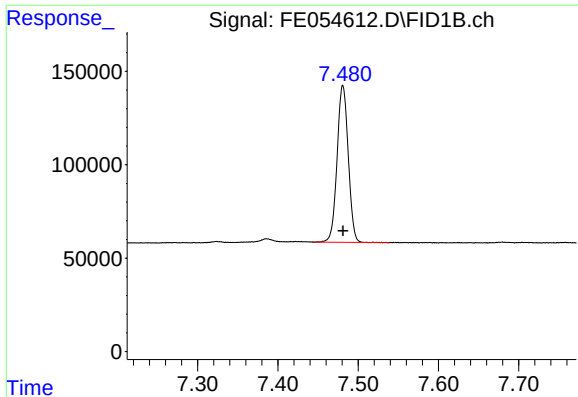
#3 A~Naphthalene (C11.7)

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 837756
Conc: 5.53 ug/ml



#4 n-Dodecane (C12)

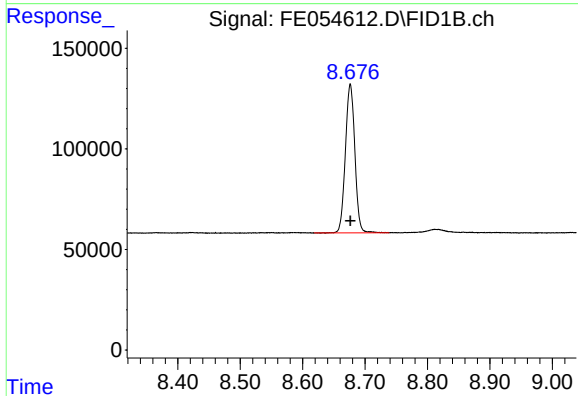
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 758434
Conc: 5.53 ug/ml



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

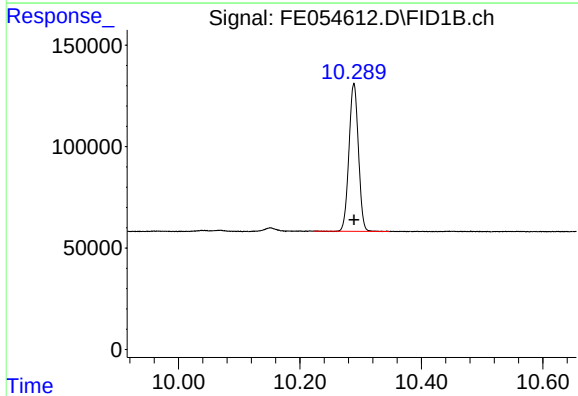
R.T.: 7.481 min
Delta R.T.: 0.000 min
Response: 812009
Conc: 5.52 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



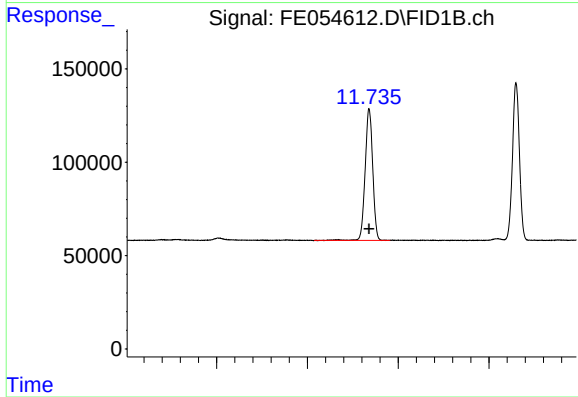
#6 n-Tetradecane (C14)

R.T.: 8.676 min
Delta R.T.: 0.000 min
Response: 778826
Conc: 5.62 ug/ml



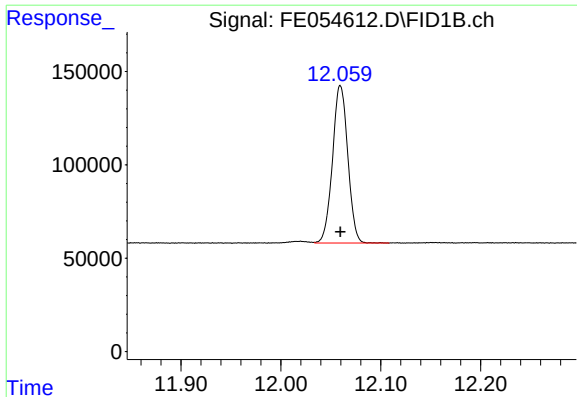
#7 n-Hexadecane (C16)

R.T.: 10.289 min
Delta R.T.: 0.000 min
Response: 786629
Conc: 5.52 ug/ml



#8 n-Octadecane (C18)

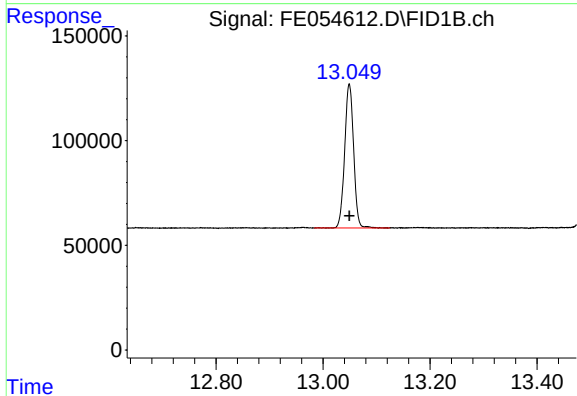
R.T.: 11.736 min
Delta R.T.: 0.000 min
Response: 817448
Conc: 5.58 ug/ml



#9 ortho-Terphenyl (SURR)

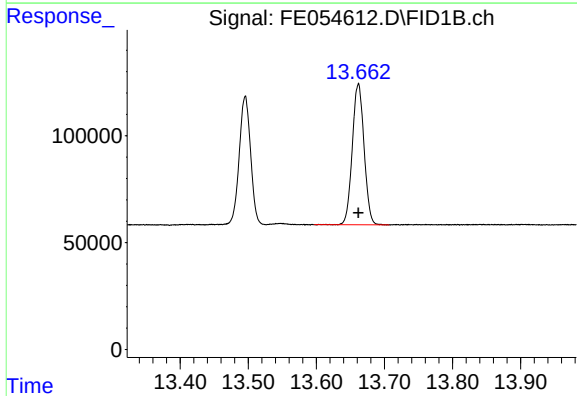
R.T.: 12.060 min
Delta R.T.: 0.000 min
Response: 897784
Conc: 5.53 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



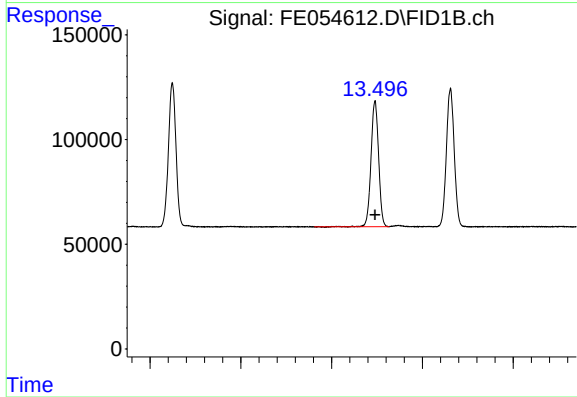
#10 n-Eicosane (C20)

R.T.: 13.049 min
Delta R.T.: 0.000 min
Response: 799341
Conc: 5.56 ug/ml



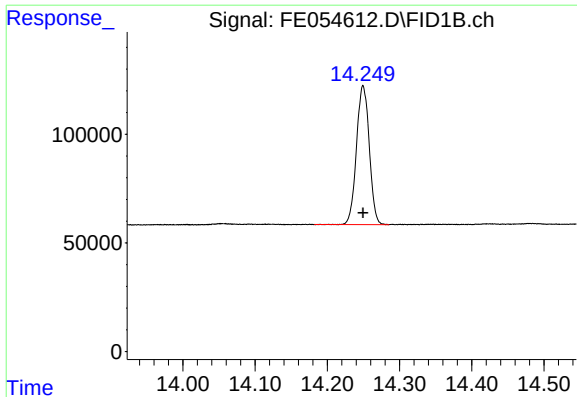
#11 n-Heneicosane (C21)

R.T.: 13.662 min
Delta R.T.: 0.000 min
Response: 792166
Conc: 5.55 ug/ml



#12 1-chlorooctadecane (SURR)

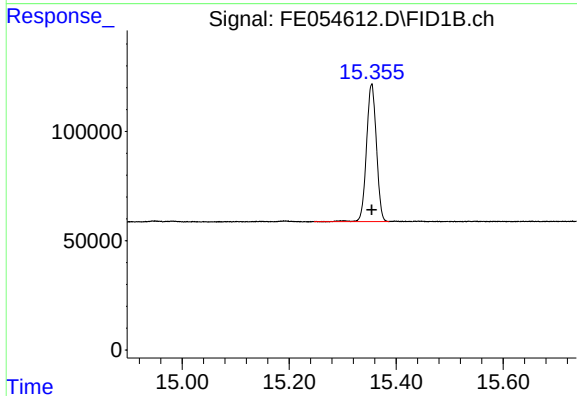
R.T.: 13.496 min
Delta R.T.: 0.000 min
Response: 698976
Conc: 5.53 ug/ml



#13 n-Docosane (C22)

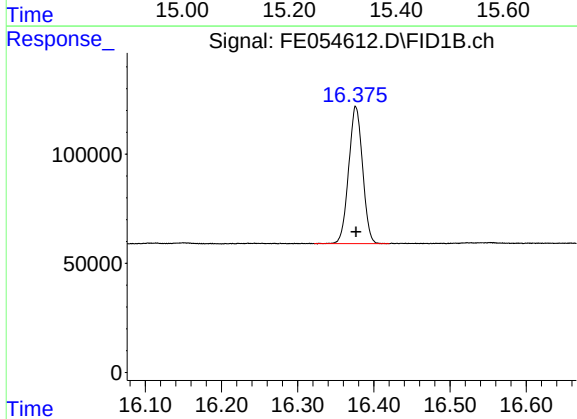
R.T.: 14.250 min
Delta R.T.: 0.000 min
Response: 787773
Conc: 5.52 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



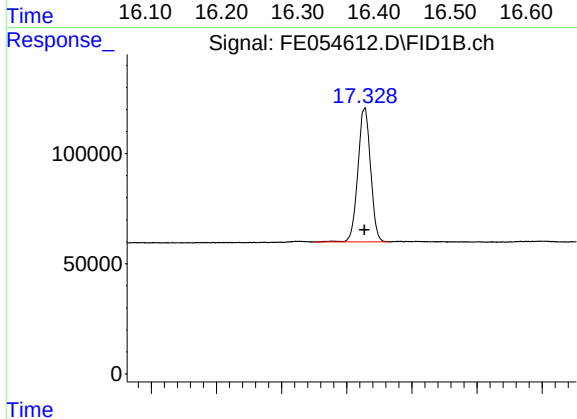
#14 n-Tetracosane (C24)

R.T.: 15.354 min
Delta R.T.: 0.000 min
Response: 807739
Conc: 5.56 ug/ml



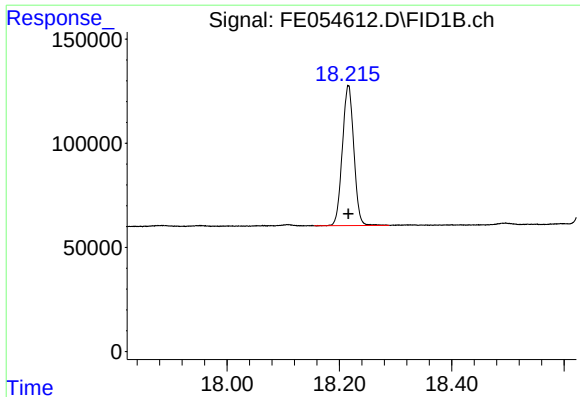
#15 n-Hexacosane (C26)

R.T.: 16.377 min
Delta R.T.: 0.000 min
Response: 795436
Conc: 5.50 ug/ml



#16 n-Octacosane (C28)

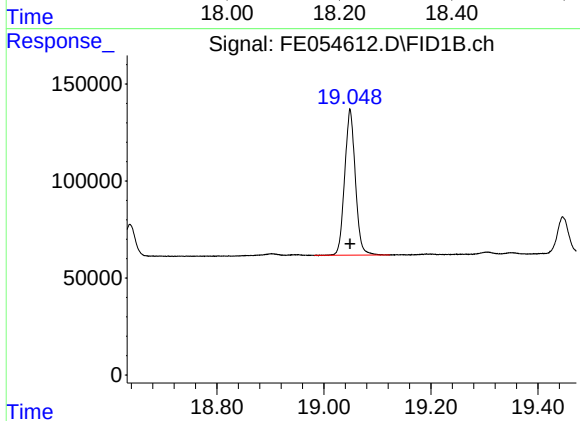
R.T.: 17.327 min
Delta R.T.: 0.000 min
Response: 822169
Conc: 5.64 ug/ml



#17 n-Tricontane (C30)

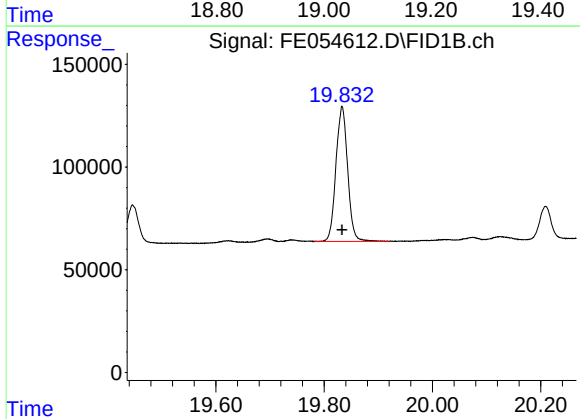
R.T.: 18.216 min
Delta R.T.: 0.000 min
Response: 953767
Conc: 6.05 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



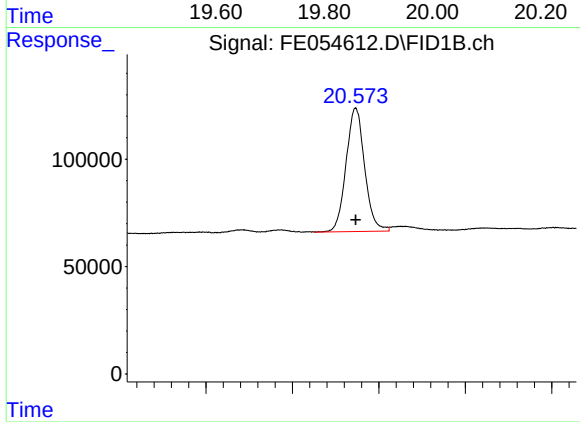
#18 n-Dotriacontane (C32)

R.T.: 19.049 min
Delta R.T.: 0.000 min
Response: 1039900
Conc: 6.43 ug/ml



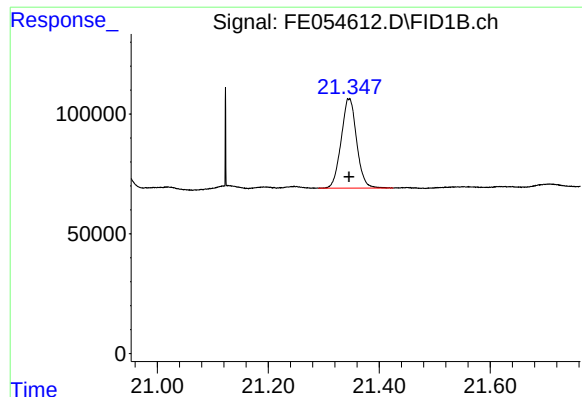
#19 n-Tetratriacontane (C34)

R.T.: 19.833 min
Delta R.T.: 0.000 min
Response: 987799
Conc: 6.48 ug/ml



#20 n-Hexatriacontane (C36)

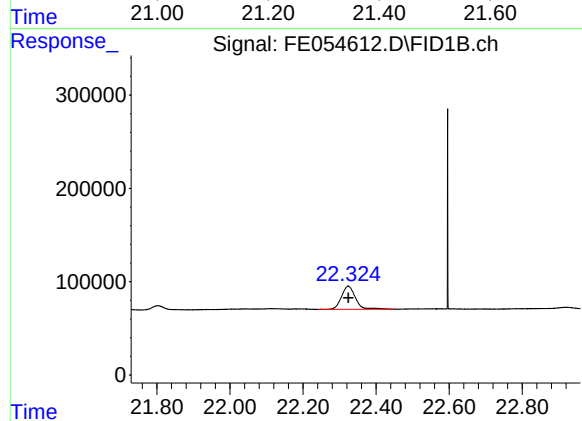
R.T.: 20.573 min
Delta R.T.: 0.000 min
Response: 858425
Conc: 6.38 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.346 min
Delta R.T.: 0.000 min
Response: 723114
Conc: 6.17 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.324 min
Delta R.T.: 0.000 min
Response: 659393
Conc: 6.08 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054612.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 14:54
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	3.362	3.467	BB	75659	741733	71.33%	4.141%
2	4.672	4.620	4.724	BB	78080	755134	72.62%	4.216%
3	6.383	6.325	6.413	BV	91458	837756	80.56%	4.677%
4	6.843	6.785	6.877	BB	77709	758434	72.93%	4.234%
5	7.481	7.445	7.539	BB	84102	812009	78.09%	4.533%
6	8.676	8.619	8.739	BB	74055	778826	74.89%	4.348%
7	10.289	10.224	10.347	BB	72696	786629	75.64%	4.392%
8	11.736	11.615	11.780	BB	70291	817448	78.61%	4.564%
9	12.060	12.034	12.109	VB	84124	897784	86.33%	5.012%
10	13.049	12.984	13.124	BB	68773	799341	76.87%	4.463%
11	13.496	13.362	13.527	BV	60057	698976	67.22%	3.902%
12	13.662	13.597	13.707	BB	66059	792166	76.18%	4.423%
13	14.250	14.182	14.286	BB	63846	787773	75.75%	4.398%
14	15.354	15.247	15.387	BB	62760	807739	77.67%	4.510%
15	16.377	16.322	16.420	BB	62461	795436	76.49%	4.441%
16	17.327	17.250	17.365	BV	60423	822169	79.06%	4.590%
17	18.216	18.155	18.289	BB	67529	953767	91.72%	5.325%
18	19.049	18.982	19.122	BB	75345	1039900	100.00%	5.806%
19	19.833	19.782	19.920	BB	65849	987799	94.99%	5.515%
20	20.573	20.525	20.612	BV	57615	858425	82.55%	4.793%
21	21.346	21.290	21.425	BB	36950	723114	69.54%	4.037%
22	22.324	22.242	22.447	BB	25113	659393	63.41%	3.681%
Sum of corrected areas:							17911749	

Aliphatic EPH 062725.M Sat Jun 28 02:18:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
 Data File : FE054613.D
 Signal(s) : FID1B.ch
 Acq On : 27 Jun 2025 15:24
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Jun 27 15:48:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Fri Jun 27 15:19:13 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)	12.062	3028688	18.650 ug/ml
Spiked Amount 50.000		Recovery =	37.30%
12) S 1-chlorooctadecane (S...	13.498	2342450	18.548 ug/ml
Spiked Amount 50.000		Recovery =	37.10%
Target Compounds			
1) T n-Nonane (C9)	3.418	2502645	18.606 ug/ml
2) T n-Decane (C10)	4.672	2544484	18.648 ug/ml
3) T A~Naphthalene (C11.7)	6.384	2820974	18.631 ug/ml
4) T n-Dodecane (C12)	6.844	2560893	18.664 ug/ml
5) T A~2-methylnaphthalene...	7.482	2750056	18.707 ug/ml
6) T n-Tetradecane (C14)	8.677	2581289	18.620 ug/ml
7) T n-Hexadecane (C16)	10.290	2662158	18.680 ug/ml
8) T n-Octadecane (C18)	11.738	2731350	18.637 ug/ml
10) T n-Eicosane (C20)	13.051	2682264	18.654 ug/ml
11) T n-Heneicosane (C21)	13.664	2655754	18.593 ug/ml
13) T n-Docosane (C22)	14.252	2663243	18.652 ug/ml
14) T n-Tetracosane (C24)	15.355	2701405	18.584 ug/ml
15) T n-Hexacosane (C26)	16.379	2682582	18.537 ug/ml
16) T n-Octacosane (C28)	17.329	2682634	18.407 ug/ml
17) T n-Tricontane (C30)	18.218	2884214	18.303 ug/ml
18) T n-Dotriacontane (C32)	19.051	2934528	18.138 ug/ml
19) T n-Tetratriacontane (C34)	19.835	2788021	18.295 ug/ml
20) T n-Hexatriacontane (C36)	20.575	2448198	18.208 ug/ml
21) T n-Octatriacontane (C38)	21.348	2149052	18.324 ug/ml
22) T n-Tetracontane (C40)	22.329	1970334	18.179 ug/ml

(f)=RT Delta > 1/2 Window

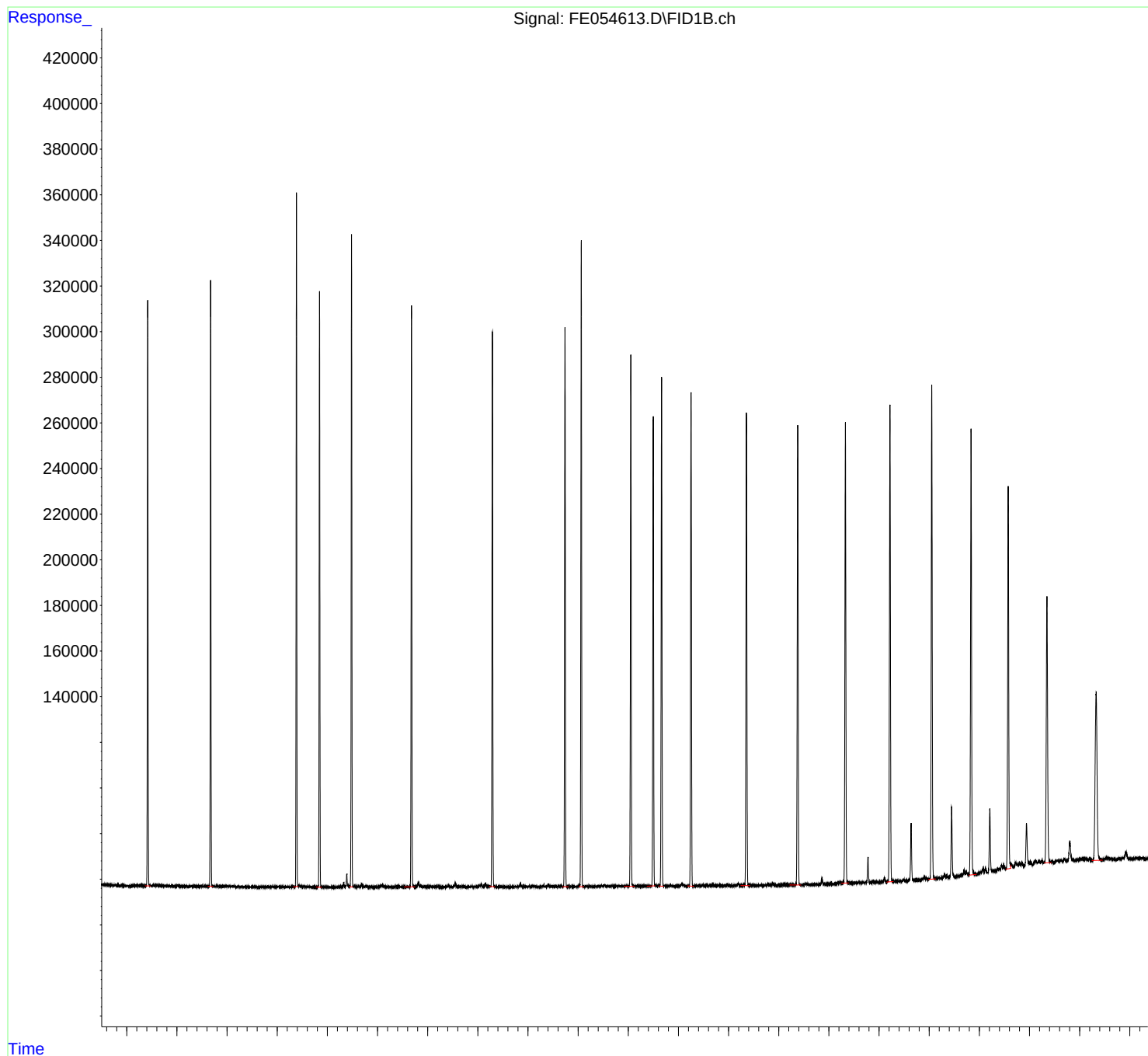
(m)=manual int.

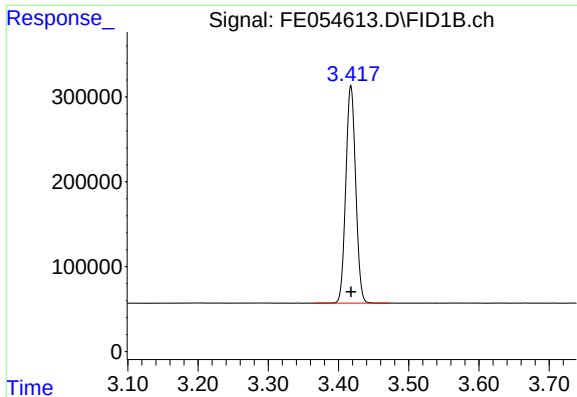
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054613.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 15:24
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jun 27 15:48:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Fri Jun 27 15:19:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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

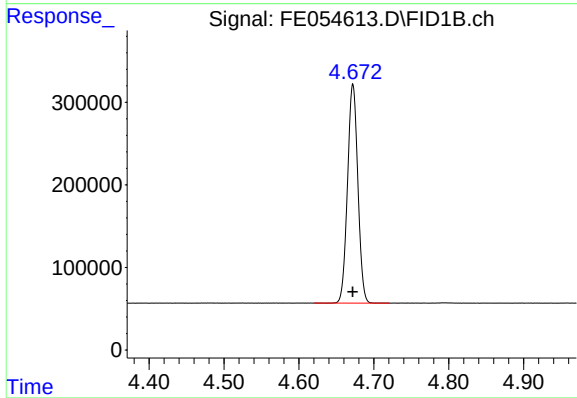




#1 n-Nonane (C9)

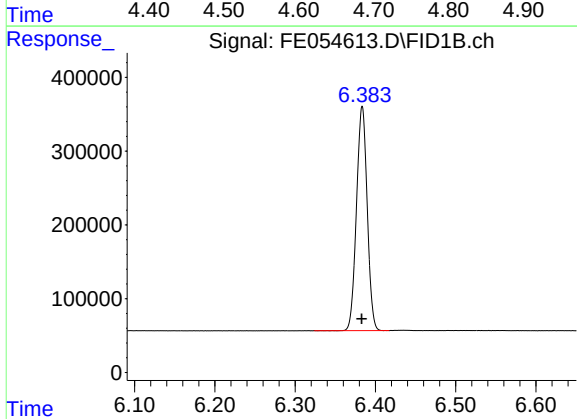
R.T.: 3.418 min
Delta R.T.: 0.000 min
Response: 2502645
Conc: 18.61 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



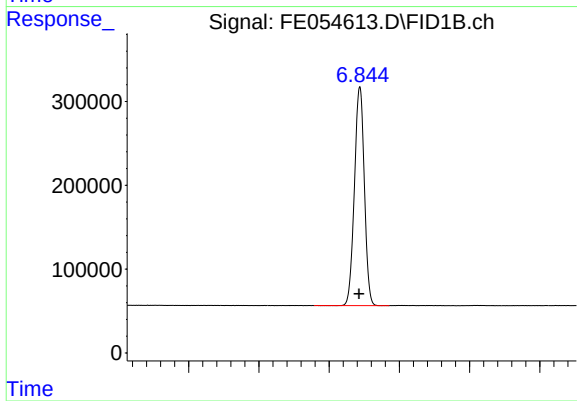
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.000 min
Response: 2544484
Conc: 18.65 ug/ml



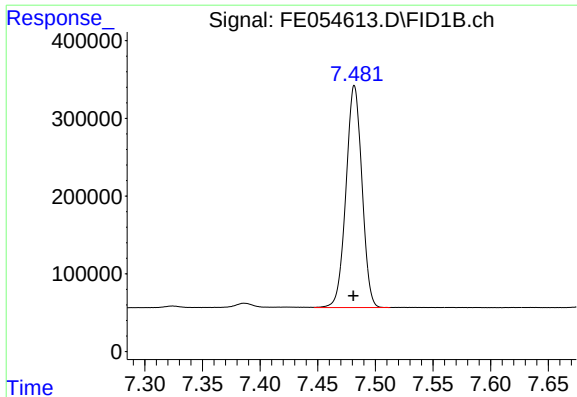
#3 A~Naphthalene (C11.7)

R.T.: 6.384 min
Delta R.T.: 0.000 min
Response: 2820974
Conc: 18.63 ug/ml



#4 n-Dodecane (C12)

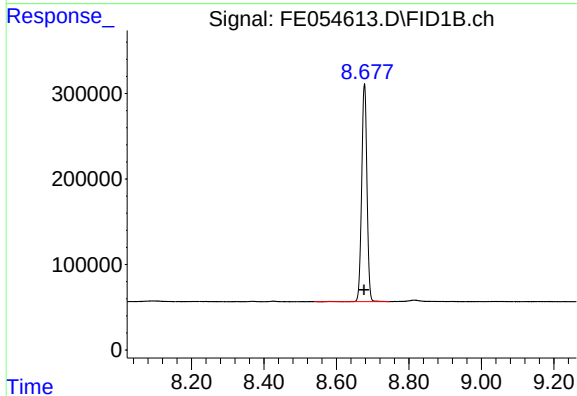
R.T.: 6.844 min
Delta R.T.: 0.001 min
Response: 2560893
Conc: 18.66 ug/ml



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

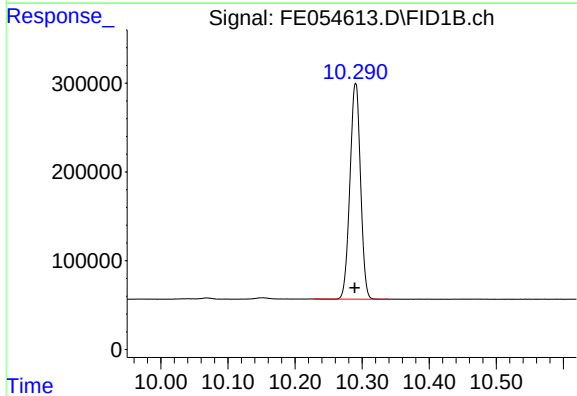
R.T.: 7.482 min
Delta R.T.: 0.000 min
Response: 2750056
Conc: 18.71 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



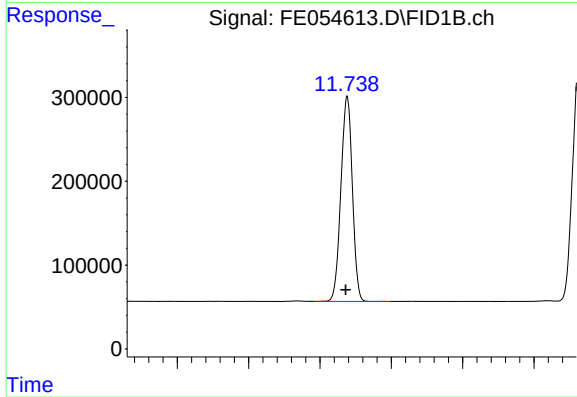
#6 n-Tetradecane (C14)

R.T.: 8.677 min
Delta R.T.: 0.000 min
Response: 2581289
Conc: 18.62 ug/ml



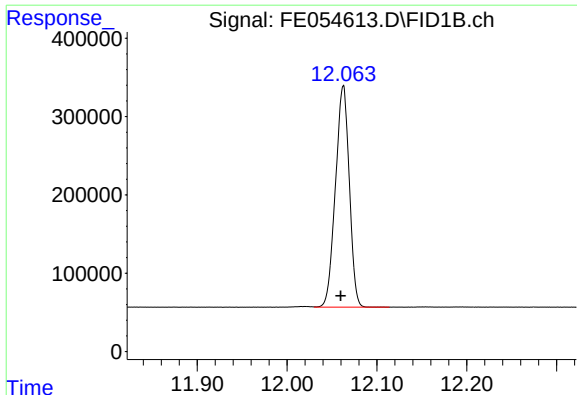
#7 n-Hexadecane (C16)

R.T.: 10.290 min
Delta R.T.: 0.001 min
Response: 2662158
Conc: 18.68 ug/ml



#8 n-Octadecane (C18)

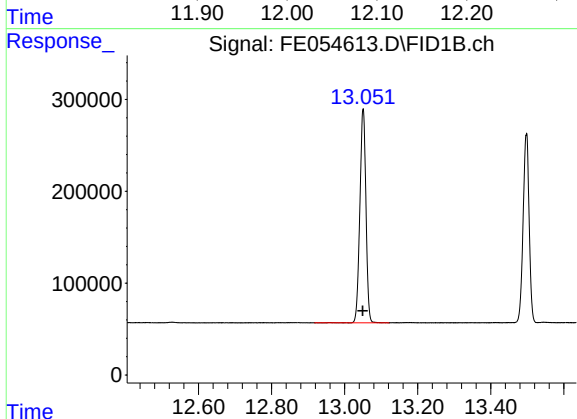
R.T.: 11.738 min
Delta R.T.: 0.002 min
Response: 2731350
Conc: 18.64 ug/ml



#9 ortho-Terphenyl (SURR)

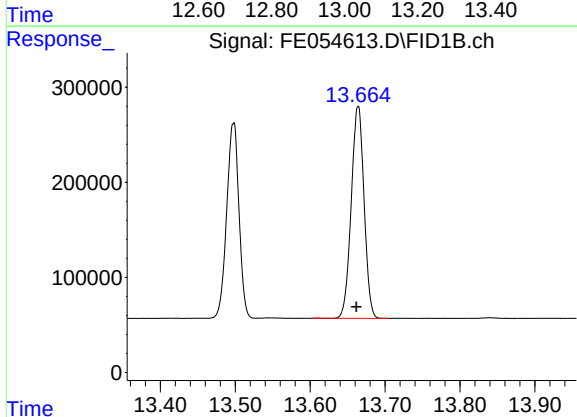
R.T.: 12.062 min
Delta R.T.: 0.003 min
Response: 3028688
Conc: 18.65 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



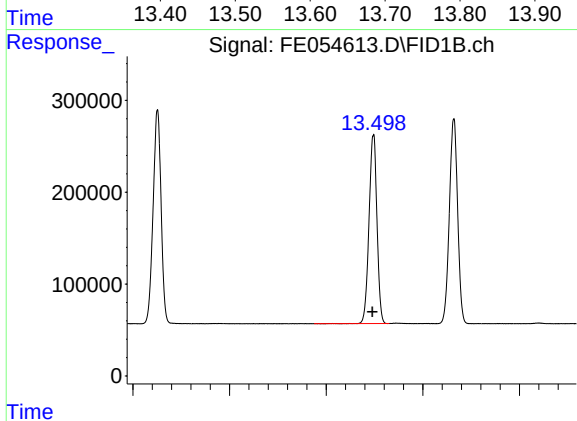
#10 n-Eicosane (C20)

R.T.: 13.051 min
Delta R.T.: 0.002 min
Response: 2682264
Conc: 18.65 ug/ml



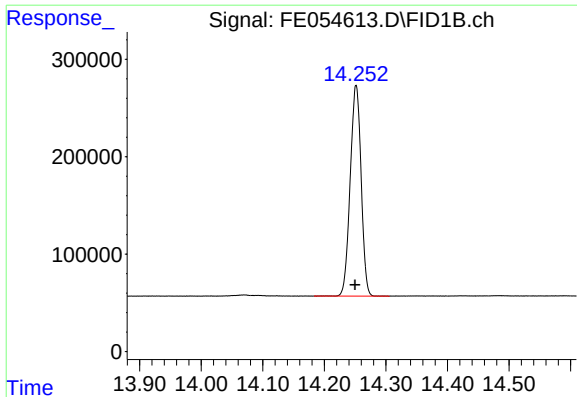
#11 n-Heneicosane (C21)

R.T.: 13.664 min
Delta R.T.: 0.002 min
Response: 2655754
Conc: 18.59 ug/ml



#12 1-chlorooctadecane (SURR)

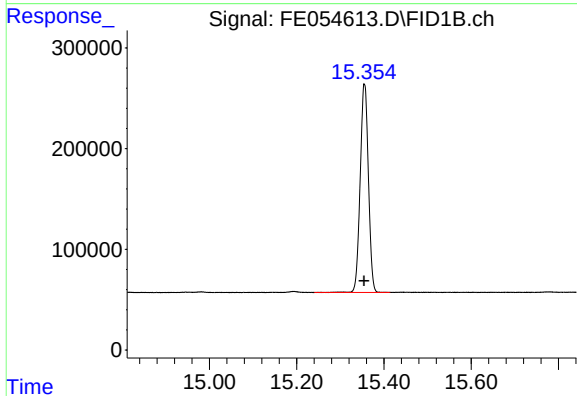
R.T.: 13.498 min
Delta R.T.: 0.002 min
Response: 2342450
Conc: 18.55 ug/ml



#13 n-Docosane (C22)

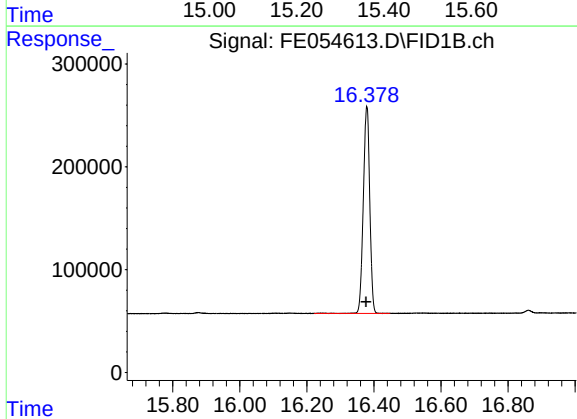
R.T.: 14.252 min
Delta R.T.: 0.002 min
Response: 2663243
Conc: 18.65 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



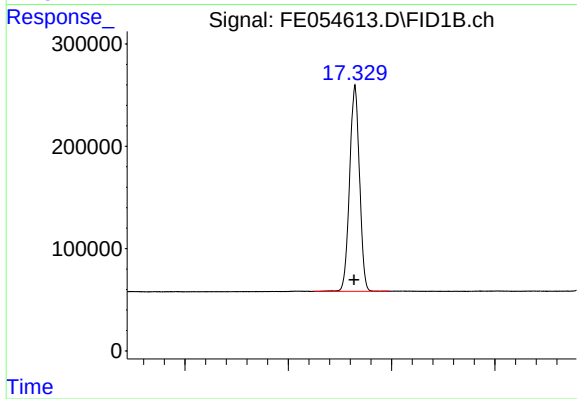
#14 n-Tetracosane (C24)

R.T.: 15.355 min
Delta R.T.: 0.001 min
Response: 2701405
Conc: 18.58 ug/ml



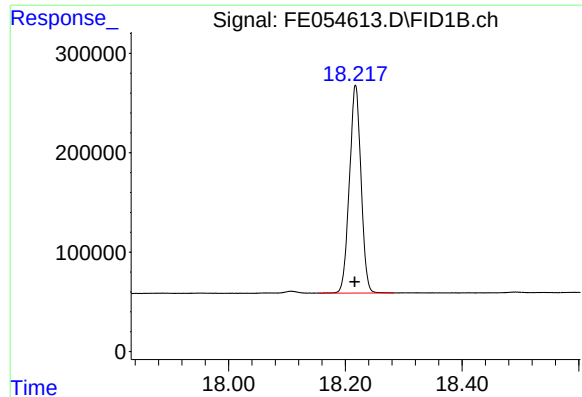
#15 n-Hexacosane (C26)

R.T.: 16.379 min
Delta R.T.: 0.002 min
Response: 2682582
Conc: 18.54 ug/ml



#16 n-Octacosane (C28)

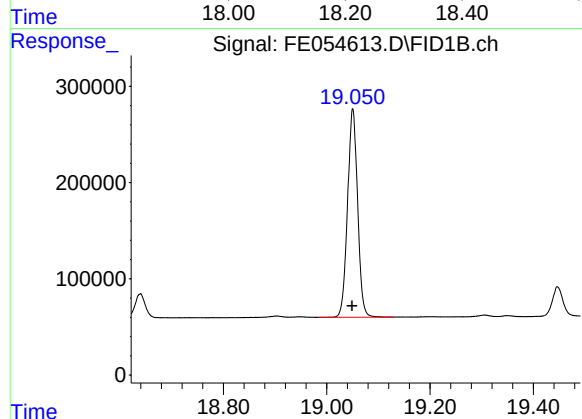
R.T.: 17.329 min
Delta R.T.: 0.002 min
Response: 2682634
Conc: 18.41 ug/ml



#17 n-Tricontane (C30)

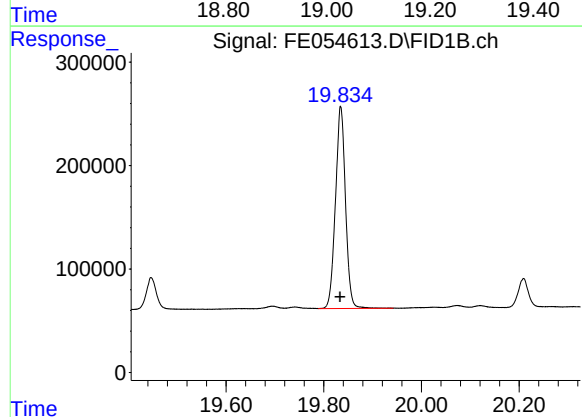
R.T.: 18.218 min
Delta R.T.: 0.002 min
Response: 2884214
Conc: 18.30 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



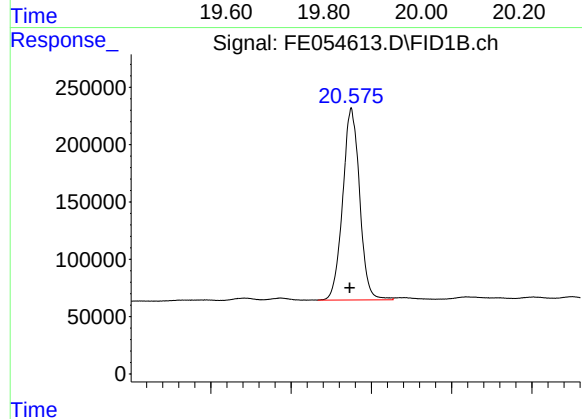
#18 n-Dotriacontane (C32)

R.T.: 19.051 min
Delta R.T.: 0.002 min
Response: 2934528
Conc: 18.14 ug/ml



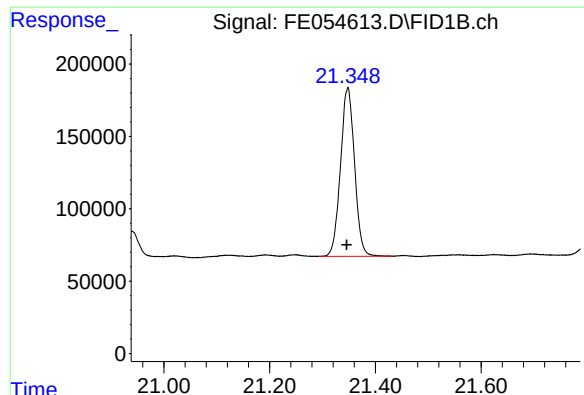
#19 n-Tetratriacontane (C34)

R.T.: 19.835 min
Delta R.T.: 0.002 min
Response: 2788021
Conc: 18.30 ug/ml



#20 n-Hexatriacontane (C36)

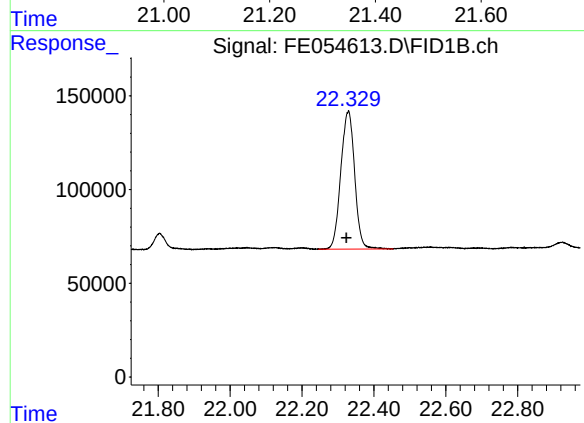
R.T.: 20.575 min
Delta R.T.: 0.002 min
Response: 2448198
Conc: 18.21 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.348 min
Delta R.T.: 0.002 min
Response: 2149052
Conc: 18.32 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.329 min
Delta R.T.: 0.005 min
Response: 1970334
Conc: 18.18 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE062725AL\
Data File : FE054613.D
Signal(s) : FID1B.ch
Acq On : 27 Jun 2025 15:24
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	3.365	3.472	BB	256328	2502645	82.63%	4.332%
2	4.672	4.620	4.720	BB	265371	2544484	84.01%	4.405%
3	6.384	6.324	6.417	BV	304777	2820974	93.14%	4.883%
4	6.844	6.779	6.885	BB	261391	2560893	84.55%	4.433%
5	7.482	7.447	7.512	VB	285575	2750056	90.80%	4.761%
6	8.677	8.539	8.745	BB	254086	2581289	85.23%	4.468%
7	10.290	10.229	10.340	BB	243419	2662158	87.90%	4.608%
8	11.738	11.692	11.797	VB	244915	2731350	90.18%	4.728%
9	12.062	12.030	12.114	VB	282454	3028688	100.00%	5.243%
10	13.051	12.917	13.122	BB	233017	2682264	88.56%	4.643%
11	13.498	13.375	13.530	BV	205276	2342450	77.34%	4.055%
12	13.664	13.605	13.705	BB	223180	2655754	87.69%	4.597%
13	14.252	14.184	14.305	BB	216501	2663243	87.93%	4.610%
14	15.356	15.240	15.412	BB	206574	2701405	89.19%	4.676%
15	16.379	16.222	16.445	BB	201653	2682582	88.57%	4.644%
16	17.329	17.250	17.395	BB	201121	2682634	88.57%	4.644%
17	18.218	18.154	18.282	BB	209402	2884214	95.23%	4.993%
18	19.051	18.984	19.129	BB	216846	2934528	96.89%	5.080%
19	19.835	19.789	19.942	VB	194869	2788021	92.05%	4.826%
20	20.575	20.534	20.627	BV	167522	2448198	80.83%	4.238%
21	21.348	21.292	21.434	BV	116202	2149052	70.96%	3.720%
22	22.329	22.245	22.454	BV	73515	1970334	65.06%	3.411%
Sum of corrected areas:							57767217	

Aliphatic EPH 062725.M Sat Jun 28 02:19:40 2025

Continuing Calibration Report for SequenceID : FE072125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FE054936.D

Aliphatic C9-C12	8147380.000	60.000	3.330	6.963	135789.667	136055.079	0.195
Aliphatic C12-C16	5783332.000	40.000	6.964	10.415	144583.300	140568.128	-2.856
Aliphatic C16-C21	8531240.000	60.000	10.416	13.793	142187.333	144393.643	1.528
Aliphatic C21-C28	10761036.000	80.000	13.794	17.463	134512.950	144651.717	7.009
Aliphatic C28-C40	15316214.000	120.000	17.464	22.490	127635.117	138647.492	7.943
Aliphatic EPH	48539202.000	360.000	3.330	22.490	134831.117	140720.791	4.185

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	21 Jul 2025 09:48
Client Sample ID:		Operator:	YP\AJ
Data file:	FE054936.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.330	6.963	8147380.000	60.000	ug/ml
Aliphatic C12-C16	6.964	10.415	5783332.000	40.000	ug/ml
Aliphatic C16-C21	10.416	13.793	8531240.000	60.000	ug/ml
Aliphatic C21-C28	13.794	17.463	10761036.000	80.000	ug/ml
Aliphatic C28-C40	17.464	22.490	15316214.000	120.000	ug/ml
Aliphatic EPH	3.330	22.490	48539202.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054936.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 09:48
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Jul 22 01:28:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.091	3206740	19.747 ug/ml
Spiked Amount 50.000		Recovery =	39.49%
12) S 1-chlorooctadecane (S...	13.526	2405985	19.051 ug/ml
Spiked Amount 50.000		Recovery =	38.10%
Target Compounds			
1) T n-Nonane (C9)	3.430	2622113	19.494 ug/ml
2) T n-Decane (C10)	4.687	2728994	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.407	3118778	20.598 ug/ml
4) T n-Dodecane (C12)	6.863	2796273	20.380 ug/ml
5) T A~2-methylnaphthalene...	7.508	3035155	20.647 ug/ml
6) T n-Tetradecane (C14)	8.700	2833497	20.440 ug/ml
7) T n-Hexadecane (C16)	10.315	2949835	20.699 ug/ml
8) T n-Octadecane (C18)	11.764	2961803	20.210 ug/ml
10) T n-Eicosane (C20)	13.079	2815874	19.583 ug/ml
11) T n-Heneicosane (C21)	13.693	2753563	19.278 ug/ml
13) T n-Docosane (C22)	14.281	2726090	19.092 ug/ml
14) T n-Tetracosane (C24)	15.387	2710960	18.649 ug/ml
15) T n-Hexacosane (C26)	16.411	2666440	18.425 ug/ml
16) T n-Octacosane (C28)	17.363	2657546	18.235 ug/ml
17) T n-Tricontane (C30)	18.253	2783864	17.666 ug/ml
18) T n-Dotriacontane (C32)	19.087	2818258	17.420 ug/ml
19) T n-Tetratriacontane (C34)	19.873	2638069	17.311 ug/ml
20) T n-Hexatriacontane (C36)	20.614	2399384	17.845 ug/ml
21) T n-Octatriacontane (C38)	21.396	2454078	20.924 ug/ml
22) T n-Tetracontane (C40)	22.390	2222561	20.506 ug/ml

(f)=RT Delta > 1/2 Window

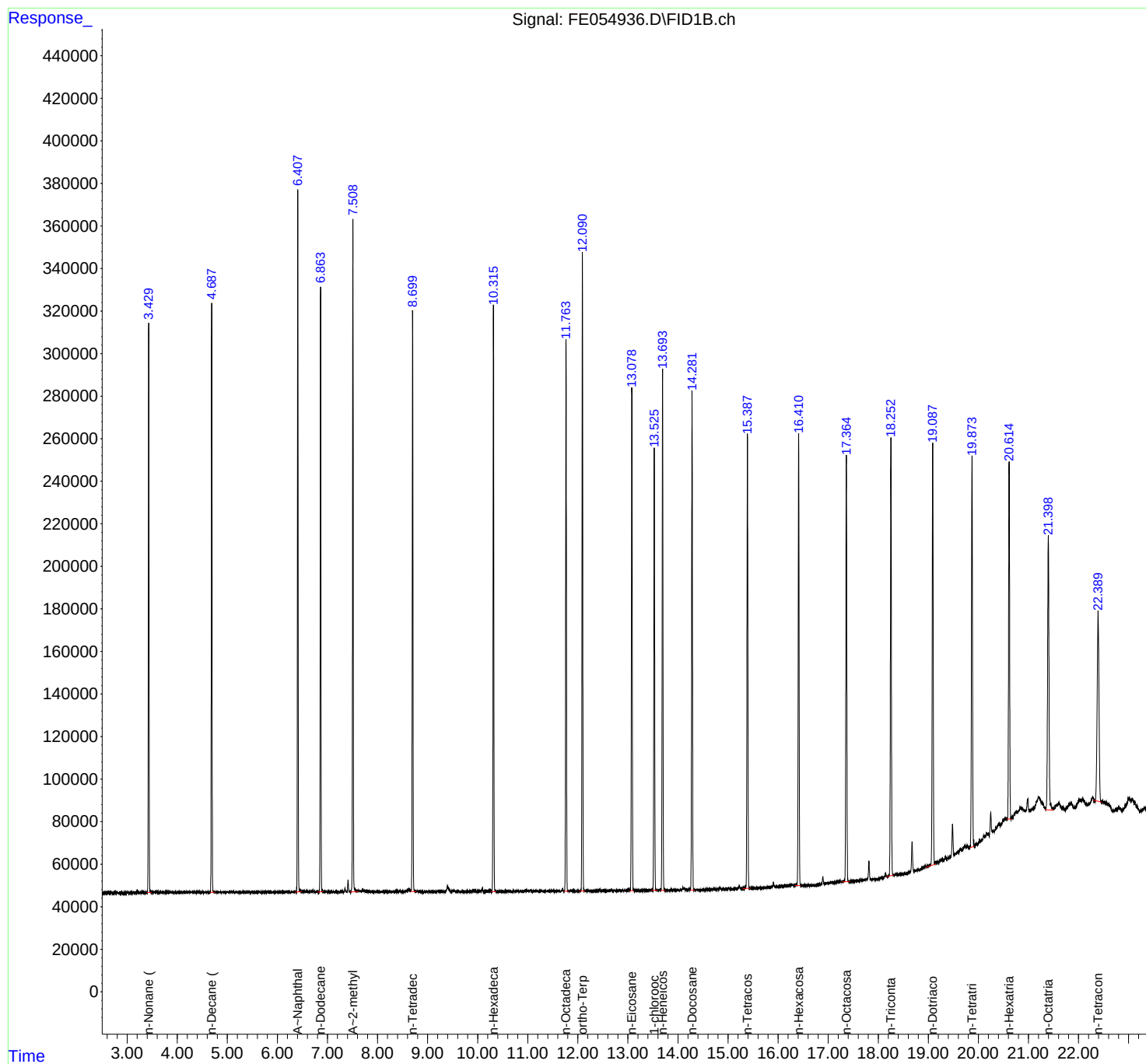
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054936.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 09:48
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jul 22 01:28:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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\FE072125AL\
 Data File : FE054936.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 09:48
 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 062725.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	3.430	3.395	3.487	BB	266807	2622113	81.77%	4.348%
2	4.687	4.655	4.754	BB	276862	2728994	85.10%	4.525%
3	6.407	6.350	6.489	BB	329815	3118778	97.26%	5.172%
4	6.863	6.805	6.910	BB	284898	2796273	87.20%	4.637%
5	7.508	7.457	7.614	BB	316930	3035155	94.65%	5.033%
6	8.700	8.669	8.772	VB	272858	2833497	88.36%	4.699%
7	10.315	10.269	10.367	BB	275705	2949835	91.99%	4.891%
8	11.764	11.719	11.822	VB	258856	2961803	92.36%	4.911%
9	12.091	12.032	12.149	BB	300043	3206740	100.00%	5.317%
10	13.079	13.039	13.120	VB	235580	2815874	87.81%	4.669%
11	13.526	13.469	13.587	BB	207805	2405985	75.03%	3.990%
12	13.693	13.657	13.747	PB	244564	2753563	85.87%	4.566%
13	14.281	14.247	14.339	VB	231795	2726090	85.01%	4.520%
14	15.387	15.289	15.444	BB	213476	2710960	84.54%	4.495%
15	16.411	16.330	16.454	BB	211765	2666440	83.15%	4.422%
16	17.363	17.275	17.432	BB	199203	2657546	82.87%	4.407%
17	18.253	18.167	18.302	PV	204361	2783864	86.81%	4.616%
18	19.087	18.959	19.135	VV	197813	2818258	87.89%	4.673%
19	19.873	19.829	19.919	BV	184334	2638069	82.27%	4.374%
20	20.614	20.570	20.651	BV	167543	2399384	74.82%	3.979%
21	21.396	21.340	21.484	VV	128350	2454078	76.53%	4.069%
22	22.390	22.300	22.465	BV	89132	2222561	69.31%	3.685%
Sum of corrected areas:							60305859	

Aliphatic EPH 062725.M Tue Jul 22 01:52:38 2025

Continuing Calibration Report for SequenceID : FE072125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FE054951.D

Aliphatic C9-C12	7757015.000	60.000	3.330	6.963	129283.583	136055.079	4.977
Aliphatic C12-C16	5553080.000	40.000	6.964	10.415	138827.000	140568.128	1.239
Aliphatic C16-C21	8272535.000	60.000	10.416	13.793	137875.583	144393.643	4.514
Aliphatic C21-C28	10483508.000	80.000	13.794	17.463	131043.850	144651.717	9.407
Aliphatic C28-C40	15200104.000	120.000	17.464	22.490	126667.533	138647.492	8.641
Aliphatic EPH	47266242.000	360.000	3.330	22.490	131295.117	140720.791	6.698

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	21 Jul 2025 21:06
Client Sample ID:		Operator:	YPAJ
Data file:	FE054951.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.330	6.963	7757015.000	60.000	ug/ml
Aliphatic C12-C16	6.964	10.415	5553080.000	40.000	ug/ml
Aliphatic C16-C21	10.416	13.793	8272535.000	60.000	ug/ml
Aliphatic C21-C28	13.794	17.463	10483508.000	80.000	ug/ml
Aliphatic C28-C40	17.464	22.490	15200104.000	120.000	ug/ml
Aliphatic EPH	3.330	22.490	47266242.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054951.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 21:06
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Jul 22 01:31:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.088	3114338	19.178 ug/ml
Spiked Amount 50.000		Recovery =	38.36%
12) S 1-chlorooctadecane (S...	13.524	2363449	18.714 ug/ml
Spiked Amount 50.000		Recovery =	37.43%
Target Compounds			
1) T n-Nonane (C9)	3.425	2490289	18.514 ug/ml
2) T n-Decane (C10)	4.684	2596538	19.029 ug/ml
3) T A~Naphthalene (C11.7)	6.403	2980793	19.687 ug/ml
4) T n-Dodecane (C12)	6.859	2670188	19.461 ug/ml
5) T A~2-methylnaphthalene...	7.504	2901826	19.740 ug/ml
6) T n-Tetradecane (C14)	8.697	2727715	19.677 ug/ml
7) T n-Hexadecane (C16)	10.312	2825365	19.826 ug/ml
8) T n-Octadecane (C18)	11.761	2861984	19.528 ug/ml
10) T n-Eicosane (C20)	13.076	2730907	18.992 ug/ml
11) T n-Heneicosane (C21)	13.690	2679644	18.761 ug/ml
13) T n-Docosane (C22)	14.278	2654609	18.591 ug/ml
14) T n-Tetracosane (C24)	15.384	2645321	18.198 ug/ml
15) T n-Hexacosane (C26)	16.409	2595439	17.935 ug/ml
16) T n-Octacosane (C28)	17.361	2588139	17.759 ug/ml
17) T n-Tricontane (C30)	18.250	2746785	17.431 ug/ml
18) T n-Dotriacontane (C32)	19.085	2768123	17.110 ug/ml
19) T n-Tetratriacontane (C34)	19.870	2590930	17.002 ug/ml
20) T n-Hexatriacontane (C36)	20.610	2384750	17.736 ug/ml
21) T n-Octatriacontane (C38)	21.392	2472897	21.085 ug/ml
22) T n-Tetracontane (C40)	22.386	2236619	20.636 ug/ml

(f)=RT Delta > 1/2 Window

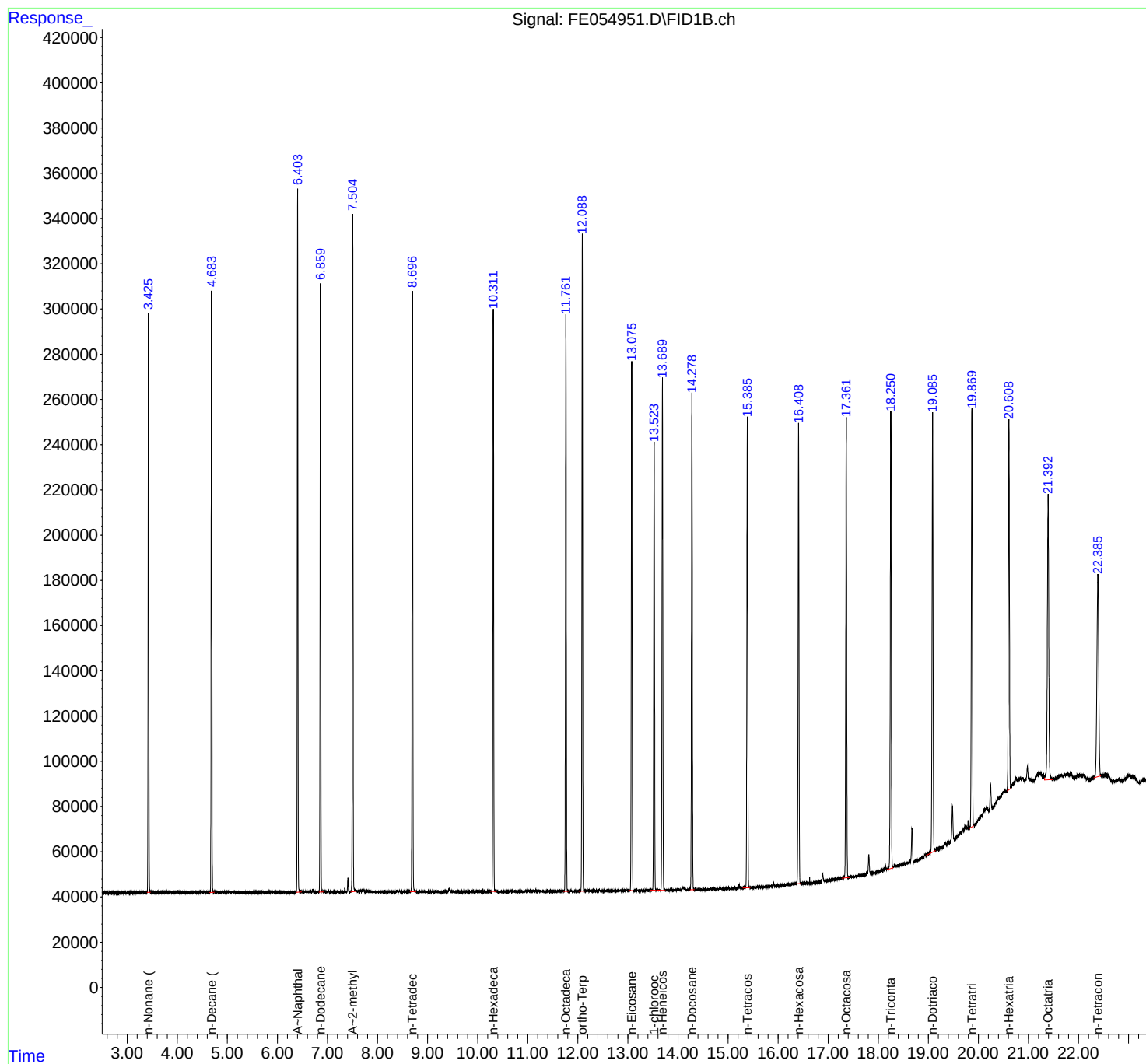
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054951.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 21:06
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jul 22 01:31:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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\FE072125AL\
 Data File : FE054951.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 21:06
 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 062725.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	3.425	3.392	3.469	BB	256079	2490289	79.96%	4.248%
2	4.684	4.647	4.745	BB	266025	2596538	83.37%	4.429%
3	6.403	6.370	6.487	BB	311375	2980793	95.71%	5.084%
4	6.859	6.827	6.917	BB	267559	2670188	85.74%	4.555%
5	7.504	7.460	7.579	BB	299615	2901826	93.18%	4.950%
6	8.697	8.650	8.770	BB	265506	2727715	87.59%	4.653%
7	10.312	10.252	10.372	BB	257586	2825365	90.72%	4.819%
8	11.761	11.715	11.812	BB	252571	2861984	91.90%	4.882%
9	12.088	12.022	12.139	BB	290670	3114338	100.00%	5.312%
10	13.076	13.012	13.115	BB	234411	2730907	87.69%	4.658%
11	13.524	13.455	13.560	BB	197928	2363449	75.89%	4.031%
12	13.690	13.592	13.750	BB	226334	2679644	86.04%	4.571%
13	14.278	14.244	14.327	VB	219458	2654609	85.24%	4.528%
14	15.384	15.294	15.447	BB	208747	2645321	84.94%	4.512%
15	16.409	16.325	16.450	BB	203246	2595439	83.34%	4.427%
16	17.361	17.275	17.419	BB	202155	2588139	83.10%	4.415%
17	18.250	18.165	18.292	VV	202025	2746785	88.20%	4.685%
18	19.085	18.957	19.140	VV	194536	2768123	88.88%	4.722%
19	19.870	19.815	19.907	BV	184763	2590930	83.19%	4.419%
20	20.610	20.570	20.650	BV	160858	2384750	76.57%	4.068%
21	21.392	21.320	21.490	VV	125229	2472897	79.40%	4.218%
22	22.386	22.300	22.447	BV	89424	2236619	71.82%	3.815%
Sum of corrected areas:							58626647	

Aliphatic EPH 062725.M Tue Jul 22 01:57:38 2025

Continuing Calibration Report for SequenceID : FE072225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FE054954.D

Aliphatic C9-C12	8247261.000	60.000	3.325	6.960	137454.350	136055.079	-1.028
Aliphatic C12-C16	5891259.000	40.000	6.961	10.412	147281.475	140568.128	-4.776
Aliphatic C16-C21	8721423.000	60.000	10.413	13.791	145357.050	144393.643	-0.667
Aliphatic C21-C28	11030578.000	80.000	13.792	17.461	137882.225	144651.717	4.680
Aliphatic C28-C40	15930506.000	120.000	17.462	22.488	132754.217	138647.492	4.251
Aliphatic EPH	49821027.000	360.000	3.325	22.488	138391.742	140720.791	1.655

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	22 Jul 2025 08:25
Client Sample ID:		Operator:	YP\AJ
Data file:	FE054954.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.325	6.960	8247261.000	60.000	ug/ml
Aliphatic C12-C16	6.961	10.412	5891259.000	40.000	ug/ml
Aliphatic C16-C21	10.413	13.791	8721423.000	60.000	ug/ml
Aliphatic C21-C28	13.792	17.461	11030578.000	80.000	ug/ml
Aliphatic C28-C40	17.462	22.488	15930506.000	120.000	ug/ml
Aliphatic EPH	3.325	22.488	49821027.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
 Data File : FE054954.D
 Signal(s) : FID1B.ch
 Acq On : 22 Jul 2025 08:25
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Jul 23 04:27:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.089	3284545	20.226 ug/ml
Spiked Amount 50.000		Recovery =	40.45%
12) S 1-chlorooctadecane (S...	13.525	2478684	19.626 ug/ml
Spiked Amount 50.000		Recovery =	39.25%
Target Compounds			
1) T n-Nonane (C9)	3.425	2645570	19.668 ug/ml
2) T n-Decane (C10)	4.684	2761198	20.236 ug/ml
3) T A~Naphthalene (C11.7)	6.404	3166800	20.915 ug/ml
4) T n-Dodecane (C12)	6.860	2840493	20.702 ug/ml
5) T A~2-methylnaphthalene...	7.505	3082626	20.970 ug/ml
6) T n-Tetradecane (C14)	8.697	2895563	20.888 ug/ml
7) T n-Hexadecane (C16)	10.312	2995696	21.021 ug/ml
8) T n-Octadecane (C18)	11.762	3022744	20.625 ug/ml
10) T n-Eicosane (C20)	13.077	2880369	20.031 ug/ml
11) T n-Heneicosane (C21)	13.691	2818310	19.732 ug/ml
13) T n-Docosane (C22)	14.279	2790412	19.542 ug/ml
14) T n-Tetracosane (C24)	15.385	2778542	19.114 ug/ml
15) T n-Hexacosane (C26)	16.409	2735894	18.905 ug/ml
16) T n-Octacosane (C28)	17.361	2725730	18.703 ug/ml
17) T n-Tricontane (C30)	18.251	2873806	18.237 ug/ml
18) T n-Dotriacontane (C32)	19.086	2905558	17.959 ug/ml
19) T n-Tetratriacontane (C34)	19.869	2743552	18.003 ug/ml
20) T n-Hexatriacontane (C36)	20.611	2533559	18.843 ug/ml
21) T n-Octatriacontane (C38)	21.394	2524580	21.525 ug/ml
22) T n-Tetracontane (C40)	22.388	2349451	21.677 ug/ml

(f)=RT Delta > 1/2 Window

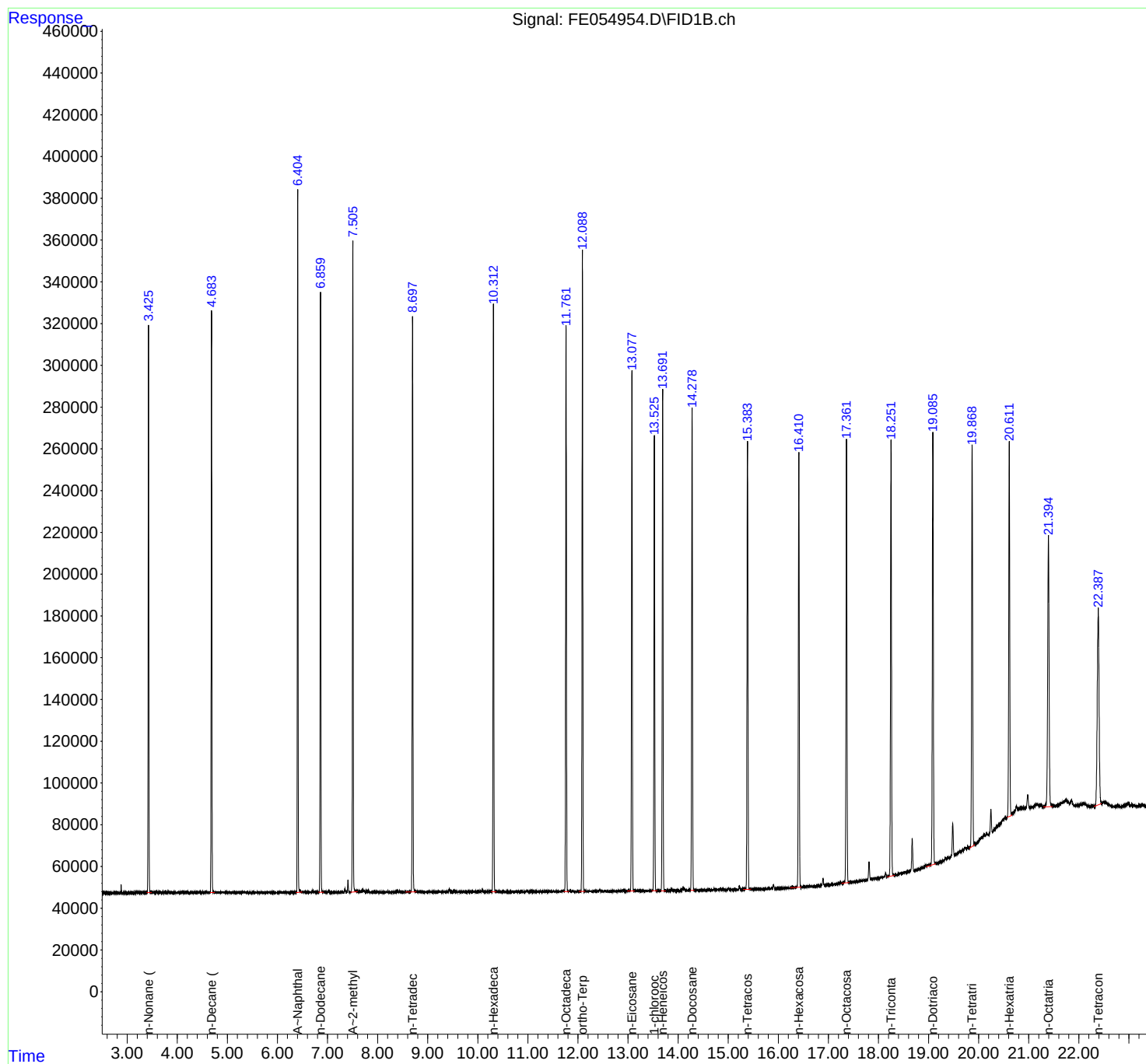
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
Data File : FE054954.D
Signal(s) : FID1B.ch
Acq On : 22 Jul 2025 08:25
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jul 23 04:27:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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\FE072225AL\
 Data File : FE054954.D
 Signal(s) : FID1B.ch
 Acq On : 22 Jul 2025 08:25
 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 062725.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	3.425	3.394	3.490	BB	271806	2645570	80.55%	4.279%
2	4.684	4.650	4.749	BB	278627	2761198	84.07%	4.466%
3	6.404	6.372	6.492	BB	336936	3166800	96.42%	5.121%
4	6.860	6.819	6.924	BB	287201	2840493	86.48%	4.594%
5	7.505	7.460	7.602	BB	311068	3082626	93.85%	4.985%
6	8.697	8.559	8.777	BB	275156	2895563	88.16%	4.683%
7	10.312	10.265	10.372	BB	281674	2995696	91.21%	4.845%
8	11.762	11.719	11.819	PB	270482	3022744	92.03%	4.889%
9	12.089	12.024	12.142	BB	302646	3284545	100.00%	5.312%
10	13.077	12.982	13.130	BB	249608	2880369	87.69%	4.658%
11	13.525	13.469	13.584	BB	218923	2478684	75.47%	4.009%
12	13.691	13.655	13.754	PB	240226	2818310	85.81%	4.558%
13	14.279	14.245	14.320	VB	230976	2790412	84.96%	4.513%
14	15.385	15.294	15.450	BB	214484	2778542	84.59%	4.494%
15	16.409	16.242	16.454	BB	207968	2735894	83.30%	4.425%
16	17.361	17.262	17.415	BB	212191	2725730	82.99%	4.408%
17	18.251	18.174	18.322	PV	208406	2873806	87.49%	4.648%
18	19.086	18.960	19.144	VB	206625	2905558	88.46%	4.699%
19	19.869	19.824	19.917	BV	191742	2743552	83.53%	4.437%
20	20.611	20.570	20.655	BV	177959	2533559	77.14%	4.097%
21	21.394	21.297	21.475	BV	130020	2524580	76.86%	4.083%
22	22.388	22.300	22.450	BV	93642	2349451	71.53%	3.800%
Sum of corrected areas:							61833679	

Aliphatic EPH 062725.M Wed Jul 23 05:07:33 2025

Continuing Calibration Report for SequenceID : FE072225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FE054958.D

Aliphatic C9-C12	8204093.000	60.000	3.325	6.960	136734.883	136055.079	-0.500
Aliphatic C12-C16	5851407.000	40.000	6.961	10.412	146285.175	140568.128	-4.067
Aliphatic C16-C21	8679509.000	60.000	10.413	13.791	144658.483	144393.643	-0.183
Aliphatic C21-C28	11036400.000	80.000	13.792	17.461	137955.000	144651.717	4.630
Aliphatic C28-C40	15983065.000	120.000	17.462	22.488	133192.208	138647.492	3.935
Aliphatic EPH	49754474.000	360.000	3.325	22.488	138206.872	140720.791	1.786

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	22 Jul 2025 13:00
Client Sample ID:		Operator:	YP\AJ
Data file:	FE054958.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.325	6.960	8204093.000	60.000	ug/ml
Aliphatic C12-C16	6.961	10.412	5851407.000	40.000	ug/ml
Aliphatic C16-C21	10.413	13.791	8679509.000	60.000	ug/ml
Aliphatic C21-C28	13.792	17.461	11036400.000	80.000	ug/ml
Aliphatic C28-C40	17.462	22.488	15983065.000	120.000	ug/ml
Aliphatic EPH	3.325	22.488	49754474.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
 Data File : FE054958.D
 Signal(s) : FID1B.ch
 Acq On : 22 Jul 2025 13:00
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Jul 23 04:29:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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	3271132	20.143 ug/ml
Spiked Amount 50.000		Recovery =	40.29%
12) S 1-chlorooctadecane (S...	13.526	2475011	19.597 ug/ml
Spiked Amount 50.000		Recovery =	39.19%
Target Compounds			
1) T n-Nonane (C9)	3.426	2637843	19.611 ug/ml
2) T n-Decane (C10)	4.684	2745745	20.123 ug/ml
3) T A~Naphthalene (C11.7)	6.404	3140838	20.744 ug/ml
4) T n-Dodecane (C12)	6.860	2820505	20.557 ug/ml
5) T A~2-methylnaphthalene...	7.505	3064247	20.845 ug/ml
6) T n-Tetradecane (C14)	8.697	2877142	20.755 ug/ml
7) T n-Hexadecane (C16)	10.313	2974265	20.871 ug/ml
8) T n-Octadecane (C18)	11.762	3001505	20.480 ug/ml
10) T n-Eicosane (C20)	13.077	2866399	19.934 ug/ml
11) T n-Heneicosane (C21)	13.691	2811605	19.685 ug/ml
13) T n-Docosane (C22)	14.280	2788099	19.526 ug/ml
14) T n-Tetracosane (C24)	15.386	2781753	19.136 ug/ml
15) T n-Hexacosane (C26)	16.409	2736992	18.913 ug/ml
16) T n-Octacosane (C28)	17.362	2729556	18.729 ug/ml
17) T n-Tricontane (C30)	18.251	2897269	18.386 ug/ml
18) T n-Dotriacontane (C32)	19.087	2926461	18.088 ug/ml
19) T n-Tetratriacontane (C34)	19.871	2750511	18.049 ug/ml
20) T n-Hexatriacontane (C36)	20.612	2501084	18.602 ug/ml
21) T n-Octatriacontane (C38)	21.392	2600680	22.174 ug/ml
22) T n-Tetracontane (C40)	22.388	2307060	21.286 ug/ml

(f)=RT Delta > 1/2 Window

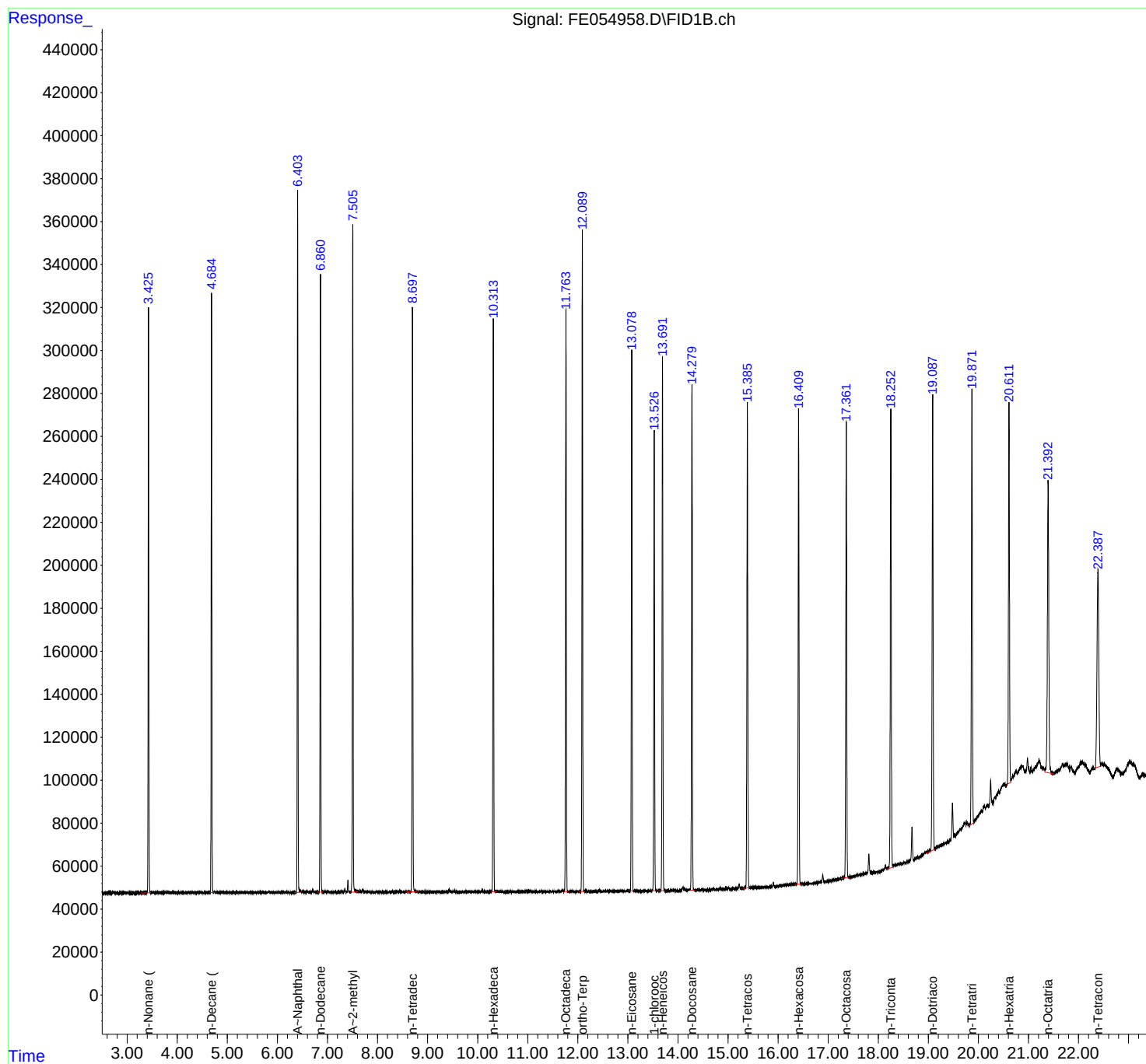
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
Data File : FE054958.D
Signal(s) : FID1B.ch
Acq On : 22 Jul 2025 13:00
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jul 23 04:29:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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\FE072225AL\
 Data File : FE054958.D
 Signal(s) : FID1B.ch
 Acq On : 22 Jul 2025 13:00
 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 062725.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	3.275	3.470	BB	271575	2637843	80.64%	4.275%
2	4.684	4.650	4.754	BB	278460	2745745	83.94%	4.450%
3	6.404	6.337	6.489	BB	327119	3140838	96.02%	5.090%
4	6.860	6.799	6.912	BB	287377	2820505	86.22%	4.571%
5	7.505	7.464	7.612	BB	310342	3064247	93.68%	4.966%
6	8.697	8.570	8.790	BB	272129	2877142	87.96%	4.663%
7	10.313	10.277	10.372	BB	265733	2974265	90.92%	4.820%
8	11.762	11.722	11.809	BB	269602	3001505	91.76%	4.864%
9	12.090	12.020	12.135	BB	307372	3271132	100.00%	5.301%
10	13.077	13.014	13.137	BB	251459	2866399	87.63%	4.645%
11	13.526	13.469	13.569	BB	214438	2475011	75.66%	4.011%
12	13.691	13.599	13.750	BB	248711	2811605	85.95%	4.556%
13	14.280	14.244	14.332	VB	235347	2788099	85.23%	4.518%
14	15.386	15.295	15.437	BB	224956	2781753	85.04%	4.508%
15	16.409	16.325	16.450	BB	220078	2736992	83.67%	4.436%
16	17.362	17.262	17.414	BB	209645	2729556	83.44%	4.424%
17	18.251	18.165	18.294	VV	211334	2897269	88.57%	4.695%
18	19.087	18.962	19.125	VV	212491	2926461	89.46%	4.743%
19	19.871	19.815	19.910	PV	201951	2750511	84.08%	4.457%
20	20.612	20.570	20.649	BV	177545	2501084	76.46%	4.053%
21	21.392	21.325	21.496	VV	136108	2600680	79.50%	4.215%
22	22.388	22.300	22.442	BV	92004	2307060	70.53%	3.739%
Sum of corrected areas:							61705702	

Aliphatic EPH 062725.M Wed Jul 23 05:10:15 2025

Continuing Calibration Report for SequenceID : FE072225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FE054974.D

Aliphatic C9-C12	8003485.000	60.000	3.325	6.960	133391.417	136055.079	1.958
Aliphatic C12-C16	5691816.000	40.000	6.961	10.412	142295.400	140568.128	-1.229
Aliphatic C16-C21	8499038.000	60.000	10.413	13.791	141650.633	144393.643	1.900
Aliphatic C21-C28	10820484.000	80.000	13.792	17.461	135256.050	144651.717	6.495
Aliphatic C28-C40	15503906.000	120.000	17.462	22.488	129199.217	138647.492	6.815
Aliphatic EPH	48518729.000	360.000	3.325	22.488	134774.247	140720.791	4.226

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	22 Jul 2025 22:46
Client Sample ID:		Operator:	YP\AJ
Data file:	FE054974.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.325	6.960	8003485.000	60.000	ug/ml
Aliphatic C12-C16	6.961	10.412	5691816.000	40.000	ug/ml
Aliphatic C16-C21	10.413	13.791	8499038.000	60.000	ug/ml
Aliphatic C21-C28	13.792	17.461	10820484.000	80.000	ug/ml
Aliphatic C28-C40	17.462	22.488	15503906.000	120.000	ug/ml
Aliphatic EPH	3.325	22.488	48518729.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
 Data File : FE054974.D
 Signal(s) : FID1B.ch
 Acq On : 22 Jul 2025 22:46
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Jul 23 04:34:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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	3196169	19.682 ug/ml
Spiked Amount 50.000		Recovery =	39.36%
12) S 1-chlorooctadecane (S...	13.522	2430774	19.247 ug/ml
Spiked Amount 50.000		Recovery =	38.49%
Target Compounds			
1) T n-Nonane (C9)	3.424	2572579	19.126 ug/ml
2) T n-Decane (C10)	4.682	2680272	19.643 ug/ml
3) T A~Naphthalene (C11.7)	6.401	3062211	20.224 ug/ml
4) T n-Dodecane (C12)	6.858	2750634	20.047 ug/ml
5) T A~2-methylnaphthalene...	7.502	2989396	20.335 ug/ml
6) T n-Tetradecane (C14)	8.695	2797215	20.178 ug/ml
7) T n-Hexadecane (C16)	10.309	2894601	20.312 ug/ml
8) T n-Octadecane (C18)	11.759	2933470	20.016 ug/ml
10) T n-Eicosane (C20)	13.073	2811601	19.553 ug/ml
11) T n-Heneicosane (C21)	13.688	2753967	19.281 ug/ml
13) T n-Docosane (C22)	14.275	2731997	19.133 ug/ml
14) T n-Tetracosane (C24)	15.381	2727223	18.761 ug/ml
15) T n-Hexacosane (C26)	16.405	2684169	18.548 ug/ml
16) T n-Octacosane (C28)	17.357	2677095	18.369 ug/ml
17) T n-Tricontane (C30)	18.245	2826113	17.934 ug/ml
18) T n-Dotriacontane (C32)	19.080	2844810	17.584 ug/ml
19) T n-Tetratriacontane (C34)	19.865	2697692	17.702 ug/ml
20) T n-Hexatriacontane (C36)	20.605	2457671	18.279 ug/ml
21) T n-Octatriacontane (C38)	21.384	2388647	20.366 ug/ml
22) T n-Tetracontane (C40)	22.374	2288973	21.119 ug/ml

(f)=RT Delta > 1/2 Window

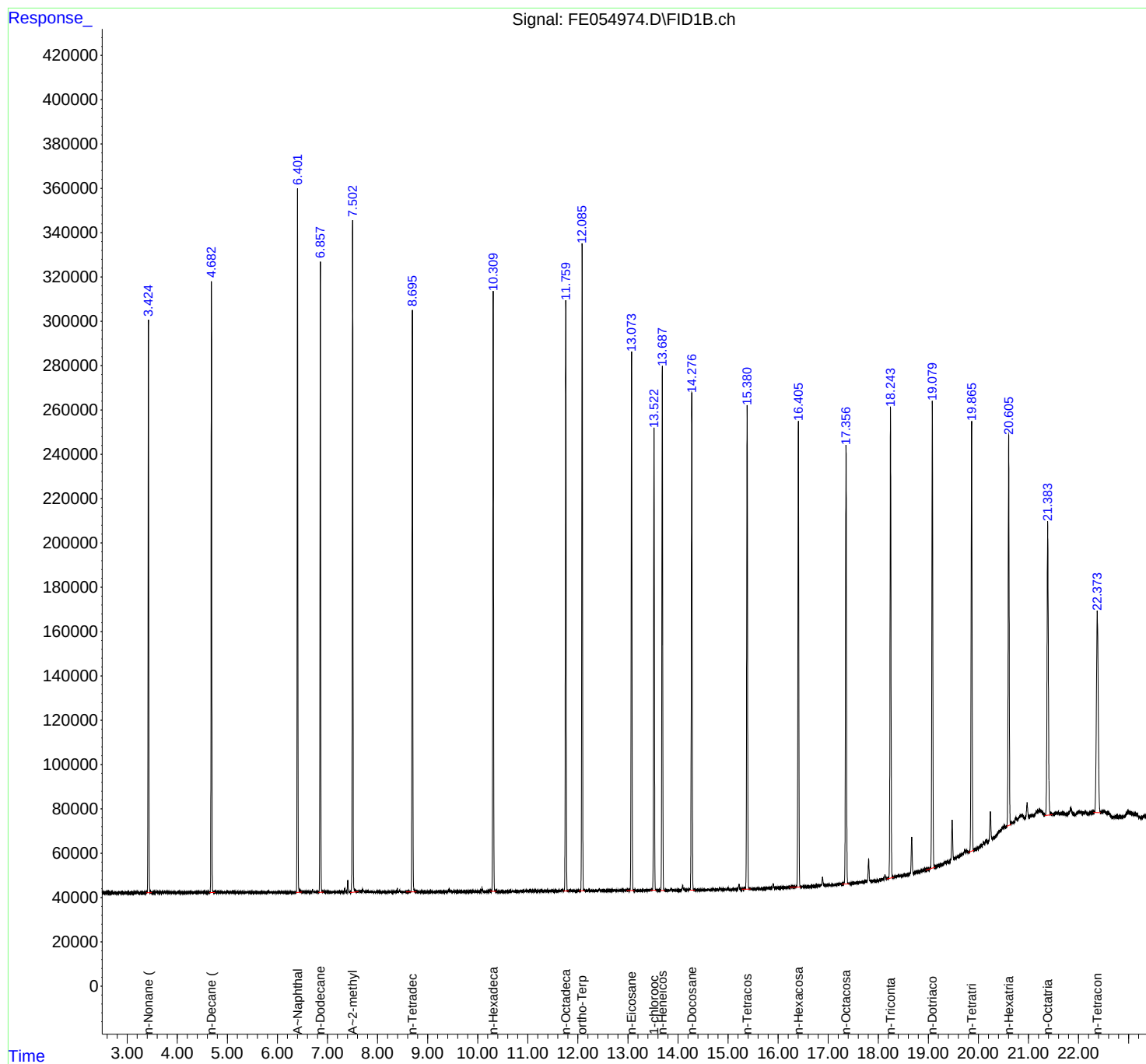
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072225AL\
Data File : FE054974.D
Signal(s) : FID1B.ch
Acq On : 22 Jul 2025 22:46
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jul 23 04:34:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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\FE072225AL\
 Data File : FE054974.D
 Signal(s) : FID1B.ch
 Acq On : 22 Jul 2025 22:46
 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 062725.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	3.383	3.485	BB	258014	2572579	80.49%	4.274%
2	4.682	4.648	4.747	BB	275273	2680272	83.86%	4.452%
3	6.401	6.370	6.485	BB	316025	3062211	95.81%	5.087%
4	6.858	6.823	6.923	BB	283103	2750634	86.06%	4.569%
5	7.502	7.458	7.615	BB	303490	2989396	93.53%	4.966%
6	8.695	8.568	8.773	BB	262444	2797215	87.52%	4.647%
7	10.309	10.253	10.377	BB	271995	2894601	90.56%	4.809%
8	11.759	11.713	11.817	BB	266033	2933470	91.78%	4.873%
9	12.086	12.022	12.140	BB	292648	3196169	100.00%	5.309%
10	13.073	12.973	13.133	BB	243494	2811601	87.97%	4.671%
11	13.522	13.455	13.560	BB	209058	2430774	76.05%	4.038%
12	13.688	13.652	13.733	PB	235522	2753967	86.16%	4.575%
13	14.275	14.243	14.338	VB	223680	2731997	85.48%	4.538%
14	15.381	15.277	15.445	BB	216524	2727223	85.33%	4.530%
15	16.405	16.228	16.453	BB	210451	2684169	83.98%	4.459%
16	17.357	17.275	17.418	BV	198143	2677095	83.76%	4.447%
17	18.245	18.170	18.310	PV	209715	2826113	88.42%	4.695%
18	19.080	18.953	19.138	PV	209663	2844810	89.01%	4.726%
19	19.865	19.803	19.910	PV	194025	2697692	84.40%	4.481%
20	20.605	20.570	20.643	BV	176351	2457671	76.89%	4.083%
21	21.384	21.330	21.478	PB	131888	2388647	74.73%	3.968%
22	22.374	22.300	22.443	BV	90704	2288973	71.62%	3.802%
Sum of corrected areas:							60197278	

Aliphatic EPH 062725.M Wed Jul 23 05:12:50 2025



QC SAMPLE DATA

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	PB168930BL	SDG No.:	Q2651
Lab Sample ID:	PB168930BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/21/25 13:31	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FE054937.D
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	3.99	mg/kg	FE054937.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	5.99	mg/kg	
Total EPH	Total EPH	2.09	U		2.09	5.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	PB168930BL	SDG No.:	Q2651
Lab Sample ID:	PB168930BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054937.D	1	07/21/25	07/21/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.4		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.3		40 - 140	71%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168930BL	Acq On:	21 Jul 2025 13:31
Client Sample ID:	PB168930BL	Operator:	YP\AJ
Data file:	FE054937.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	3.330	6.963	0	0	300	ug/ml
Aliphatic C12-C16	6.964	10.415	0	0	200	ug/ml
Aliphatic C16-C21	10.416	13.793	0	0	300	ug/ml
Aliphatic C21-C28	13.794	17.463	0	0	400	ug/ml
Aliphatic C28-C40	17.464	22.490	0	0	600	ug/ml
Aliphatic EPH	3.330	22.490	0	0		ug/ml
ortho-Terphenyl (SURR)	12.095	12.095	5726422	35.26		ug/ml
1-chlorooctadecane (SURR)	13.530	13.530	4471274	35.4		ug/ml
Aliphatic C9-C28	3.330	17.463	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054937.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 13:31
 Operator : YP\AJ
 Sample : PB168930BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB168930BL

Integration File: autoint1.e
 Quant Time: Jul 22 01:28:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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	5726422	35.263 ug/ml
Spiked Amount 50.000		Recovery =	70.53%
12) S 1-chlorooctadecane (S...	13.530	4471274	35.404 ug/ml
Spiked Amount 50.000		Recovery =	70.81%

Target Compounds

(f)=RT Delta > 1/2 Window

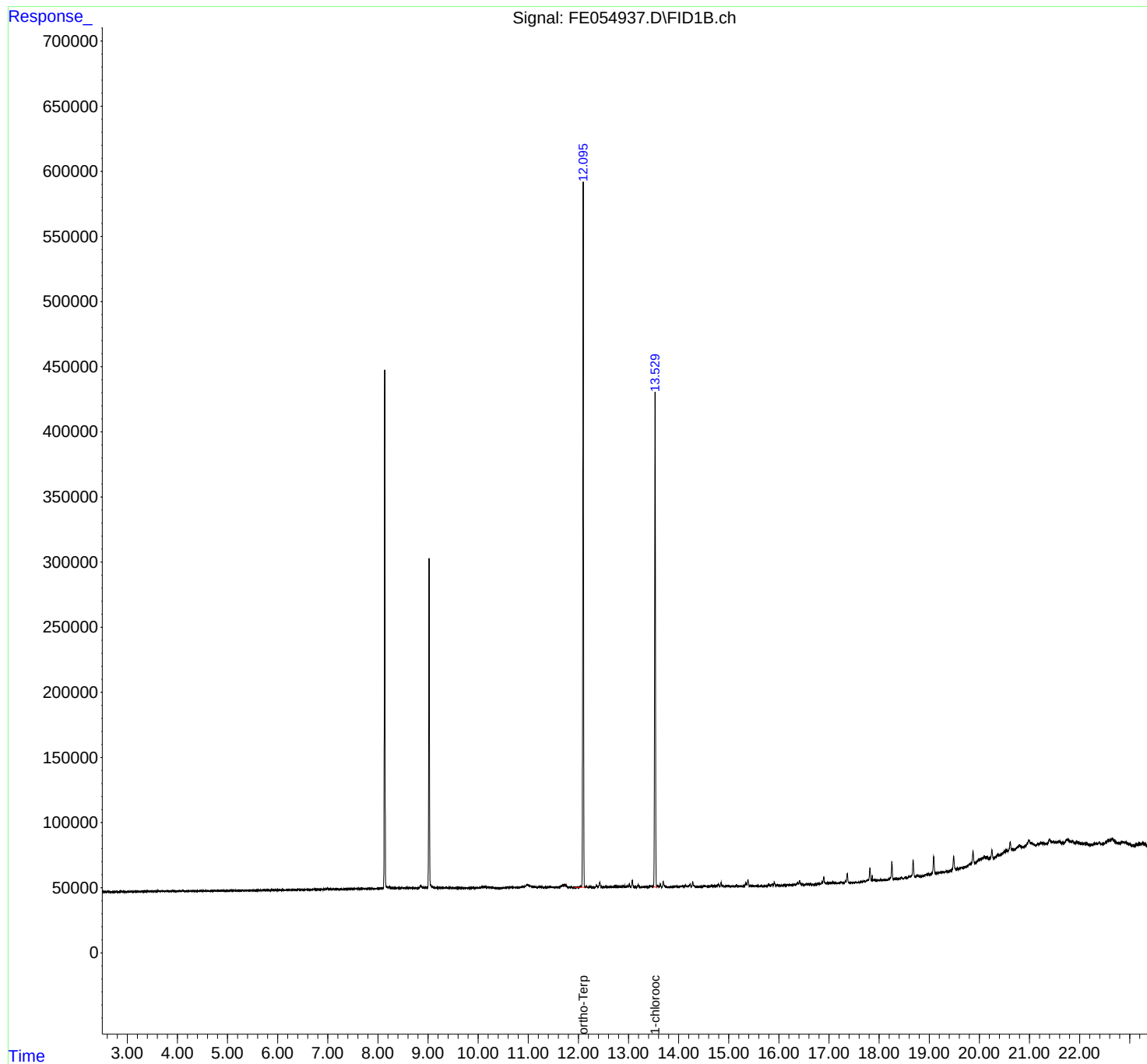
(m)=manual int.

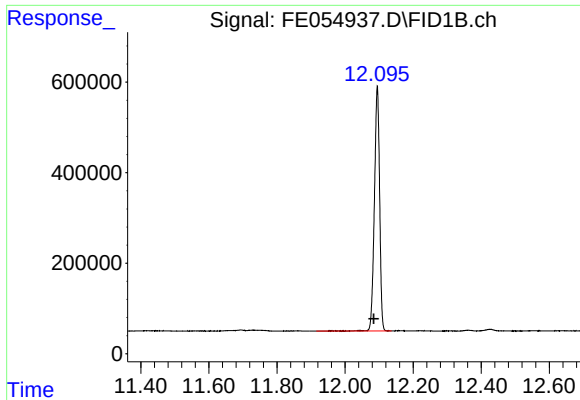
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054937.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 13:31
Operator : YP\AJ
Sample : PB168930BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB168930BL

Integration File: autoint1.e
Quant Time: Jul 22 01:28:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 2025
Response via : Initial Calibration
Integrator: ChemStation

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

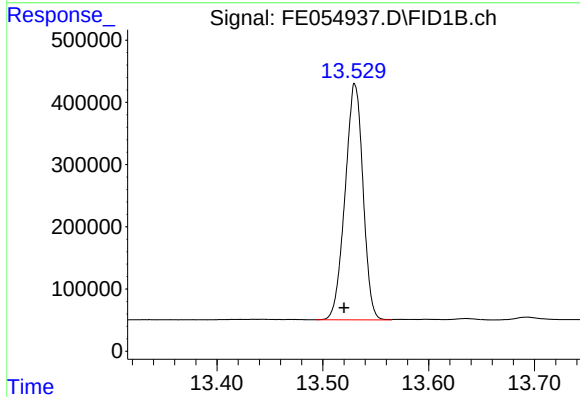




#9 ortho-Terphenyl (SURR)

R.T.: 12.095 min
Delta R.T.: 0.010 min
Response: 5726422
Conc: 35.26 ug/ml

Instrument :
FID_E
ClientSampleId :
PB168930BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.530 min
Delta R.T.: 0.010 min
Response: 4471274
Conc: 35.40 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054937.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 13:31
Sample : PB168930BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	12.095	11.915	12.137	BV	543512	5726422	100.00%	56.154%
2	13.530	13.494	13.565	BV	379237	4471274	78.08%	43.846%
Sum of corrected areas:							10197696	

Aliphatic EPH 062725.M Tue Jul 22 01:53:38 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	PB168930BS	SDG No.:	Q2651
Lab Sample ID:	PB168930BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/21/25 14:02	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	20.4		1	1.18	2.00	mg/kg	FE054938.D
Aliphatic C9-C28	Aliphatic C9-C28	57.3		1	0.91	4.00	mg/kg	FE054938.D
Total AliphaticEPH	Total AliphaticEPH	77.7			2.09	6.00	mg/kg	
Total EPH	Total EPH	77.7			2.09	6.00	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	PB168930BS	SDG No.:	Q2651
Lab Sample ID:	PB168930BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054938.D	1	07/21/25	07/21/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	57.3		0.91	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.4		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.9		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.7		40 - 140	75%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168930BS	Acq On:	21 Jul 2025 14:02
Client Sample ID:	PB168930BS	Operator:	YP\AJ
Data file:	FE054938.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	3.330	6.963	20904280	153.646	300	ug/ml
Aliphatic C12-C16	6.964	10.415	28464752	202.498	200	ug/ml
Aliphatic C16-C21	10.416	13.793	32477387	224.923	300	ug/ml
Aliphatic C21-C28	13.794	17.463	40341431	278.887	400	ug/ml
Aliphatic C28-C40	17.464	22.490	42456212	306.217	600	ug/ml
Aliphatic EPH	3.330	22.490	164644062	1170		ug/ml
ortho-Terphenyl (SURR)	12.092	12.092	6123134	37.71		ug/ml
1-chlorooctadecane (SURR)	13.527	13.527	4791142	37.94		ug/ml
Aliphatic C9-C28	3.330	17.463	122187850	859.954	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054938.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 14:02
 Operator : YP\AJ
 Sample : PB168930BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB168930BS

Integration File: autoint1.e
 Quant Time: Jul 22 01:28:32 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.092	6123134	37.705 ug/ml
Spiked Amount 50.000		Recovery =	75.41%
12) S 1-chlorooctadecane (S...	13.527	4791142	37.936 ug/ml
Spiked Amount 50.000		Recovery =	75.87%
Target Compounds			
1) T n-Nonane (C9)	3.430	3635267	27.026 ug/ml
2) T n-Decane (C10)	4.686	3899091	28.575 ug/ml
3) T A~Naphthalene (C11.7)	6.405	4824368	31.862 ug/ml
4) T n-Dodecane (C12)	6.860	4182250	30.481 ug/ml
5) T A~2-methylnaphthalene...	7.505	4565794	31.059 ug/ml
6) T n-Tetradecane (C14)	8.699	4349689	31.377 ug/ml
7) T n-Hexadecane (C16)	10.313	4482098	31.451 ug/ml
8) T n-Octadecane (C18)	11.764	4488729	30.628 ug/ml
10) T n-Eicosane (C20)	13.079	4595456	31.959 ug/ml
11) T n-Heneicosane (C21)	13.693	4386639	30.712 ug/ml
13) T n-Docosane (C22)	14.281	4326869	30.303 ug/ml
14) T n-Tetracosane (C24)	15.387	8870705	61.024 ug/ml
15) T n-Hexacosane (C26)	16.412	4191427	28.963 ug/ml
16) T n-Octacosane (C28)	17.364	4158153	28.532 ug/ml
17) T n-Tricontane (C30)	18.254	4232466	26.858 ug/ml
18) T n-Dotriacontane (C32)	19.088	4265518	26.365 ug/ml
19) T n-Tetratriacontane (C34)	19.873	4507743	29.580 ug/ml
20) T n-Hexatriacontane (C36)	20.614	4411560	32.811 ug/ml
21) T n-Octatriacontane (C38)	21.397	4903323	41.807 ug/ml
22) T n-Tetracontane (C40)	22.391	4429320	40.867 ug/ml

(f)=RT Delta > 1/2 Window

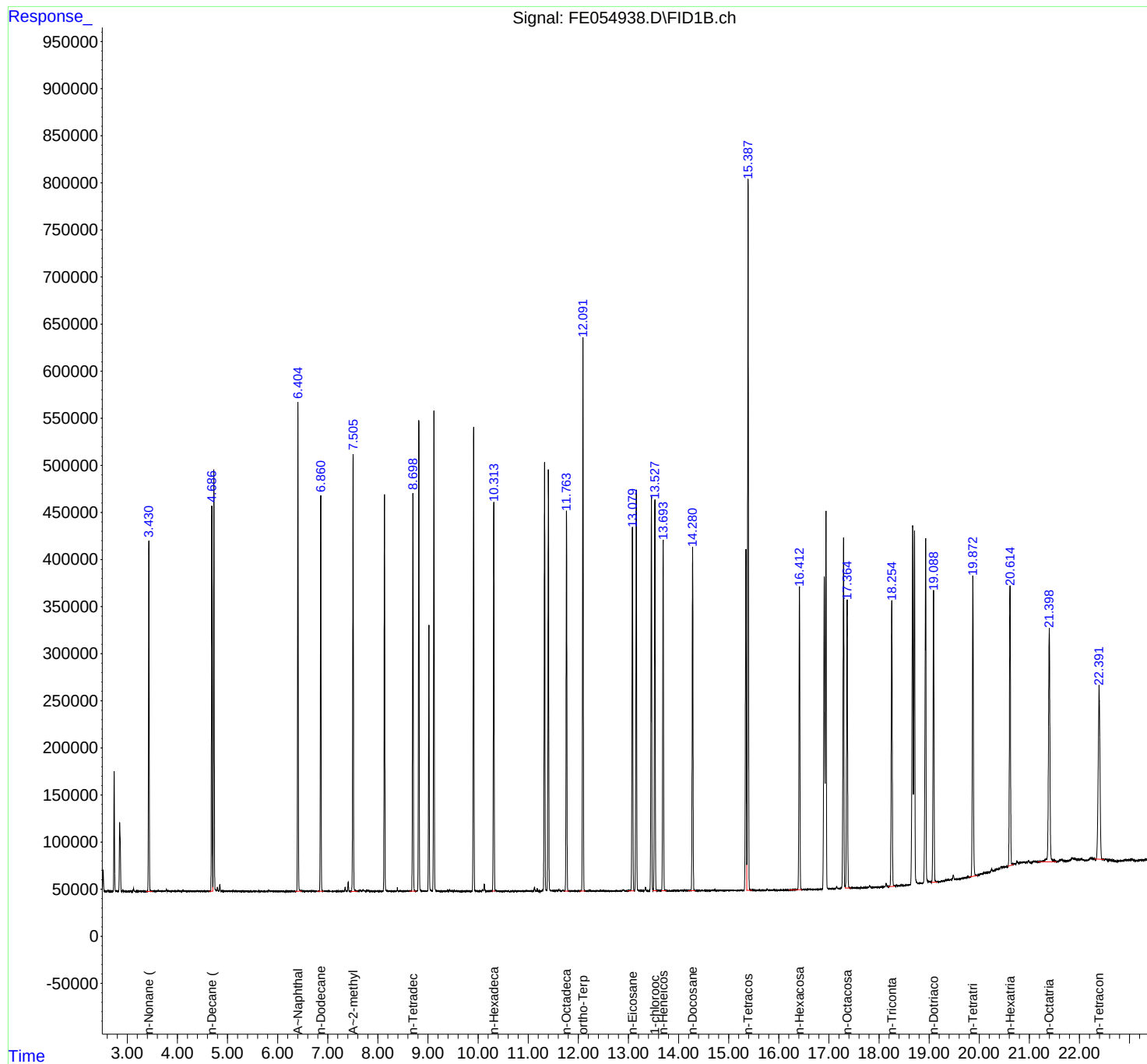
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054938.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 14:02
Operator : YP\AJ
Sample : PB168930BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB168930BS

Integration File: autoint1.e
Quant Time: Jul 22 01:28:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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\FE072125AL\
Data File : FE054938.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 14:02
Sample : PB168930BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	3.430	3.374	3.502	BB	372215	3635267	40.98%	2.071%
2	4.686	4.632	4.707	BV	409561	3899091	43.95%	2.221%
3	4.727	4.707	4.779	VV	447662	4363304	49.19%	2.485%
4	6.405	6.349	6.485	BB	519785	4824368	54.39%	2.748%
5	6.860	6.794	6.915	BB	420343	4182250	47.15%	2.382%
6	7.505	7.454	7.599	BB	464384	4565794	51.47%	2.601%
7	8.699	8.632	8.772	BB	422821	4349689	49.03%	2.478%
8	8.817	8.772	8.899	BB	501038	5012551	56.51%	2.855%
9	9.118	9.089	9.207	VB	510182	5021613	56.61%	2.860%
10	9.911	9.799	9.997	BB	491353	5033007	56.74%	2.867%
11	10.313	10.275	10.345	BV	414417	4482098	50.53%	2.553%
12	11.326	11.177	11.367	PV	454485	4833440	54.49%	2.753%
13	11.402	11.367	11.459	VV	447554	4791031	54.01%	2.729%
14	11.764	11.719	11.815	PB	400897	4488729	50.60%	2.557%
15	12.092	12.024	12.139	BB	588425	6123134	69.03%	3.488%
16	13.079	12.975	13.120	BV	384671	4595456	51.80%	2.618%
17	13.157	13.120	13.230	PBA	424968	4680262	52.76%	2.666%
18	13.458	13.387	13.490	BV	418405	4701830	53.00%	2.678%
19	13.527	13.490	13.577	VB	412843	4791142	54.01%	2.729%
20	13.693	13.652	13.757	VB	370292	4386639	49.45%	2.499%
21	14.281	14.185	14.334	BB	365631	4326869	48.78%	2.465%
22	15.344	15.182	15.363	BV	361664	4558629	51.39%	2.597%
23	15.387	15.363	15.474	VB	754627	8870705	100.00%	5.053%
24	16.412	16.202	16.469	BB	321924	4191427	47.25%	2.387%
25	16.909	16.837	16.924	BV	331133	4738730	53.42%	2.699%
26	16.942	16.924	17.005	VB	399535	4724606	53.26%	2.691%
27	17.293	17.250	17.327	BV	367587	4772312	53.80%	2.718%
28	17.364	17.327	17.440	VB	305420	4158153	46.88%	2.369%
29	18.254	18.177	18.317	PV	302574	4232466	47.71%	2.411%
30	18.671	18.495	18.687	BV	379460	5538025	62.43%	3.155%
31	18.707	18.687	18.790	VBA	375211	4982018	56.16%	2.838%
32	18.930	18.790	19.047	BV	366263	5186239	58.46%	2.954%
33	19.088	19.047	19.164	VB	310989	4265518	48.09%	2.430%
34	19.873	19.797	19.964	PV	315936	4507743	50.82%	2.568%
35	20.614	20.570	20.689	BB	296718	4411560	49.73%	2.513%
36	21.397	21.165	21.547	BV	247434	4903323	55.28%	2.793%

37 22.391 22.300 22.499 BBA 183430 4429320 49.93% 2.523%
Sum of corrected areas: 175558338

Aliphatic EPH 062725.M Tue Jul 22 01:54:52 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	PB168930BSD	SDG No.:	Q2651
Lab Sample ID:	PB168930BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/21/25 14:32	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	20.4		1	1.18	2.00	mg/kg	FE054939.D
Aliphatic C9-C28	Aliphatic C9-C28	57.7		1	0.91	3.99	mg/kg	FE054939.D
Total AliphaticEPH	Total AliphaticEPH	78.1			2.09	5.99	mg/kg	
Total EPH	Total EPH	78.1			2.09	5.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	PB168930BSD	SDG No.:	Q2651
Lab Sample ID:	PB168930BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054939.D	1	07/21/25	07/21/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	57.7		0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.4		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.1		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.8		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB168930BSD	Acq On:	21 Jul 2025 14:32
Client Sample ID:	PB168930BSD	Operator:	YP\AJ
Data file:	FE054939.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	3.330	6.963	21012799	154.443	300	ug/ml
Aliphatic C12-C16	6.964	10.415	28567244	203.227	200	ug/ml
Aliphatic C16-C21	10.416	13.793	32645342	226.086	300	ug/ml
Aliphatic C21-C28	13.794	17.463	40755539	281.749	400	ug/ml
Aliphatic C28-C40	17.464	22.490	42477096	306.368	600	ug/ml
Aliphatic EPH	3.330	22.490	165458020	1170		ug/ml
ortho-Terphenyl (SURR)	12.091	12.091	6137629	37.79		ug/ml
1-chlorooctadecane (SURR)	13.526	13.526	4807207	38.06		ug/ml
Aliphatic C9-C28	3.330	17.463	122980924	865.505	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054939.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 14:32
 Operator : YP\AJ
 Sample : PB168930BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB168930BSD

Integration File: autoint1.e
 Quant Time: Jul 22 01:28:48 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.091	6137629	37.795 ug/ml
Spiked Amount 50.000		Recovery =	75.59%
12) S 1-chlorooctadecane (S...	13.526	4807207	38.064 ug/ml
Spiked Amount 50.000		Recovery =	76.13%
Target Compounds			
1) T n-Nonane (C9)	3.430	3647615	27.118 ug/ml
2) T n-Decane (C10)	4.686	3921530	28.740 ug/ml
3) T A~Naphthalene (C11.7)	6.404	4849966	32.031 ug/ml
4) T n-Dodecane (C12)	6.860	4204577	30.644 ug/ml
5) T A~2-methylnaphthalene...	7.505	4592166	31.238 ug/ml
6) T n-Tetradecane (C14)	8.699	4373893	31.552 ug/ml
7) T n-Hexadecane (C16)	10.313	4494936	31.541 ug/ml
8) T n-Octadecane (C18)	11.763	4501406	30.715 ug/ml
10) T n-Eicosane (C20)	13.078	4601077	31.998 ug/ml
11) T n-Heneicosane (C21)	13.692	4399752	30.804 ug/ml
13) T n-Docosane (C22)	14.279	4343385	30.418 ug/ml
14) T n-Tetracosane (C24)	15.385	8966488	61.683 ug/ml
15) T n-Hexacosane (C26)	16.410	4221282	29.170 ug/ml
16) T n-Octacosane (C28)	17.360	4184082	28.710 ug/ml
17) T n-Tricontane (C30)	18.252	4255591	27.005 ug/ml
18) T n-Dotriacontane (C32)	19.085	4275181	26.425 ug/ml
19) T n-Tetratriacontane (C34)	19.871	4466372	29.309 ug/ml
20) T n-Hexatriacontane (C36)	20.612	4418858	32.865 ug/ml
21) T n-Octatriacontane (C38)	21.395	4726038	40.296 ug/ml
22) T n-Tetracontane (C40)	22.392	4450756	41.065 ug/ml

(f)=RT Delta > 1/2 Window

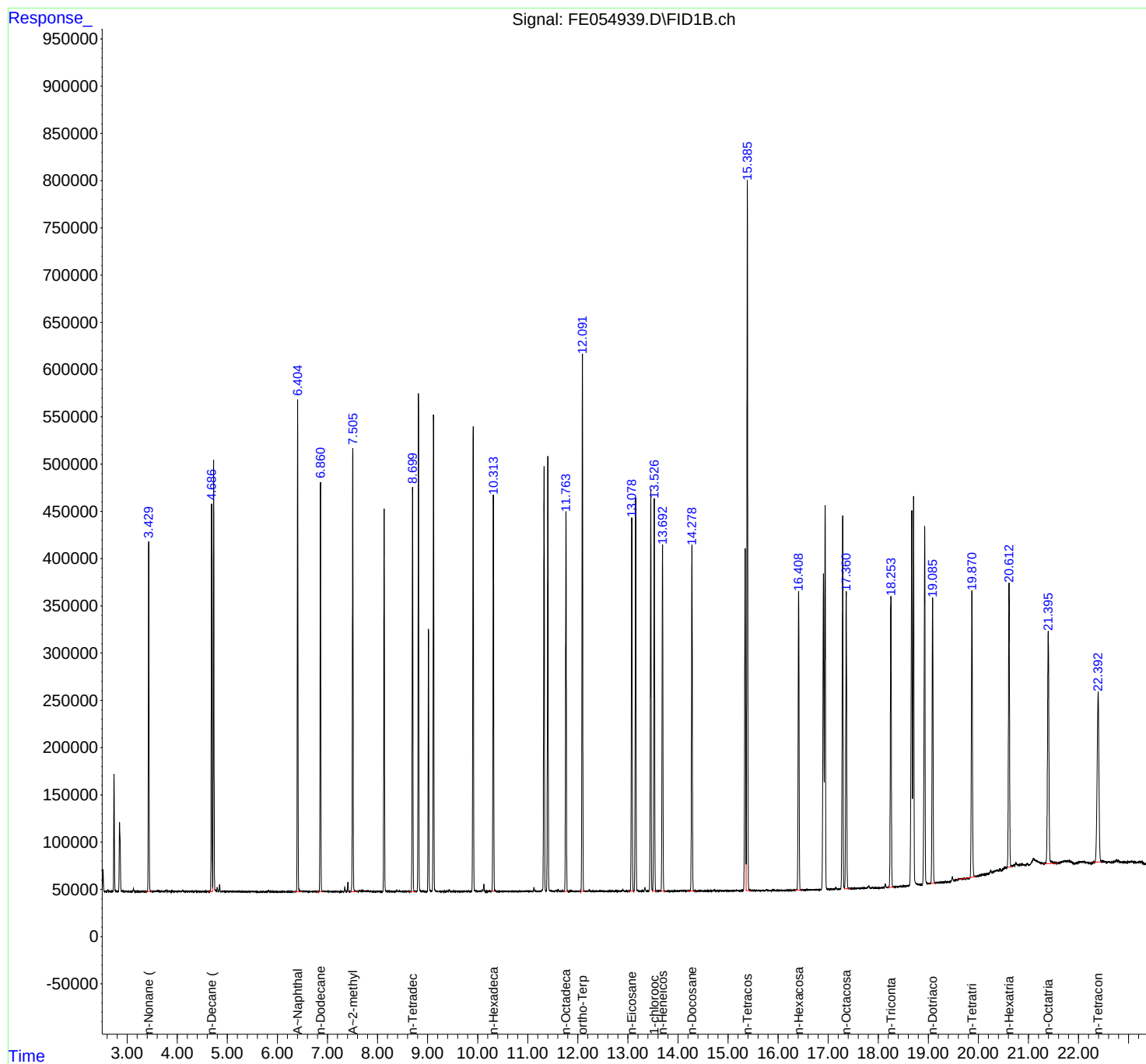
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054939.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 14:32
Operator : YP\AJ
Sample : PB168930BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB168930BSD

Integration File: autoint1.e
Quant Time: Jul 22 01:28:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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\FE072125AL\
 Data File : FE054939.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 14:32
 Sample : PB168930BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	3.430	3.369	3.492	BB	370712	3647615	40.68%	2.068%
2	4.686	4.620	4.706	BV	409949	3921530	43.74%	2.223%
3	4.727	4.706	4.780	VV	455281	4389111	48.95%	2.488%
4	6.404	6.337	6.495	BB	519854	4849966	54.09%	2.749%
5	6.860	6.792	6.914	BB	433591	4204577	46.89%	2.384%
6	7.505	7.454	7.609	BB	469527	4592166	51.21%	2.603%
7	8.699	8.630	8.769	BB	427802	4373893	48.78%	2.479%
8	8.816	8.779	8.899	BB	527455	5029337	56.09%	2.851%
9	9.118	9.082	9.199	VB	505343	5031048	56.11%	2.852%
10	9.910	9.792	9.987	BB	492878	5045864	56.27%	2.860%
11	10.313	10.270	10.344	BV	419763	4494936	50.13%	2.548%
12	11.326	11.215	11.369	BV	449129	4863424	54.24%	2.757%
13	11.401	11.369	11.457	VV	460724	4829564	53.86%	2.738%
14	11.763	11.722	11.812	VB	401876	4501406	50.20%	2.552%
15	12.091	12.024	12.144	BB	566213	6137629	68.45%	3.479%
16	13.078	13.020	13.119	BV	396026	4601077	51.31%	2.608%
17	13.156	13.119	13.230	PBA	417266	4715293	52.59%	2.673%
18	13.458	13.385	13.488	BV	423241	4734826	52.81%	2.684%
19	13.526	13.488	13.584	VB	416876	4807207	53.61%	2.725%
20	13.692	13.652	13.764	PB	366179	4399752	49.07%	2.494%
21	14.279	14.184	14.352	BB	364857	4343385	48.44%	2.462%
22	15.342	15.255	15.361	BV	362264	4637791	51.72%	2.629%
23	15.385	15.361	15.459	VB	749379	8966488	100.00%	5.083%
24	16.410	16.332	16.477	BB	315349	4221282	47.08%	2.393%
25	16.906	16.799	16.922	BV	333280	4811077	53.66%	2.727%
26	16.940	16.922	17.015	VB	406758	4769281	53.19%	2.704%
27	17.290	17.250	17.325	BV	390334	4822153	53.78%	2.734%
28	17.360	17.325	17.430	VB	315221	4184082	46.66%	2.372%
29	18.252	18.189	18.314	BB	303356	4255591	47.46%	2.412%
30	18.668	18.477	18.684	BV	397972	5603262	62.49%	3.176%
31	18.705	18.684	18.790	VBA	410316	5129946	57.21%	2.908%
32	18.928	18.842	18.999	BB	379116	5151092	57.45%	2.920%
33	19.085	19.037	19.149	BB	302024	4275181	47.68%	2.424%
34	19.871	19.580	19.942	BV	301656	4466372	49.81%	2.532%
35	20.612	20.570	20.655	BV	300447	4418858	49.28%	2.505%
36	21.395	21.306	21.578	VV	245389	4726038	52.71%	2.679%

37 22.392 22.301 22.451 BV rteres 178798 4450756 49.64% 2.523%
Sum of corrected areas: 176402855

Aliphatic EPH 062725.M Tue Jul 22 01:56:14 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	RT2286MS	SDG No.:	Q2651
Lab Sample ID:	Q2635-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/21/25 16:03	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	40.6		1	1.39	2.36	mg/kg	FE054942.D
Aliphatic C9-C28	Aliphatic C9-C28	97.7	E	1	1.07	4.71	mg/kg	FE054942.D
Total AliphaticEPH	Total AliphaticEPH	138			2.46	7.08	mg/kg	
Total EPH	Total EPH	138			2.46	7.08	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	RT2286MS	SDG No.:	Q2651
Lab Sample ID:	Q2635-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054942.D	1	07/21/25	07/21/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	97.7	E	1.07	4.71	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	40.6		1.39	2.36	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.1		40 - 140	58%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.0		40 - 140	56%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2635-01MS	Acq On:	21 Jul 2025 16:03
Client Sample ID:	Q2635-01MS	Operator:	YP\AJ
Data file:	FE054942.D	Misc:	
Instrument:	FID_E	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.330	6.963	19881309	146.127	300	ug/ml
Aliphatic C12-C16	6.964	10.415	33100247	235.475	200	ug/ml
Aliphatic C16-C21	10.416	13.793	67607910	468.219	300	ug/ml
Aliphatic C21-C28	13.794	17.463	56938977	393.628	400	ug/ml
Aliphatic C28-C40	17.464	22.490	71655580	516.818	600	ug/ml
Aliphatic EPH	3.330	22.490	249184023	1760		ug/ml
ortho-Terphenyl (SURR)	12.090	12.090	4543317	27.98		ug/ml
1-chlorooctadecane (SURR)	13.526	13.526	3673007	29.08		ug/ml
Aliphatic C9-C28	3.330	17.463	177528443	1240	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054942.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 16:03
 Operator : YP\AJ
 Sample : Q2635-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 RT2286MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 07/22/2025
 Supervised By :mohammad ahmed 07/23/2025

Integration File: autoint1.e
 Quant Time: Jul 22 01:29:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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	4543317	27.977 ug/ml
Spiked Amount 50.000		Recovery =	55.95%
12) S 1-chlorooctadecane (S...	13.526	3673007	29.083 ug/ml
Spiked Amount 50.000		Recovery =	58.17%
Target Compounds			
1) T n-Nonane (C9)	3.426	2962966	22.028 ug/ml
2) T n-Decane (C10)	4.684	3330235	24.406 ug/ml
3) T A~Naphthalene (C11.7)	6.403	4465161	29.490 ug/ml
4) T n-Dodecane (C12)	6.860	3807065	27.747 ug/ml
5) T A~2-methylnaphthalene...	7.505	4255704	28.950 ug/ml
6) T n-Tetradecane (C14)	8.698	4195711	30.266 ug/ml
7) T n-Hexadecane (C16)	10.314	4577292	32.119 ug/ml
8) T n-Octadecane (C18)	11.763	4718348	32.195 ug/ml
10) T n-Eicosane (C20)	13.079	4699087	32.679 ug/ml
11) T n-Heneicosane (C21)	13.693	4466748	31.273 ug/ml
13) T n-Docosane (C22)	14.281	4408915	30.877 ug/ml
14) T n-Tetracosane (C24)	15.388	9453687	65.034 ug/ml
15) T n-Hexacosane (C26)	16.412	4298192	29.701 ug/ml
16) T n-Octacosane (C28)	17.364	4440974	30.472 ug/ml
17) T n-Tricontane (C30)	18.254	4406483	27.963 ug/ml
18) T n-Dotriacontane (C32)	19.087	4342468	26.841 ug/mlm
19) T n-Tetratriacontane (C34)	19.872	4429187	29.065 ug/ml
20) T n-Hexatriacontane (C36)	20.614	4166252	30.986 ug/ml
21) T n-Octatriacontane (C38)	21.396	4293267	36.606 ug/ml
22) T n-Tetracontane (C40)	22.392	4229729	39.025 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054942.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 16:03
Operator : YP\AJ
Sample : Q2635-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

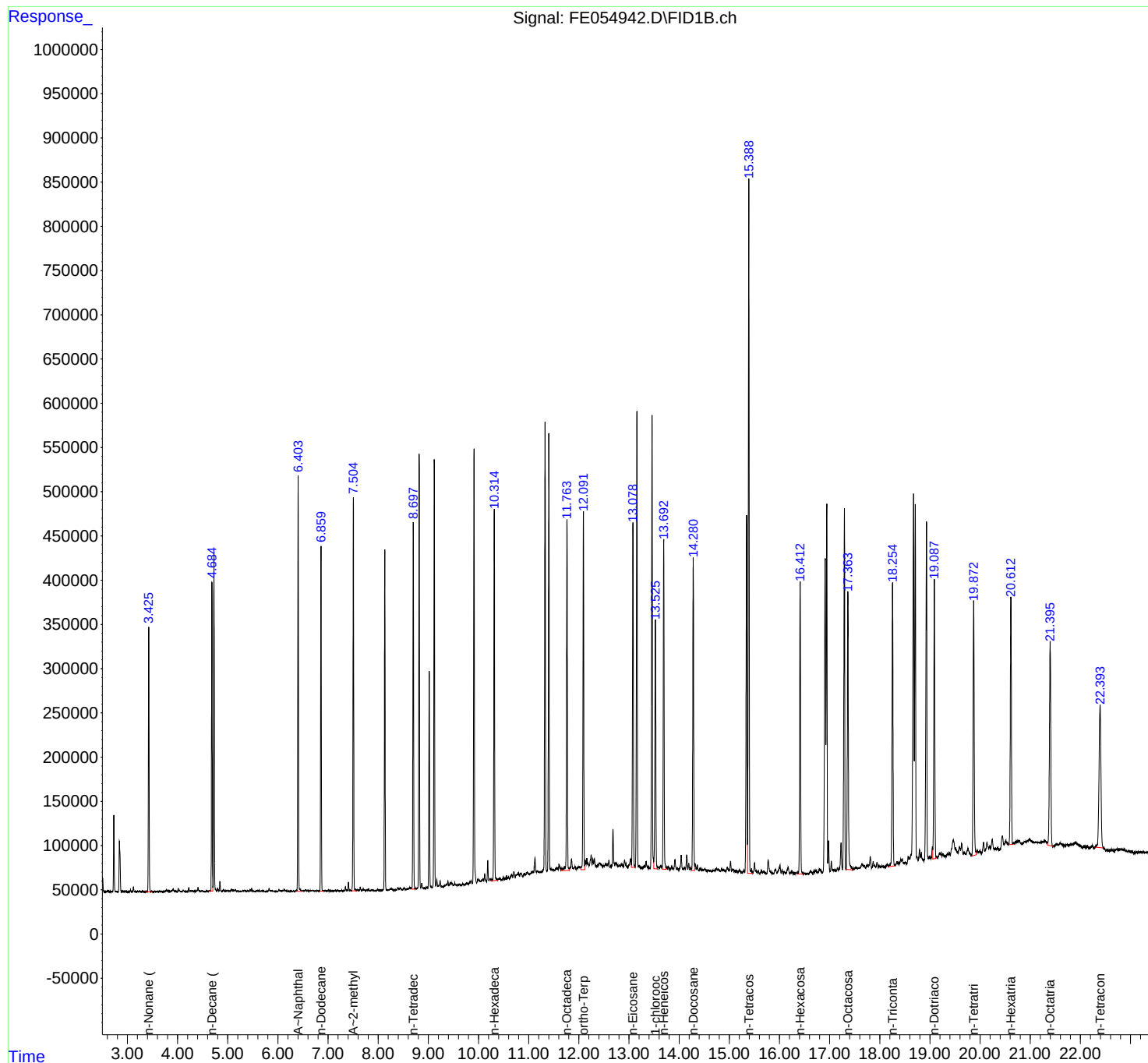
Instrument :
FID_E
ClientSampleId :
RT2286MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/22/2025
Supervised By :mohammad ahmed 07/23/2025

Integration File: autoint1.e
Quant Time: Jul 22 01:29:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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_E

ClientSampleId :

RT2286MS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE07212
Data File : FE054942.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 16:03
Sample : Q2635-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	2.841	2.804	2.884	BV	56055	828891	8.59%	0.319%
2	2.902	2.884	2.945	VV	900	17112	0.18%	0.007%
3	2.966	2.945	2.998	VV	751	13970	0.14%	0.005%
4	3.006	2.998	3.021	VV	253	2088	0.02%	0.001%
5	3.061	3.021	3.086	PV	2181	29958	0.31%	0.012%
6	3.119	3.086	3.148	VV	5667	60812	0.63%	0.023%
7	3.164	3.148	3.181	VV	553	6998	0.07%	0.003%
8	3.209	3.181	3.225	VV	594	10067	0.10%	0.004%
9	3.248	3.225	3.263	VV	715	10914	0.11%	0.004%
10	3.272	3.263	3.280	VV	455	4029	0.04%	0.002%
11	3.293	3.280	3.375	VV	562	12704	0.13%	0.005%
12	3.426	3.375	3.474	VV	298223	2964510	30.74%	1.142%
13	3.484	3.474	3.521	VV	327	4599	0.05%	0.002%
14	3.544	3.521	3.559	PV	1101	12187	0.13%	0.005%
15	3.573	3.559	3.590	VV	655	8614	0.09%	0.003%
16	3.608	3.590	3.623	VV	721	9469	0.10%	0.004%
17	3.640	3.623	3.654	VV	794	9363	0.10%	0.004%
18	3.669	3.654	3.701	VV	631	10862	0.11%	0.004%
19	3.713	3.701	3.726	VV	301	3164	0.03%	0.001%
20	3.771	3.726	3.844	VV	1872	60223	0.62%	0.023%
21	3.875	3.844	3.884	VV	1446	17745	0.18%	0.007%
22	3.914	3.884	3.934	VV	3595	56262	0.58%	0.022%
23	3.957	3.934	3.993	VV	787	15830	0.16%	0.006%
24	4.014	3.993	4.028	VV	3794	38816	0.40%	0.015%
25	4.038	4.028	4.057	VV	1990	19208	0.20%	0.007%
26	4.070	4.057	4.086	VV	513	5015	0.05%	0.002%
27	4.112	4.086	4.178	VV	2011	41224	0.43%	0.016%
28	4.224	4.178	4.244	VV	4976	60542	0.63%	0.023%
29	4.263	4.244	4.281	VV	1459	19953	0.21%	0.008%
30	4.293	4.281	4.311	VV	846	12271	0.13%	0.005%
31	4.333	4.311	4.356	VV	1186	18345	0.19%	0.007%
32	4.381	4.356	4.390	VV	1495	17482	0.18%	0.007%
33	4.408	4.390	4.441	VV	4993	65938	0.68%	0.025%
34	4.452	4.441	4.468	VV	789	10836	0.11%	0.004%
35	4.481	4.468	4.504	VV	792	14044	0.15%	0.005%
36	4.515	4.504	4.554	VV	576	8610	0.09%	0.003%

					Area	Height	Area%	Height%
37	4.584	4.554	4.606	VV	992	17167	0.18%	0.007%
38	4.627	4.606	4.653	VV	1133	18513	0.18%	0.007%
39	4.684	4.653	4.705	VV	351597	3354103	34.66%	1.722%
40	4.725	4.705	4.778	VV	381412	3692088	38.14%	1.722%
41	4.797	4.778	4.823	VV	4065	52716	0.46%	0.017%
42	4.844	4.823	4.888	VV	11283	127638	0.15%	0.005%
43	4.914	4.888	4.953	VV	2590	44767	0.30%	0.011%
44	4.968	4.953	4.984	VV	1278	14161	0.45%	0.017%
45	5.004	4.984	5.041	VV	1561	29030	0.27%	0.010%
46	5.075	5.041	5.091	VV	3086	43158	0.42%	0.016%
47	5.108	5.091	5.125	VV	1922	26038	0.18%	0.007%
48	5.148	5.125	5.178	VV	2400	40798	0.02%	0.001%
49	5.200	5.178	5.228	VV	947	17745	0.08%	0.003%
50	5.238	5.228	5.246	VV	229	2398	0.16%	0.006%
51	5.267	5.246	5.279	VV	571	7353	0.31%	0.011%
52	5.301	5.279	5.315	VV	916	15030	0.21%	0.008%
53	5.331	5.315	5.375	VV	1710	29852	0.30%	0.011%
54	5.393	5.375	5.421	VV	1430	20368	0.49%	0.018%
55	5.447	5.421	5.460	VV	2451	28875	0.06%	0.002%
56	5.475	5.460	5.521	VV	3836	47158	0.13%	0.005%
57	5.530	5.521	5.548	VV	584	5553	0.11%	0.004%
58	5.576	5.548	5.588	VV	865	12207	0.18%	0.007%
59	5.602	5.588	5.613	VV	859	10671	0.28%	0.010%
60	5.627	5.613	5.653	VV	1281	17036	0.03%	0.001%
61	5.701	5.653	5.738	VV	1195	27064	0.04%	0.002%
62	5.748	5.738	5.758	VV	320	3281	0.42%	0.016%
63	5.764	5.758	5.788	VV	359	3968	0.13%	0.005%
64	5.823	5.788	5.841	VV	3747	40443	0.15%	0.006%
65	5.856	5.841	5.871	VV	849	12940	0.07%	0.003%
66	5.881	5.871	5.928	VV	661	14594	0.15%	0.006%
67	5.936	5.928	5.968	VV	385	6518	0.07%	0.003%
68	6.020	5.968	6.040	VV	2641	34196	0.35%	0.013%
69	6.052	6.040	6.065	VV	985	10290	0.11%	0.004%
70	6.095	6.065	6.108	VV	746	14928	0.15%	0.006%
71	6.122	6.108	6.165	VV	2738	47104	0.49%	0.018%
72	6.181	6.165	6.207	VV	758	12279	0.13%	0.005%
73	6.218	6.207	6.231	VV	361	3752	0.04%	0.001%
74	6.260	6.231	6.287	VV	676	12008	0.12%	0.005%
75	6.311	6.287	6.328	PV	537	7233	0.07%	0.003%
76	6.365	6.328	6.375	VV	954	14784	0.15%	0.006%
77	6.404	6.375	6.471	VV	468244	4471990	46.36%	1.722%
78	6.503	6.471	6.524	VV	984	21573	0.22%	0.008%
79	6.558	6.524	6.579	VV	1508	31425	0.33%	0.012%
80	6.595	6.579	6.618	VV	880	14819	0.15%	0.006%
81	6.633	6.618	6.646	VV	624	7337	0.08%	0.003%
82	6.675	6.646	6.683	VV	916	14172	0.15%	0.005%
83	6.695	6.683	6.724	VV	1185	17299	0.18%	0.007%
84	6.743	6.724	6.761	VV	701	9842	0.10%	0.004%
85	6.780	6.761	6.799	VV	732	11082	0.11%	0.004%
86	6.811	6.799	6.828	VV	513	5970	0.06%	0.002%
87	6.860	6.828	6.909	VV	388067	3815683	39.56%	1.470%
88	6.935	6.909	6.965	VV	751	15200	0.16%	0.006%
89	6.977	6.965	6.998	VV	528	7618	0.08%	0.003%

Instrument :

FID_E

ClientSampleId :

RT2286MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

90	7.013	6.998	7.034	VV	1402	16428	0.17%	0.006%
91	7.062	7.034	7.104	VV	792	13003		
92	7.148	7.104	7.171	VV	950	13476		
93	7.190	7.171	7.220	VV	1077	13812		
94	7.271	7.220	7.298	PV	1000	17224		
95	7.346	7.298	7.383	VV	4871	62620		
96	7.407	7.383	7.428	VV	9782	100149	1.04%	0.039%
97	7.439	7.428	7.465	VV	1121	14734	0.15%	0.006%
98	7.505	7.465	7.565	VV	442068	4265142	44.22%	1.643%
99	7.583	7.565	7.624	VV	1371	27898	0.29%	0.011%
100	7.643	7.624	7.670	VV	4597	52301	0.54%	0.020%
101	7.700	7.670	7.718	VV	2013	33116	0.34%	0.013%
102	7.726	7.718	7.751	VV	1005	12137	0.13%	0.005%
103	7.778	7.751	7.791	VV	1103	14475	0.15%	0.006%
104	7.810	7.791	7.841	VV	2212	28059	0.29%	0.011%
105	7.865	7.841	7.886	VV	834	15372	0.16%	0.006%
106	7.902	7.886	7.922	VV	658	9917	0.10%	0.004%
107	7.945	7.922	7.960	VV	411	6186	0.06%	0.002%
108	7.991	7.960	8.020	VV	1457	26230	0.27%	0.010%
109	8.034	8.020	8.061	VV	507	8552	0.09%	0.003%
110	8.246	8.189	8.292	VV	2246	66176	0.69%	0.025%
111	8.301	8.292	8.325	VV	646	7209	0.07%	0.003%
112	8.343	8.325	8.359	PV	316	3691	0.04%	0.001%
113	8.392	8.359	8.417	VV	2477	43169	0.45%	0.017%
114	8.439	8.417	8.486	VV	2344	45092	0.47%	0.017%
115	8.515	8.486	8.536	VV	2174	37252	0.39%	0.014%
116	8.545	8.536	8.560	VV	585	7510	0.08%	0.003%
117	8.584	8.560	8.606	VV	1123	23203	0.24%	0.009%
118	8.627	8.606	8.641	VV	2810	33875	0.35%	0.013%
119	8.655	8.641	8.667	VV	1932	23447	0.24%	0.009%
120	8.698	8.667	8.735	VV	414718	4214003	43.69%	1.623%
121	8.757	8.735	8.769	VV	1319	21475	0.22%	0.008%
122	8.816	8.769	8.847	VV	491014	4827643	50.05%	1.859%
123	8.867	8.847	8.915	VV	6862	115746	1.20%	0.045%
124	8.925	8.915	8.940	VV	1430	16654	0.17%	0.006%
125	8.970	8.940	8.986	VV	1919	40878	0.42%	0.016%
126	9.060	9.048	9.078	VV	2313	34390	0.36%	0.013%
127	9.117	9.078	9.147	VV	485531	4984148	51.67%	1.920%
128	9.167	9.147	9.191	VV	10146	144373	1.50%	0.056%
129	9.208	9.191	9.216	VV	3709	48591	0.50%	0.019%
130	9.234	9.216	9.264	VV	8502	132387	1.37%	0.051%
131	9.275	9.264	9.294	VV	2242	36136	0.37%	0.014%
132	9.359	9.294	9.372	VV	4338	144759	1.50%	0.056%
133	9.389	9.372	9.409	VV	8225	117017	1.21%	0.045%
134	9.432	9.409	9.442	VV	5606	93072	0.96%	0.036%
135	9.456	9.442	9.492	VV	6166	142587	1.48%	0.055%
136	9.527	9.492	9.544	VV	5217	116716	1.21%	0.045%
137	9.571	9.544	9.590	VV	3983	92503	0.96%	0.036%
138	9.613	9.590	9.646	VV	4026	116341	1.21%	0.045%
139	9.687	9.646	9.704	VV	4275	117084	1.21%	0.045%
140	9.717	9.704	9.727	VV	3655	45929	0.48%	0.018%
141	9.749	9.727	9.759	VV	4682	77446	0.80%	0.030%

Instrument :

FID_E

ClientSampleId :

RT2286MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

				rters				
142	9.769	9.759	9.799	VV	4440	102211	1.06%	0.039%
143	9.853	9.799	9.876	VV	7073	260394		
144	9.910	9.876	9.963	VV	496848	5417337	56.22%	1.951%
145	9.988	9.963	10.001	VV	8836	160429	3.35%	0.125%
146	10.012	10.001	10.036	VV	7620	147479	4.30%	0.160%
147	10.064	10.036	10.075	VV	8238	166826		
148	10.089	10.075	10.104	VV	8784	135814	1.41%	0.052%
149	10.123	10.104	10.159	VV	14252	288322	2.99%	0.111%
150	10.184	10.159	10.209	VV	29527	414318	4.30%	0.160%
151	10.229	10.209	10.254	VV	9190	212231	2.20%	0.082%
152	10.314	10.254	10.382	VV	428637	5065935	52.52%	1.951%
153	10.419	10.382	10.464	VV	8498	385965	4.00%	0.149%
154	10.492	10.464	10.530	VV	9199	323297	3.35%	0.125%
155	10.594	10.530	10.612	VV	9655	422621	4.38%	0.163%
156	10.661	10.612	10.681	VV	13206	426375	4.42%	0.164%
157	10.706	10.681	10.730	VV	15839	368545	3.82%	0.142%
158	10.796	10.730	10.820	VV	14380	647307	6.71%	0.249%
159	10.838	10.820	10.884	VV	12972	455798	4.73%	0.176%
160	10.912	10.884	10.939	VV	13133	389847	4.04%	0.150%
161	10.970	10.939	11.021	VV	14444	630024	6.53%	0.243%
162	11.057	11.021	11.069	VV	14700	381005	3.95%	0.147%
163	11.085	11.069	11.098	VV	15661	258322	2.68%	0.099%
164	11.125	11.098	11.155	VV	30185	693258	7.19%	0.267%
165	11.171	11.155	11.191	VV	15223	321892	3.34%	0.124%
166	11.197	11.191	11.211	VV	14505	168588	1.75%	0.065%
167	11.224	11.211	11.242	VV	14324	263493	2.73%	0.101%
168	11.326	11.242	11.361	VV	527129	6550907	67.92%	2.523%
169	11.401	11.361	11.465	VV	503804	5960284	61.79%	2.296%
170	11.484	11.465	11.518	VV	16793	505315	5.24%	0.195%
171	11.543	11.518	11.558	VV	17672	402806	4.18%	0.155%
172	11.571	11.558	11.583	VV	17606	252349	2.62%	0.097%
173	11.608	11.583	11.658	VV	21999	818590	8.49%	0.315%
174	11.763	11.658	11.809	VV	411109	6065295	62.88%	2.336%
175	11.853	11.809	11.901	VV	27186	1057944	10.97%	0.407%
176	11.921	11.901	11.942	VV	19431	435979	4.52%	0.168%
177	11.975	11.942	11.993	VV	17745	526319	5.46%	0.203%
178	12.008	11.993	12.038	VV	18497	480692	4.98%	0.185%
179	12.090	12.038	12.116	VV	421204	5245107	54.38%	2.020%
180	12.130	12.116	12.144	VV	25171	377784	3.92%	0.146%
181	12.159	12.144	12.176	VV	27559	459585	4.76%	0.177%
182	12.184	12.176	12.205	VV	22508	363820	3.77%	0.140%
183	12.245	12.205	12.264	VV	31091	866588	8.98%	0.334%
184	12.279	12.264	12.294	VV	26597	428581	4.44%	0.165%
185	12.310	12.294	12.334	VV	26736	541449	5.61%	0.209%
186	12.347	12.334	12.364	VV	18725	326790	3.39%	0.126%
187	12.414	12.364	12.477	VV	21491	1329580	13.78%	0.512%
188	12.490	12.477	12.499	VV	18187	237609	2.46%	0.092%
189	12.533	12.499	12.564	VV	20236	750714	7.78%	0.289%
190	12.599	12.564	12.621	VV	24426	695449	7.21%	0.268%
191	12.681	12.621	12.718	VV	59490	1499146	15.54%	0.577%
192	12.733	12.718	12.789	VV	20788	824202	8.55%	0.317%
193	12.814	12.789	12.828	VV	18104	407049	4.22%	0.157%
194	12.849	12.828	12.861	VV	19428	368140	3.82%	0.142%

Instrument :

FID_E

ClientSampleId :

RT2286MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

					rters			
195	12.872	12.861	12.890	VV	18830	307000	3.18%	0.118%
196	12.912	12.890	12.970	VV	23484	910268		
197	13.031	12.970	13.048	VV	24118	910185		
198	13.079	13.048	13.120	VV	405323	5365068	58.10%	0.118%
199	13.158	13.120	13.208	VV	528834	6639420	68.10%	0.118%
200	13.214	13.208	13.241	VV	16521	304362	3.18%	0.118%
201	13.250	13.241	13.265	VV	14881	213970	2.22%	0.082%
202	13.306	13.265	13.323	VV	16114	526157	5.46%	0.203%
203	13.341	13.323	13.424	VV	21051	951284	9.86%	0.366%
204	13.460	13.424	13.493	VV	529633	6346178	65.80%	2.444%
205	13.526	13.493	13.564	VV	295019	4216418	43.71%	1.624%
206	13.574	13.564	13.608	VV	14631	356119	3.69%	0.137%
207	13.628	13.608	13.646	VV	15601	335198	3.48%	0.129%
208	13.655	13.646	13.660	VV	14777	121040	1.25%	0.047%
209	13.693	13.660	13.738	VV	383843	5025205	52.10%	1.935%
210	13.754	13.738	13.768	VV	14249	243062	2.52%	0.094%
211	13.785	13.768	13.816	VV	14847	384091	3.98%	0.148%
212	13.849	13.816	13.890	VV	14508	562176	5.83%	0.217%
213	13.917	13.890	13.985	VV	22199	801323	8.31%	0.309%
214	14.041	13.985	14.080	VV	27084	850628	8.82%	0.328%
215	14.115	14.080	14.125	VV	12409	317568	3.29%	0.122%
216	14.151	14.125	14.173	VV	26856	500447	5.19%	0.193%
217	14.191	14.173	14.214	VV	17477	329839	3.42%	0.127%
218	14.232	14.214	14.248	VV	12382	232355	2.41%	0.089%
219	14.281	14.248	14.311	VV	361805	4761670	49.37%	1.834%
220	14.322	14.311	14.342	VV	16004	256775	2.66%	0.099%
221	14.362	14.342	14.391	VV	15294	336010	3.48%	0.129%
222	14.412	14.391	14.453	VV	10539	363101	3.76%	0.140%
223	14.466	14.453	14.491	VV	9567	210291	2.18%	0.081%
224	14.513	14.491	14.551	VV	10736	337938	3.50%	0.130%
225	14.574	14.551	14.649	VV	9242	482615	5.00%	0.186%
226	14.675	14.649	14.704	VV	8778	267000	2.77%	0.103%
227	14.747	14.704	14.765	VV	10819	335646	3.48%	0.129%
228	14.779	14.765	14.821	VV	9740	282361	2.93%	0.109%
229	14.845	14.821	14.871	VV	9870	249420	2.59%	0.096%
230	14.883	14.871	14.934	VV	8815	291708	3.02%	0.112%
231	14.961	14.934	15.001	VV	11398	359336	3.73%	0.138%
232	15.024	15.001	15.047	VV	17835	325671	3.38%	0.125%
233	15.069	15.047	15.134	VV	8672	376418	3.90%	0.145%
234	15.145	15.134	15.173	VV	6832	140135	1.45%	0.054%
235	15.207	15.173	15.261	VV	7514	311668	3.23%	0.120%
236	15.291	15.261	15.307	VV	7242	156716	1.62%	0.060%
237	15.344	15.307	15.363	VV	404912	5267336	54.61%	2.029%
238	15.388	15.363	15.456	VV	784996	9645354	100.00%	3.715%
239	15.502	15.456	15.521	VV	15017	299153	3.10%	0.115%
240	15.533	15.521	15.555	VV	6462	109120	1.13%	0.042%
241	15.574	15.555	15.610	VV	6122	140057	1.45%	0.054%
242	15.640	15.610	15.662	VV	6143	141095	1.46%	0.054%
243	15.681	15.662	15.746	VV	5262	194668	2.02%	0.075%
244	15.774	15.746	15.881	VV	17433	498862	5.17%	0.192%
245	15.924	15.881	15.948	VV	6508	184057	1.91%	0.071%
246	16.010	15.948	16.033	VV	11473	305530	3.17%	0.118%

Instrument :

FID_E

ClientSampleId :

RT2286MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

rteres									
247	16.050	16.033	16.079	VV	5834	102920	1.07%	0.040%	
248	16.097	16.079	16.120	VV	3837	67372			
249	16.173	16.120	16.214	VV	8278	233734			
250	16.250	16.214	16.275	VV	4028	88703			
251	16.293	16.275	16.311	VV	1623	29416			
252	16.333	16.311	16.354	VV	2620	44491			
253	16.412	16.354	16.495	VV	329707	4327346	44.86%	1.667%	
254	16.509	16.495	16.527	VV	922	11480	0.12%	0.004%	
255	16.538	16.527	16.551	VV	833	6088	0.06%	0.002%	
256	16.619	16.551	16.668	PV	3438	82932	0.86%	0.032%	
257	16.689	16.668	16.703	VV	2714	38451	0.40%	0.015%	
258	16.719	16.703	16.752	VV	3506	65036	0.67%	0.025%	
259	16.762	16.752	16.768	VV	1274	10060	0.10%	0.004%	
260	16.801	16.768	16.852	VV	4854	133381	1.38%	0.051%	
261	16.911	16.852	16.927	VV	355959	5454599	56.55%	2.101%	
262	16.943	16.927	16.964	VV	417983	4871370	50.50%	1.876%	
263	16.978	16.964	17.011	VV	35835	447876	4.64%	0.172%	
264	17.034	17.011	17.057	VV	12048	151491	1.57%	0.058%	
265	17.071	17.057	17.084	VV	2814	38171	0.40%	0.015%	
266	17.096	17.084	17.111	VV	2297	27963	0.29%	0.011%	
267	17.125	17.111	17.138	VV	2064	22746	0.24%	0.009%	
268	17.155	17.138	17.173	VV	4635	62677	0.65%	0.024%	
269	17.228	17.173	17.254	VV	32215	529924	5.49%	0.204%	
270	17.295	17.254	17.328	VV	404589	5319100	55.15%	2.049%	
271	17.364	17.328	17.461	VV	316703	4547603	47.15%	1.751%	
272	17.521	17.461	17.559	VV	3451	132666	1.38%	0.051%	
273	17.591	17.559	17.604	VV	2692	59734	0.62%	0.023%	
274	17.645	17.604	17.676	VV	6491	192798	2.00%	0.074%	
275	17.691	17.676	17.720	VV	4496	90290	0.94%	0.035%	
276	17.743	17.720	17.761	VV	5120	92778	0.96%	0.036%	
277	17.811	17.761	17.838	VV	14075	293235	3.04%	0.113%	
278	17.869	17.838	17.888	VV	8154	134586	1.40%	0.052%	
279	17.898	17.888	17.918	VV	3726	50293	0.52%	0.019%	
280	17.944	17.918	17.967	VV	6970	115370	1.20%	0.044%	
281	17.982	17.967	18.020	VV	2412	61265	0.64%	0.024%	
282	18.040	18.020	18.088	VV	2437	70364	0.73%	0.027%	
283	18.095	18.088	18.102	VV	1512	11194	0.12%	0.004%	
284	18.144	18.102	18.174	VV	4353	107778	1.12%	0.042%	
285	18.254	18.174	18.299	VV	322305	4503392	46.69%	1.734%	
286	18.343	18.299	18.368	VV	6243	157957	1.64%	0.061%	
287	18.378	18.368	18.398	VV	4941	75225	0.78%	0.029%	
288	18.420	18.398	18.433	VV	8752	141274	1.46%	0.054%	
289	18.447	18.433	18.487	VV	8018	188466	1.95%	0.073%	
290	18.510	18.487	18.538	VV	4561	113449	1.18%	0.044%	
291	18.567	18.538	18.581	VV	10795	191860	1.99%	0.074%	
292	18.672	18.581	18.688	VV	415748	6742935	69.91%	2.597%	
293	18.707	18.688	18.764	VV	409053	5362202	55.59%	2.065%	
294	18.792	18.764	18.810	VV	17607	317867	3.30%	0.122%	
295	18.825	18.810	18.881	VV	12170	337352	3.50%	0.130%	
296	18.931	18.881	18.980	VV	386902	5801401	60.15%	2.234%	
297	18.995	18.980	19.014	VV	9278	161737	1.68%	0.062%	
298	19.087	19.014	19.158	VV	321355	5063452	52.50%	1.950%	
299	19.187	19.158	19.198	VV	11954	231938	2.40%	0.089%	

Instrument :

FID_E

ClientSampleId :

RT2286MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

Instrument :

FID_E

ClientSampleId :

RT2286MS

2.92% 0.109%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 07/22/2025

Supervised By :mohammad ahmed 07/23/2025

					rt	Area	Area%	Height
300	19.218	19.198	19.241	VV	11463	281960	2.92%	0.109%
301	19.258	19.241	19.308	VV	10987	361346		
302	19.318	19.308	19.324	VV	8301	75002		
303	19.346	19.324	19.368	VV	11005	253397		
304	19.387	19.368	19.406	VV	11626	239991		
305	19.464	19.406	19.500	VV	25205	1059558		
306	19.512	19.500	19.561	VV	16190	482019	5.00%	0.186%
307	19.589	19.561	19.610	VV	16691	418632	4.34%	0.161%
308	19.633	19.610	19.659	VV	20881	458526	4.75%	0.177%
309	19.674	19.659	19.720	VV	10247	351586	3.65%	0.135%
310	19.759	19.720	19.828	VV	14567	660733	6.85%	0.254%
311	19.872	19.828	19.928	VV	292295	4808285	49.85%	1.852%
312	19.944	19.928	19.974	VV	12447	294292	3.05%	0.113%
313	19.994	19.974	20.025	VV	10831	295043	3.06%	0.114%
314	20.069	20.025	20.093	VV	20180	526010	5.45%	0.203%
315	20.136	20.093	20.168	VV	19365	660637	6.85%	0.254%
316	20.190	20.168	20.210	VV	15231	360846	3.74%	0.139%
317	20.242	20.210	20.297	VV	22805	807845	8.38%	0.311%
318	20.351	20.297	20.375	VV	12601	551332	5.72%	0.212%
319	20.445	20.375	20.478	VV	25735	1031783	10.70%	0.397%
320	20.513	20.478	20.565	VV	20301	921957	9.56%	0.355%
321	20.614	20.565	20.654	VV	295342	4993602	51.77%	1.923%
322	20.711	20.654	20.723	VV	18493	700951	7.27%	0.270%
323	20.755	20.723	20.763	VV	18752	439056	4.55%	0.169%
324	20.783	20.763	20.824	VV	19231	631970	6.55%	0.243%
325	20.838	20.824	20.858	VV	16311	316901	3.29%	0.122%
326	20.882	20.858	20.898	VV	17670	405706	4.21%	0.156%
327	20.985	20.898	21.035	VV	20317	1492714	15.48%	0.575%
328	21.045	21.035	21.074	VV	17018	387781	4.02%	0.149%
329	21.111	21.074	21.148	VV	16059	690231	7.16%	0.266%
330	21.160	21.148	21.191	VV	15688	393285	4.08%	0.151%
331	21.245	21.191	21.254	VV	16165	586561	6.08%	0.226%
332	21.295	21.254	21.344	VV	16306	838735	8.70%	0.323%
333	21.396	21.344	21.462	VV	239866	5034090	52.19%	1.939%
334	21.533	21.462	21.559	VV	11555	628023	6.51%	0.242%
335	21.602	21.559	21.665	VV	12621	708561	7.35%	0.273%
336	21.674	21.665	21.695	VV	9729	169055	1.75%	0.065%
337	21.731	21.695	21.768	VV	10607	428927	4.45%	0.165%
338	21.814	21.768	21.830	VV	10291	365948	3.79%	0.141%
339	21.857	21.830	21.876	VV	11071	284877	2.95%	0.110%
340	21.905	21.876	22.054	VV	12282	952350	9.87%	0.367%
341	22.087	22.054	22.100	VV	6583	172708	1.79%	0.067%
342	22.130	22.100	22.181	VV	6495	271529	2.82%	0.105%
343	22.234	22.181	22.278	VV	6884	307280	3.19%	0.118%
344	22.392	22.278	22.455	VV	165498	4676352	48.48%	1.801%
345	22.464	22.455	22.531	VV	3723	74749	0.77%	0.029%

Sum of corrected areas: 259643078

Aliphatic EPH 062725.M Tue Jul 22 02:01:06 2025

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	RT2286MSD	SDG No.:	Q2651
Lab Sample ID:	Q2635-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/21/25 09:00	07/21/25 16:33	PB168930

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	40.6		1	1.39	2.36	mg/kg FE054943.D
Aliphatic C9-C28	Aliphatic C9-C28	94.2		1	1.07	4.71	mg/kg FE054943.D
Total AliphaticEPH	Total AliphaticEPH	135			2.46	7.08	mg/kg
Total EPH	Total EPH	135			2.46	7.08	mg/kg

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	
Project:	Leon Avenue	Date Received:	
Client Sample ID:	RT2286MSD	SDG No.:	Q2651
Lab Sample ID:	Q2635-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.8
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054943.D	1	07/21/25	07/21/25	PB168930

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	94.2		1.07	4.71	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	40.6		1.39	2.36	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.9		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.9		40 - 140	54%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2635-01MSD	Acq On:	21 Jul 2025 16:33
Client Sample ID:	Q2635-01MSD	Operator:	YP\AJ
Data file:	FE054943.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.330	6.963	19232045	141.355	300	ug/ml
Aliphatic C12-C16	6.964	10.415	31961569	227.374	200	ug/ml
Aliphatic C16-C21	10.416	13.793	65244324	451.85	300	ug/ml
Aliphatic C21-C28	13.794	17.463	54629460	377.662	400	ug/ml
Aliphatic C28-C40	17.464	22.490	71644364	516.738	600	ug/ml
Aliphatic EPH	3.330	22.490	242711762	1710		ug/ml
ortho-Terphenyl (SURR)	12.091	12.091	4365204	26.88		ug/ml
1-chlorooctadecane (SURR)	13.527	13.527	3525879	27.92		ug/ml
Aliphatic C9-C28	3.330	17.463	171067398	1200	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
 Data File : FE054943.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 16:33
 Operator : YP\AJ
 Sample : Q2635-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 RT2286MSD

Integration File: autoint1.e
 Quant Time: Jul 22 01:29:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 08 07:45:12 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)	12.091	4365204	26.880 ug/ml
Spiked Amount 50.000		Recovery =	53.76%
12) S 1-chlorooctadecane (S...	13.527	3525879	27.918 ug/ml
Spiked Amount 50.000		Recovery =	55.84%
Target Compounds			
1) T n-Nonane (C9)	3.426	2870631	21.342 ug/ml
2) T n-Decane (C10)	4.684	3224993	23.635 ug/ml
3) T A~Naphthalene (C11.7)	6.404	4306162	28.440 ug/ml
4) T n-Dodecane (C12)	6.860	3682736	26.841 ug/ml
5) T A~2-methylnaphthalene...	7.505	4124151	28.055 ug/ml
6) T n-Tetradecane (C14)	8.699	4060889	29.294 ug/ml
7) T n-Hexadecane (C16)	10.313	4426496	31.061 ug/ml
8) T n-Octadecane (C18)	11.764	4572380	31.199 ug/ml
10) T n-Eicosane (C20)	13.079	4537750	31.557 ug/ml
11) T n-Heneicosane (C21)	13.693	4264371	29.856 ug/ml
13) T n-Docosane (C22)	14.281	4275131	29.940 ug/ml
14) T n-Tetracosane (C24)	15.388	9084684	62.496 ug/ml
15) T n-Hexacosane (C26)	16.413	4150290	28.679 ug/ml
16) T n-Octacosane (C28)	17.363	4272205	29.314 ug/ml
17) T n-Tricontane (C30)	18.254	4246535	26.948 ug/ml
18) T n-Dotriacontane (C32)	19.088	4154275	25.678 ug/ml
19) T n-Tetratriacontane (C34)	19.873	4343269	28.501 ug/ml
20) T n-Hexatriacontane (C36)	20.614	4177144	31.067 ug/ml
21) T n-Octatriacontane (C38)	21.397	4296658	36.635 ug/ml
22) T n-Tetracontane (C40)	22.390	4170336	38.477 ug/ml

(f)=RT Delta > 1/2 Window

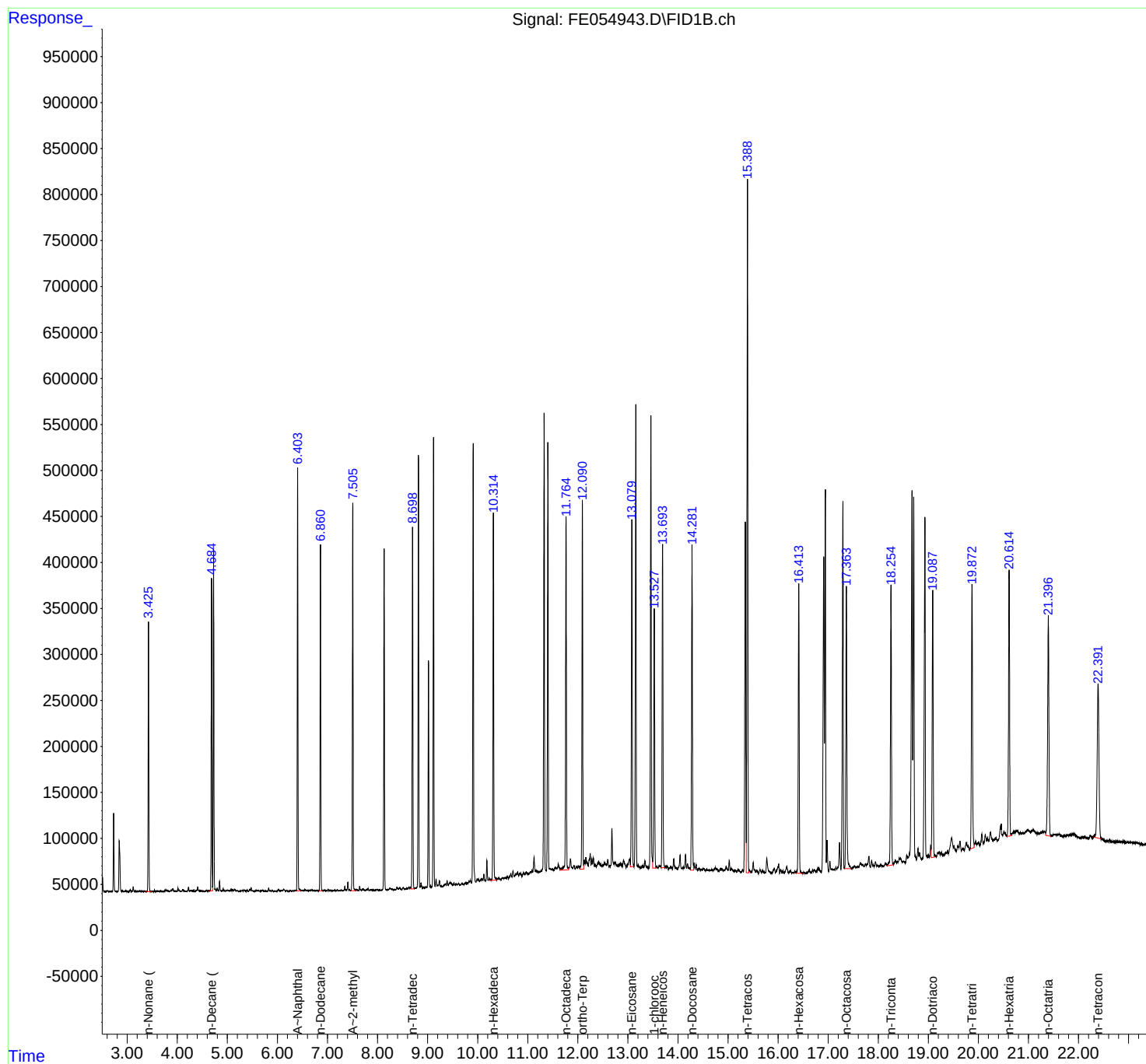
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072125AL\
Data File : FE054943.D
Signal(s) : FID1B.ch
Acq On : 21 Jul 2025 16:33
Operator : YP\AJ
Sample : Q2635-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
RT2286MSD

Integration File: autoint1.e
Quant Time: Jul 22 01:29:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.M
Quant Title : GC Extractables
QLast Update : Tue Jul 08 07:45:12 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\FE072125AL\
 Data File : FE054943.D
 Signal(s) : FID1B.ch
 Acq On : 21 Jul 2025 16:33
 Sample : Q2635-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 062725.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	2.842	2.805	2.884	BV	54686	800063	8.71%	0.317%
2	2.902	2.884	2.948	VV	794	13935	0.15%	0.006%
3	2.974	2.948	3.025	VV	644	12403	0.13%	0.005%
4	3.062	3.025	3.085	PV	2033	26121	0.28%	0.010%
5	3.120	3.085	3.151	VV	5308	57464	0.63%	0.023%
6	3.163	3.151	3.180	VV	459	4984	0.05%	0.002%
7	3.210	3.180	3.225	VV	463	7956	0.09%	0.003%
8	3.248	3.225	3.285	VV	712	14163	0.15%	0.006%
9	3.293	3.285	3.328	VV	503	7288	0.08%	0.003%
10	3.344	3.328	3.356	PV	160	1795	0.02%	0.001%
11	3.362	3.356	3.372	VV	100	773	0.01%	0.000%
12	3.426	3.372	3.475	VV	291864	2872401	31.26%	1.137%
13	3.480	3.475	3.518	VV	329	3932	0.04%	0.002%
14	3.544	3.518	3.560	PV	1085	11589	0.13%	0.005%
15	3.574	3.560	3.589	VV	595	7528	0.08%	0.003%
16	3.608	3.589	3.624	VV	711	9323	0.10%	0.004%
17	3.640	3.624	3.654	VV	625	8124	0.09%	0.003%
18	3.670	3.654	3.698	VV	596	9609	0.10%	0.004%
19	3.713	3.698	3.727	VV	221	2860	0.03%	0.001%
20	3.771	3.727	3.845	VV	1769	55125	0.60%	0.022%
21	3.875	3.845	3.884	VV	1366	17066	0.19%	0.007%
22	3.915	3.884	3.935	VV	3385	54768	0.60%	0.022%
23	3.958	3.935	3.993	VV	720	14261	0.16%	0.006%
24	4.014	3.993	4.029	VV	3776	37806	0.41%	0.015%
25	4.038	4.029	4.057	VV	1918	17774	0.19%	0.007%
26	4.070	4.057	4.085	VV	355	3384	0.04%	0.001%
27	4.112	4.085	4.178	VV	2013	40491	0.44%	0.016%
28	4.224	4.178	4.245	VV	4847	58266	0.63%	0.023%
29	4.264	4.245	4.281	VV	1369	18963	0.21%	0.008%
30	4.292	4.281	4.315	VV	796	12128	0.13%	0.005%
31	4.333	4.315	4.355	VV	1107	14352	0.16%	0.006%
32	4.382	4.355	4.391	VV	1480	17051	0.19%	0.007%
33	4.409	4.391	4.442	VV	4862	64542	0.70%	0.026%
34	4.452	4.442	4.468	VV	742	10488	0.11%	0.004%
35	4.482	4.468	4.508	VV	738	13786	0.15%	0.005%
36	4.518	4.508	4.552	VV	489	7150	0.08%	0.003%

					rteres			
37	4.585	4.552	4.608	VV	987	17845	0.19%	0.007%
38	4.628	4.608	4.658	VV	1135	18866	0.21%	0.007%
39	4.684	4.658	4.705	VV	339756	3246897	35.33%	1.285%
40	4.725	4.705	4.779	VV	369117	3572730	38.88%	1.414%
41	4.797	4.779	4.824	VV	3863	49530	0.54%	0.020%
42	4.844	4.824	4.887	VV	11152	121329	1.32%	0.048%
43	4.915	4.887	4.952	VV	2448	41789	0.45%	0.017%
44	4.969	4.952	4.985	VV	1242	13969	0.15%	0.006%
45	5.004	4.985	5.040	VV	1497	27283	0.30%	0.011%
46	5.075	5.040	5.092	VV	2961	41818	0.46%	0.017%
47	5.108	5.092	5.126	VV	1909	24943	0.27%	0.010%
48	5.148	5.126	5.173	VV	2335	37459	0.41%	0.015%
49	5.201	5.173	5.228	VV	898	18834	0.20%	0.007%
50	5.267	5.228	5.278	VV	543	9201	0.10%	0.004%
51	5.303	5.278	5.315	VV	929	14665	0.16%	0.006%
52	5.331	5.315	5.375	VV	1695	30739	0.33%	0.012%
53	5.393	5.375	5.422	VV	1415	19846	0.22%	0.008%
54	5.447	5.422	5.461	VV	2433	27970	0.30%	0.011%
55	5.476	5.461	5.498	VV	3864	40135	0.44%	0.016%
56	5.504	5.498	5.519	VV	600	5710	0.06%	0.002%
57	5.531	5.519	5.548	VV	551	5481	0.06%	0.002%
58	5.575	5.548	5.589	VV	812	11722	0.13%	0.005%
59	5.601	5.589	5.613	VV	765	9705	0.11%	0.004%
60	5.627	5.613	5.658	VV	1214	16037	0.17%	0.006%
61	5.701	5.658	5.739	VV	1166	24026	0.26%	0.010%
62	5.767	5.739	5.791	VV	402	6978	0.08%	0.003%
63	5.824	5.791	5.843	VV	3558	39031	0.42%	0.015%
64	5.857	5.843	5.875	VV	864	12812	0.14%	0.005%
65	5.901	5.875	5.922	VV	607	12340	0.13%	0.005%
66	5.935	5.922	5.981	VV	382	8002	0.09%	0.003%
67	6.021	5.981	6.040	VV	2528	31671	0.34%	0.013%
68	6.052	6.040	6.066	VV	1041	10153	0.11%	0.004%
69	6.094	6.066	6.105	VV	744	13931	0.15%	0.006%
70	6.123	6.105	6.167	VV	2587	46468	0.51%	0.018%
71	6.180	6.167	6.209	VV	675	11511	0.13%	0.005%
72	6.219	6.209	6.228	VV	402	3206	0.03%	0.001%
73	6.260	6.228	6.282	VV	655	12430	0.14%	0.005%
74	6.311	6.282	6.328	PV	598	7970	0.09%	0.003%
75	6.364	6.328	6.378	VV	1000	15751	0.17%	0.006%
76	6.404	6.378	6.472	VV	459152	4326076	47.08%	1.712%
77	6.502	6.472	6.527	VV	923	21000	0.23%	0.008%
78	6.560	6.527	6.579	VV	1570	29964	0.33%	0.012%
79	6.596	6.579	6.617	VV	1018	14691	0.16%	0.006%
80	6.633	6.617	6.646	VV	657	7963	0.09%	0.003%
81	6.676	6.646	6.684	VV	901	14539	0.16%	0.006%
82	6.696	6.684	6.718	VV	1207	15466	0.17%	0.006%
83	6.743	6.718	6.763	VV	718	11753	0.13%	0.005%
84	6.781	6.763	6.801	VV	714	10806	0.12%	0.004%
85	6.812	6.801	6.827	VV	463	5068	0.06%	0.002%
86	6.860	6.827	6.910	VV	377590	3692640	40.19%	1.461%
87	6.935	6.910	6.966	VV	701	15961	0.17%	0.006%
88	6.978	6.966	6.998	VV	514	7131	0.08%	0.003%
89	7.013	6.998	7.040	VV	1374	17262	0.19%	0.007%

					rteres			
90	7.062	7.040	7.079	VV	732	10172	0.11%	0.004%
91	7.086	7.079	7.105	VV	194	1910	0.02%	0.001%
92	7.148	7.105	7.171	VV	970	14165	0.15%	0.006%
93	7.191	7.171	7.218	VV	1033	14141	0.15%	0.006%
94	7.271	7.218	7.298	PV	956	16911	0.18%	0.007%
95	7.347	7.298	7.384	VV	4834	61507	0.67%	0.024%
96	7.408	7.384	7.428	VV	9315	96754	1.05%	0.038%
97	7.438	7.428	7.468	VV	1148	15736	0.17%	0.006%
98	7.505	7.468	7.565	VV	419495	4125749	44.90%	1.633%
99	7.584	7.565	7.623	VV	1381	27212	0.30%	0.011%
100	7.643	7.623	7.671	VV	4539	50781	0.55%	0.020%
101	7.700	7.671	7.750	VV	1957	43580	0.47%	0.017%
102	7.778	7.750	7.791	VV	1143	14689	0.16%	0.006%
103	7.810	7.791	7.838	VV	2261	27806	0.30%	0.011%
104	7.866	7.838	7.886	VV	785	14687	0.16%	0.006%
105	7.901	7.886	7.921	VV	650	9303	0.10%	0.004%
106	7.992	7.921	8.018	VV	1358	30697	0.33%	0.012%
107	8.034	8.018	8.063	VV	449	8682	0.09%	0.003%
108	8.209	8.193	8.217	VV	608	7510	0.08%	0.003%
109	8.245	8.217	8.262	VV	2120	36587	0.40%	0.014%
110	8.270	8.262	8.328	VV	1414	25207	0.27%	0.010%
111	8.346	8.328	8.363	VV	301	4614	0.05%	0.002%
112	8.393	8.363	8.417	VV	2321	41627	0.45%	0.016%
113	8.439	8.417	8.484	VV	2294	43776	0.48%	0.017%
114	8.515	8.484	8.535	VV	2085	35092	0.38%	0.014%
115	8.548	8.535	8.560	VV	614	7464	0.08%	0.003%
116	8.584	8.560	8.601	VV	1151	19965	0.22%	0.008%
117	8.627	8.601	8.642	VV	2767	35090	0.38%	0.014%
118	8.655	8.642	8.667	VV	1894	22059	0.24%	0.009%
119	8.699	8.667	8.735	VV	392319	4077886	44.38%	1.614%
120	8.759	8.735	8.769	VV	1139	19787	0.22%	0.008%
121	8.817	8.769	8.847	VV	473674	4663883	50.76%	1.845%
122	8.868	8.847	8.918	VV	6499	111370	1.21%	0.044%
123	8.925	8.918	8.941	VV	1322	13935	0.15%	0.006%
124	8.970	8.941	8.986	VV	1826	37000	0.40%	0.015%
125	9.060	9.048	9.078	VV	2251	32578	0.35%	0.013%
126	9.118	9.078	9.148	VV	487135	4815830	52.41%	1.906%
127	9.168	9.148	9.191	VV	9805	138210	1.50%	0.055%
128	9.207	9.191	9.216	VV	3604	45704	0.50%	0.018%
129	9.235	9.216	9.261	VV	8077	124006	1.35%	0.049%
130	9.275	9.261	9.295	VV	2051	38248	0.42%	0.015%
131	9.360	9.295	9.375	VV	4024	139649	1.52%	0.055%
132	9.389	9.375	9.409	VV	7929	107651	1.17%	0.043%
133	9.456	9.409	9.493	VV	5996	215121	2.34%	0.085%
134	9.527	9.493	9.545	VV	4942	110821	1.21%	0.044%
135	9.572	9.545	9.590	VV	3940	88191	0.96%	0.035%
136	9.614	9.590	9.651	VV	3791	117253	1.28%	0.046%
137	9.686	9.651	9.705	VV	4068	104448	1.14%	0.041%
138	9.719	9.705	9.728	VV	3468	44426	0.48%	0.018%
139	9.748	9.728	9.782	VV	4386	130524	1.42%	0.052%
140	9.790	9.782	9.805	VV	4005	52611	0.57%	0.021%
141	9.853	9.805	9.878	VV	6691	241302	2.63%	0.095%

rteres								
142	9.910	9.878	9.963	VV	482237	5229130	56.91%	2.069%
143	9.988	9.963	10.001	VV	8582	152979	1.66%	0.061%
144	10.013	10.001	10.041	VV	7464	160372	1.75%	0.063%
145	10.064	10.041	10.077	VV	7901	148778	1.62%	0.059%
146	10.090	10.077	10.104	VV	8317	124715	1.36%	0.049%
147	10.124	10.104	10.161	VV	13387	285069	3.10%	0.113%
148	10.184	10.161	10.209	VV	27998	390522	4.25%	0.155%
149	10.231	10.209	10.251	VV	8840	189819	2.07%	0.075%
150	10.313	10.251	10.383	VV	409373	4921885	53.56%	1.948%
151	10.417	10.383	10.463	VV	8238	362813	3.95%	0.144%
152	10.492	10.463	10.520	VV	8641	266005	2.89%	0.105%
153	10.534	10.520	10.574	VV	8196	260974	2.84%	0.103%
154	10.594	10.574	10.612	VV	9344	194139	2.11%	0.077%
155	10.662	10.612	10.681	VV	12902	408214	4.44%	0.162%
156	10.706	10.681	10.730	VV	15267	353016	3.84%	0.140%
157	10.766	10.730	10.777	VV	12025	309208	3.36%	0.122%
158	10.796	10.777	10.821	VV	13792	321126	3.49%	0.127%
159	10.837	10.821	10.849	VV	13021	200809	2.19%	0.079%
160	10.858	10.849	10.882	VV	12463	222020	2.42%	0.088%
161	10.914	10.882	10.940	VV	12881	395896	4.31%	0.157%
162	10.968	10.940	11.021	VV	13695	598219	6.51%	0.237%
163	11.054	11.021	11.069	VV	14294	366682	3.99%	0.145%
164	11.086	11.069	11.099	VV	15328	255113	2.78%	0.101%
165	11.126	11.099	11.155	VV	29248	659770	7.18%	0.261%
166	11.174	11.155	11.188	VV	14867	284883	3.10%	0.113%
167	11.197	11.188	11.215	VV	14159	220804	2.40%	0.087%
168	11.227	11.215	11.238	VV	13888	188233	2.05%	0.074%
169	11.327	11.238	11.371	VV	515304	6444394	70.13%	2.550%
170	11.402	11.371	11.464	VV	478478	5664675	61.65%	2.241%
171	11.485	11.464	11.521	VV	16242	521320	5.67%	0.206%
172	11.543	11.521	11.585	VV	17029	616771	6.71%	0.244%
173	11.609	11.585	11.659	VV	21264	789929	8.60%	0.313%
174	11.764	11.659	11.825	VV	398265	5995948	65.25%	2.373%
175	11.853	11.825	11.898	VV	25933	845819	9.20%	0.335%
176	11.922	11.898	11.944	VV	18967	464061	5.05%	0.184%
177	11.972	11.944	11.993	VV	17094	488009	5.31%	0.193%
178	12.008	11.993	12.044	VV	17675	524713	5.71%	0.208%
179	12.091	12.044	12.116	VV	416275	4991216	54.32%	1.975%
180	12.131	12.116	12.145	VV	24063	370356	4.03%	0.147%
181	12.161	12.145	12.206	VV	27014	804824	8.76%	0.318%
182	12.247	12.206	12.265	VV	30857	828964	9.02%	0.328%
183	12.281	12.265	12.296	VV	25343	416963	4.54%	0.165%
184	12.311	12.296	12.333	VV	25922	494209	5.38%	0.196%
185	12.347	12.333	12.369	VV	17979	375436	4.09%	0.149%
186	12.417	12.369	12.478	VV	21044	1236580	13.46%	0.489%
187	12.533	12.478	12.565	VV	19586	955333	10.40%	0.378%
188	12.599	12.565	12.621	VV	23653	656726	7.15%	0.260%
189	12.638	12.621	12.651	VV	17303	303063	3.30%	0.120%
190	12.681	12.651	12.718	VV	57265	1143193	12.44%	0.452%
191	12.732	12.718	12.793	VV	20051	836145	9.10%	0.331%
192	12.814	12.793	12.830	VV	17302	374906	4.08%	0.148%
193	12.851	12.830	12.863	VV	18727	344222	3.75%	0.136%
194	12.871	12.863	12.888	VV	17715	264092	2.87%	0.104%

					rteres			
195	12.913	12.888	12.965	VV	22327	842802	9.17%	0.333%
196	13.032	12.965	13.049	VV	23125	930208	10.12%	0.368%
197	13.079	13.049	13.118	VV	394299	5160979	56.16%	2.042%
198	13.158	13.118	13.190	VV	508498	6246676	67.98%	2.472%
199	13.204	13.190	13.241	VV	15935	455605	4.96%	0.180%
200	13.251	13.241	13.265	VV	14394	200206	2.18%	0.079%
201	13.305	13.265	13.321	VV	15576	484049	5.27%	0.192%
202	13.342	13.321	13.423	VV	20833	927594	10.09%	0.367%
203	13.460	13.423	13.495	VV	509945	6135210	66.77%	2.428%
204	13.527	13.495	13.568	VV	297120	4076505	44.36%	1.613%
205	13.578	13.568	13.602	VV	13911	266189	2.90%	0.105%
206	13.626	13.602	13.641	VV	14993	328360	3.57%	0.130%
207	13.693	13.641	13.737	VV	363224	4998300	54.39%	1.978%
208	13.751	13.737	13.764	VV	13026	209737	2.28%	0.083%
209	13.785	13.764	13.821	VV	14145	429834	4.68%	0.170%
210	13.850	13.821	13.890	VV	13476	499033	5.43%	0.197%
211	13.917	13.890	13.951	VV	21583	544985	5.93%	0.216%
212	13.958	13.951	13.993	VV	11493	273387	2.98%	0.108%
213	14.042	13.993	14.077	VV	25507	744138	8.10%	0.294%
214	14.111	14.077	14.126	VV	11910	331185	3.60%	0.131%
215	14.151	14.126	14.173	VV	25748	474613	5.17%	0.188%
216	14.191	14.173	14.218	VV	15845	346226	3.77%	0.137%
217	14.230	14.218	14.247	VV	11440	184463	2.01%	0.073%
218	14.281	14.247	14.312	VV	360471	4609904	50.17%	1.824%
219	14.323	14.312	14.344	VV	15510	251104	2.73%	0.099%
220	14.364	14.344	14.392	VV	14500	317498	3.46%	0.126%
221	14.414	14.392	14.431	VV	10050	219479	2.39%	0.087%
222	14.434	14.431	14.455	VV	9701	125775	1.37%	0.050%
223	14.465	14.455	14.483	VV	9221	151053	1.64%	0.060%
224	14.511	14.483	14.558	VV	9803	392238	4.27%	0.155%
225	14.576	14.558	14.595	VV	9012	182147	1.98%	0.072%
226	14.605	14.595	14.650	VV	7743	247232	2.69%	0.098%
227	14.679	14.650	14.697	VV	8385	215020	2.34%	0.085%
228	14.746	14.697	14.766	VV	10121	359059	3.91%	0.142%
229	14.780	14.766	14.820	VV	8842	254269	2.77%	0.101%
230	14.846	14.820	14.865	VV	9425	209700	2.28%	0.083%
231	14.884	14.865	14.932	VV	8369	298365	3.25%	0.118%
232	14.962	14.932	15.001	VV	11304	348684	3.79%	0.138%
233	15.024	15.001	15.047	VV	17520	309541	3.37%	0.122%
234	15.064	15.047	15.076	VV	8405	133053	1.45%	0.053%
235	15.083	15.076	15.101	VV	8004	106051	1.15%	0.042%
236	15.114	15.101	15.126	VV	6080	86992	0.95%	0.034%
237	15.145	15.126	15.171	VV	6230	157085	1.71%	0.062%
238	15.207	15.171	15.261	VV	7123	300358	3.27%	0.119%
239	15.291	15.261	15.307	VV	6900	147467	1.60%	0.058%
240	15.345	15.307	15.363	VV	384471	5083722	55.32%	2.012%
241	15.388	15.363	15.418	VV	757959	9189011	100.00%	3.636%
242	15.427	15.418	15.457	VV	5915	118828	1.29%	0.047%
243	15.503	15.457	15.554	VV	14213	386731	4.21%	0.153%
244	15.575	15.554	15.608	VV	5974	134767	1.47%	0.053%
245	15.638	15.608	15.666	VV	5796	143738	1.56%	0.057%
246	15.684	15.666	15.713	VV	5132	117874	1.28%	0.047%

rteres								
247	15.721	15.713	15.741	VV	3401	48994	0.53%	0.019%
248	15.774	15.741	15.871	VV	18160	474356	5.16%	0.188%
249	15.909	15.871	15.916	VV	5820	97232	1.06%	0.038%
250	15.926	15.916	15.946	VV	6480	84352	0.92%	0.033%
251	16.010	15.946	16.032	VV	10895	297127	3.23%	0.118%
252	16.051	16.032	16.080	VV	5504	99300	1.08%	0.039%
253	16.096	16.080	16.115	VV	3727	56151	0.61%	0.022%
254	16.174	16.115	16.205	VV	7622	221893	2.41%	0.088%
255	16.249	16.205	16.281	VV	4008	102051	1.11%	0.040%
256	16.299	16.281	16.317	VV	1650	30761	0.33%	0.012%
257	16.335	16.317	16.353	VV	2592	39984	0.44%	0.016%
258	16.413	16.353	16.498	VV	316822	4185764	45.55%	1.656%
259	16.508	16.498	16.555	VV	931	17076	0.19%	0.007%
260	16.570	16.555	16.582	PV	669	6519	0.07%	0.003%
261	16.622	16.582	16.663	VV	3205	72713	0.79%	0.029%
262	16.687	16.663	16.701	VV	2566	32847	0.36%	0.013%
263	16.721	16.701	16.761	VV	3140	67440	0.73%	0.027%
264	16.801	16.761	16.854	VV	4287	125330	1.36%	0.050%
265	16.912	16.854	16.927	VV	343280	5234860	56.97%	2.071%
266	16.943	16.927	16.965	VV	418972	4694915	51.09%	1.858%
267	16.979	16.965	17.009	VV	33982	420414	4.58%	0.166%
268	17.035	17.009	17.058	VV	11089	140714	1.53%	0.056%
269	17.071	17.058	17.135	VV	2567	68507	0.75%	0.027%
270	17.156	17.135	17.173	VV	4454	56843	0.62%	0.022%
271	17.228	17.173	17.254	VV	30260	490260	5.34%	0.194%
272	17.294	17.254	17.328	VV	401198	5106588	55.57%	2.021%
273	17.363	17.328	17.426	VV	309546	4305806	46.86%	1.704%
274	17.435	17.426	17.468	VV	3853	55888	0.61%	0.022%
275	17.524	17.468	17.557	VV	3073	106910	1.16%	0.042%
276	17.589	17.557	17.606	VV	2470	52644	0.57%	0.021%
277	17.644	17.606	17.675	VV	5833	166491	1.81%	0.066%
278	17.692	17.675	17.713	VV	4346	74220	0.81%	0.029%
279	17.742	17.713	17.761	VV	4466	90669	0.99%	0.036%
280	17.812	17.761	17.841	VV	12247	260597	2.84%	0.103%
281	17.868	17.841	17.888	VV	7668	110680	1.20%	0.044%
282	17.899	17.888	17.918	VV	2778	35897	0.39%	0.014%
283	17.944	17.918	17.970	VV	5886	94786	1.03%	0.038%
284	17.981	17.970	18.020	VV	1592	31979	0.35%	0.013%
285	18.058	18.020	18.079	VV	1633	32582	0.35%	0.013%
286	18.096	18.079	18.111	VV	860	6515	0.07%	0.003%
287	18.145	18.111	18.179	PV	3637	74470	0.81%	0.029%
288	18.254	18.179	18.298	VV	305036	4270086	46.47%	1.690%
289	18.341	18.298	18.362	VV	5043	115702	1.26%	0.046%
290	18.383	18.362	18.398	VV	3627	67402	0.73%	0.027%
291	18.419	18.398	18.435	VV	7294	126709	1.38%	0.050%
292	18.446	18.435	18.485	VV	6747	139449	1.52%	0.055%
293	18.503	18.485	18.539	VV	3476	77598	0.84%	0.031%
294	18.568	18.539	18.583	VV	9577	148286	1.61%	0.059%
295	18.673	18.583	18.689	VV	411317	6378740	69.42%	2.524%
296	18.708	18.689	18.765	VV	398075	5094270	55.44%	2.016%
297	18.793	18.765	18.811	VV	15663	256999	2.80%	0.102%
298	18.825	18.811	18.875	VV	10041	230406	2.51%	0.091%
299	18.931	18.875	18.980	VV	373178	5469636	59.52%	2.164%

rteres							
300	18.997	18.980	19.018	VV	6896	128861	1.40% 0.051%
301	19.088	19.018	19.125	VV	292744	4542635	49.44% 1.797%
302	19.134	19.125	19.155	VV	5496	89213	0.97% 0.035%
303	19.187	19.155	19.199	VV	8368	168743	1.84% 0.067%
304	19.217	19.199	19.240	VV	8742	194694	2.12% 0.077%
305	19.260	19.240	19.285	VV	7357	176943	1.93% 0.070%
306	19.301	19.285	19.315	VV	5777	92725	1.01% 0.037%
307	19.345	19.315	19.359	VV	7959	167998	1.83% 0.066%
308	19.386	19.359	19.404	VV	8581	197303	2.15% 0.078%
309	19.468	19.404	19.501	VV	21781	876974	9.54% 0.347%
310	19.511	19.501	19.562	VV	13351	370343	4.03% 0.147%
311	19.588	19.562	19.611	VV	13471	324341	3.53% 0.128%
312	19.633	19.611	19.661	VV	18200	386708	4.21% 0.153%
313	19.694	19.661	19.721	VV	9222	308307	3.36% 0.122%
314	19.756	19.721	19.825	VV	15133	715229	7.78% 0.283%
315	19.873	19.825	19.927	VV	298166	4895642	53.28% 1.937%
316	19.946	19.927	19.969	VV	15618	353822	3.85% 0.140%
317	20.002	19.969	20.028	VV	14300	457062	4.97% 0.181%
318	20.068	20.028	20.107	VV	22973	737133	8.02% 0.292%
319	20.139	20.107	20.166	VV	21676	623019	6.78% 0.247%
320	20.181	20.166	20.212	VV	17305	434935	4.73% 0.172%
321	20.241	20.212	20.289	VV	23842	861139	9.37% 0.341%
322	20.355	20.289	20.379	VV	17129	834747	9.08% 0.330%
323	20.446	20.379	20.477	VV	30114	1216295	13.24% 0.481%
324	20.510	20.477	20.569	VV	22914	1126998	12.26% 0.446%
325	20.614	20.569	20.657	VV	305371	5104095	55.55% 2.020%
326	20.711	20.657	20.737	VV	21636	979467	10.66% 0.388%
327	20.781	20.737	20.824	VV	22553	1104824	12.02% 0.437%
328	20.839	20.824	20.858	VV	19904	393694	4.28% 0.156%
329	20.867	20.858	20.905	VV	19383	534556	5.82% 0.212%
330	20.977	20.905	21.037	VV	22189	1604968	17.47% 0.635%
331	21.100	21.037	21.173	VV	21630	1578178	17.17% 0.624%
332	21.184	21.173	21.213	VV	17016	409198	4.45% 0.162%
333	21.235	21.213	21.243	VV	17408	303449	3.30% 0.120%
334	21.253	21.243	21.261	VV	17444	184195	2.00% 0.073%
335	21.278	21.261	21.298	VV	18275	389583	4.24% 0.154%
336	21.321	21.298	21.341	VV	18381	455711	4.96% 0.180%
337	21.397	21.341	21.446	VV	250829	5124202	55.76% 2.028%
338	21.456	21.446	21.468	VV	13185	168863	1.84% 0.067%
339	21.609	21.468	21.698	VV	13698	1740249	18.94% 0.689%
340	21.719	21.698	21.745	VV	11138	306559	3.34% 0.121%
341	21.882	21.745	22.037	VV	11769	1780068	19.37% 0.704%
342	22.130	22.037	22.191	VV	7241	596345	6.49% 0.236%
343	22.236	22.191	22.278	VV	7707	325983	3.55% 0.129%
344	22.391	22.278	22.561	VV	171890	4764645	51.85% 1.885%
Sum of corrected areas:					252723868		

Aliphatic EPH 062725.M Tue Jul 22 02:02:18 2025

Manual Integration Report

Sequence:

FE062725AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
50 PPM ALIPHATIC HC	FE054609.D	n-Octatriacontane (C38)	yogesh	6/30/2025 7:50:48 AM	mohammad	6/30/2025 9:33:27	Peak Integrated by Software
50 PPM ALIPHATIC HC	FE054609.D	n-Tetracontane (C40)	yogesh	6/30/2025 7:50:48 AM	mohammad	6/30/2025 9:33:27	Peak Integrated by Software
Q2429-02	FE054617.D	ortho-Terphenyl (SURR)	yogesh	6/30/2025 7:50:50 AM	mohammad	6/30/2025 9:33:27	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE054624.D	n-Hexacosane (C26)	yogesh	6/30/2025 7:50:52 AM	mohammad	6/30/2025 9:33:27	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE054624.D	n-Tetracontane (C40)	yogesh	6/30/2025 7:50:52 AM	mohammad	6/30/2025 9:33:27	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FE072125AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2635-01MS	FE054942.D	n-Dotriacontane (C32)	yogesh	7/22/2025 7:26:52 AM	mohammad	7/23/2025 1:32:59	Peak Integrated by Software
Q2651-04	FE054948.D	ortho-Terphenyl (SURR)	yogesh	7/22/2025 7:26:56 AM	mohammad	7/23/2025 1:32:59	Peak Integrated by Software

Manual Integration Report

Sequence:

FE072225AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2649-18	FE054968.D	ortho-Terphenyl (SURR)	yogesh	7/23/2025 7:40:33 AM	mohammad	7/24/2025 1:25:57	Peak Integrated by Software
Q2658-02	FE054970.D	1-chlorooctadecane (SURR)	yogesh	7/23/2025 7:40:35 AM	mohammad	7/24/2025 1:25:57	Peak Integrated by Software
Q2658-02	FE054970.D	ortho-Terphenyl (SURR)	yogesh	7/23/2025 7:40:35 AM	mohammad	7/24/2025 1:25:57	Peak Integrated by Software

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE062725AL

Review By	yogesh	Review On	6/27/2025 12:30:13 PM
Supervise By	mohammad	Supervise On	6/30/2025 9:33:27 AM
SubDirectory	FE062725AL	HP Acquire Method	HP Processing Method FE062725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24176 PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE054606.D	27 Jun 2025 11:53	YP\AJ	Ok
2	I.BLK	FE054607.D	27 Jun 2025 12:23	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE054608.D	27 Jun 2025 12:53	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE054609.D	27 Jun 2025 13:23	YP\AJ	Ok,M
5	20 PPM ALIPHATIC HC STD3	FE054610.D	27 Jun 2025 13:53	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE054611.D	27 Jun 2025 14:23	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE054612.D	27 Jun 2025 14:54	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE054613.D	27 Jun 2025 15:24	YP\AJ	Ok
9	I.BLK	FE054614.D	27 Jun 2025 15:54	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE054615.D	27 Jun 2025 16:24	YP\AJ	Ok
11	Q2429-01	FE054616.D	27 Jun 2025 16:54	YP\AJ	Ok
12	Q2429-02	FE054617.D	27 Jun 2025 17:25	YP\AJ	Ok,M
13	Q2431-01	FE054618.D	27 Jun 2025 17:55	YP\AJ	Ok
14	Q2431-02	FE054619.D	27 Jun 2025 18:25	YP\AJ	Not Ok
15	Q2431-03	FE054620.D	27 Jun 2025 18:55	YP\AJ	Ok
16	Q2431-04	FE054621.D	27 Jun 2025 19:25	YP\AJ	Ok
17	Q2431-05	FE054622.D	27 Jun 2025 19:56	YP\AJ	Not Ok
18	I.BLK	FE054623.D	27 Jun 2025 20:56	YP\AJ	Ok
19	20 PPM ALIPHATIC HC STD	FE054624.D	27 Jun 2025 22:57	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072125AL

Review By	yogesh	Review On	7/21/2025 11:09:09 AM
Supervise By	mohammad	Supervise On	7/23/2025 1:32:59 AM
SubDirectory	FE072125AL	HP Acquire Method	HP Processing Method FE062725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24176 PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE054934.D	21 Jul 2025 08:36	YP\AJ	Ok
2	I.BLK	FE054935.D	21 Jul 2025 09:06	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE054936.D	21 Jul 2025 09:48	YP\AJ	Ok
4	PB168930BL	FE054937.D	21 Jul 2025 13:31	YP\AJ	Ok
5	PB168930BS	FE054938.D	21 Jul 2025 14:02	YP\AJ	Ok
6	PB168930BSD	FE054939.D	21 Jul 2025 14:32	YP\AJ	Ok
7	Q2635-01	FE054940.D	21 Jul 2025 15:02	YP\AJ	Ok
8	Q2635-01D	FE054941.D	21 Jul 2025 15:33	YP\AJ	Ok
9	Q2635-01MS	FE054942.D	21 Jul 2025 16:03	YP\AJ	Ok,M
10	Q2635-01MSD	FE054943.D	21 Jul 2025 16:33	YP\AJ	Ok
11	Q2635-02	FE054944.D	21 Jul 2025 17:04	YP\AJ	Ok
12	Q2651-01	FE054945.D	21 Jul 2025 17:34	YP\AJ	Ok
13	Q2651-02	FE054946.D	21 Jul 2025 18:04	YP\AJ	ReRun
14	Q2651-03	FE054947.D	21 Jul 2025 18:35	YP\AJ	Ok
15	Q2651-04	FE054948.D	21 Jul 2025 19:05	YP\AJ	Ok,M
16	Q2651-05	FE054949.D	21 Jul 2025 19:35	YP\AJ	ReRun
17	I.BLK	FE054950.D	21 Jul 2025 20:36	YP\AJ	Ok
18	20 PPM ALIPHATIC HC STD	FE054951.D	21 Jul 2025 21:06	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072225AL

Review By	yogesh	Review On	7/22/2025 12:29:00 PM
Supervise By	mohammad	Supervise On	7/24/2025 1:25:57 AM
SubDirectory	FE072225AL	HP Acquire Method	HP Processing Method FE062725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24176 PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE054952.D	22 Jul 2025 07:25	YP\AJ	Ok
2	I.BLK	FE054953.D	22 Jul 2025 07:55	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE054954.D	22 Jul 2025 08:25	YP\AJ	Ok
4	Q2651-02	FE054955.D	22 Jul 2025 09:24	YP\AJ	Ok
5	Q2651-05	FE054956.D	22 Jul 2025 09:54	YP\AJ	Ok
6	I.BLK	FE054957.D	22 Jul 2025 12:29	YP\AJ	Ok
7	20 PPM ALIPHATIC HC STD	FE054958.D	22 Jul 2025 13:00	YP\AJ	Ok
8	Q2649-01	FE054959.D	22 Jul 2025 14:43	YP\AJ	Ok
9	Q2649-02	FE054960.D	22 Jul 2025 15:13	YP\AJ	Ok
10	Q2649-05	FE054961.D	22 Jul 2025 15:43	YP\AJ	Ok
11	Q2649-06	FE054962.D	22 Jul 2025 16:13	YP\AJ	Ok
12	Q2649-09	FE054963.D	22 Jul 2025 16:44	YP\AJ	Ok
13	Q2649-10	FE054964.D	22 Jul 2025 17:14	YP\AJ	ReRun
14	Q2649-13	FE054965.D	22 Jul 2025 17:44	YP\AJ	Ok
15	Q2649-14	FE054966.D	22 Jul 2025 18:14	YP\AJ	Ok
16	Q2649-17	FE054967.D	22 Jul 2025 18:45	YP\AJ	Ok
17	Q2649-18	FE054968.D	22 Jul 2025 19:15	YP\AJ	Ok,M
18	Q2658-01	FE054969.D	22 Jul 2025 19:45	YP\AJ	Dilution
19	Q2658-02	FE054970.D	22 Jul 2025 20:15	YP\AJ	Dilution
20	Q2660-01	FE054971.D	22 Jul 2025 20:46	YP\AJ	Dilution
21	Q2660-03	FE054972.D	22 Jul 2025 21:16	YP\AJ	Dilution

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072225AL

Review By	yogesh	Review On	7/22/2025 12:29:00 PM
Supervise By	mohammad	Supervise On	7/24/2025 1:25:57 AM
SubDirectory	FE072225AL	HP Acquire Method	HP Processing Method FE062725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

22	I.BLK	FE054973.D	22 Jul 2025 22:16	YP\AJ	Ok
23	20 PPM ALIPHATIC HC STD	FE054974.D	22 Jul 2025 22:46	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE062725AL

Review By	yogesh	Review On	6/27/2025 12:30:13 PM
Supervise By	mohammad	Supervise On	6/30/2025 9:33:27 AM
SubDirectory	FE062725AL	HP Acquire Method	HP Processing Method
			FE062725AL

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

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE054606.D	27 Jun 2025 11:53		YPIAJ	Ok
2	I.BLK	I.BLK	FE054607.D	27 Jun 2025 12:23		YPIAJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FE054608.D	27 Jun 2025 12:53		YPIAJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE054609.D	27 Jun 2025 13:23		YPIAJ	Ok,M
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE054610.D	27 Jun 2025 13:53		YPIAJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE054611.D	27 Jun 2025 14:23		YPIAJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE054612.D	27 Jun 2025 14:54		YPIAJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE054613.D	27 Jun 2025 15:24		YPIAJ	Ok
9	I.BLK	I.BLK	FE054614.D	27 Jun 2025 15:54		YPIAJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE054615.D	27 Jun 2025 16:24		YPIAJ	Ok
11	Q2429-01	TP-4	FE054616.D	27 Jun 2025 16:54		YPIAJ	Ok
12	Q2429-02	TP-4-EPH	FE054617.D	27 Jun 2025 17:25		YPIAJ	Ok,M
13	Q2431-01	S-1	FE054618.D	27 Jun 2025 17:55		YPIAJ	Ok
14	Q2431-02	Q2431-02	FE054619.D	27 Jun 2025 18:25	Need to run again	YPIAJ	Not Ok
15	Q2431-03	S-3	FE054620.D	27 Jun 2025 18:55		YPIAJ	Ok
16	Q2431-04	S-4	FE054621.D	27 Jun 2025 19:25		YPIAJ	Ok
17	Q2431-05	Q2431-05	FE054622.D	27 Jun 2025 19:56	Need to run again	YPIAJ	Not Ok
18	I.BLK	I.BLK	FE054623.D	27 Jun 2025 20:56		YPIAJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE062725AL

Review By	yogesh	Review On	6/27/2025 12:30:13 PM
Supervise By	mohammad	Supervise On	6/30/2025 9:33:27 AM
SubDirectory	FE062725AL	HP Acquire Method	HP Processing Method FE062725AL

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

19	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE054624.D	27 Jun 2025 22:57		YP\AJ	Ok,M
----	---------------------	---------------------	------------	-------------------	--	-------	------

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072125AL

Review By	yogesh	Review On	7/21/2025 11:09:09 AM
Supervise By	mohammad	Supervise On	7/23/2025 1:32:59 AM
SubDirectory	FE072125AL	HP Acquire Method	HP Processing Method
			FE062725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC	PP24176		
Internal Standard/PEM			
ICV/I.BLK	PP24174,PP24179		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE054934.D	21 Jul 2025 08:36		YPIAJ	Ok
2	I.BLK	I.BLK	FE054935.D	21 Jul 2025 09:06		YPIAJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE054936.D	21 Jul 2025 09:48		YPIAJ	Ok
4	PB168930BL	PB168930BL	FE054937.D	21 Jul 2025 13:31		YPIAJ	Ok
5	PB168930BS	PB168930BS	FE054938.D	21 Jul 2025 14:02		YPIAJ	Ok
6	PB168930BSD	PB168930BSD	FE054939.D	21 Jul 2025 14:32		YPIAJ	Ok
7	Q2635-01	RT2286	FE054940.D	21 Jul 2025 15:02		YPIAJ	Ok
8	Q2635-01D	Q2635-01D	FE054941.D	21 Jul 2025 15:33		YPIAJ	Ok
9	Q2635-01MS	RT2286MS	FE054942.D	21 Jul 2025 16:03	FE054940.D	YPIAJ	Ok,M
10	Q2635-01MSD	RT2286MSD	FE054943.D	21 Jul 2025 16:33	FE054940.D!FE054942.D	YPIAJ	Ok
11	Q2635-02	RT2286-E2	FE054944.D	21 Jul 2025 17:04		YPIAJ	Ok
12	Q2651-01	MH 2-1	FE054945.D	21 Jul 2025 17:34		YPIAJ	Ok
13	Q2651-02	Q2651-02	FE054946.D	21 Jul 2025 18:04	Surr Fail	YPIAJ	ReRun
14	Q2651-03	MH 7-6	FE054947.D	21 Jul 2025 18:35		YPIAJ	Ok
15	Q2651-04	MH 8-7	FE054948.D	21 Jul 2025 19:05		YPIAJ	Ok,M
16	Q2651-05	Q2651-05	FE054949.D	21 Jul 2025 19:35	Surr Fail	YPIAJ	ReRun
17	I.BLK	I.BLK	FE054950.D	21 Jul 2025 20:36		YPIAJ	Ok
18	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE054951.D	21 Jul 2025 21:06		YPIAJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072125AL

Review By	yogesh	Review On	7/21/2025 11:09:09 AM	
Supervise By	mohammad	Supervise On	7/23/2025 1:32:59 AM	
SubDirectory	FE072125AL	HP Acquire Method	HP Processing Method	FE062725AL
STD. NAME	STD REF.#			
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178			
CCC Internal Standard/PEM	PP24176			
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179			

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072225AL

Review By	yogesh	Review On	7/22/2025 12:29:00 PM
Supervise By	mohammad	Supervise On	7/24/2025 1:25:57 AM
SubDirectory	FE072225AL	HP Acquire Method	HP Processing Method FE062725AL

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE054952.D	22 Jul 2025 07:25		YP\AJ	Ok
2	I.BLK	I.BLK	FE054953.D	22 Jul 2025 07:55		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE054954.D	22 Jul 2025 08:25		YP\AJ	Ok
4	Q2651-02	MH 6-5	FE054955.D	22 Jul 2025 09:24		YP\AJ	Ok
5	Q2651-05	MH 9-8	FE054956.D	22 Jul 2025 09:54		YP\AJ	Ok
6	I.BLK	I.BLK	FE054957.D	22 Jul 2025 12:29		YP\AJ	Ok
7	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE054958.D	22 Jul 2025 13:00		YP\AJ	Ok
8	Q2649-01	WC-1	FE054959.D	22 Jul 2025 14:43		YP\AJ	Ok
9	Q2649-02	WC-1-EPH	FE054960.D	22 Jul 2025 15:13		YP\AJ	Ok
10	Q2649-05	WC-2	FE054961.D	22 Jul 2025 15:43		YP\AJ	Ok
11	Q2649-06	WC-2-EPH	FE054962.D	22 Jul 2025 16:13		YP\AJ	Ok
12	Q2649-09	WC-3	FE054963.D	22 Jul 2025 16:44		YP\AJ	Ok
13	Q2649-10	WC-3-EPH	FE054964.D	22 Jul 2025 17:14	Surrogate Fail	YP\AJ	ReRun
14	Q2649-13	WC-4	FE054965.D	22 Jul 2025 17:44		YP\AJ	Ok
15	Q2649-14	WC-4-EPH	FE054966.D	22 Jul 2025 18:14		YP\AJ	Ok
16	Q2649-17	WC-5	FE054967.D	22 Jul 2025 18:45		YP\AJ	Ok
17	Q2649-18	WC-5-EPH	FE054968.D	22 Jul 2025 19:15		YP\AJ	Ok,M
18	Q2658-01	PAD-072125-1	FE054969.D	22 Jul 2025 19:45	Need 10X,100X	YP\AJ	Dilution

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072225AL

Review By	yogesh	Review On	7/22/2025 12:29:00 PM
Supervise By	mohammad	Supervise On	7/24/2025 1:25:57 AM
SubDirectory	FE072225AL	HP Acquire Method	HP Processing Method FE062725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC	PP24176		
Internal Standard/PEM	PP24174,PP24179		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2658-02	PAD-072125-2	FE054970.D	22 Jul 2025 20:15	Need 2X	YP\AJ	Dilution
20	Q2660-01	MOO-25-0205	FE054971.D	22 Jul 2025 20:46	Need 5X,200X	YP\AJ	Dilution
21	Q2660-03	MOO-25-0218	FE054972.D	22 Jul 2025 21:16	Need further 5X & 50x	YP\AJ	Dilution
22	I.BLK	I.BLK	FE054973.D	22 Jul 2025 22:16		YP\AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE054974.D	22 Jul 2025 22:46		YP\AJ	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/18/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136542

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
Q2637-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q2637-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q2637-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q2637-10	SVOC-GPC2-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q2637-11	PEST-GPC2-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q2637-12	PEST-GPC2-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q2638-01	OU4-TS-31-071725	7	1.15	10.44	11.59	8.29	68.4	
Q2638-03	OU4-TS-32-071725	8	1.14	10.41	11.55	7.92	65.1	
Q2638-05	OU4-TS-33-071725	9	1.12	10.69	11.81	8.04	64.7	
Q2638-07	OU4-TS-34-071725	10	1.18	10.81	11.99	8.58	68.5	
Q2638-09	OU4-TS-35-071725	11	1.18	10.24	11.42	9.62	82.4	
Q2638-11	OU4-TS-36-071725	12	1.16	10.22	11.38	9.53	81.9	
Q2638-13	OU4-TS-37-071725	13	1.14	10.27	11.41	9.48	81.2	
Q2639-01	OU4-TS-38-071725	14	1.16	10.58	11.74	9.69	80.6	
Q2639-03	OU4-TS-39-071725	15	1.12	10.64	11.76	9.74	81.0	
Q2639-05	OU4-TS-40-071725	16	1.16	10.23	11.39	9.42	80.7	
Q2639-07	OU4-TS-41-071725	17	1.18	10.20	11.38	9.54	82.0	
Q2639-09	OU4-TS-42-071725	18	1.19	10.34	11.53	7.42	60.3	
Q2639-11	OU4-TS-43-071725	19	1.19	10.67	11.86	7.38	58.0	
Q2639-13	OU4-TS-44-071725	20	1.12	10.87	11.99	8.18	64.9	
Q2641-01	P001-CONCRETE001-01	21	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q2645-02	RW5B-CARBON-20250716	22	1.17	10.52	11.69	8.39	68.6	
Q2648-01	A3	23	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-02	A4	24	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-03	B2	25	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-04	B3	26	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2648-05	B4	27	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2651-01	MH 2-1	28	1.18	10.67	11.85	11.26	94.5	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/18/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 07/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136542

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
Q2651-02	MH 6-5	29	1.15	10.40	11.55	10.9	93.8	
Q2651-03	MH 7-6	30	1.12	10.20	11.32	10.7	93.9	
Q2651-04	MH 8-7	31	1.13	10.44	11.57	11.01	94.6	
Q2651-05	MH 9-8	32	1.13	10.27	11.4	10.67	92.9	

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

WORKLIST(Hardcopy Internal Chain)

136542

WorkList Name : %1-071825

WorkList ID : 190813

Department : Wet-Chemistry

Date : 07-18-2025 07:56:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2637-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2637-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2638-01	OU4-TS-31-071725	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/11/2025	Chemtech -SO
Q2638-03	OU4-TS-32-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-05	OU4-TS-33-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-07	OU4-TS-34-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-09	OU4-TS-35-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-11	OU4-TS-36-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2638-13	OU4-TS-37-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2639-01	OU4-TS-38-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O21	07/17/2025	Chemtech -SO
Q2639-03	OU4-TS-39-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-05	OU4-TS-40-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-07	OU4-TS-41-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-09	OU4-TS-42-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-11	OU4-TS-43-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2639-13	OU4-TS-44-071725	Solid	Percent Solids	Cool 4 deg C	NOBI03	O13	07/17/2025	Chemtech -SO
Q2641-01	P001-CONCRETE001-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	O22	07/16/2025	Chemtech -SO

Date/Time 07/18/25 15:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 07/18/25 17:35

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

VB 136542

WorkList Name : %1-071825 WorkList ID : 190813 Department : Wet-Chemistry Date : 07-18-2025 07:56:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2645-02	RW5B-CARBON-20250716	Solid	Percent Solids	Cool 4 deg C	TETR06	O41	07/16/2025	Chemtech -SO
Q2648-01	A3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-02	A4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-03	B2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-04	B3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2648-05	B4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2651-01	MH 2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/18/2025	Chemtech -SO
Q2651-02	MH 6-5	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-03	MH 7-6	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-04	MH 8-7	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO
Q2651-05	MH 9-8	Solid	Percent Solids	Cool 4 deg C	EARTH03	O22	07/17/2025	Chemtech -SO

Date/Time 07/18/25 15:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 07/18/25 17:35
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

SOP ID: MNJDEP-EPH-8

Clean Up SOP #: N/A **Extraction Start Date :** 07/21/2025

Matrix : Solid **Extraction Start Time :** 09:00

Weigh By: EH **Extraction By:** RJ **Extraction End Date :** 07/21/2025

Balance check: RJ **Filter By:** RJ **Extraction End Time :** 13:10

Balance ID: EX-SC-2 **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: N/A **Hood ID:** 3,7 **Supervisor By :** RUPESH

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24728
Surrogate	1.0ML	100 PPM	PP24652
Fractionation Surrogate	1.0ML	100 PPM	PP24673
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	EP2625
Sand	N/A	E3951
Hexane	N/A	E3956
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:

N/A

KD Bath ID: N/A **Envap ID:** NEVIDAP-02

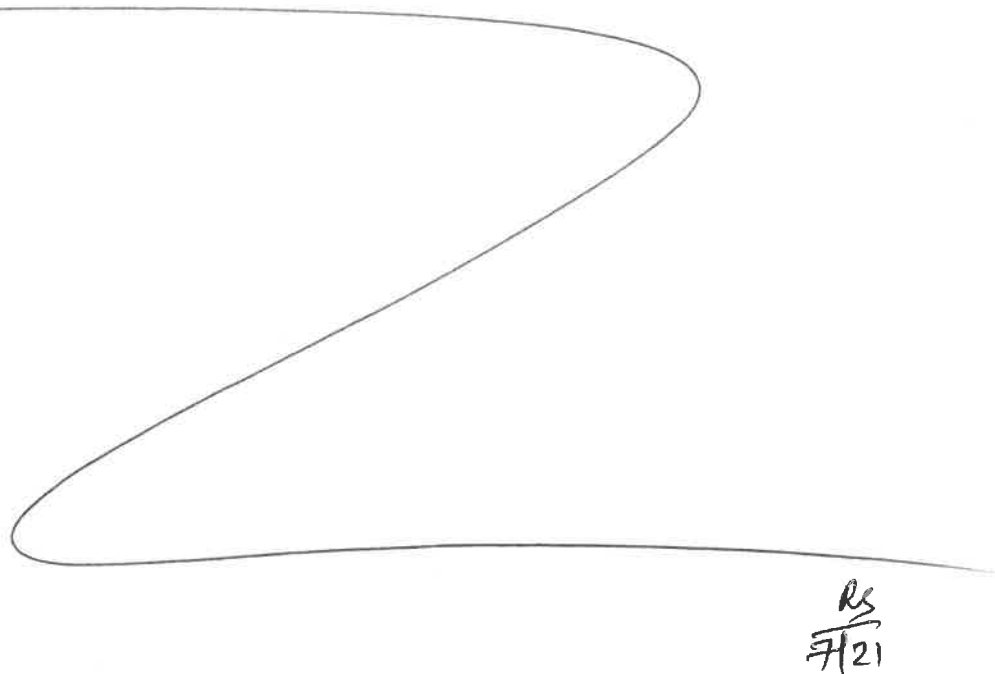
KD Bath Temperature: N/A **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
<u>7/21/25</u>	<u>RS (Ext-geb)</u>	<u>Y-P-PESH/PG.</u>
<u>13:15</u>	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

 Concentration Date: 07/21/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168930BL	PB168930BL	EPH_NF	30.02	N/A	ritesh	Evelyn	2			U2-1
PB168930BS	PB168930BS	EPH_NF	30.01	N/A	ritesh	Evelyn	2			2
PB168930BSD	PB168930BSD	EPH_NF	30.02	N/A	ritesh	Evelyn	2			3
Q2635-01	RT2286	EPH_NF	30.06	N/A	ritesh	Evelyn	2	E		4
Q2635-01DUP	RT2286DUP	EPH_NF	30.08	N/A	ritesh	Evelyn	2	E		5
Q2635-01MS	RT2286MS	EPH_NF	30.03	N/A	ritesh	Evelyn	2	E		6
Q2635-01MSD	RT2286MSD	EPH_NF	30.04	N/A	ritesh	Evelyn	2	E		U3-1
Q2635-02	RT2286-E2	EPH_NF	30.01	N/A	ritesh	Evelyn	2			2
Q2651-01	MH 2-1	EPH_NF	30.09	N/A	ritesh	Evelyn	2	B		3
Q2651-02	MH 6-5	EPH_NF	30.07	N/A	ritesh	Evelyn	2	B		4
Q2651-03	MH 7-6	EPH_NF	30.03	N/A	ritesh	Evelyn	2	B		5
Q2651-04	MH 8-7	EPH_NF	30.06	N/A	ritesh	Evelyn	2	B		6
Q2651-05	MH 9-8	EPH_NF	30.08	N/A	ritesh	Evelyn	2	B		U6-1



RS
7/21

168930
00:00
9:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2651NF WorkList ID : 190843 Department : Extraction Date : 07-21-2025 08:30:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2635-01	RT2286	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	07/17/2025	NJEPH
Q2635-02	RT2286-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	07/17/2025	NJEPH
Q2651-01	MH 2-1	Solid	EPH_NF	Cool 4 deg C	EARTH03	O22	07/17/2025	NJEPH
Q2651-02	MH 6-5	Solid	EPH_NF	Cool 4 deg C	EARTH03	O22	07/17/2025	NJEPH
Q2651-03	MH 7-6	Solid	EPH_NF	Cool 4 deg C	EARTH03	O22	07/17/2025	NJEPH
Q2651-04	MH 8-7	Solid	EPH_NF	Cool 4 deg C	EARTH03	O22	07/17/2025	NJEPH
Q2651-05	MH 9-8	Solid	EPH_NF	Cool 4 deg C	EARTH03	O22	07/17/2025	NJEPH

Date/Time 07/21/25 8:53
Raw Sample Received by: R.S. CLETT- (066)
Raw Sample Relinquished by: OP S

Date/Time 07/21/25 9:15
Raw Sample Received by: OP S
Raw Sample Relinquished by: R.S. CLETT- (066)

Prep Standard - Chemical Standard Summary

Order ID : Q2651

Test : EPH_NF

Prepbatch ID : PB168930,

Sequence ID/Qc Batch ID: FE072125AL,FE072225AL,

Standard ID :

EP2625,EP2626,PP24170,PP24174,PP24175,PP24176,PP24177,PP24178,PP24179,PP24652,PP24673,PP24728,

Chemical ID :

E3551,E3940,E3947,E3949,E3951,E3954,E3956,P12363,P12981,P12983,P13279,P13609,P13610,P13611,P13612,P13650,P13671,P13682,P13683,P13684,P13686,P14000,P14001,P14002,P14003,P14004,P14022,P14023,P14024,P14025,P14026,P14046,P14047,P14048,P14049,W3177,

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>
3923	Baked Sodium Sulfate	EP2625	07/15/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 07/15/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<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

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>
781	100 PPM Aliphatic HC Working STD (Restek)	PP24170	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.25000ml of P12981 + 0.25000ml of P13671 + 1.25000ml of P12363 + 23.25000ml of W3177 = 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>
2900	100 PPM Aliphatic HC STD (Absolute)	PP24174	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.25000ml of P12983 + 0.25000ml of P13650 + 2.50000ml of P13279 + 22.00000ml of W3177 = 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>
783	50 PPM Aliphatic HC STD	PP24175	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24170 = 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>
784	20 PPM Aliphatic HC STD	PP24176	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.80000ml of W3177 + 0.20000ml of PP24170 = 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>
785	10 PPM Aliphatic HC STD	PP24177	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24170 = 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>
786	5 PPM Aliphatic HC STD	PP24178	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24175 = 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>
2901	20 PPM Aliphatic HC STD ICV (Absolute)	PP24179	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.80000ml of W3177 + 0.20000ml of PP24174 = 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



<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	PP24673	06/30/2025	12/30/2025	Abdul Mirza	None	None	Yogesh Patel 07/21/2025
<u>FROM</u> 1.25000ml of P14046 + 1.25000ml of P14047 + 1.25000ml of P14048 + 1.25000ml of P14049 + 195.00000ml of E3947 = Final Quantity: 200.000 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>
1330	100 PPM NJEPH Spike Solution	PP24728	07/14/2025	01/14/2026	Abdul Mirza	None	None	Yogesh Patel 07/21/2025
<u>FROM</u>	5.00000ml of P14000 + 5.00000ml of P14001 + 5.00000ml of P14002 + 5.00000ml of P14003 + 5.00000ml of P14004 + 5.00000ml of P14022 + 5.00000ml of P14023 + 5.00000ml of P14024 + 5.00000ml of P14025 + 5.00000ml of P14026 = Final Quantity: 50.000 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	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	11/07/2029	06/26/2025 / RUPESH	06/19/2025 / RUPESH	E3947

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 #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	08/03/2025	02/03/2025 / yogesh	03/16/2023 / Yogesh	P12363

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	08/03/2025	02/03/2025 / yogesh	12/20/2023 / Yogesh	P12981

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	08/03/2025	02/03/2025 / yogesh	12/20/2023 / Yogesh	P12983

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	08/03/2025	02/03/2025 / yogesh	04/11/2024 / yogesh	P13279

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

CHEMICAL RECEIPT LOG BOOK

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	31097 / o-Terphenyl Standard	A0216631	08/03/2025	02/03/2025 / yogesh	10/16/2024 / yogesh	P13650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	08/03/2025	02/03/2025 / yogesh	10/16/2024 / yogesh	P13671

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

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	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

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14000

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14001

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14002

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14003

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14004

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14022

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14023

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14024

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14025

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	01/14/2026	07/14/2025 / Abdul	05/20/2025 / Rahul	P14026

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	12/30/2025	06/30/2025 / Abdul	06/09/2025 / anahy	P14046

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	03/31/2031	06/30/2025 / Abdul	06/09/2025 / anahy	P14047

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	12/30/2025	06/30/2025 / Abdul	06/09/2025 / anahy	P14048

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	12/30/2025	06/30/2025 / Abdul	06/09/2025 / anahy	P14049

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)	24G1962003	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
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:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
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%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
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%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
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.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

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

Recd by RP on 6/11/25

E3940

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

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT - 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	11/07/2024
Lot Number	243570		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Nov/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	69
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.669
EVAPORATION RESIDUE	ppm	<= 1	<1
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.74
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.17
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.05
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.379
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Recd on 6/19/25

E3947

Harout Sahagian

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
 If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

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

Reed 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_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	<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

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantorsTM**



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



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)

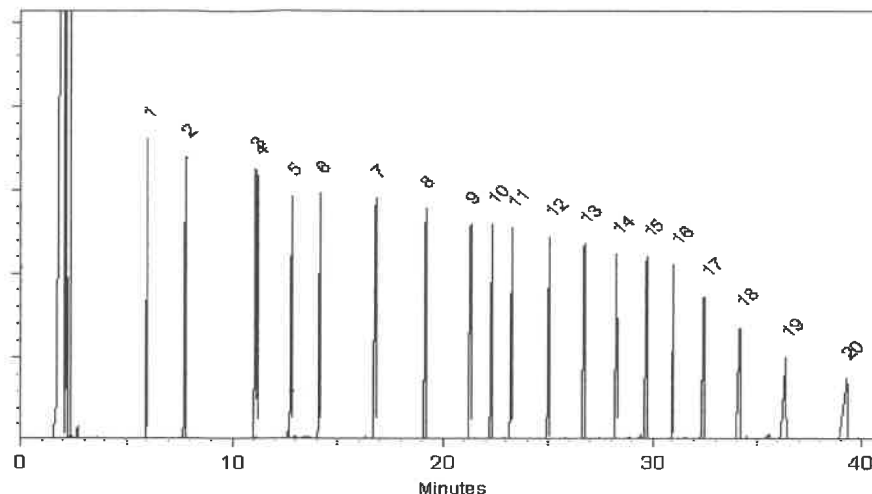
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.



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.: 31098 **Lot No.:** A0204989
Description: 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size: 2 mL **Pkg Amt:** > 1 mL
Expiration Date: January 31, 2031 **Storage:** 10°C or colder
Ship: Ambient

P12960
↓
P12991 } Y.P.
12/21/2023

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	14738400	99%	10,097.3 µg/mL	+/- 567.2675

* 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:

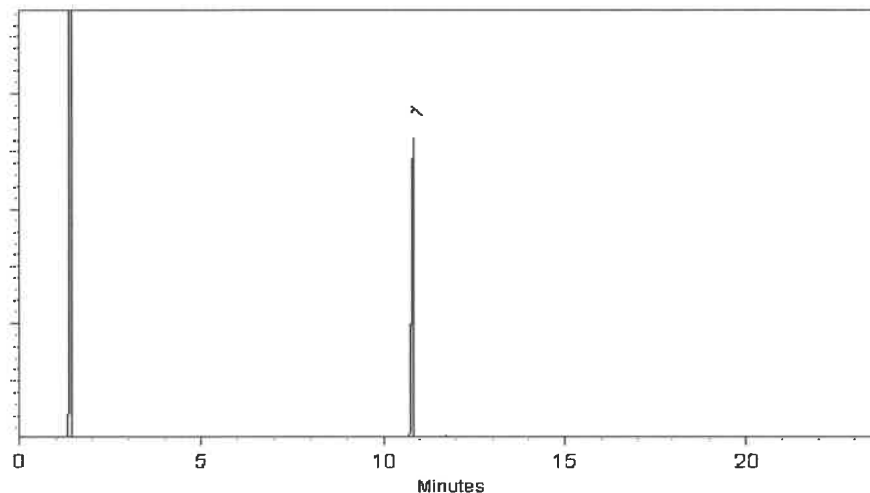
FID

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.

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023

Balance Serial # B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

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.



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.: 31098 **Lot No.:** A0204989

Description: 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size: 2 mL **Pkg Amt:** > 1 mL

Expiration Date: January 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P12960
↓
P12991 } Y.P.
12/21/2023

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	14738400	99%	10,097.3 µg/mL	+/- 567.2675

* 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:

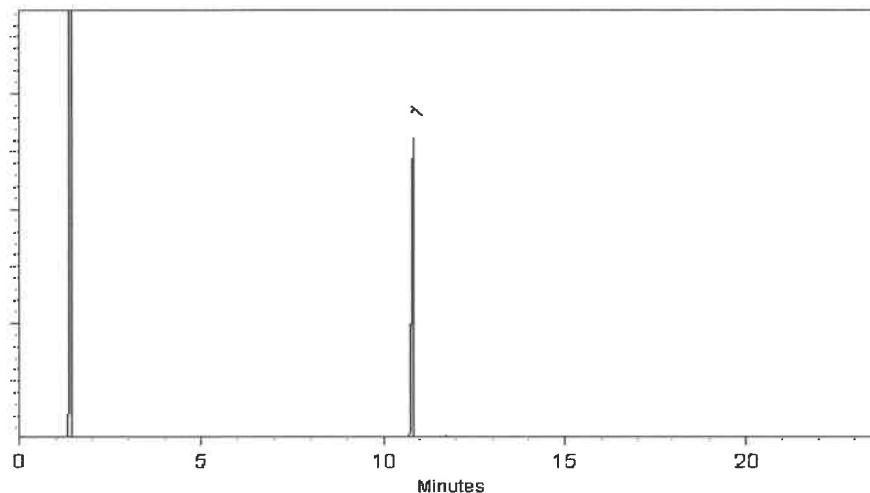
FID

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.

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023

Balance Serial # B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

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%.

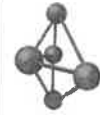
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

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.



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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	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	NA	0.013	NA	NA	1000.8	4.2	630-08-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	NA	0.013	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	NA	0.013	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).



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. : 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:

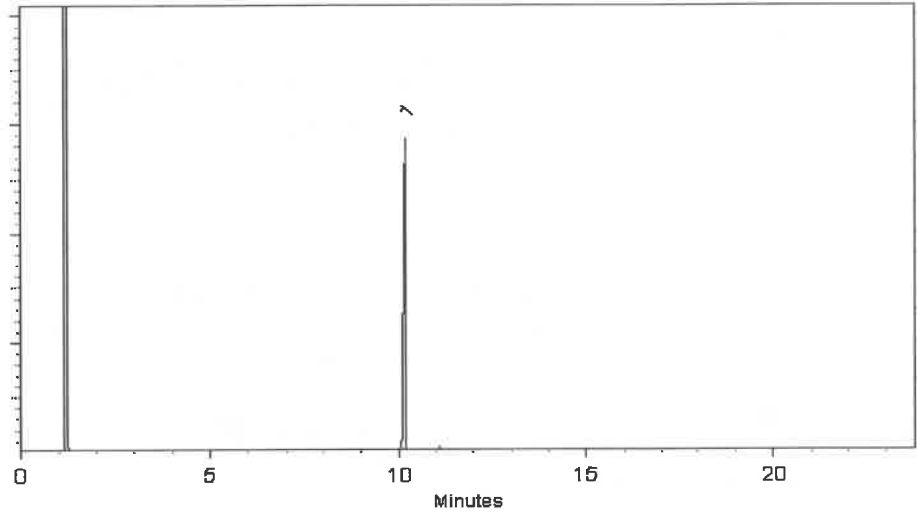
FID

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.



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. : 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:

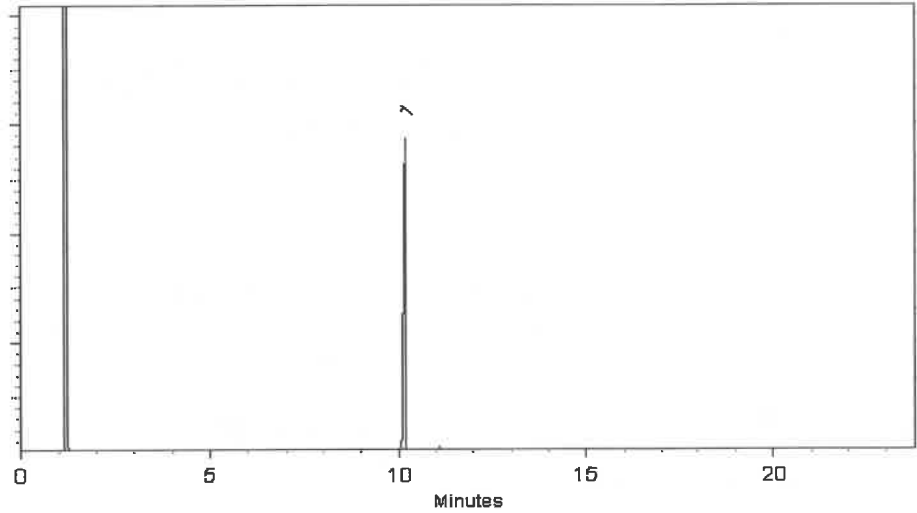
FID

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.



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. : 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:

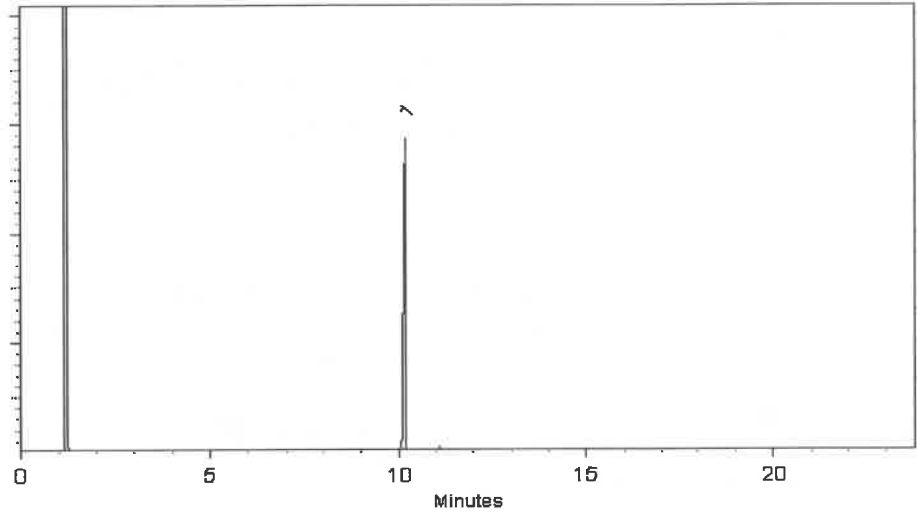
FID

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.



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. : 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:

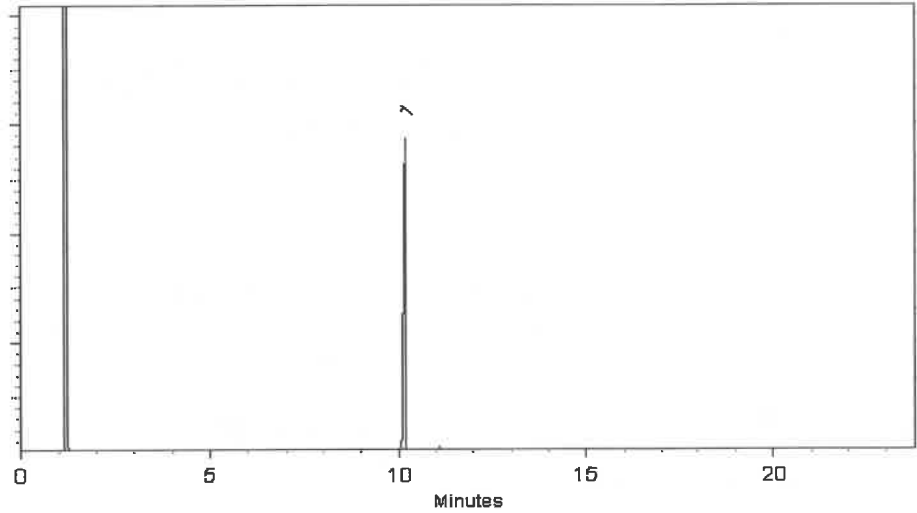
FID

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.



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. : 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:

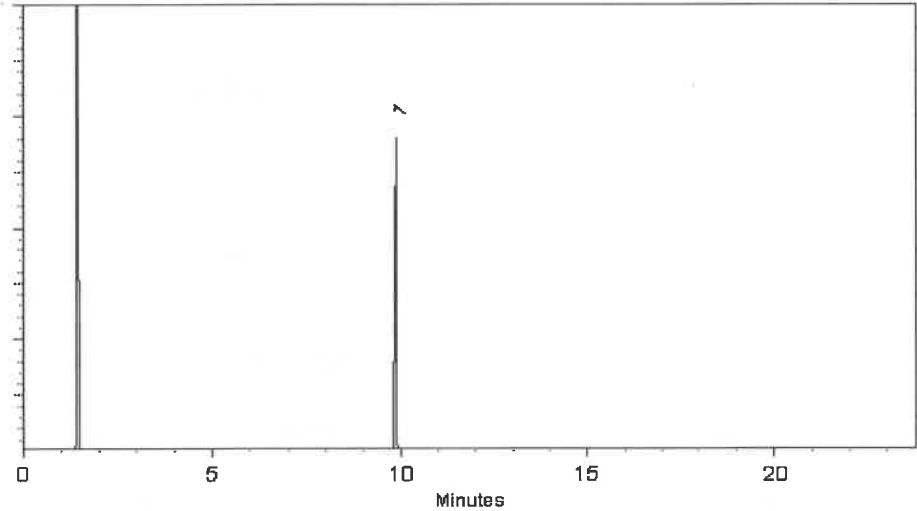
FID

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.



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. : 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:

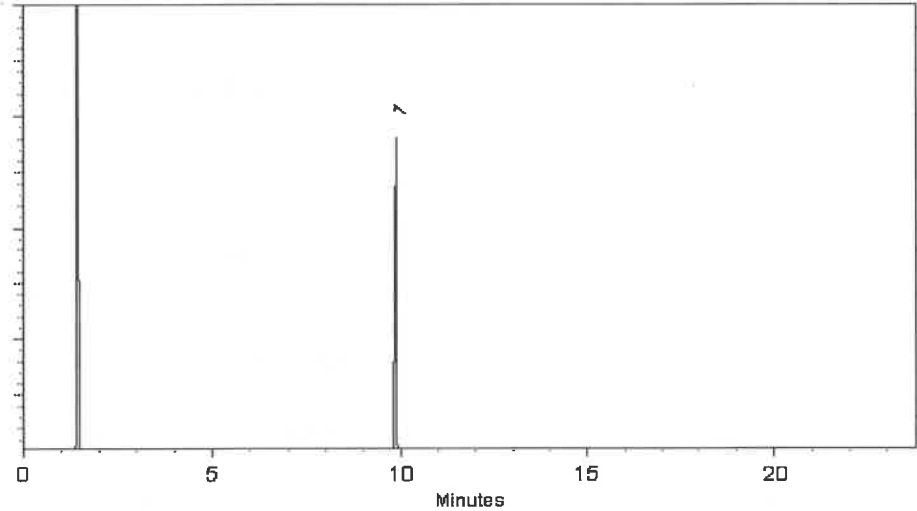
FID

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.



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. : 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:

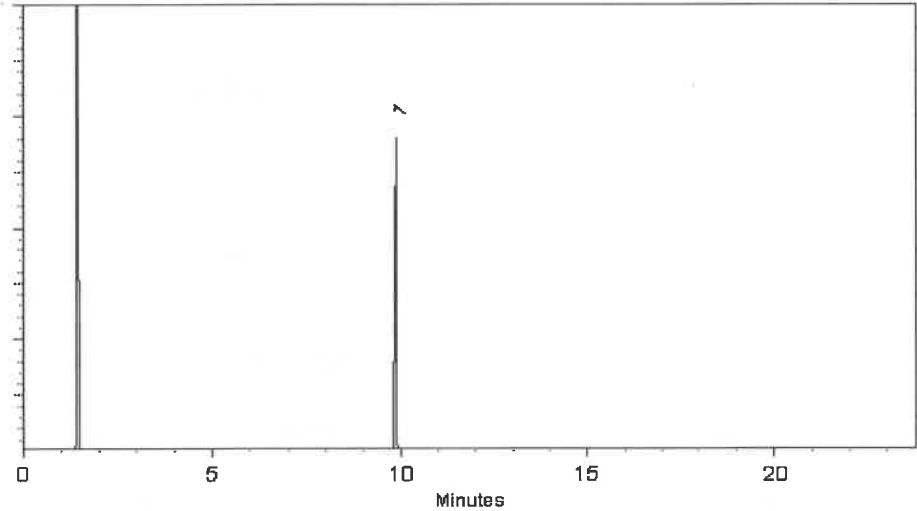
FID

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.



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. : 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:

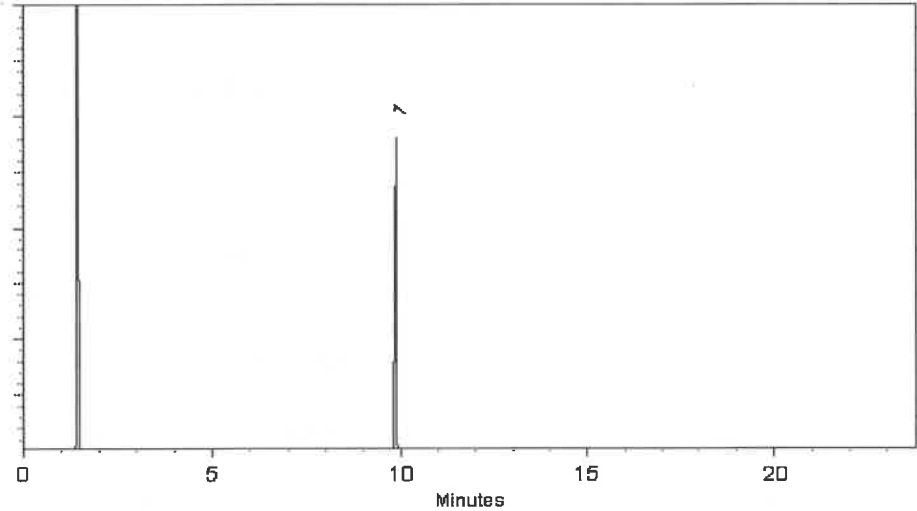
FID

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.



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. : 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:

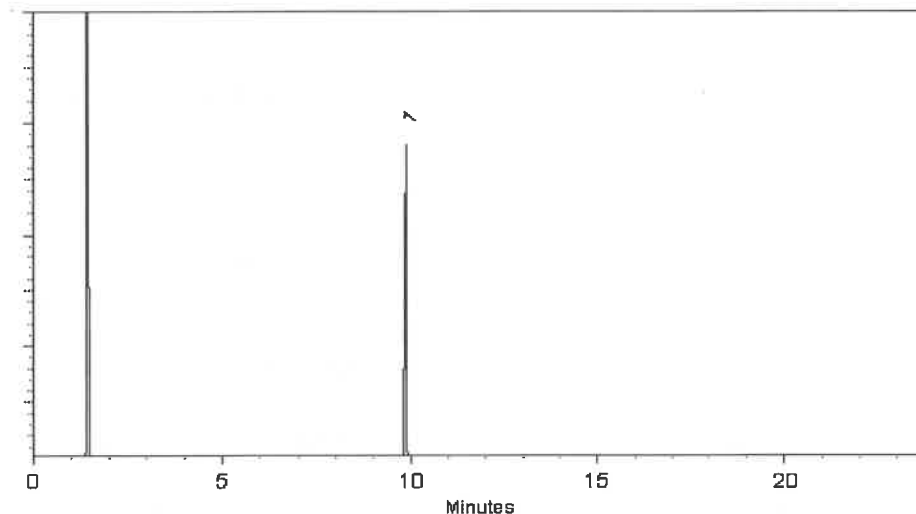
FID

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.
- 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.



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. : 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:

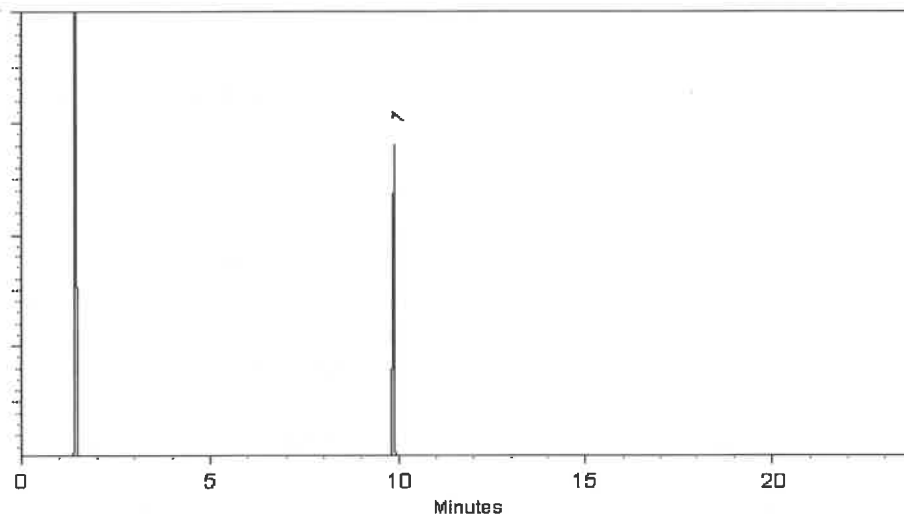
FID

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.



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. : 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

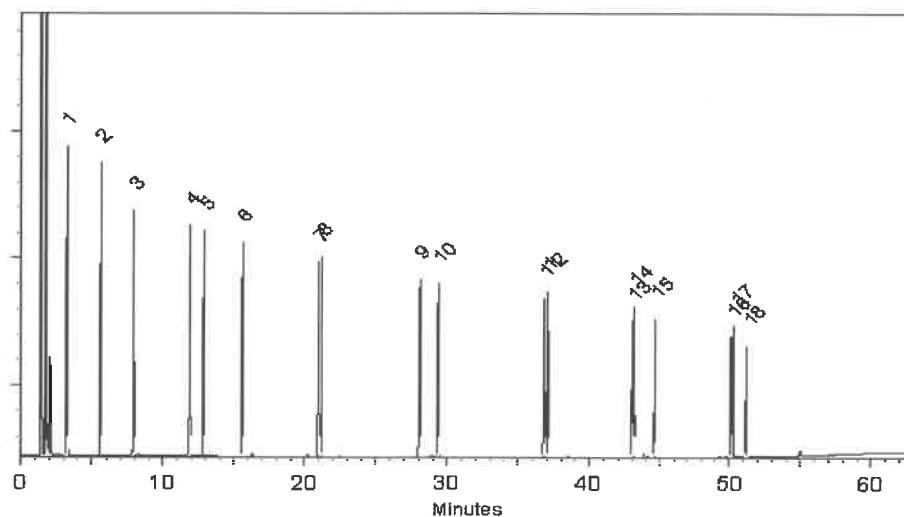
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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



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. : 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.)

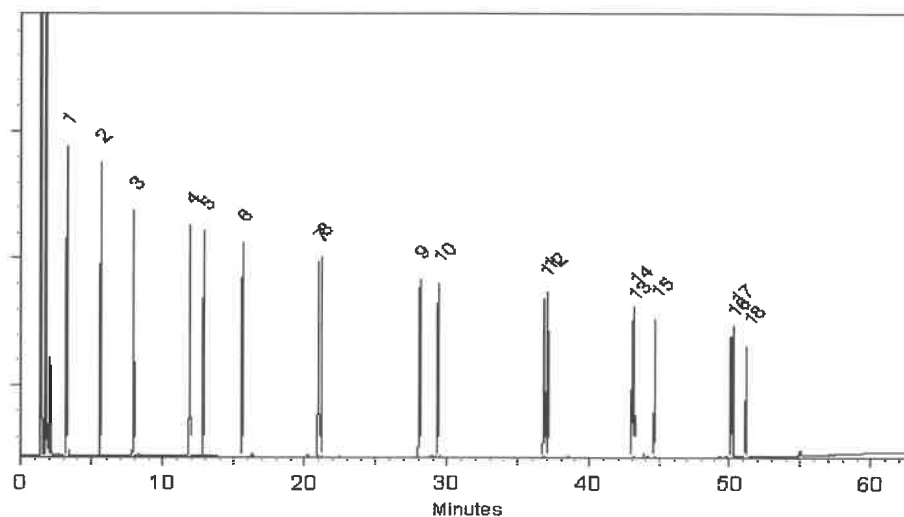
Inj. Temp:
250°C

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



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. : 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.)

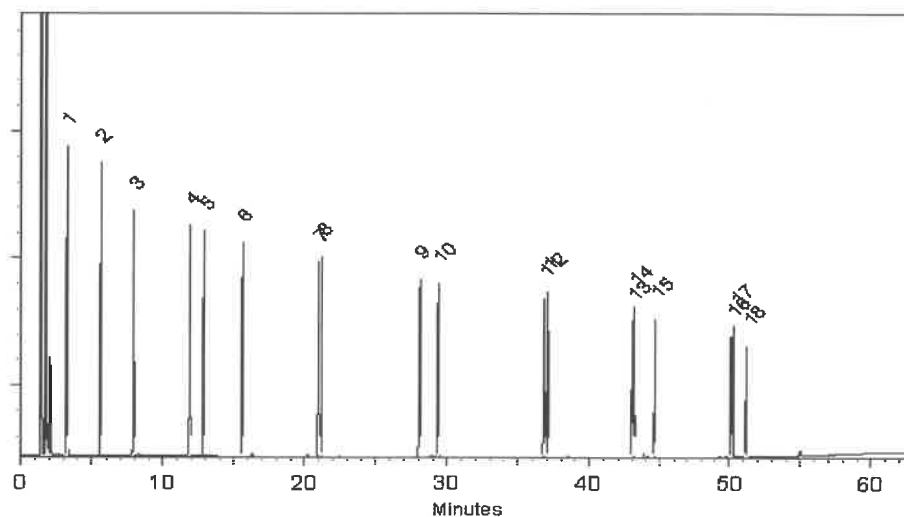
Inj. Temp:
250°C

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



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. : 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

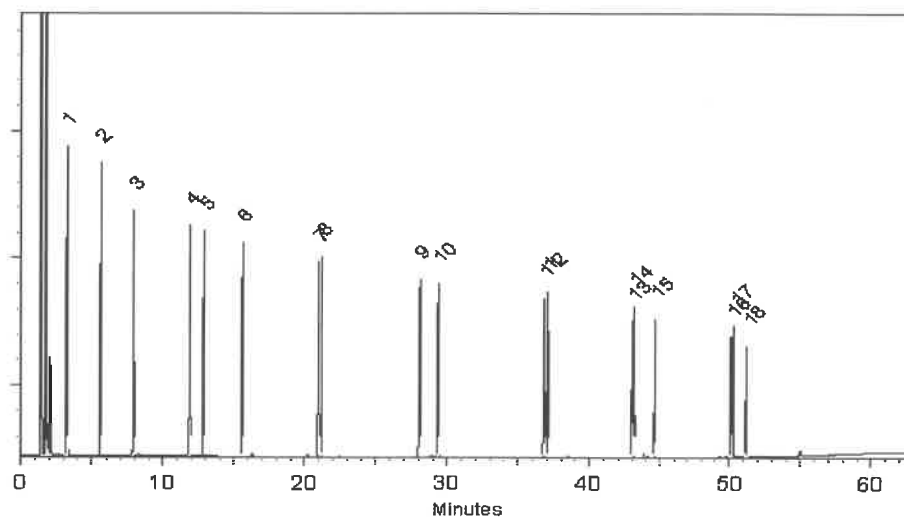
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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



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. : 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.)

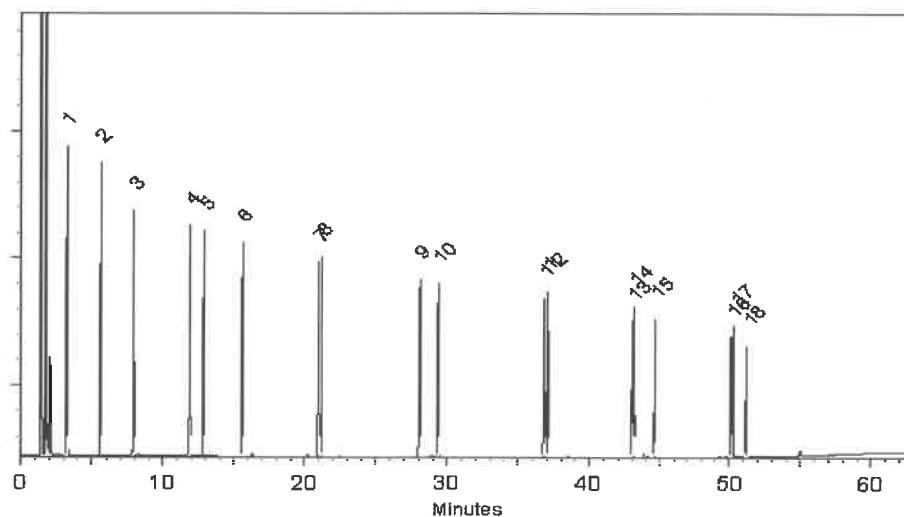
Inj. Temp:
250°C

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



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

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.)

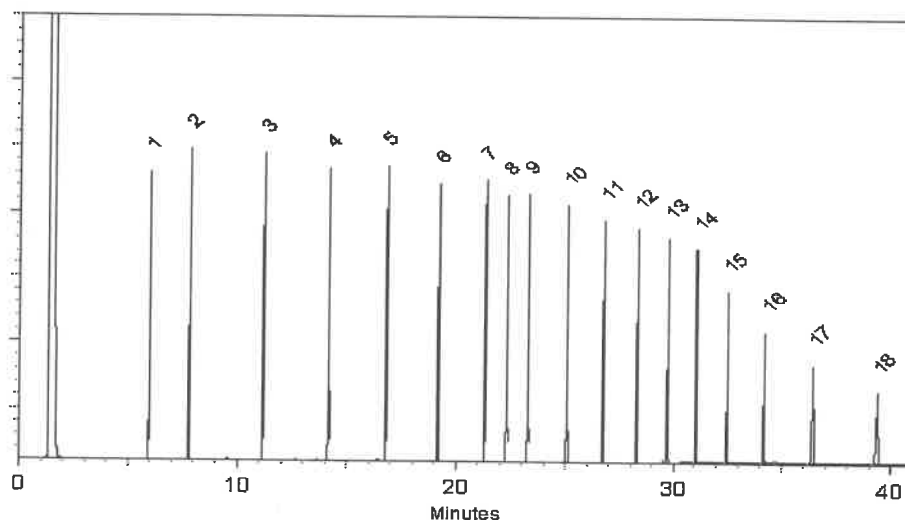
Inj. Temp:
250°C

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



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

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:

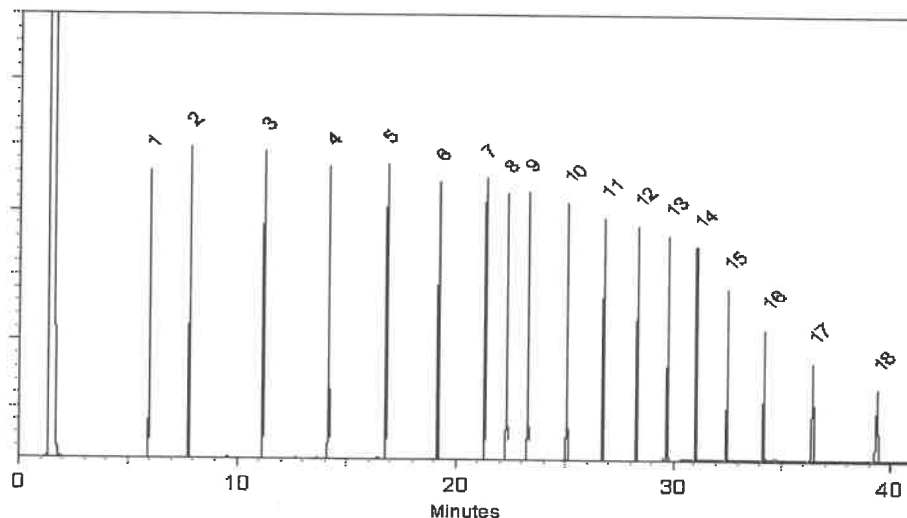
FID

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



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

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:

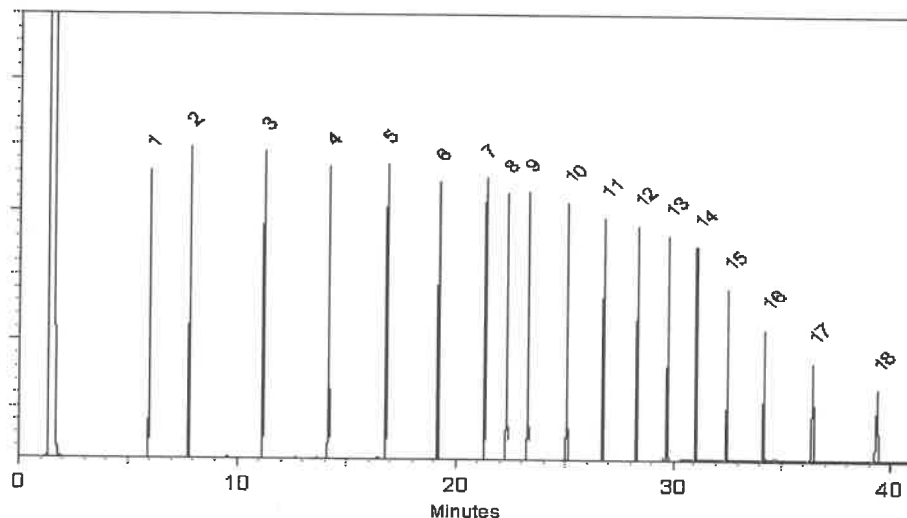
FID

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



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

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:

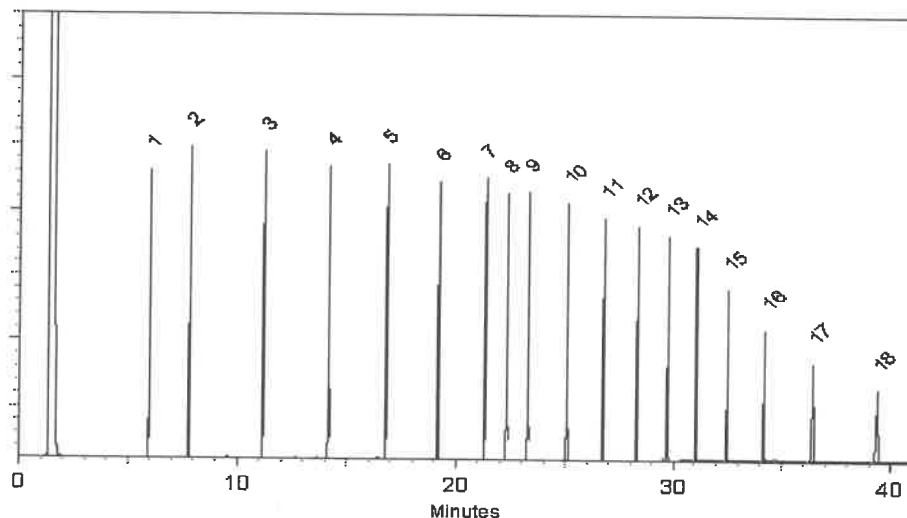
FID

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



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

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:

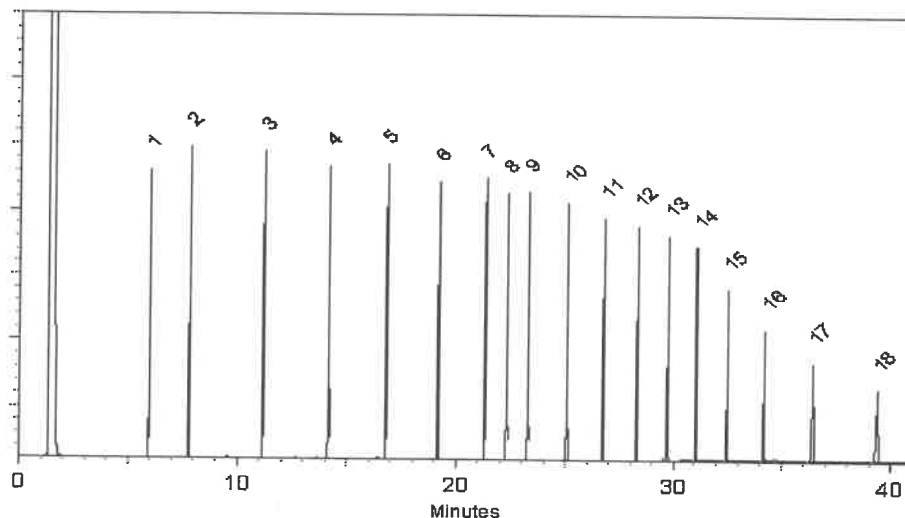
FID

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



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. : 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%



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. : 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%



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. : 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%



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. : 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%

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Earth Engineering Inc
ADDRESS: 403 Commerce Lane
CITY West Berlin STATE: NJ ZIP: 08091
ATTENTION: Frank Dougherty
PHONE: 856-768-1001 FAX:

PROJECT NAME: Leon Avenue
PROJECT NO.: 38642 LOCATION: NJ
PROJECT MANAGER: Frank Dougherty
e-mail: frankd@earthengineering.com
PHONE: FAX:

BILL TO: Same PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:
ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. TCL+30/TAL
2. EPH
3.
4.
5.
6.
7.
8.
9.

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	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	MH 2-1	So.1		X	7/17/25	9:20	2	X	X									
2.	MH 6-5			X		9:55	2	X	X									
3.	MH 7-6			X		10:30	2	X	X									
4.	MH 8-7			X		10:50	2	X	X									
5.	MH 9-8			X		11:30	2	X	X									
6.																		
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER: <u>[Signature]</u>	DATE/TIME: <u>7-18-2025</u>	RECEIVED BY: <u>[Signature]</u>	7/18/25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP <u>1-8°C</u>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		Comments:
2.		2.		
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
3.		3.		

Page 1 of 1 CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2651	EARTH03	Order Date : 7/18/2025 2:29:11 PM	Project Mgr :
Client Name : Earth Engineering Inc.		Project Name : Leon Avenue 38648	Report Type : Level 1
Client Contact : Frank Dougherty, LSRP		Receive DateTime : 7/18/2025 1:40:00 PM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Earth Engineering Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Frank Dougherty, LSRP			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2651-01	MH 2-1	Solid	07/17/2025	09:20					
					VOC-TCLVOA-10	TCL+30/TAL	8260D	5 Bus. Days	
Q2651-02	MH 6-5	Solid	07/17/2025	09:55					
					VOC-TCLVOA-10	TCL+30/TAL	8260D	5 Bus. Days	
Q2651-03	MH 7-6	Solid	07/17/2025	10:30					
					VOC-TCLVOA-10	TCL+30/TAL	8260D	5 Bus. Days	
Q2651-04	MH 8-7	Solid	07/17/2025	10:50					
					VOC-TCLVOA-10	TCL+30/TAL	8260D	5 Bus. Days	
Q2651-05	MH 9-8	Solid	07/17/2025	11:30					
					VOC-TCLVOA-10	TCL+30/TAL	8260D	5 Bus. Days	

Relinquished By :

Date / Time :

CP
7/18/25 15:15

Received By :

Date / Time :

Sam
07/18/25 15:15 *Rgh*
PZ2

Storage Area : VOA Refridgerator Room