

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

LAB CHRONICLE

OrderID: Q2705	OrderDate: 7/25/2025 1:02:24 PM
Client: G Environmental	Project: Freehold
Contact: Gary Landis	Location: D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2705-01	FG1A	Solid	EPH_NF	NJEPH	07/25/25	07/28/25	07/28/25	07/25/25
Q2705-01DL	FG1ADL	Solid	EPH_NF	NJEPH	07/25/25	07/28/25	07/29/25	07/25/25
Q2705-02	FG1B	Solid	EPH_NF	NJEPH	07/25/25	07/28/25	07/28/25	07/25/25



QC SUMMARY



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

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: GENV01
Lab Code: ACE SDG No.: Q2705
Run Number: FC072825AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB169021BL	77	76		0
PB169021BS	71	70		0
PB169021BSD	71	69		0
RT-5417MS	74	71		0
RT-5417MSD	78	74		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: GENV01
 Lab Code: ACE SDG No.: Q2705
 Run Number: FE072825AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
FG1A	60	57		0
FG1B	75	71		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: GENV01
Lab Code: ACE SDG No.: Q2705
Run Number: FE072925AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)	TOT OUT
FGIADL	60	58	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

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>G Environmental</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2705</u>
Sample No :	<u>Q2706-01MS</u>	Datafile:	<u>FC069552.D</u>
		Client ID :	<u>RT-5417MS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	32.5	11.6	42.5	95		(40-140)
Aliphatic C9-C28	108.3	4.26	84.7	74		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
n-Nonane (C9)	3.6	0.0000	2.0617	57		(40-140)
n-Decane (C10)	3.6	0.0000	4.7365	132		(40-140)
Naphthalene (C11.7)	3.6	0.0000	2.5249	70		(40-140)
n-Dodecane (C12)	3.6	0.0000	2.4044	67		(40-140)
2-methylnaphthalene (C12.89)	3.6	0.0000	2.4756	69		(40-140)
n-Tetradecane (C14)	3.6	0.0000	2.5658	71		(40-140)
n-Hexadecane (C16)	3.6	0.0000	2.6552	74		(40-140)
n-Octadecane (C18)	3.6	0.0000	2.7632	77		(40-140)
n-Eicosane (C20)	3.6	0.0000	3.0225	84		(40-140)
n-Heneicosane (C21)	3.6	0.0000	2.9652	82		(40-140)
n-Docosane (C22)	3.6	0.0000	2.9739	83		(40-140)
n-Tetracosane (C24)	7.2	0.0000	9.0512	126		(40-140)
n-Hexacosane (C26)	3.6	0.0000	3.0021	83		(40-140)
n-Octacosane (C28)	3.6	0.0000	3.1499	87		(40-140)
n-Tricontane (C30)	3.6	0.0000	3.0471	85		(40-140)
n-Dotriacontane (C32)	3.6	0.0000	3.1301	87		(40-140)
n-Tetratriacontane (C34)	3.6	0.0000	3.5669	99		(40-140)
n-Hexatriacontane (C36)	3.6	0.0000	4.5623	127		(40-140)
n-Octatriacontane (C38)	3.6	0.0000	4.4430	123		(40-140)
n-Tetracontane (C40)	3.6	0.0000	3.8391	107		(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>G Environmental</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2705</u>
Sample No :	<u>Q2706-01MSD</u>	Datafile:	<u>FC069553.D</u>
		Client ID :	<u>RT-5417MSD</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	32.5	11.6	44.2	100		4.92 (40-140) 50
Aliphatic C9-C28	108.4	4.26	83.8	73		1.2 (40-140) 50

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
n-Nonane (C9)	3.6	0.0000	2.1669	60		5.13 (40-140) 50
n-Decane (C10)	3.6	0.0000	4.9770	138		4.44 (40-140) 50
Naphthalene (C11.7)	3.6	0.0000	2.6530	74		5.56 (40-140) 50
n-Dodecane (C12)	3.6	0.0000	2.5323	70		4.38 (40-140) 50
2-methylnaphthalene (C12.89)	3.6	0.0000	2.6024	72		4.26 (40-140) 50
n-Tetradecane (C14)	3.6	0.0000	2.7082	75		5.48 (40-140) 50
n-Hexadecane (C16)	3.6	0.0000	2.8009	78		5.26 (40-140) 50
n-Octadecane (C18)	3.6	0.0000	2.9129	81		5.06 (40-140) 50
n-Eicosane (C20)	3.6	0.0000	3.1817	88		4.65 (40-140) 50
n-Heneicosane (C21)	3.6	0.0000	3.1180	87		5.92 (40-140) 50
n-Docosane (C22)	3.6	0.0000	3.1278	87		4.71 (40-140) 50
n-Tetracosane (C24)	7.2	0.0000	9.5039	132		4.65 (40-140) 50
n-Hexacosane (C26)	3.6	0.0000	3.1535	88		5.85 (40-140) 50
n-Octacosane (C28)	3.6	0.0000	3.3107	92		5.59 (40-140) 50
n-Tricontane (C30)	3.6	0.0000	3.2064	89		4.6 (40-140) 50
n-Dotriacontane (C32)	3.6	0.0000	3.2961	92		5.59 (40-140) 50
n-Tetratriacontane (C34)	3.6	0.0000	3.7597	104		4.93 (40-140) 50
n-Hexatriacontane (C36)	3.6	0.0000	4.2695	119		6.5 (40-140) 50
n-Octatriacontane (C38)	3.6	0.0000	4.6073	128		3.98 (40-140) 50
n-Tetracontane (C40)	3.6	0.0000	4.0645	113		5.45 (40-140) 50

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>G Environmental</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q2705</u>
Sample No :	<u>PB169021BS</u>	Datafile:	<u>FC069548.D</u>
		Client ID :	<u>PB169021BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	30.0	28.2	94		(40-140)
Aliphatic C9-C28	99.9	64.4	65		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
n-Nonane (C9)	3.3	2.23548	68		(40-140)
n-Decane (C10)	3.3	2.36555	72		(40-140)
Naphthalene (C11.7)	3.3	2.50610	76		(40-140)
n-Dodecane (C12)	3.3	2.42268	73		(40-140)
2-methylnaphthalene (C12.89)	3.3	2.38445	72		(40-140)
n-Tetradecane (C14)	3.3	2.37335	72		(40-140)
n-Hexadecane (C16)	3.3	2.29928	70		(40-140)
n-Octadecane (C18)	3.3	2.24546	68		(40-140)
n-Eicosane (C20)	3.3	2.38834	72		(40-140)
n-Heneicosane (C21)	3.3	2.32871	71		(40-140)
n-Docosane (C22)	3.3	2.32043	70		(40-140)
n-Tetracosane (C24)	6.7	4.66879	70		(40-140)
n-Hexacosane (C26)	3.3	2.33445	71		(40-140)
n-Octacosane (C28)	3.3	2.35295	71		(40-140)
n-Tricontane (C30)	3.3	2.39708	73		(40-140)
n-Dotriacontane (C32)	3.3	2.54396	77		(40-140)
n-Tetratriacontane (C34)	3.3	3.01221	91		(40-140)
n-Hexatriacontane (C36)	3.3	3.43544	104		(40-140)
n-Octatriacontane (C38)	3.3	3.91943	119		(40-140)
n-Tetracontane (C40)	3.3	4.05848	123		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental
Lab Code: ACE **SDG No:** Q2705
Sample No : PB169021BSD **Datafile:** FC069549.D **Client ID :** PB169021BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
Aliphatic C28-C40	30.0	28.1	94		0.395 (40-140) 25
Aliphatic C9-C28	99.9	63.4	64		1.8 (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	2.15552	65		4.51 (40-140) 25
n-Decane (C10)	3.3	2.27866	69		4.26 (40-140) 25
Naphthalene (C11.7)	3.3	2.43995	74		2.67 (40-140) 25
n-Dodecane (C12)	3.3	2.33941	71		2.78 (40-140) 25
2-methylnaphthalene (C12.89)	3.3	2.32983	71		1.4 (40-140) 25
n-Tetradecane (C14)	3.3	2.30509	70		2.82 (40-140) 25
n-Hexadecane (C16)	3.3	2.24806	68		2.9 (40-140) 25
n-Octadecane (C18)	3.3	2.20619	67		1.48 (40-140) 25
n-Eicosane (C20)	3.3	2.35874	71		1.4 (40-140) 25
n-Heneicosane (C21)	3.3	2.30398	70		1.42 (40-140) 25
n-Docosane (C22)	3.3	2.29907	70		0 (40-140) 25
n-Tetracosane (C24)	6.7	4.64461	69		1.44 (40-140) 25
n-Hexacosane (C26)	3.3	2.32273	70		1.42 (40-140) 25
n-Octacosane (C28)	3.3	2.34579	71		0 (40-140) 25
n-Tricontane (C30)	3.3	2.39375	73		0 (40-140) 25
n-Dotriacontane (C32)	3.3	2.54370	77		0 (40-140) 25
n-Tetratriacontane (C34)	3.3	3.00029	91		0 (40-140) 25
n-Hexatriacontane (C36)	3.3	3.42041	104		0 (40-140) 25
n-Octatriacontane (C38)	3.3	3.89877	118		0.84 (40-140) 25
n-Tetracontane (C40)	3.3	4.00216	121		1.64 (40-140) 25

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169021BL

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2705

Instrument ID: FID_C

Lab Sample ID: PB169021BL

Matrix: (soil/water) Solid

Date Extracted: 7/28/2025 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
PB169021BS	PB169021BS
PB169021BSD	PB169021BSD
FG1A	Q2705-01
FG1B	Q2705-02
RT-5417MS	Q2706-01MS
RT-5417MSD	Q2706-01MSD

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	07/25/25
Project:	Freehold	Date Received:	07/25/25
Client Sample ID:	FG1A	SDG No.:	Q2705
Lab Sample ID:	Q2705-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.3
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
07/28/25 09:00	07/29/25 11:39	PB169021

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	54.4		2	2.58	4.37	mg/kg	FE055063.D
Aliphatic C9-C28	Aliphatic C9-C28	2.62	J	1	0.99	4.37	mg/kg	FE055051.D
Total AliphaticEPH	Total AliphaticEPH	57.0			3.57	8.74	mg/kg	
Total EPH	Total EPH	57.0			3.57	8.74	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:	G Environmental	Date Collected:	07/25/25
Project:	Freehold	Date Received:	07/25/25
Client Sample ID:	FG1A	SDG No.:	Q2705
Lab Sample ID:	Q2705-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.3
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055051.D	1	07/28/25	07/28/25	PB169021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.62	J	0.99	4.37	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	55.6	E	1.29	2.19	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.8		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.6		40 - 140	57%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2705-01	Acq On:	28 Jul 2025 16:50
Client Sample ID:	FG1A	Operator:	YP\AJ
Data file:	FE055051.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.324	6.959	404757	3.265	300	ug/ml
Aliphatic C12-C16	6.960	10.413	1013613	7.626	200	ug/ml
Aliphatic C16-C21	10.414	13.792	1169776	8.92	300	ug/ml
Aliphatic C21-C28	13.793	17.462	2018560	16.18	400	ug/ml
Aliphatic C28-C40	17.463	22.490	91893567	762.673	600	ug/ml
Aliphatic EPH	3.324	22.490	96500273	798.664		ug/ml
ortho-Terphenyl (SURR)	12.091	12.091	4230434	28.58		ug/ml
1-chlorooctadecane (SURR)	13.527	13.527	3339559	29.82		ug/ml
Aliphatic C9-C28	3.324	17.462	4606706	35.991	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
 Data File : FE055051.D
 Signal(s) : FID1B.ch
 Acq On : 28 Jul 2025 16:50
 Operator : YP\AJ
 Sample : Q2705-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 FG1A

Integration File: sample.E
 Quant Time: Jul 29 02:39:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:55:28 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	4230434	28.580 ug/ml
Spiked Amount 50.000		Recovery =	57.16%
12) S 1-chlorooctadecane (S...	13.527	3339559	29.822 ug/ml
Spiked Amount 50.000		Recovery =	59.64%

Target Compounds

(f)=RT Delta > 1/2 Window

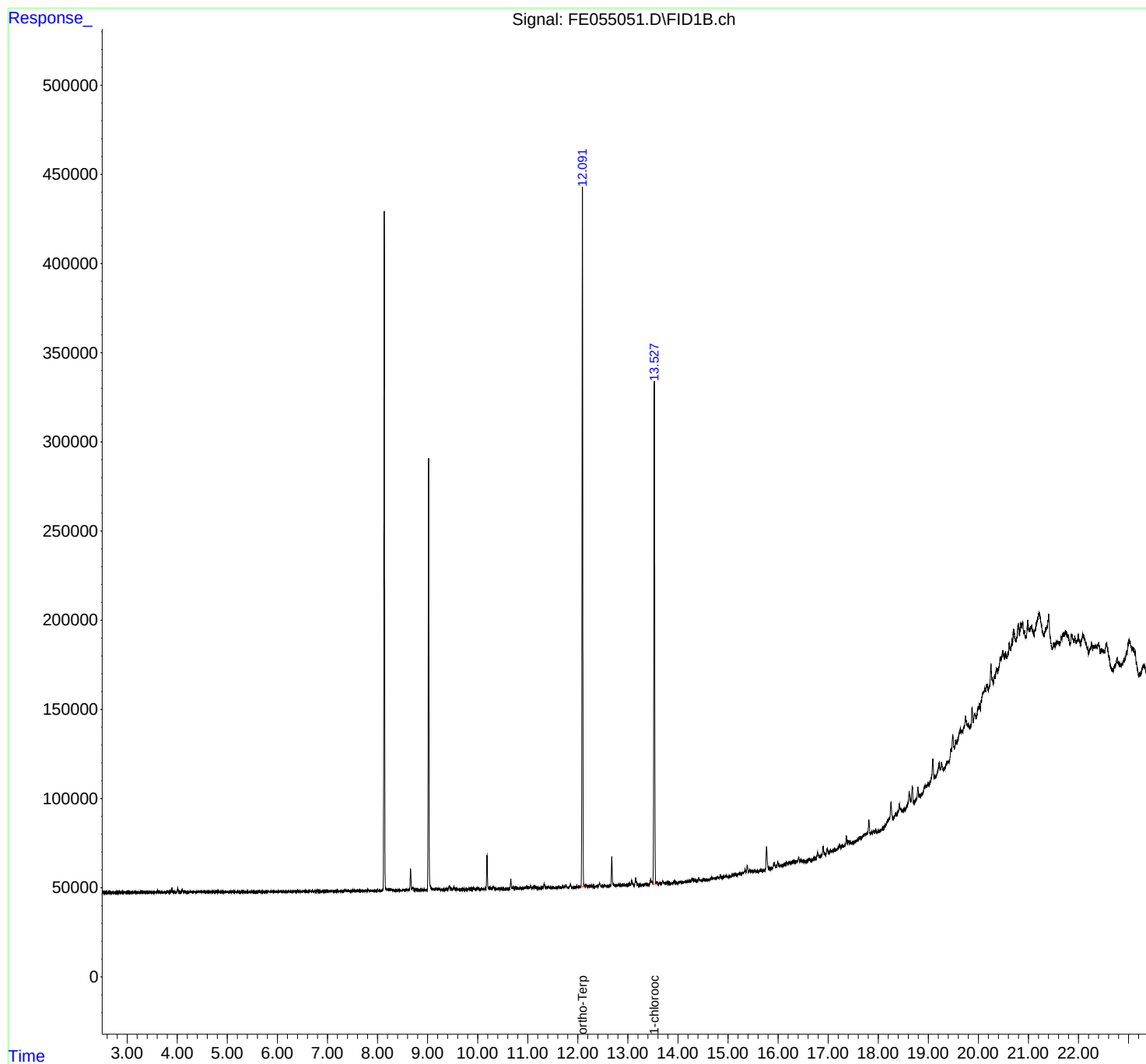
(m)=manual int.

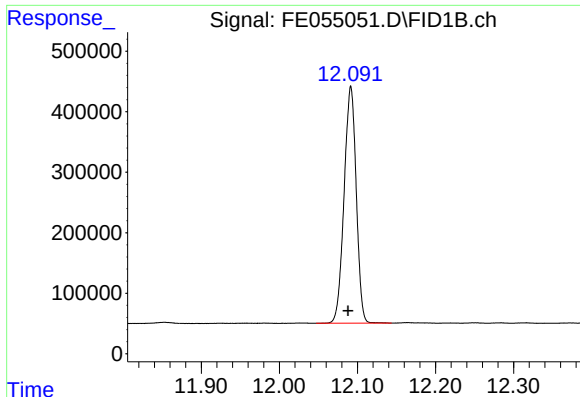
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
Data File : FE055051.D
Signal(s) : FID1B.ch
Acq On : 28 Jul 2025 16:50
Operator : YP\AJ
Sample : Q2705-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
FG1A

Integration File: sample.E
Quant Time: Jul 29 02:39:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:55:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

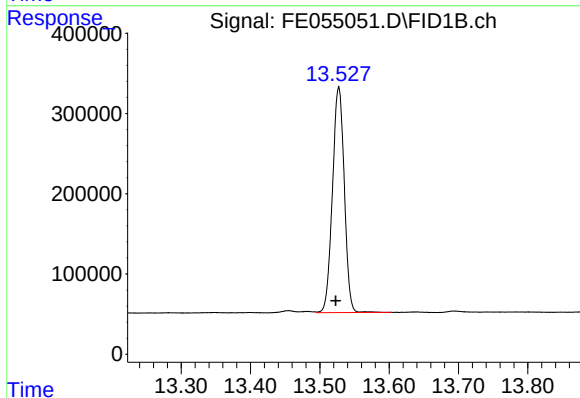




#9 ortho-Terphenyl (SURR)

R.T.: 12.091 min
Delta R.T.: 0.003 min
Response: 4230434
Conc: 28.58 ug/ml

Instrument :
FID_E
ClientSampleId :
FG1A



#12 1-chlorooctadecane (SURR)

R.T.: 13.527 min
Delta R.T.: 0.004 min
Response: 3339559
Conc: 29.82 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
 Data File : FE055051.D
 Signal(s) : FID1B.ch
 Acq On : 28 Jul 2025 16:50
 Sample : Q2705-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.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	2.876	BV	265	4589	0.06%	0.004%
2	2.895	2.876	3.040	VV	133	8616	0.12%	0.008%
3	3.052	3.040	3.141	VV	124	5417	0.07%	0.005%
4	3.167	3.141	3.215	VV	236	4412	0.06%	0.004%
5	3.267	3.215	3.280	VV	297	6537	0.09%	0.006%
6	3.297	3.280	3.343	VV	300	8406	0.11%	0.008%
7	3.354	3.343	3.362	VV	137	1265	0.02%	0.001%
8	3.425	3.362	3.448	VV	253	7774	0.11%	0.007%
9	3.459	3.448	3.501	PV	137	4005	0.05%	0.004%
10	3.505	3.501	3.525	VV	185	1722	0.02%	0.002%
11	3.535	3.525	3.559	VV	149	2706	0.04%	0.002%
12	3.571	3.559	3.584	VV	159	1954	0.03%	0.002%
13	3.606	3.584	3.642	VV	925	12448	0.17%	0.011%
14	3.651	3.642	3.681	VV	170	3125	0.04%	0.003%
15	3.692	3.681	3.699	VV	172	1305	0.02%	0.001%
16	3.706	3.699	3.725	VV	123	1722	0.02%	0.002%
17	3.729	3.725	3.739	VV	162	985	0.01%	0.001%
18	3.752	3.739	3.765	VV	151	1804	0.02%	0.002%
19	3.778	3.765	3.787	VV	145	1805	0.02%	0.002%
20	3.802	3.787	3.841	VV	329	7051	0.10%	0.006%
21	3.854	3.841	3.873	VV	366	5102	0.07%	0.005%
22	3.894	3.873	3.986	VV	2654	32787	0.44%	0.029%
23	4.010	3.986	4.051	VV	2315	24816	0.34%	0.022%
24	4.101	4.051	4.135	VV	2000	24565	0.33%	0.022%
25	4.140	4.135	4.191	VV	225	4962	0.07%	0.004%
26	4.222	4.191	4.247	VV	265	6594	0.09%	0.006%
27	4.265	4.247	4.327	VV	455	13091	0.18%	0.012%
28	4.335	4.327	4.368	VV	222	3826	0.05%	0.003%
29	4.381	4.368	4.390	VV	178	2014	0.03%	0.002%
30	4.410	4.390	4.429	VV	435	6947	0.09%	0.006%
31	4.450	4.429	4.466	VV	399	6681	0.09%	0.006%
32	4.474	4.466	4.495	VV	252	3474	0.05%	0.003%
33	4.543	4.495	4.592	VV	249	11092	0.15%	0.010%
34	4.601	4.592	4.615	VV	170	2210	0.03%	0.002%
35	4.632	4.615	4.642	VV	267	3254	0.04%	0.003%
36	4.684	4.642	4.713	VV	385	9843	0.13%	0.009%

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37	4.731	4.713	4.745	VV	262	3487	0.05%	0.003%
38	4.768	4.745	4.788	VV	205	4268	0.06%	0.004%
39	4.805	4.788	4.825	VV	218	3424	0.05%	0.003%
40	4.848	4.825	4.898	VV	294	7051	0.10%	0.006%
41	4.911	4.898	4.931	VV	167	2361	0.03%	0.002%
42	4.941	4.931	4.965	VV	139	2303	0.03%	0.002%
43	4.976	4.965	4.989	VV	187	2192	0.03%	0.002%
44	4.999	4.989	5.023	VV	233	2764	0.04%	0.002%
45	5.031	5.023	5.039	VV	131	957	0.01%	0.001%
46	5.061	5.039	5.117	VV	199	6538	0.09%	0.006%
47	5.130	5.117	5.158	VV	173	3253	0.04%	0.003%
48	5.165	5.158	5.235	VV	153	4878	0.07%	0.004%
49	5.241	5.235	5.249	VV	143	1067	0.01%	0.001%
50	5.264	5.249	5.315	VV	146	3436	0.05%	0.003%
51	5.348	5.315	5.377	VV	189	3669	0.05%	0.003%
52	5.401	5.377	5.419	VV	298	3937	0.05%	0.004%
53	5.437	5.419	5.468	VV	142	2709	0.04%	0.002%
54	5.505	5.468	5.555	VV	171	4564	0.06%	0.004%
55	5.564	5.555	5.607	VV	105	2023	0.03%	0.002%
56	5.631	5.607	5.696	VV	391	8085	0.11%	0.007%
57	5.711	5.696	5.755	VV	173	2272	0.03%	0.002%
58	5.786	5.755	5.801	PV	136	2826	0.04%	0.003%
59	5.823	5.801	5.848	VV	246	4826	0.07%	0.004%
60	5.876	5.848	5.901	VV	274	6371	0.09%	0.006%
61	5.939	5.901	5.973	VV	236	6271	0.08%	0.006%
62	5.993	5.973	6.000	VV	149	1849	0.03%	0.002%
63	6.024	6.000	6.049	VV	182	3669	0.05%	0.003%
64	6.078	6.049	6.134	VV	177	5004	0.07%	0.004%
65	6.145	6.134	6.170	VV	130	1913	0.03%	0.002%
66	6.195	6.170	6.201	PV	111	1682	0.02%	0.002%
67	6.220	6.201	6.239	VV	225	3205	0.04%	0.003%
68	6.265	6.239	6.295	VV	259	5182	0.07%	0.005%
69	6.308	6.295	6.319	VV	105	1359	0.02%	0.001%
70	6.361	6.319	6.384	VV	188	4744	0.06%	0.004%
71	6.406	6.384	6.468	VV	1007	17147	0.23%	0.015%
72	6.484	6.468	6.512	VV	313	5645	0.08%	0.005%
73	6.522	6.512	6.541	VV	242	3311	0.04%	0.003%
74	6.556	6.541	6.624	VV	239	7077	0.10%	0.006%
75	6.651	6.624	6.678	VV	217	4789	0.06%	0.004%
76	6.700	6.678	6.782	VV	633	14332	0.19%	0.013%
77	6.795	6.782	6.833	VV	192	3996	0.05%	0.004%
78	6.846	6.833	6.851	VV	187	1676	0.02%	0.002%
79	6.861	6.851	6.906	VV	250	4785	0.06%	0.004%
80	6.938	6.906	6.966	VV	348	6931	0.09%	0.006%
81	6.980	6.966	6.997	VV	154	1823	0.02%	0.002%
82	7.018	6.997	7.044	VV	170	3340	0.05%	0.003%
83	7.060	7.044	7.097	VV	194	3463	0.05%	0.003%
84	7.105	7.097	7.111	PV	91	561	0.01%	0.001%
85	7.161	7.111	7.225	VV	199	8009	0.11%	0.007%
86	7.269	7.225	7.292	VV	447	7737	0.10%	0.007%
87	7.345	7.292	7.385	VV	704	19103	0.26%	0.017%
88	7.408	7.385	7.423	VV	335	7042	0.10%	0.006%
89	7.437	7.423	7.471	VV	274	5030	0.07%	0.005%

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90	7.508	7.471	7.527	VV	590	8863	0.12%	0.008%
91	7.539	7.527	7.571	VV	280	5506	0.07%	0.005%
92	7.587	7.571	7.628	VV	284	6569	0.09%	0.006%
93	7.647	7.628	7.664	VV	474	6354	0.09%	0.006%
94	7.681	7.664	7.700	VV	402	6252	0.08%	0.006%
95	7.719	7.700	7.755	VV	334	8328	0.11%	0.007%
96	7.813	7.755	7.855	VV	499	16913	0.23%	0.015%
97	7.863	7.855	7.878	VV	179	1949	0.03%	0.002%
98	7.906	7.878	7.941	VV	164	4061	0.05%	0.004%
99	7.953	7.941	7.965	VV	176	1806	0.02%	0.002%
100	7.992	7.965	8.035	VV	257	6020	0.08%	0.005%
101	8.044	8.035	8.062	VV	190	2332	0.03%	0.002%
102	8.233	8.218	8.258	VV	931	19079	0.26%	0.017%
103	8.272	8.258	8.331	VV	1020	23546	0.32%	0.021%
104	8.342	8.331	8.368	VV	354	5704	0.08%	0.005%
105	8.411	8.368	8.428	PV	454	11343	0.15%	0.010%
106	8.441	8.428	8.459	VV	478	6657	0.09%	0.006%
107	8.477	8.459	8.488	VV	334	4939	0.07%	0.004%
108	8.514	8.488	8.555	VV	765	18815	0.25%	0.017%
109	8.586	8.555	8.611	VV	710	18726	0.25%	0.017%
110	8.659	8.611	8.685	VV	12216	161502	2.18%	0.145%
111	8.701	8.685	8.744	VV	1666	34484	0.47%	0.031%
112	8.760	8.744	8.778	VV	669	9713	0.13%	0.009%
113	8.807	8.778	8.841	VV	506	14458	0.20%	0.013%
114	8.868	8.841	8.893	VV	530	9341	0.13%	0.008%
115	8.906	8.893	8.942	VV	329	7357	0.10%	0.007%
116	8.951	8.942	8.971	VV	229	2537	0.03%	0.002%
117	9.170	9.146	9.216	VV	1071	25246	0.34%	0.023%
118	9.238	9.216	9.268	VV	835	16739	0.23%	0.015%
119	9.281	9.268	9.298	VV	339	4951	0.07%	0.004%
120	9.328	9.298	9.345	VV	493	10470	0.14%	0.009%
121	9.357	9.345	9.375	VV	612	8165	0.11%	0.007%
122	9.432	9.375	9.495	VV	1680	52920	0.72%	0.048%
123	9.529	9.495	9.552	VV	1522	26412	0.36%	0.024%
124	9.570	9.552	9.591	VV	767	12376	0.17%	0.011%
125	9.604	9.591	9.653	VV	364	7261	0.10%	0.007%
126	9.690	9.653	9.704	VV	567	8157	0.11%	0.007%
127	9.716	9.704	9.788	VV	379	9122	0.12%	0.008%
128	9.824	9.788	9.845	PV	539	9312	0.13%	0.008%
129	9.865	9.845	9.889	VV	446	8903	0.12%	0.008%
130	9.911	9.889	9.928	VV	723	11973	0.16%	0.011%
131	9.934	9.928	9.961	VV	546	8163	0.11%	0.007%
132	9.989	9.961	10.022	VV	832	17480	0.24%	0.016%
133	10.032	10.022	10.055	VV	305	4584	0.06%	0.004%
134	10.069	10.055	10.078	VV	385	4711	0.06%	0.004%
135	10.094	10.078	10.125	VV	520	9840	0.13%	0.009%
136	10.146	10.125	10.161	VV	448	7263	0.10%	0.007%
137	10.187	10.161	10.222	VV	19079	209238	2.83%	0.188%
138	10.247	10.222	10.281	VV	1014	24814	0.34%	0.022%
139	10.314	10.281	10.398	VV	1578	36251	0.49%	0.033%
140	10.423	10.398	10.467	VV	395	8978	0.12%	0.008%
141	10.500	10.467	10.549	VV	231	5702	0.08%	0.005%

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142	10.562	10.549	10.571	PV	138	924	0.01%	0.001%
143	10.591	10.571	10.607	VV	237	2808	0.04%	0.003%
144	10.662	10.607	10.686	VV	5788	68405	0.92%	0.061%
145	10.706	10.686	10.730	VV	949	14859	0.20%	0.013%
146	10.767	10.730	10.788	VV	778	18440	0.25%	0.017%
147	10.793	10.788	10.823	VV	556	7046	0.10%	0.006%
148	10.858	10.823	10.878	VV	568	11264	0.15%	0.010%
149	10.920	10.878	10.932	VV	607	11838	0.16%	0.011%
150	10.978	10.932	10.994	VV	940	22859	0.31%	0.021%
151	11.010	10.994	11.031	VV	1001	16129	0.22%	0.015%
152	11.056	11.031	11.076	VV	1835	26182	0.35%	0.024%
153	11.083	11.076	11.102	VV	396	5859	0.08%	0.005%
154	11.128	11.102	11.149	VV	1558	23794	0.32%	0.021%
155	11.161	11.149	11.191	VV	676	11869	0.16%	0.011%
156	11.198	11.191	11.228	VV	387	4746	0.06%	0.004%
157	11.282	11.228	11.295	VV	514	10538	0.14%	0.009%
158	11.327	11.295	11.371	VV	2515	46092	0.62%	0.041%
159	11.398	11.371	11.421	VV	631	13022	0.18%	0.012%
160	11.425	11.421	11.434	VV	422	2828	0.04%	0.003%
161	11.452	11.434	11.478	VV	543	9977	0.13%	0.009%
162	11.506	11.478	11.525	VV	369	7968	0.11%	0.007%
163	11.535	11.525	11.552	VV	262	3070	0.04%	0.003%
164	11.563	11.552	11.594	VV	273	4240	0.06%	0.004%
165	11.618	11.594	11.658	PV	532	10060	0.14%	0.009%
166	11.694	11.658	11.715	PV	936	13873	0.19%	0.012%
167	11.734	11.715	11.743	VV	681	8121	0.11%	0.007%
168	11.762	11.743	11.791	VV	1830	24543	0.33%	0.022%
169	11.800	11.791	11.811	VV	223	2005	0.03%	0.002%
170	11.853	11.811	11.901	VV	1989	31244	0.42%	0.028%
171	11.925	11.901	11.940	PV	361	4836	0.07%	0.004%
172	11.957	11.940	11.969	VV	511	5954	0.08%	0.005%
173	11.982	11.969	11.999	VV	540	6073	0.08%	0.005%
174	12.027	11.999	12.044	VV	628	10131	0.14%	0.009%
175	12.091	12.044	12.145	VV	391250	4252335	57.50%	3.823%
176	12.164	12.145	12.203	VV	1172	24628	0.33%	0.022%
177	12.220	12.203	12.232	VV	493	6851	0.09%	0.006%
178	12.250	12.232	12.266	VV	829	10219	0.14%	0.009%
179	12.282	12.266	12.298	VV	732	8133	0.11%	0.007%
180	12.314	12.298	12.341	VV	653	7507	0.10%	0.007%
181	12.372	12.341	12.395	PV	513	5663	0.08%	0.005%
182	12.434	12.395	12.475	VV	1761	35488	0.48%	0.032%
183	12.490	12.475	12.510	VV	389	5630	0.08%	0.005%
184	12.531	12.510	12.578	VV	771	13409	0.18%	0.012%
185	12.606	12.578	12.618	VV	291	3238	0.04%	0.003%
186	12.635	12.618	12.647	VV	327	3577	0.05%	0.003%
187	12.678	12.647	12.731	VV	16707	205630	2.78%	0.185%
188	12.742	12.731	12.761	VV	554	8578	0.12%	0.008%
189	12.777	12.761	12.787	VV	606	7028	0.10%	0.006%
190	12.813	12.787	12.835	VV	987	18391	0.25%	0.017%
191	12.850	12.835	12.871	VV	532	8960	0.12%	0.008%
192	12.897	12.871	12.908	VV	558	9823	0.13%	0.009%
193	12.924	12.908	12.952	VV	666	12167	0.16%	0.011%
194	13.035	12.952	13.058	VV	1160	34299	0.46%	0.031%

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195	13.077	13.058	13.123	VV	2912	45816	0.62%	0.041%
196	13.155	13.123	13.238	VV	4360	73495	0.99%	0.066%
197	13.254	13.238	13.268	PV	206	2076	0.03%	0.002%
198	13.282	13.268	13.305	VV	329	3912	0.05%	0.004%
199	13.348	13.305	13.368	VV	503	9404	0.13%	0.008%
200	13.400	13.368	13.422	VV	435	7418	0.10%	0.007%
201	13.455	13.422	13.471	VV	2652	36208	0.49%	0.033%
202	13.482	13.471	13.494	VV	1610	19597	0.26%	0.018%
203	13.527	13.494	13.605	VV	281250	3352530	45.33%	3.014%
204	13.638	13.605	13.669	VV	680	14311	0.19%	0.013%
205	13.694	13.669	13.731	VV	1755	30160	0.41%	0.027%
206	13.742	13.731	13.767	VV	529	9392	0.13%	0.008%
207	13.786	13.767	13.835	VV	478	12491	0.17%	0.011%
208	13.850	13.835	13.858	VV	160	937	0.01%	0.001%
209	13.879	13.858	13.897	PV	339	4398	0.06%	0.004%
210	13.923	13.897	13.951	VV	1307	19984	0.27%	0.018%
211	13.966	13.951	13.985	VV	270	3634	0.05%	0.003%
212	13.995	13.985	14.006	PV	215	1101	0.01%	0.001%
213	14.044	14.006	14.077	VV	576	9487	0.13%	0.009%
214	14.116	14.077	14.128	VV	388	6554	0.09%	0.006%
215	14.155	14.128	14.181	VV	465	10912	0.15%	0.010%
216	14.199	14.181	14.208	VV	444	6638	0.09%	0.006%
217	14.228	14.208	14.257	VV	838	13697	0.19%	0.012%
218	14.280	14.257	14.298	PV	1953	25491	0.34%	0.023%
219	14.311	14.298	14.348	VV	951	21473	0.29%	0.019%
220	14.365	14.348	14.381	VV	352	5309	0.07%	0.005%
221	14.415	14.381	14.455	VV	1857	29734	0.40%	0.027%
222	14.516	14.455	14.542	PV	686	17555	0.24%	0.016%
223	14.578	14.542	14.591	VV	254	4092	0.06%	0.004%
224	14.674	14.591	14.705	VV	1198	29714	0.40%	0.027%
225	14.717	14.705	14.736	VV	960	10129	0.14%	0.009%
226	14.753	14.736	14.760	PV	331	2710	0.04%	0.002%
227	14.784	14.760	14.820	VV	957	20161	0.27%	0.018%
228	14.845	14.820	14.868	PV	1921	24690	0.33%	0.022%
229	14.881	14.868	14.895	VV	653	6544	0.09%	0.006%
230	14.967	14.895	15.008	VV	1089	29770	0.40%	0.027%
231	15.034	15.008	15.047	VV	360	5059	0.07%	0.005%
232	15.087	15.047	15.101	PV	675	11616	0.16%	0.010%
233	15.160	15.101	15.174	VV	758	24393	0.33%	0.022%
234	15.241	15.174	15.260	VV	740	28031	0.38%	0.025%
235	15.286	15.260	15.297	VV	867	14548	0.20%	0.013%
236	15.338	15.297	15.358	VV	2455	49043	0.66%	0.044%
237	15.383	15.358	15.410	VV	4364	75723	1.02%	0.068%
238	15.432	15.410	15.457	VV	2157	36173	0.49%	0.033%
239	15.484	15.457	15.515	VV	1018	29200	0.39%	0.026%
240	15.540	15.515	15.565	VV	888	19415	0.26%	0.017%
241	15.581	15.565	15.613	VV	749	12177	0.16%	0.011%
242	15.657	15.613	15.683	PV	685	16741	0.23%	0.015%
243	15.695	15.683	15.708	VV	423	3026	0.04%	0.003%
244	15.724	15.708	15.738	VV	318	3015	0.04%	0.003%
245	15.769	15.738	15.841	PV	13283	228275	3.09%	0.205%
246	15.864	15.841	15.885	VV	641	10025	0.14%	0.009%

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247	15.912	15.885	15.952	VV	2669	65254	0.88%	0.059%
248	15.993	15.952	16.035	VV	3433	79741	1.08%	0.072%
249	16.056	16.035	16.069	VV	1221	19576	0.26%	0.018%
250	16.183	16.069	16.198	VV	1588	85788	1.16%	0.077%
251	16.225	16.198	16.267	VV	1659	56758	0.77%	0.051%
252	16.298	16.267	16.328	VV	1597	50707	0.69%	0.046%
253	16.342	16.328	16.355	VV	1379	20940	0.28%	0.019%
254	16.373	16.355	16.387	VV	1779	29295	0.40%	0.026%
255	16.411	16.387	16.435	VV	3507	62442	0.84%	0.056%
256	16.457	16.435	16.503	VV	1612	45858	0.62%	0.041%
257	16.524	16.503	16.535	VV	635	9168	0.12%	0.008%
258	16.618	16.535	16.675	VV	1198	39345	0.53%	0.035%
259	17.123	16.675	16.751	PV	861	25159	0.34%	0.023%
260	16.788	16.751	16.838	VV	3417	71750	0.97%	0.065%
261	16.899	16.838	16.948	VV	5369	109420	1.48%	0.098%
262	16.981	16.948	17.011	PV	3420	54315	0.73%	0.049%
263	17.052	17.011	17.068	VV	1041	28362	0.38%	0.025%
264	17.126	17.068	17.158	VV	1117	36475	0.49%	0.033%
265	17.228	17.158	17.258	VV	2415	64345	0.87%	0.058%
266	17.284	17.258	17.303	VV	1670	25296	0.34%	0.023%
267	17.363	17.303	17.388	VV	5713	98475	1.33%	0.089%
268	17.407	17.388	17.428	VV	2507	43311	0.59%	0.039%
269	17.440	17.428	17.468	VV	2183	25606	0.35%	0.023%
270	17.475	17.468	17.498	VV	645	6077	0.08%	0.005%
271	17.628	17.498	17.638	VV	1569	60121	0.81%	0.054%
272	17.648	17.638	17.668	VV	1319	19898	0.27%	0.018%
273	17.733	17.668	17.761	VV	2386	97546	1.32%	0.088%
274	17.813	17.761	17.843	VV	9323	185813	2.51%	0.167%
275	17.867	17.843	17.882	VV	1722	30896	0.42%	0.028%
276	17.903	17.882	17.922	VV	2271	34982	0.47%	0.031%
277	17.942	17.922	17.981	VV	1910	38854	0.53%	0.035%
278	18.010	17.981	18.021	PV	773	11765	0.16%	0.011%
279	18.046	18.021	18.057	PV	278	5499	0.07%	0.005%
280	18.254	18.057	18.306	PV	12571	482300	6.52%	0.434%
281	18.348	18.306	18.367	VV	5138	140515	1.90%	0.126%
282	18.421	18.367	18.482	VV	8823	364815	4.93%	0.328%
283	18.528	18.482	18.539	VV	4643	135471	1.83%	0.122%
284	18.617	18.539	18.648	VV	12624	449021	6.07%	0.404%
285	18.680	18.648	18.714	VV	14052	343249	4.64%	0.309%
286	18.791	18.714	18.835	VV	12065	507526	6.86%	0.456%
287	18.855	18.835	18.865	VV	6866	114353	1.55%	0.103%
288	18.943	18.865	18.966	VV	10251	522380	7.06%	0.470%
289	18.994	18.966	19.018	VV	10626	308367	4.17%	0.277%
290	19.089	19.018	19.121	VV	22580	870080	11.76%	0.782%
291	19.129	19.121	19.148	VV	12397	190823	2.58%	0.172%
292	19.213	19.148	19.238	VV	18355	795224	10.75%	0.715%
293	19.263	19.238	19.295	VV	17964	530909	7.18%	0.477%
294	19.316	19.295	19.332	VV	14067	302985	4.10%	0.272%
295	19.450	19.332	19.465	VV	21862	1346936	18.21%	1.211%
296	19.488	19.465	19.521	VV	29538	853019	11.53%	0.767%
297	19.546	19.521	19.559	VV	25778	539798	7.30%	0.485%
298	19.640	19.559	19.655	VV	30996	1547739	20.93%	1.391%
299	19.669	19.655	19.688	VV	29288	575268	7.78%	0.517%

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300	19.741	19.688	19.785	VV	35741	1825461	24.68%	1.641%
301	19.795	19.785	19.835	VV	30903	872534	11.80%	0.784%
302	19.874	19.835	19.896	VV	38826	1197538	16.19%	1.077%
303	19.924	19.896	19.961	VV	34268	1259615	17.03%	1.132%
304	20.019	19.961	20.037	VV	38525	1616936	21.86%	1.454%
305	20.128	20.037	20.141	VV	45168	2604168	35.21%	2.341%
306	20.180	20.141	20.197	VV	46462	1499842	20.28%	1.348%
307	20.252	20.197	20.296	VV	56641	2853371	38.58%	2.565%
308	20.364	20.296	20.385	VV	52395	2634946	35.63%	2.369%
309	20.486	20.385	20.521	VV	60122	4529135	61.24%	4.072%
310	20.543	20.521	20.568	VV	58932	1591209	21.52%	1.431%
311	20.589	20.568	20.598	VV	57882	996652	13.48%	0.896%
312	20.615	20.598	20.645	VV	62267	1695517	22.93%	1.524%
313	20.672	20.645	20.682	VV	63436	1353421	18.30%	1.217%
314	20.707	20.682	20.758	VV	68390	2907249	39.31%	2.614%
315	20.797	20.758	20.822	VV	69795	2530925	34.22%	2.275%
316	20.847	20.822	20.868	VV	69177	1876481	25.37%	1.687%
317	20.886	20.868	20.908	VV	69581	1594892	21.57%	1.434%
318	20.917	20.908	20.948	VV	63854	1492597	20.18%	1.342%
319	20.952	20.948	20.957	VV	60501	338911	4.58%	0.305%
320	20.984	20.957	21.027	VV	68911	2687880	36.34%	2.416%
321	21.061	21.027	21.110	VV	64516	3113094	42.09%	2.799%
322	21.214	21.110	21.307	VV	69456	7395680	100.00%	6.649%
323	21.404	21.307	21.479	VV	65093	5733625	77.53%	5.155%
324	21.501	21.479	21.510	VV	47726	874268	11.82%	0.786%
325	21.522	21.510	21.533	VV	47055	622703	8.42%	0.560%
326	21.552	21.533	21.567	VV	47435	943003	12.75%	0.848%
327	21.577	21.567	21.600	VV	46973	935623	12.65%	0.841%
328	21.610	21.600	21.621	VV	46504	566685	7.66%	0.509%
329	21.654	21.621	21.668	VV	48633	1306883	17.67%	1.175%
330	21.692	21.668	21.708	VV	49708	1168211	15.80%	1.050%
331	21.746	21.708	21.834	VV	50222	3548830	47.99%	3.190%
332	21.862	21.834	21.910	VV	46249	1979239	26.76%	1.779%
333	21.924	21.910	21.945	VV	43927	898861	12.15%	0.808%
334	21.996	21.945	22.041	VV	44267	2344094	31.70%	2.107%
335	22.082	22.041	22.175	VV	42718	3114340	42.11%	2.800%
336	22.183	22.175	22.199	VV	33602	463273	6.26%	0.416%
337	22.262	22.199	22.283	VV	34493	1630885	22.05%	1.466%
338	22.294	22.283	22.304	VV	32442	405835	5.49%	0.365%
339	22.314	22.304	22.328	VV	32085	448465	6.06%	0.403%
340	22.339	22.328	22.380	VV	32094	984037	13.31%	0.885%
341	22.396	22.380	22.433	VV	32526	957816	12.95%	0.861%
342	22.444	22.433	22.500	VV	28372	1086608	14.69%	0.977%
343	22.513	22.500	22.525	VV	26417	387691	5.24%	0.349%
344	22.562	22.525	22.698	VV	29827	2138552	28.92%	1.923%
345	22.772	22.698	22.808	VV	17813	980481	13.26%	0.881%
346	22.818	22.808	22.851	VV	14165	340933	4.61%	0.307%
347	22.859	22.851	22.866	VV	12795	112216	1.52%	0.101%
348	22.907	22.866	22.917	VV	15227	418267	5.66%	0.376%
349	23.009	22.917	23.068	VV	24068	1733251	23.44%	1.558%
350	23.081	23.068	23.098	VV	18691	317884	4.30%	0.286%
351	23.110	23.098	23.203	VV	17845	612666	8.28%	0.551%

					rteres			
352	23.222	23.203	23.239	VV	2120	26984	0.36%	0.024%
353	23.281	23.239	23.291	PV	1306	19557	0.26%	0.018%
					Sum of corrected areas:		111231597	

Aliphatic EPH 072625.M Tue Jul 29 04:11:13 2025

Report of Analysis

Client:	G Environmental	Date Collected:	07/25/25
Project:	Freehold	Date Received:	07/25/25
Client Sample ID:	FG1ADL	SDG No.:	Q2705
Lab Sample ID:	Q2705-01DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.3
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
FE055063.D	2	07/28/25	07/29/25	PB169021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.04	J	1.99	8.75	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	54.4		2.58	4.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	14.9		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	14.5		40 - 140	58%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2705-01DL	Acq On:	29 Jul 2025 11:39
Client Sample ID:	FG1ADL	Operator:	YP\AJ
Data file:	FE055063.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	2	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.325	6.960	811815	6.548	300	ug/ml
Aliphatic C12-C16	6.961	10.412	666943	5.018	200	ug/ml
Aliphatic C16-C21	10.413	13.792	643260	4.905	300	ug/ml
Aliphatic C21-C28	13.793	17.463	1174717	9.416	400	ug/ml
Aliphatic C28-C40	17.464	22.491	44932779	372.921	600	ug/ml
Aliphatic EPH	3.325	22.491	48229514	398.808		ug/ml
ortho-Terphenyl (SURR)	12.089	12.089	2149407	14.52		ug/ml
1-chlorooctadecane (SURR)	13.525	13.525	1671596	14.93		ug/ml
Aliphatic C9-C28	3.325	17.463	3296735	25.887	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072925AL\
 Data File : FE055063.D
 Signal(s) : FID1B.ch
 Acq On : 29 Jul 2025 11:39
 Operator : YP\AJ
 Sample : Q2705-01DL 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 FG1ADL

Integration File: sample.E
 Quant Time: Jul 30 00:22:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:55:28 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	2149407	14.521 ug/ml
Spiked Amount 50.000		Recovery =	29.04%
12) S 1-chlorooctadecane (S...	13.525	1671596	14.927 ug/ml
Spiked Amount 50.000		Recovery =	29.85%

Target Compounds

(f)=RT Delta > 1/2 Window

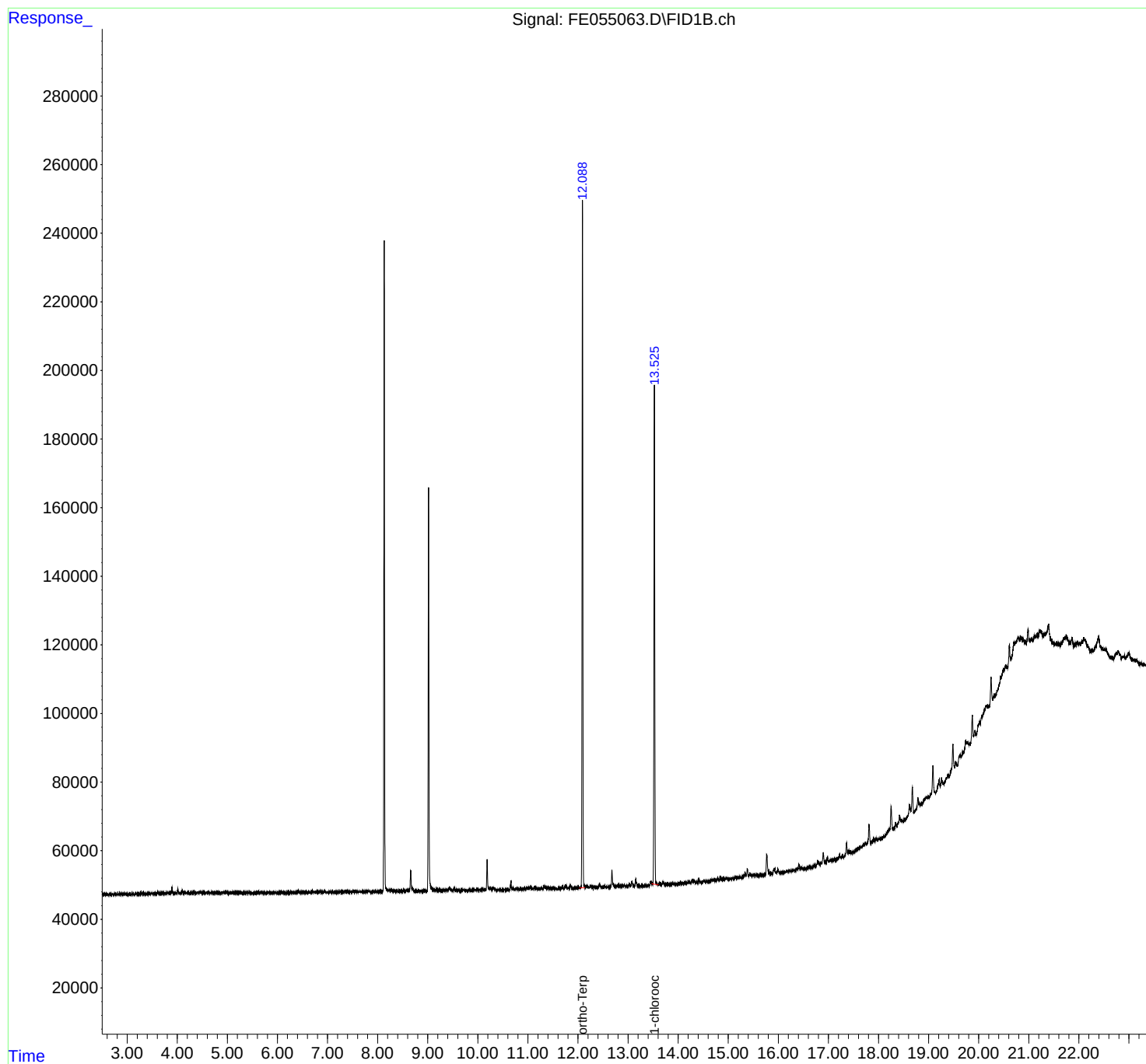
(m)=manual int.

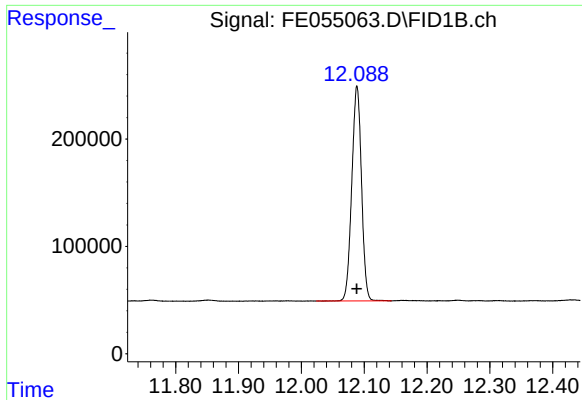
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072925AL\
Data File : FE055063.D
Signal(s) : FID1B.ch
Acq On : 29 Jul 2025 11:39
Operator : YP\AJ
Sample : Q2705-01DL 2X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
FG1ADL

Integration File: sample.E
Quant Time: Jul 30 00:22:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:55:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

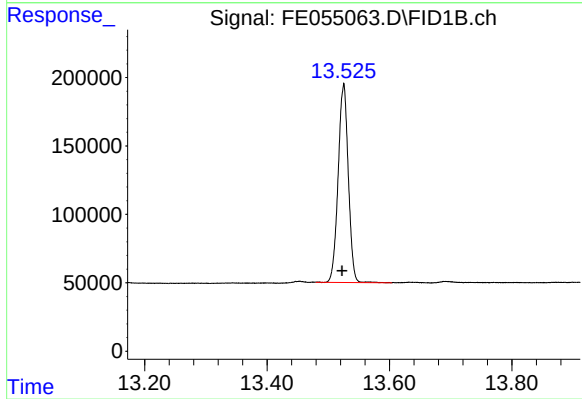




#9 ortho-Terphenyl (SURR)

R.T.: 12.089 min
Delta R.T.: 0.000 min
Response: 2149407
Conc: 14.52 ug/ml

Instrument :
FID_E
ClientSampleId :
FG1ADL



#12 1-chlorooctadecane (SURR)

R.T.: 13.525 min
Delta R.T.: 0.002 min
Response: 1671596
Conc: 14.93 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072925AL\
 Data File : FE055063.D
 Signal(s) : FID1B.ch
 Acq On : 29 Jul 2025 11:39
 Sample : Q2705-01DL 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.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	2.845	2.804	2.874	BV	202	3228	0.11%	0.006%
2	2.913	2.874	2.969	VV	160	6350	0.22%	0.012%
3	2.978	2.969	3.001	VV	132	1343	0.05%	0.003%
4	3.044	3.001	3.058	VV	124	2326	0.08%	0.004%
5	3.102	3.058	3.141	VV	143	4667	0.16%	0.009%
6	3.162	3.141	3.208	VV	216	5098	0.17%	0.010%
7	3.280	3.208	3.291	VV	250	9131	0.31%	0.018%
8	3.302	3.291	3.321	VV	269	4268	0.15%	0.008%
9	3.328	3.321	3.391	VV	267	7647	0.26%	0.015%
10	3.401	3.391	3.410	VV	234	1997	0.07%	0.004%
11	3.427	3.410	3.466	VV	300	7101	0.24%	0.014%
12	3.481	3.466	3.500	VV	266	4096	0.14%	0.008%
13	3.606	3.500	3.639	VV	679	23330	0.80%	0.045%
14	3.651	3.639	3.699	VV	354	11264	0.39%	0.022%
15	3.710	3.699	3.748	VV	387	9417	0.32%	0.018%
16	3.773	3.748	3.798	VV	351	9803	0.34%	0.019%
17	3.815	3.798	3.838	VV	474	8771	0.30%	0.017%
18	3.894	3.838	3.927	VV	2111	34132	1.17%	0.065%
19	3.944	3.927	3.958	VV	368	5934	0.20%	0.011%
20	3.962	3.958	3.989	VV	389	6337	0.22%	0.012%
21	4.011	3.989	4.062	VV	1705	26603	0.91%	0.051%
22	4.101	4.062	4.171	VV	1294	31839	1.09%	0.061%
23	4.194	4.171	4.204	VV	422	7173	0.25%	0.014%
24	4.228	4.204	4.235	VV	446	7602	0.26%	0.015%
25	4.242	4.235	4.248	VV	414	3091	0.11%	0.006%
26	4.313	4.248	4.389	VV	496	35359	1.21%	0.068%
27	4.408	4.389	4.431	VV	555	11959	0.41%	0.023%
28	4.450	4.431	4.501	VV	623	20640	0.71%	0.040%
29	4.545	4.501	4.558	VV	519	15441	0.53%	0.030%
30	4.562	4.558	4.602	VV	488	11471	0.39%	0.022%
31	4.611	4.602	4.634	VV	445	7643	0.26%	0.015%
32	4.644	4.634	4.666	VV	429	7891	0.27%	0.015%
33	4.685	4.666	4.737	VV	554	19510	0.67%	0.037%
34	4.746	4.737	4.836	VV	503	24758	0.85%	0.047%
35	4.849	4.836	4.865	VV	450	6774	0.23%	0.013%
36	4.878	4.865	4.888	VV	403	5253	0.18%	0.010%

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37	4.913	4.888	4.924	VV	449	8852	0.30%	0.017%
38	4.936	4.924	4.941	VV	438	3960	0.14%	0.008%
39	4.950	4.941	4.988	VV	442	11487	0.39%	0.022%
40	5.004	4.988	5.030	VV	479	10710	0.37%	0.021%
41	5.052	5.030	5.094	VV	491	16940	0.58%	0.032%
42	5.101	5.094	5.298	VV	487	49622	1.70%	0.095%
43	5.303	5.298	5.318	VV	386	4388	0.15%	0.008%
44	5.341	5.318	5.354	VV	422	8423	0.29%	0.016%
45	5.360	5.354	5.378	VV	392	5140	0.18%	0.010%
46	5.390	5.378	5.421	VV	447	10090	0.35%	0.019%
47	5.435	5.421	5.478	VV	460	13049	0.45%	0.025%
48	5.501	5.478	5.556	VV	430	16737	0.57%	0.032%
49	5.630	5.556	5.661	PV	674	22282	0.76%	0.043%
50	5.700	5.661	5.748	VV	469	17915	0.61%	0.034%
51	5.782	5.748	5.801	VV	366	10353	0.35%	0.020%
52	5.822	5.801	5.841	VV	470	8947	0.31%	0.017%
53	5.878	5.841	5.918	VV	464	16226	0.56%	0.031%
54	5.937	5.918	5.985	VV	401	13025	0.45%	0.025%
55	6.027	5.985	6.043	VV	380	10965	0.38%	0.021%
56	6.054	6.043	6.109	VV	361	12281	0.42%	0.024%
57	6.128	6.109	6.200	VV	326	14922	0.51%	0.029%
58	6.220	6.200	6.248	VV	309	7544	0.26%	0.014%
59	6.265	6.248	6.291	VV	358	7877	0.27%	0.015%
60	6.305	6.291	6.327	VV	317	5936	0.20%	0.011%
61	6.338	6.327	6.351	VV	349	4212	0.14%	0.008%
62	6.356	6.351	6.381	VV	372	5409	0.19%	0.010%
63	6.405	6.381	6.478	VV	620	22163	0.76%	0.043%
64	6.519	6.478	6.535	VV	381	11674	0.40%	0.022%
65	6.566	6.535	6.578	VV	353	7890	0.27%	0.015%
66	6.626	6.578	6.664	VV	341	14980	0.51%	0.029%
67	6.700	6.664	6.758	VV	595	21006	0.72%	0.040%
68	6.777	6.758	6.836	VV	351	14178	0.49%	0.027%
69	6.857	6.836	6.898	VV	428	11486	0.39%	0.022%
70	6.941	6.898	7.005	VV	365	18310	0.63%	0.035%
71	7.014	7.005	7.035	VV	316	4185	0.14%	0.008%
72	7.057	7.035	7.115	VV	324	10850	0.37%	0.021%
73	7.165	7.115	7.188	VV	280	9696	0.33%	0.019%
74	7.194	7.188	7.208	VV	293	2780	0.10%	0.005%
75	7.269	7.208	7.288	VV	346	10627	0.36%	0.020%
76	7.349	7.288	7.432	VV	460	26052	0.89%	0.050%
77	7.440	7.432	7.455	VV	266	3274	0.11%	0.006%
78	7.461	7.455	7.485	VV	229	4033	0.14%	0.008%
79	7.507	7.485	7.533	VV	390	7887	0.27%	0.015%
80	7.546	7.533	7.571	VV	324	5720	0.20%	0.011%
81	7.587	7.571	7.628	VV	326	7605	0.26%	0.015%
82	7.644	7.628	7.667	VV	350	6468	0.22%	0.012%
83	7.678	7.667	7.694	VV	333	4423	0.15%	0.008%
84	7.701	7.694	7.748	VV	267	7617	0.26%	0.015%
85	7.814	7.748	7.828	VV	340	11945	0.41%	0.023%
86	7.831	7.828	7.892	VV	238	6193	0.21%	0.012%
87	7.906	7.892	7.975	VV	176	6279	0.22%	0.012%
88	7.994	7.975	8.077	VV	228	8871	0.30%	0.017%
89	8.238	8.214	8.261	VV	596	14700	0.50%	0.028%

					rteres			
90	8.272	8.261	8.375	VV	735	21051	0.72%	0.040%
91	8.393	8.375	8.404	VV	240	3644	0.12%	0.007%
92	8.412	8.404	8.421	VV	215	1959	0.07%	0.004%
93	8.438	8.421	8.489	VV	221	7756	0.27%	0.015%
94	8.516	8.489	8.533	VV	443	7847	0.27%	0.015%
95	8.587	8.533	8.611	VV	503	15483	0.53%	0.030%
96	8.629	8.611	8.636	VV	535	7071	0.24%	0.014%
97	8.660	8.636	8.681	VV	6187	76076	2.61%	0.146%
98	8.694	8.681	8.746	VV	1057	23972	0.82%	0.046%
99	8.760	8.746	8.779	VV	342	5344	0.18%	0.010%
100	8.793	8.779	8.798	VV	266	2659	0.09%	0.005%
101	8.806	8.798	8.845	VV	310	6182	0.21%	0.012%
102	8.871	8.845	8.888	VV	245	4268	0.15%	0.008%
103	8.916	8.888	8.928	VV	184	3480	0.12%	0.007%
104	8.935	8.928	8.969	VV	175	2771	0.09%	0.005%
105	9.170	9.143	9.220	VV	704	19826	0.68%	0.038%
106	9.237	9.220	9.267	VV	542	10149	0.35%	0.019%
107	9.280	9.267	9.298	VV	220	3769	0.13%	0.007%
108	9.315	9.298	9.341	VV	313	6660	0.23%	0.013%
109	9.352	9.341	9.379	VV	380	6393	0.22%	0.012%
110	9.389	9.379	9.403	VV	312	4170	0.14%	0.008%
111	9.433	9.403	9.498	VV	1072	29290	1.00%	0.056%
112	9.527	9.498	9.554	VV	817	15639	0.54%	0.030%
113	9.571	9.554	9.587	VV	420	6523	0.22%	0.013%
114	9.600	9.587	9.641	VV	279	5049	0.17%	0.010%
115	9.688	9.641	9.700	VV	337	5900	0.20%	0.011%
116	9.716	9.700	9.778	VV	289	6575	0.23%	0.013%
117	9.824	9.778	9.853	VV	389	7619	0.26%	0.015%
118	9.865	9.853	9.873	VV	190	1877	0.06%	0.004%
119	9.908	9.873	9.924	VV	428	8655	0.30%	0.017%
120	9.940	9.924	9.964	VV	361	6817	0.23%	0.013%
121	9.990	9.964	10.020	VV	525	10294	0.35%	0.020%
122	10.033	10.020	10.050	VV	205	3213	0.11%	0.006%
123	10.090	10.050	10.113	VV	371	9099	0.31%	0.017%
124	10.147	10.113	10.160	VV	332	6825	0.23%	0.013%
125	10.186	10.160	10.221	VV	8998	105079	3.60%	0.202%
126	10.245	10.221	10.288	VV	563	17241	0.59%	0.033%
127	10.312	10.288	10.398	VV	937	21513	0.74%	0.041%
128	10.420	10.398	10.471	VV	291	6031	0.21%	0.012%
129	10.493	10.471	10.506	VV	192	2217	0.08%	0.004%
130	10.517	10.506	10.568	VV	104	2406	0.08%	0.005%
131	10.586	10.568	10.613	PV	146	2668	0.09%	0.005%
132	10.622	10.613	10.628	VV	135	832	0.03%	0.002%
133	10.661	10.628	10.687	VV	2733	33918	1.16%	0.065%
134	10.704	10.687	10.731	VV	526	9155	0.31%	0.018%
135	10.762	10.731	10.827	VV	457	16547	0.57%	0.032%
136	10.855	10.827	10.881	VV	334	6836	0.23%	0.013%
137	10.918	10.881	10.931	VV	313	7381	0.25%	0.014%
138	10.942	10.931	10.950	VV	309	3376	0.12%	0.006%
139	10.977	10.950	10.995	VV	584	12128	0.42%	0.023%
140	11.009	10.995	11.028	VV	663	9724	0.33%	0.019%
141	11.055	11.028	11.101	VV	1064	19949	0.68%	0.038%

					rteres			
142	11.128	11.101	11.144	VV	848	13171	0.45%	0.025%
143	11.160	11.144	11.234	VV	625	15345	0.53%	0.029%
144	11.283	11.234	11.304	VV	406	9975	0.34%	0.019%
145	11.324	11.304	11.373	VV	1030	20912	0.72%	0.040%
146	11.397	11.373	11.481	VV	403	16849	0.58%	0.032%
147	11.488	11.481	11.531	VV	242	5765	0.20%	0.011%
148	11.539	11.531	11.558	VV	195	2551	0.09%	0.005%
149	11.568	11.558	11.598	VV	246	3084	0.11%	0.006%
150	11.618	11.598	11.655	VV	335	6808	0.23%	0.013%
151	11.692	11.655	11.716	PV	807	11349	0.39%	0.022%
152	11.761	11.716	11.821	VV	1030	21402	0.73%	0.041%
153	11.852	11.821	11.908	VV	1045	16749	0.57%	0.032%
154	11.924	11.908	11.941	VV	205	3091	0.11%	0.006%
155	11.958	11.941	11.971	VV	255	3458	0.12%	0.007%
156	11.979	11.971	12.004	VV	296	3593	0.12%	0.007%
157	12.089	12.004	12.144	VV	199811	2163540	74.13%	4.150%
158	12.162	12.144	12.204	VV	629	14331	0.49%	0.027%
159	12.249	12.204	12.267	VV	751	13185	0.45%	0.025%
160	12.280	12.267	12.296	VV	381	4374	0.15%	0.008%
161	12.314	12.296	12.344	VV	420	4266	0.15%	0.008%
162	12.371	12.344	12.388	PV	320	4161	0.14%	0.008%
163	12.431	12.388	12.478	VV	970	21869	0.75%	0.042%
164	12.490	12.478	12.504	VV	218	2341	0.08%	0.004%
165	12.530	12.504	12.551	VV	382	5806	0.20%	0.011%
166	12.565	12.551	12.576	VV	144	1237	0.04%	0.002%
167	12.605	12.576	12.621	VV	136	2573	0.09%	0.005%
168	12.677	12.621	12.738	VV	4997	73874	2.53%	0.142%
169	12.750	12.738	12.760	VV	395	4286	0.15%	0.008%
170	12.774	12.760	12.790	VV	412	6154	0.21%	0.012%
171	12.809	12.790	12.841	VV	572	11924	0.41%	0.023%
172	12.848	12.841	12.868	VV	291	4249	0.15%	0.008%
173	12.895	12.868	12.911	VV	357	7943	0.27%	0.015%
174	12.923	12.911	12.964	VV	430	8059	0.28%	0.015%
175	13.034	12.964	13.051	VV	705	19834	0.68%	0.038%
176	13.075	13.051	13.128	VV	1575	28011	0.96%	0.054%
177	13.153	13.128	13.218	VV	2091	37934	1.30%	0.073%
178	13.223	13.218	13.237	VV	171	1389	0.05%	0.003%
179	13.286	13.237	13.307	VV	184	3820	0.13%	0.007%
180	13.345	13.307	13.380	PV	305	6594	0.23%	0.013%
181	13.398	13.380	13.420	VV	205	3454	0.12%	0.007%
182	13.453	13.420	13.469	PV	1338	19922	0.68%	0.038%
183	13.480	13.469	13.491	VV	740	9134	0.31%	0.018%
184	13.525	13.491	13.614	VV	143619	1697835	58.17%	3.257%
185	13.635	13.614	13.668	VV	485	9471	0.32%	0.018%
186	13.692	13.668	13.722	VV	1027	17186	0.59%	0.033%
187	13.733	13.722	13.763	VV	286	5521	0.19%	0.011%
188	13.772	13.763	13.795	VV	250	3088	0.11%	0.006%
189	13.806	13.795	13.832	VV	217	2453	0.08%	0.005%
190	13.845	13.832	13.858	VV	54	642	0.02%	0.001%
191	13.873	13.858	13.891	VV	246	3546	0.12%	0.007%
192	13.926	13.891	13.984	VV	372	10252	0.35%	0.020%
193	14.005	13.984	14.014	VV	110	1114	0.04%	0.002%
194	14.043	14.014	14.065	PV	300	5543	0.19%	0.011%

					rteres			
195	14.098	14.065	14.114	VV	406	6293	0.22%	0.012%
196	14.142	14.114	14.177	VV	307	8939	0.31%	0.017%
197	14.198	14.177	14.208	VV	306	4350	0.15%	0.008%
198	14.227	14.208	14.256	VV	575	8669	0.30%	0.017%
199	14.278	14.256	14.353	VV	1111	27466	0.94%	0.053%
200	14.365	14.353	14.386	VV	239	3043	0.10%	0.006%
201	14.411	14.386	14.458	VV	1181	14899	0.51%	0.029%
202	14.517	14.458	14.558	PV	400	9824	0.34%	0.019%
203	14.575	14.558	14.594	VV	245	2448	0.08%	0.005%
204	14.674	14.594	14.698	VV	637	16413	0.56%	0.031%
205	14.718	14.698	14.738	VV	525	6520	0.22%	0.013%
206	14.784	14.738	14.821	VV	529	14736	0.50%	0.028%
207	14.844	14.821	14.864	VV	1134	14525	0.50%	0.028%
208	14.880	14.864	14.896	VV	386	4620	0.16%	0.009%
209	14.921	14.896	14.932	VV	315	4893	0.17%	0.009%
210	14.967	14.932	14.999	VV	586	12348	0.42%	0.024%
211	15.023	14.999	15.042	VV	194	3516	0.12%	0.007%
212	15.088	15.042	15.107	PV	256	5625	0.19%	0.011%
213	15.153	15.107	15.175	VV	272	7679	0.26%	0.015%
214	15.223	15.175	15.255	VV	419	10023	0.34%	0.019%
215	15.276	15.255	15.294	VV	339	4275	0.15%	0.008%
216	15.337	15.294	15.354	VV	1130	20614	0.71%	0.040%
217	15.382	15.354	15.408	VV	2451	37696	1.29%	0.072%
218	15.431	15.408	15.455	VV	1184	17944	0.61%	0.034%
219	15.492	15.455	15.511	VV	479	11814	0.40%	0.023%
220	15.534	15.511	15.555	VV	487	7517	0.26%	0.014%
221	15.578	15.555	15.614	VV	365	6625	0.23%	0.013%
222	15.640	15.614	15.681	PV	332	7384	0.25%	0.014%
223	15.768	15.681	15.841	VV	5821	113276	3.88%	0.217%
224	15.860	15.841	15.882	VV	360	5875	0.20%	0.011%
225	15.909	15.882	15.948	VV	1432	32683	1.12%	0.063%
226	15.961	15.948	15.974	VV	388	5280	0.18%	0.010%
227	15.990	15.974	16.033	VV	1275	21923	0.75%	0.042%
228	16.057	16.033	16.078	VV	261	3635	0.12%	0.007%
229	16.172	16.078	16.201	PV	419	11351	0.39%	0.022%
230	16.226	16.201	16.244	VV	351	6345	0.22%	0.012%
231	16.251	16.244	16.263	VV	219	1667	0.06%	0.003%
232	16.373	16.263	16.385	PV	593	21122	0.72%	0.041%
233	16.409	16.385	16.434	VV	1817	27381	0.94%	0.053%
234	16.469	16.434	16.507	VV	644	17788	0.61%	0.034%
235	16.542	16.507	16.555	VV	197	4408	0.15%	0.008%
236	16.615	16.555	16.664	PV	656	18664	0.64%	0.036%
237	16.724	16.664	16.747	PV	572	16237	0.56%	0.031%
238	16.788	16.747	16.837	VV	1744	45807	1.57%	0.088%
239	16.897	16.837	16.943	VV	3631	81220	2.78%	0.156%
240	16.978	16.943	17.000	VV	2101	36820	1.26%	0.071%
241	17.044	17.000	17.072	VV	982	34401	1.18%	0.066%
242	17.118	17.072	17.141	VV	958	32788	1.12%	0.063%
243	17.224	17.141	17.263	VV	1768	73662	2.52%	0.141%
244	17.282	17.263	17.308	VV	1567	30381	1.04%	0.058%
245	17.362	17.308	17.388	VV	4685	108947	3.73%	0.209%
246	17.404	17.388	17.424	VV	2349	44882	1.54%	0.086%

					rteres			
247	17.439	17.424	17.474	VV	2274	53926	1.85%	0.103%
248	17.549	17.474	17.558	VV	2131	90167	3.09%	0.173%
249	17.630	17.558	17.658	VV	2707	143858	4.93%	0.276%
250	17.738	17.658	17.757	VV	3385	176865	6.06%	0.339%
251	17.776	17.757	17.783	VV	3609	51587	1.77%	0.099%
252	17.812	17.783	17.848	VV	8538	201200	6.89%	0.386%
253	17.865	17.848	17.880	VV	3646	66609	2.28%	0.128%
254	17.898	17.880	17.918	VV	4098	83172	2.85%	0.160%
255	17.948	17.918	17.978	VV	4139	133730	4.58%	0.257%
256	18.004	17.978	18.018	VV	3988	89332	3.06%	0.171%
257	18.251	18.018	18.298	VV	12360	887904	30.42%	1.703%
258	18.342	18.298	18.367	VV	7330	258956	8.87%	0.497%
259	18.419	18.367	18.441	VV	9151	334520	11.46%	0.642%
260	18.453	18.441	18.486	VV	7691	197707	6.77%	0.379%
261	18.525	18.486	18.536	VV	7724	224389	7.69%	0.430%
262	18.618	18.536	18.648	VV	11493	605372	20.74%	1.161%
263	18.675	18.648	18.710	VV	16388	448668	15.37%	0.861%
264	18.785	18.710	18.834	VV	13049	786695	26.96%	1.509%
265	18.855	18.834	18.868	VV	11051	217688	7.46%	0.418%
266	18.912	18.868	18.922	VV	12352	374381	12.83%	0.718%
267	18.949	18.922	18.973	VV	12434	377731	12.94%	0.725%
268	19.085	18.973	19.139	VV	21312	1403793	48.10%	2.693%
269	19.211	19.139	19.232	VV	16774	835834	28.64%	1.603%
270	19.258	19.232	19.283	VV	17153	484594	16.60%	0.930%
271	19.390	19.283	19.406	VV	17622	1200649	41.14%	2.303%
272	19.541	19.517	19.576	VV	20883	705225	24.16%	1.353%
273	19.633	19.576	19.649	VV	22619	935787	32.06%	1.795%
274	19.677	19.649	19.687	VV	23049	515236	17.65%	0.988%
275	19.741	19.687	19.811	VV	26450	1839454	63.03%	3.529%
276	19.872	19.811	19.903	VV	33124	1521505	52.13%	2.919%
277	19.919	19.903	19.960	VV	28397	954433	32.70%	1.831%
278	20.015	19.960	20.032	VV	30891	1269813	43.51%	2.436%
279	20.151	20.032	20.171	VV	35095	2776953	95.15%	5.327%
280	20.180	20.171	20.214	VV	35169	882923	30.25%	1.694%
281	20.247	20.214	20.282	VV	42873	1554872	53.28%	2.983%
282	20.312	20.282	20.322	VV	37758	898542	30.79%	1.724%
283	20.438	20.322	20.446	VV	42347	2918522	100.00%	5.599%
284	20.537	20.446	20.556	VV	45535	2891392	99.07%	5.547%
285	20.613	20.556	20.648	VV	50833	2586159	88.61%	4.961%
286	20.703	20.648	20.718	VV	51568	2065430	70.77%	3.962%
287	20.783	20.718	20.798	VV	52611	2495880	85.52%	4.788%
288	20.805	20.798	20.823	VV	52519	776279	26.60%	1.489%
289	20.837	20.823	20.884	VV	52468	1921353	65.83%	3.686%
290	20.887	20.884	20.916	VV	51987	978410	33.52%	1.877%
291	20.927	20.916	20.947	VV	51143	952644	32.64%	1.828%
292	20.985	20.947	21.027	VV	54258	2474762	84.80%	4.748%
293	21.054	21.027	21.071	VV	51428	1341804	45.98%	2.574%
					Sum of corrected areas:			
					52127294			

Aliphatic EPH 072625.M Wed Jul 30 04:23:23 2025

Report of Analysis

Client:	G Environmental	Date Collected:	07/25/25
Project:	Freehold	Date Received:	07/25/25
Client Sample ID:	FG1B	SDG No.:	Q2705
Lab Sample ID:	Q2705-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.9
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
07/28/25 09:00	07/28/25 17:21	PB169021

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	35.7		1	1.37	2.33	mg/kg	FE055052.D
Aliphatic C9-C28	Aliphatic C9-C28	4.50	J	1	1.06	4.64	mg/kg	FE055052.D
Total AliphaticEPH	Total AliphaticEPH	40.2			2.43	6.97	mg/kg	
Total EPH	Total EPH	40.2			2.43	6.97	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:	G Environmental	Date Collected:	07/25/25
Project:	Freehold	Date Received:	07/25/25
Client Sample ID:	FG1B	SDG No.:	Q2705
Lab Sample ID:	Q2705-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.9
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
FE055052.D	1	07/28/25	07/28/25	PB169021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.50	J	1.06	4.64	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	35.7		1.37	2.33	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.5		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.6		40 - 140	71%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2705-02	Acq On:	28 Jul 2025 17:21
Client Sample ID:	FG1B	Operator:	YP\AJ
Data file:	FE055052.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	3.324	6.959	327425	2.641	300	ug/ml
Aliphatic C12-C16	6.960	10.413	814119	6.125	200	ug/ml
Aliphatic C16-C21	10.414	13.792	4995857	38.097	300	ug/ml
Aliphatic C21-C28	13.793	17.462	1408018	11.286	400	ug/ml
Aliphatic C28-C40	17.463	22.490	55539065	460.948	600	ug/ml
Aliphatic EPH	3.324	22.490	63084484	519.097		ug/ml
ortho-Terphenyl (SURR)	12.092	12.092	5266198	35.58		ug/ml
1-chlorooctadecane (SURR)	13.529	13.529	4202139	37.52		ug/ml
Aliphatic C9-C28	3.324	17.462	7545419	58.149	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
 Data File : FE055052.D
 Signal(s) : FID1B.ch
 Acq On : 28 Jul 2025 17:21
 Operator : YP\AJ
 Sample : Q2705-02
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 FG1B

Integration File: sample.E
 Quant Time: Jul 29 02:40:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:55:28 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	5266198	35.577 ug/ml
Spiked Amount 50.000		Recovery =	71.15%
12) S 1-chlorooctadecane (S...	13.529	4202139	37.525 ug/ml
Spiked Amount 50.000		Recovery =	75.05%

Target Compounds

(f)=RT Delta > 1/2 Window

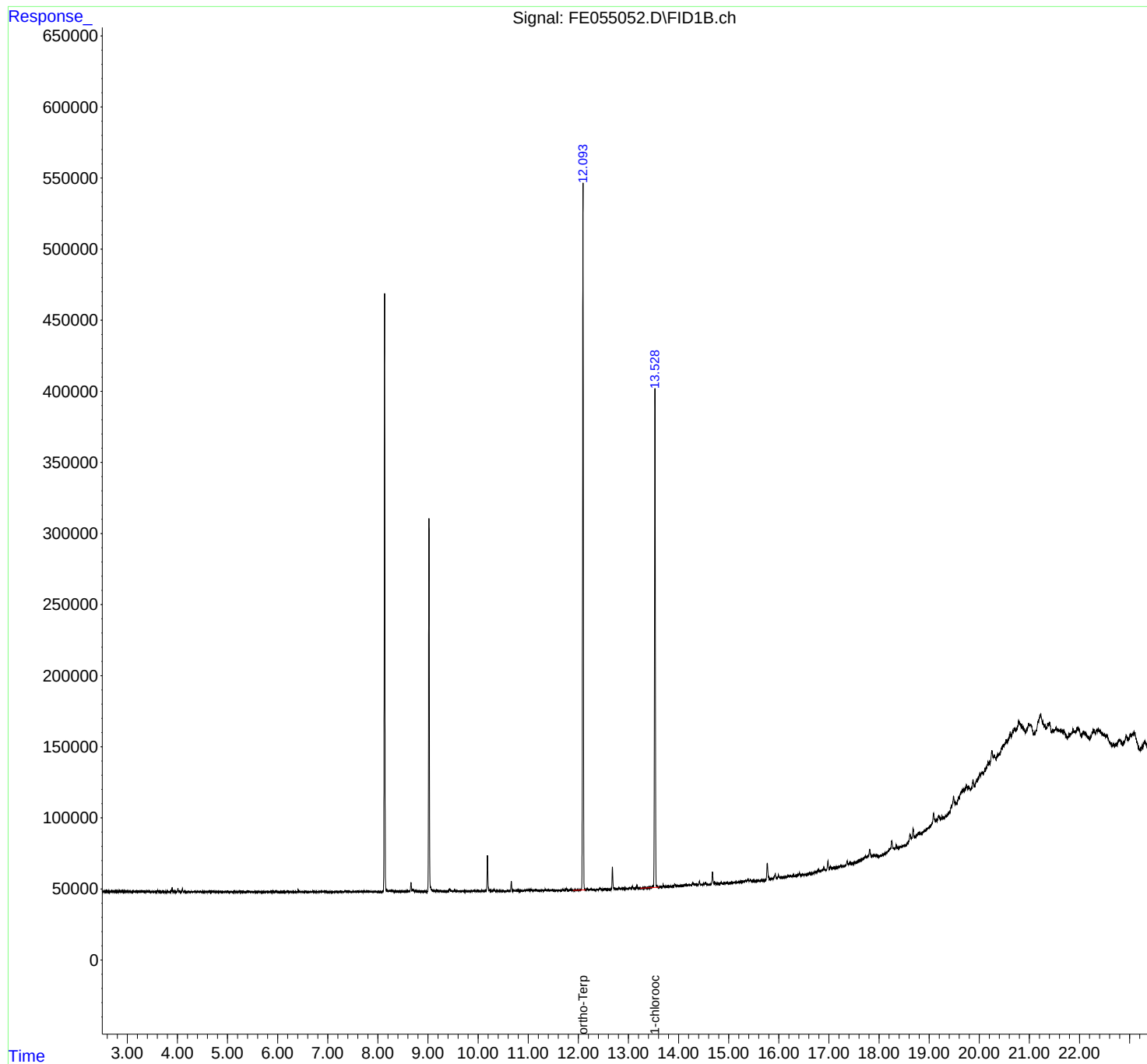
(m)=manual int.

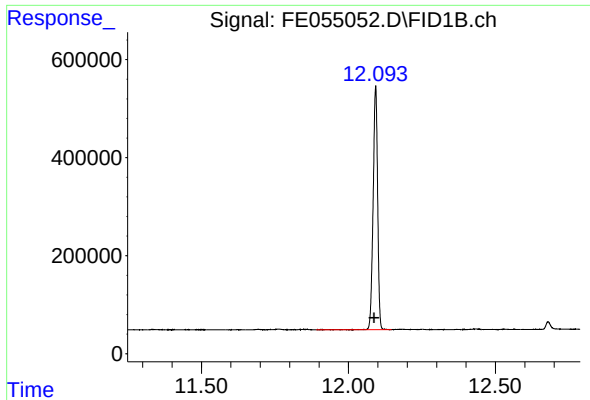
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
Data File : FE055052.D
Signal(s) : FID1B.ch
Acq On : 28 Jul 2025 17:21
Operator : YP\AJ
Sample : Q2705-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
FG1B

Integration File: sample.E
Quant Time: Jul 29 02:40:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:55:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

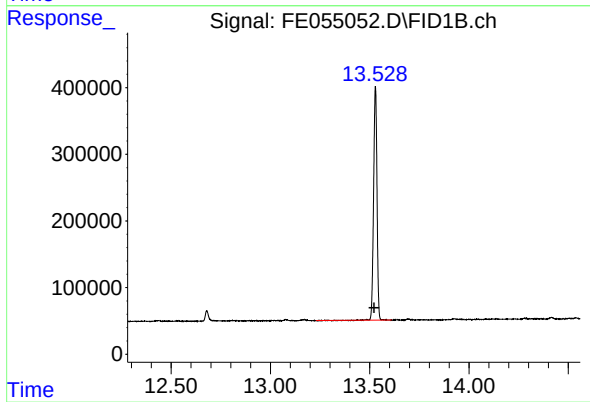




#9 ortho-Terphenyl (SURR)

R.T.: 12.092 min
Delta R.T.: 0.004 min
Response: 5266198
Conc: 35.58 ug/ml

Instrument :
FID_E
ClientSampleId :
FG1B



#12 1-chlorooctadecane (SURR)

R.T.: 13.529 min
Delta R.T.: 0.006 min
Response: 4202139
Conc: 37.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
 Data File : FE055052.D
 Signal(s) : FID1B.ch
 Acq On : 28 Jul 2025 17:21
 Sample : Q2705-02
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.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	PV	254	4504	0.08%	0.007%
2	2.913	2.884	3.004	PV	208	5343	0.09%	0.008%
3	3.015	3.004	3.091	PV	63	2231	0.04%	0.003%
4	3.156	3.091	3.202	VV	191	4955	0.08%	0.007%
5	3.244	3.202	3.253	PV	237	2798	0.05%	0.004%
6	3.267	3.253	3.385	VV	339	11279	0.19%	0.016%
7	3.426	3.385	3.441	VV	191	3542	0.06%	0.005%
8	3.445	3.441	3.478	VV	114	1620	0.03%	0.002%
9	3.482	3.478	3.548	VV	112	2581	0.04%	0.004%
10	3.558	3.548	3.568	VV	134	1069	0.02%	0.002%
11	3.572	3.568	3.588	VV	144	845	0.01%	0.001%
12	3.606	3.588	3.683	PV	889	11332	0.19%	0.017%
13	3.697	3.683	3.755	VV	146	3231	0.05%	0.005%
14	3.801	3.755	3.840	VV	273	6538	0.11%	0.010%
15	3.856	3.840	3.868	VV	267	3096	0.05%	0.005%
16	3.894	3.868	3.951	VV	2862	30257	0.51%	0.044%
17	4.010	3.951	4.065	VV	2532	25677	0.43%	0.038%
18	4.101	4.065	4.159	PV	1942	21770	0.37%	0.032%
19	4.168	4.159	4.175	VV	92	486	0.01%	0.001%
20	4.226	4.175	4.241	VV	141	4142	0.07%	0.006%
21	4.248	4.241	4.261	VV	105	1138	0.02%	0.002%
22	4.279	4.261	4.391	VV	318	10691	0.18%	0.016%
23	4.411	4.391	4.430	VV	363	5748	0.10%	0.008%
24	4.447	4.430	4.475	VV	285	5210	0.09%	0.008%
25	4.484	4.475	4.531	VV	182	4017	0.07%	0.006%
26	4.569	4.531	4.592	VV	212	5116	0.09%	0.007%
27	4.622	4.592	4.661	VV	242	6893	0.12%	0.010%
28	4.684	4.661	4.731	VV	364	7360	0.12%	0.011%
29	4.741	4.731	4.754	VV	157	1627	0.03%	0.002%
30	4.759	4.754	4.781	VV	114	1253	0.02%	0.002%
31	4.796	4.781	4.835	VV	130	2176	0.04%	0.003%
32	4.850	4.835	4.908	VV	177	3270	0.06%	0.005%
33	4.926	4.908	5.040	VV	175	7130	0.12%	0.010%
34	5.056	5.040	5.095	VV	146	3911	0.07%	0.006%
35	5.103	5.095	5.117	VV	195	1812	0.03%	0.003%
36	5.140	5.117	5.149	VV	174	2202	0.04%	0.003%

					rteres			
37	5.156	5.149	5.173	VV	137	1239	0.02%	0.002%
38	5.215	5.173	5.325	VV	133	7769	0.13%	0.011%
39	5.412	5.325	5.469	PV	240	9379	0.16%	0.014%
40	5.506	5.469	5.584	VV	176	6832	0.12%	0.010%
41	5.630	5.584	5.661	VV	407	5965	0.10%	0.009%
42	5.676	5.661	5.803	VV	120	4586	0.08%	0.007%
43	5.825	5.803	5.843	VV	245	2688	0.05%	0.004%
44	5.883	5.843	5.980	VV	392	10778	0.18%	0.016%
45	6.004	5.980	6.064	VV	122	3921	0.07%	0.006%
46	6.081	6.064	6.098	VV	120	1457	0.02%	0.002%
47	6.141	6.098	6.181	VV	182	4424	0.07%	0.006%
48	6.257	6.181	6.290	VV	139	5699	0.10%	0.008%
49	6.306	6.290	6.334	VV	112	2008	0.03%	0.003%
50	6.349	6.334	6.388	VV	149	3143	0.05%	0.005%
51	6.408	6.388	6.463	VV	918	15812	0.27%	0.023%
52	6.484	6.463	6.544	VV	315	9212	0.16%	0.013%
53	6.563	6.544	6.612	VV	225	5270	0.09%	0.008%
54	6.653	6.612	6.675	VV	218	4809	0.08%	0.007%
55	6.700	6.675	6.785	VV	581	12964	0.22%	0.019%
56	6.804	6.785	6.824	VV	188	2693	0.05%	0.004%
57	6.865	6.824	6.914	VV	334	11147	0.19%	0.016%
58	6.937	6.914	7.004	VV	472	9890	0.17%	0.014%
59	7.016	7.004	7.056	VV	178	2996	0.05%	0.004%
60	7.074	7.056	7.098	VV	180	2062	0.03%	0.003%
61	7.145	7.098	7.218	VV	153	7133	0.12%	0.010%
62	7.269	7.218	7.302	PV	435	7889	0.13%	0.012%
63	7.350	7.302	7.483	VV	607	26641	0.45%	0.039%
64	7.505	7.483	7.524	VV	203	4116	0.07%	0.006%
65	7.543	7.524	7.618	VV	399	9746	0.16%	0.014%
66	7.680	7.618	7.780	VV	352	18493	0.31%	0.027%
67	7.812	7.780	7.941	VV	347	16033	0.27%	0.023%
68	7.952	7.941	8.008	VV	158	3459	0.06%	0.005%
69	8.033	8.008	8.068	VV	141	3110	0.05%	0.005%
70	8.231	8.214	8.254	VV	776	16626	0.28%	0.024%
71	8.272	8.254	8.388	VV	1148	31214	0.53%	0.046%
72	8.470	8.388	8.501	VV	283	13289	0.22%	0.019%
73	8.591	8.501	8.634	VV	516	25345	0.43%	0.037%
74	8.661	8.634	8.684	VV	6450	81471	1.37%	0.119%
75	8.700	8.684	8.744	VV	1268	27401	0.46%	0.040%
76	8.760	8.744	8.784	VV	537	8031	0.14%	0.012%
77	8.808	8.784	8.857	VV	280	8009	0.14%	0.012%
78	8.875	8.857	8.910	VV	179	3990	0.07%	0.006%
79	8.925	8.910	8.981	VV	164	4388	0.07%	0.006%
80	9.172	9.148	9.218	VV	900	20445	0.34%	0.030%
81	9.238	9.218	9.284	VV	390	10763	0.18%	0.016%
82	9.328	9.284	9.373	VV	302	12072	0.20%	0.018%
83	9.432	9.373	9.497	VV	1576	40964	0.69%	0.060%
84	9.529	9.497	9.654	VV	907	29627	0.50%	0.043%
85	9.713	9.654	9.784	VV	264	11409	0.19%	0.017%
86	9.822	9.784	9.846	VV	192	4825	0.08%	0.007%
87	9.913	9.846	9.964	PV	525	17759	0.30%	0.026%
88	9.987	9.964	10.048	VV	409	11699	0.20%	0.017%
89	10.074	10.048	10.117	VV	439	8687	0.15%	0.013%

					rteres			
90	10.187	10.117	10.288	VV	24910	300668	5.07%	0.440%
91	10.313	10.288	10.401	VV	1143	23759	0.40%	0.035%
92	10.420	10.401	10.532	VV	225	8398	0.14%	0.012%
93	10.663	10.532	10.738	PV	6962	89245	1.51%	0.130%
94	10.759	10.738	10.821	VV	508	14952	0.25%	0.022%
95	10.855	10.821	10.878	VV	293	5520	0.09%	0.008%
96	10.979	10.878	10.993	VV	502	23120	0.39%	0.034%
97	11.011	10.993	11.034	VV	723	12792	0.22%	0.019%
98	11.056	11.034	11.104	VV	1181	21546	0.36%	0.032%
99	11.129	11.104	11.148	VV	617	10359	0.17%	0.015%
100	11.161	11.148	11.221	VV	602	13945	0.24%	0.020%
101	11.275	11.221	11.301	VV	328	9359	0.16%	0.014%
102	11.339	11.301	11.378	VV	732	17732	0.30%	0.026%
103	11.395	11.378	11.424	VV	351	7834	0.13%	0.011%
104	11.451	11.424	11.468	VV	351	6515	0.11%	0.010%
105	11.491	11.468	11.548	VV	305	10029	0.17%	0.015%
106	11.560	11.548	11.601	VV	158	3667	0.06%	0.005%
107	11.625	11.601	11.668	PV	321	5846	0.10%	0.009%
108	11.693	11.668	11.718	PV	901	12236	0.21%	0.018%
109	11.763	11.718	11.816	VV	1435	26966	0.45%	0.039%
110	11.852	11.816	11.898	VV	795	16143	0.27%	0.024%
111	11.928	11.898	12.014	VV	343	11538	0.19%	0.017%
112	12.092	12.014	12.147	VV	493037	5275455	88.99%	7.714%
113	12.184	12.147	12.234	VV	660	23025	0.39%	0.034%
114	12.251	12.234	12.301	VV	719	11189	0.19%	0.016%
115	12.316	12.301	12.338	PV	266	3456	0.06%	0.005%
116	12.372	12.338	12.394	PV	369	5482	0.09%	0.008%
117	12.434	12.394	12.474	VV	1222	22799	0.38%	0.033%
118	12.487	12.474	12.505	VV	234	2677	0.05%	0.004%
119	12.531	12.505	12.578	VV	580	9840	0.17%	0.014%
120	12.680	12.578	12.788	VV	15413	199333	3.36%	0.291%
121	12.811	12.788	12.864	VV	666	17345	0.29%	0.025%
122	12.895	12.864	12.941	VV	410	12482	0.21%	0.018%
123	12.972	12.941	12.991	VV	306	4530	0.08%	0.007%
124	13.019	12.991	13.054	VV	666	13696	0.23%	0.020%
125	13.078	13.054	13.123	VV	1835	28690	0.48%	0.042%
126	13.168	13.123	13.214	PV	1597	31955	0.54%	0.047%
127	13.230	13.214	13.261	VV	93	2319	0.04%	0.003%
128	13.283	13.261	13.311	VV	257	5293	0.09%	0.008%
129	13.346	13.311	13.371	VV	269	5881	0.10%	0.009%
130	13.528	13.371	13.608	VV	351845	4222382	71.22%	6.174%
131	13.639	13.608	13.664	VV	511	10938	0.18%	0.016%
132	13.694	13.664	13.728	VV	1400	23324	0.39%	0.034%
133	13.774	13.728	13.798	VV	394	11479	0.19%	0.017%
134	13.818	13.798	13.852	VV	207	5254	0.09%	0.008%
135	13.926	13.852	14.014	PV	1606	47187	0.80%	0.069%
136	14.135	14.014	14.164	VV	891	46504	0.78%	0.068%
137	14.228	14.164	14.251	VV	863	29457	0.50%	0.043%
138	14.281	14.251	14.354	VV	1727	52629	0.89%	0.077%
139	14.371	14.354	14.386	VV	653	10480	0.18%	0.015%
140	14.416	14.386	14.461	VV	2710	44073	0.74%	0.064%
141	14.537	14.461	14.628	VV	1826	59288	1.00%	0.087%

					rteres			
142	14.676	14.628	14.704	PV	8870	119829	2.02%	0.175%
143	14.720	14.704	14.745	VV	1926	27691	0.47%	0.040%
144	14.764	14.745	14.824	VV	651	18869	0.32%	0.028%
145	14.846	14.824	14.868	PV	1345	15555	0.26%	0.023%
146	14.921	14.868	14.938	VV	460	10302	0.17%	0.015%
147	14.969	14.938	15.004	VV	497	11741	0.20%	0.017%
148	15.153	15.004	15.177	VV	436	27864	0.47%	0.041%
149	15.238	15.177	15.261	VV	573	16797	0.28%	0.025%
150	15.281	15.261	15.301	VV	702	11226	0.19%	0.016%
151	15.339	15.301	15.357	VV	976	20950	0.35%	0.031%
152	15.386	15.357	15.414	VV	2007	35147	0.59%	0.051%
153	15.434	15.414	15.481	VV	1471	26559	0.45%	0.039%
154	15.493	15.481	15.510	VV	385	5423	0.09%	0.008%
155	15.580	15.510	15.614	VV	573	14546	0.25%	0.021%
156	15.692	15.614	15.711	PV	186	7277	0.12%	0.011%
157	15.770	15.711	15.836	PV	11962	199614	3.37%	0.292%
158	15.865	15.836	15.888	VV	617	13033	0.22%	0.019%
159	15.927	15.888	15.954	VV	3383	62954	1.06%	0.092%
160	15.993	15.954	16.026	VV	2438	44323	0.75%	0.065%
161	16.048	16.026	16.081	VV	695	13817	0.23%	0.020%
162	16.192	16.081	16.258	VV	1057	42395	0.72%	0.062%
163	16.291	16.258	16.314	VV	567	11391	0.19%	0.017%
164	16.411	16.314	16.441	VV	1611	32495	0.55%	0.048%
165	16.472	16.441	16.491	VV	360	7556	0.13%	0.011%
166	16.617	16.491	16.641	PV	282	7465	0.13%	0.011%
167	16.790	16.641	16.831	PV	1388	33804	0.57%	0.049%
168	16.897	16.831	16.948	VV	2305	54189	0.91%	0.079%
169	16.980	16.948	17.008	VV	6375	86299	1.46%	0.126%
170	17.029	17.008	17.057	VV	1505	25797	0.44%	0.038%
171	17.093	17.057	17.111	VV	455	13516	0.23%	0.020%
172	17.129	17.111	17.144	VV	337	4635	0.08%	0.007%
173	17.363	17.144	17.388	PV	3023	63735	1.08%	0.093%
174	17.412	17.388	17.429	VV	1223	18382	0.31%	0.027%
175	17.441	17.429	17.461	VV	687	7970	0.13%	0.012%
176	17.814	17.461	17.848	PV	6727	349627	5.90%	0.511%
177	17.902	17.848	17.931	VV	2101	76423	1.29%	0.112%
178	17.949	17.931	17.984	VV	1131	22283	0.38%	0.033%
179	18.254	17.984	18.318	PV	6899	205113	3.46%	0.300%
180	18.344	18.318	18.374	VV	2736	45583	0.77%	0.067%
181	18.425	18.374	18.441	PV	735	10945	0.18%	0.016%
182	18.617	18.441	18.646	PV	6006	131008	2.21%	0.192%
183	18.678	18.646	18.728	VV	8948	196971	3.32%	0.288%
184	18.815	18.728	18.861	VV	3679	250515	4.23%	0.366%
185	18.904	18.861	18.920	VV	3748	116227	1.96%	0.170%
186	19.087	18.920	19.134	VV	12919	765549	12.91%	1.119%
187	19.190	19.134	19.231	VV	9732	438547	7.40%	0.641%
188	19.260	19.231	19.301	VV	7336	274621	4.63%	0.402%
189	19.487	19.301	19.515	VV	18140	1271255	21.44%	1.859%
190	19.530	19.515	19.554	VV	13002	294779	4.97%	0.431%
191	19.683	19.554	19.701	VV	19587	1489163	25.12%	2.177%
192	19.748	19.701	19.781	VV	21015	944729	15.94%	1.381%
193	19.790	19.781	19.831	VV	20162	548102	9.25%	0.801%
194	19.875	19.831	19.911	VV	23387	928091	15.66%	1.357%

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195	20.063	19.911	20.081	VV	25355	2325719	39.23%	3.401%
196	20.251	20.081	20.278	VV	37327	3468490	58.51%	5.072%
197	20.298	20.278	20.331	VV	33589	1025899	17.31%	1.500%
198	20.549	20.331	20.563	VV	39742	4885499	82.41%	7.143%
199	20.617	20.563	20.636	VV	44549	1786567	30.14%	2.612%
200	20.700	20.636	20.721	VV	45089	2228754	37.60%	3.259%
201	20.788	20.721	20.924	VV	47981	5396157	91.02%	7.890%
202	20.990	20.924	21.009	VV	43788	2119761	35.76%	3.099%
203	21.026	21.009	21.081	VV	42755	1722951	29.06%	2.519%
204	21.225	21.081	21.331	VV	47035	5928273	100.00%	8.668%
205	21.401	21.331	21.441	VV	37662	2338271	39.44%	3.419%
206	21.531	21.441	21.585	VV	31875	2639698	44.53%	3.860%
207	21.607	21.585	21.636	VV	29042	865130	14.59%	1.265%
208	21.652	21.636	21.672	VV	27852	583424	9.84%	0.853%
209	21.689	21.672	21.758	VV	27813	1250944	21.10%	1.829%
210	21.787	21.758	21.804	VV	23468	616975	10.41%	0.902%
211	21.869	21.804	21.904	VV	25593	1383545	23.34%	2.023%
212	21.960	21.904	22.048	VV	24802	1882751	31.76%	2.753%
213	22.078	22.048	22.201	VV	19948	1568609	26.46%	2.294%
214	22.279	22.201	22.318	VV	17490	1083467	18.28%	1.584%
215	22.373	22.318	22.654	VV	17149	2078650	35.06%	3.039%

Sum of corrected areas: 68391048

Aliphatic EPH 072625.M Tue Jul 29 04:12:15 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC071525AL

AreaCount

Parameter Range	FC069448.D	FC069449.D	FC069450.D	FC069451.D	FC069452.D	
Aliphatic C9-C12	40045369.000	19347816.000	8027560.000	4373179.000	2294433.000	
Aliphatic C12-C16	27682150.000	13377176.000	5535957.000	3031800.000	1581956.000	
Aliphatic C16-C21	39110534.000	19006400.000	7808775.000	4286297.000	2248262.000	
Aliphatic C21-C28	45569666.000	22124549.000	9106701.000	5004692.000	2628946.000	
Aliphatic C28-C40	50207637.000	24374390.000	10318570.000	5685866.000	3112078.000	
Aliphatic EPH	202615356.000	98230331.000	40797563.000	22381834.000	11865675.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	138999.5006664	7.182				
Aliphatic C12-C16	144073.407	7.166				
Aliphatic C16-C21	135996.9459996	7.282				
Aliphatic C21-C28	118989.0545	7.458				
Aliphatic C28-C40	89883.162333	10.317				
Aliphatic EPH	118243.9636662	8.038				

Concentration

Parameter Range	FC069448.D	FC069449.D	FC069450.D	FC069451.D	FC069452.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	FC069448.D	FC069449.D	FC069450.D	FC069451.D	FC069452.D	
Aliphatic C9-C12	133484.563333	128985.440000	133792.666666	145772.633333	152962.200000	
Aliphatic C12-C16	138410.750000	133771.760000	138398.925000	151590.000000	158195.600000	
Aliphatic C16-C21	130368.446666	126709.333333	130146.250000	142876.566666	149884.133333	

Initial Calibration Report for SequenceID : FC071525AL

Aliphatic C21-C28	113924.165000	110622.745000	113833.762500	125117.300000	131447.300000	
Aliphatic C28-C40	83679.395000	81247.966666	85988.083333	94764.433333	103735.933333	
Aliphatic EPH	112564.086666	109144.812222	113326.563888	124343.522222	131840.833333	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069448.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 09:05
 Operator : YP/AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Jul 15 10:58:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 10:56:36 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.679	14279406	100.233 ug/ml
Spiked Amount 50.000		Recovery =	200.47%
12) S 1-chlorooctadecane (S...	13.112	10923644	100.498 ug/ml
Spiked Amount 50.000		Recovery =	201.00%
Target Compounds			
1) T n-Nonane (C9)	3.407	13034330	99.691 ug/ml
2) T n-Decane (C10)	4.481	13354937	99.821 ug/ml
3) T A~Naphthalene (C11.7)	6.076	14466197	99.631 ug/ml
4) T n-Dodecane (C12)	6.506	13656102	100.133 ug/ml
5) T A~2-methylnaphthalene...	7.136	14050606	100.045 ug/ml
6) T n-Tetradecane (C14)	8.305	13682478	99.985 ug/ml
7) T n-Hexadecane (C16)	9.910	13999672	100.023 ug/ml
8) T n-Octadecane (C18)	11.356	13791460	99.999 ug/ml
10) T n-Eicosane (C20)	12.666	12862062	100.092 ug/ml
11) T n-Heneicosane (C21)	13.279	12457012	100.174 ug/ml
13) T n-Docosane (C22)	13.866	12185301	100.145 ug/ml
14) T n-Tetracosane (C24)	14.970	11718968	100.145 ug/ml
15) T n-Hexacosane (C26)	15.993	11141729	100.143 ug/ml
16) T n-Octacosane (C28)	16.944	10523668	99.693 ug/ml
17) T n-Tricontane (C30)	17.833	10222229	98.980 ug/ml
18) T n-Dotriacontane (C32)	18.666	9560238	98.467 ug/ml
19) T n-Tetratriacontane (C34)	19.449	8724728	98.453 ug/ml
20) T n-Hexatriacontane (C36)	20.191	7686807	98.499 ug/ml
21) T n-Octatriacontane (C38)	20.955	7121260	98.702 ug/ml
22) T n-Tetracontane (C40)	21.921	6892375	98.702 ug/ml

(f)=RT Delta > 1/2 Window

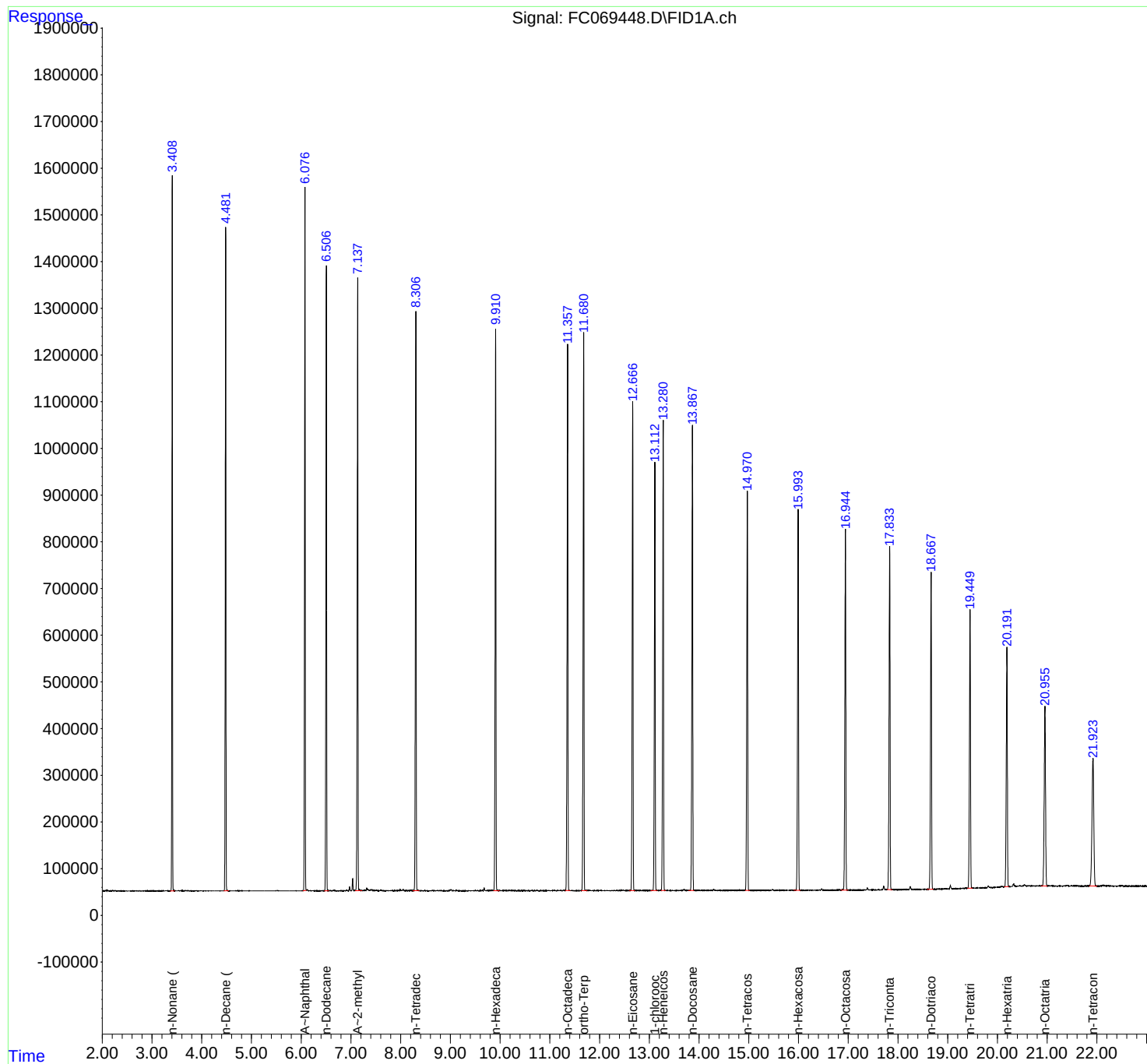
(m)=manual int.

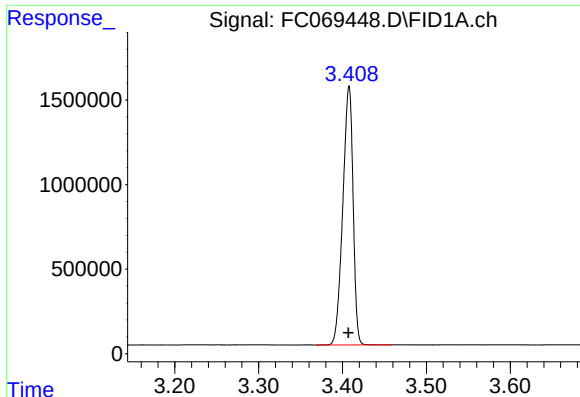
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
Data File : FC069448.D
Signal(s) : FID1A.ch
Acq On : 15 Jul 2025 09:05
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jul 15 10:58:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 10:56:36 2025
Response via : Initial Calibration
Integrator: ChemStation

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

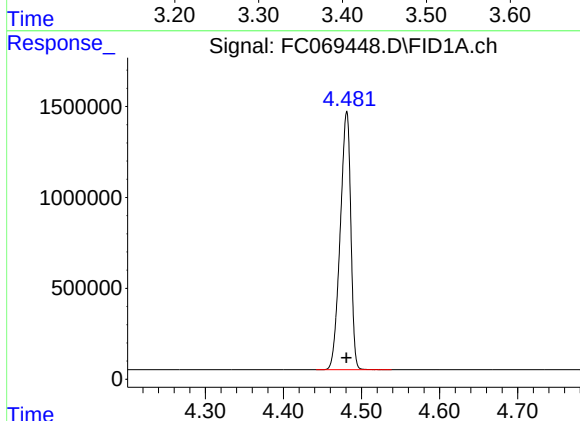




#1 n-Nonane (C9)

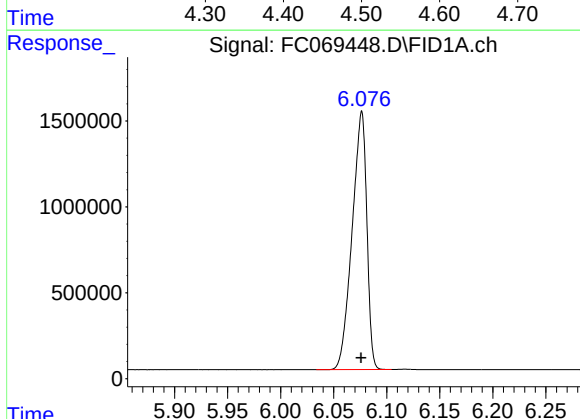
R.T.: 3.407 min
Delta R.T.: 0.000 min
Response: 13034330
Conc: 99.69 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



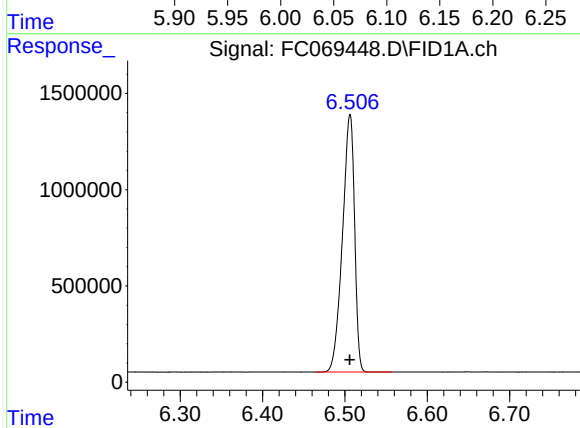
#2 n-Decane (C10)

R.T.: 4.481 min
Delta R.T.: 0.000 min
Response: 13354937
Conc: 99.82 ug/ml



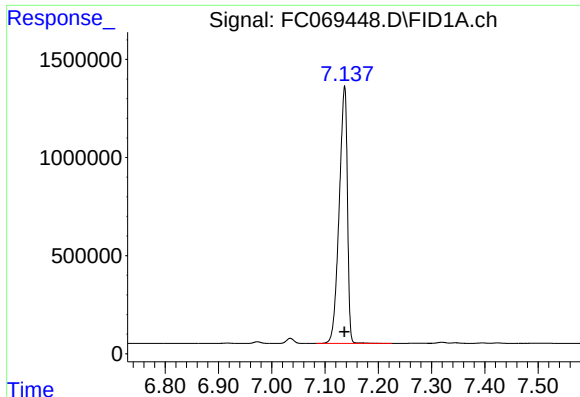
#3 A~Naphthalene (C11.7)

R.T.: 6.076 min
Delta R.T.: 0.000 min
Response: 14466197
Conc: 99.63 ug/ml



#4 n-Dodecane (C12)

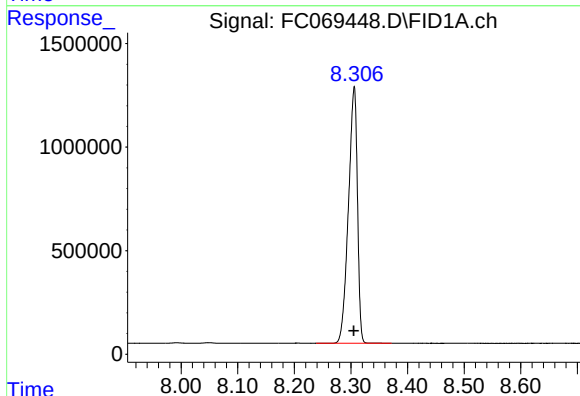
R.T.: 6.506 min
Delta R.T.: 0.000 min
Response: 13656102
Conc: 100.13 ug/ml



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

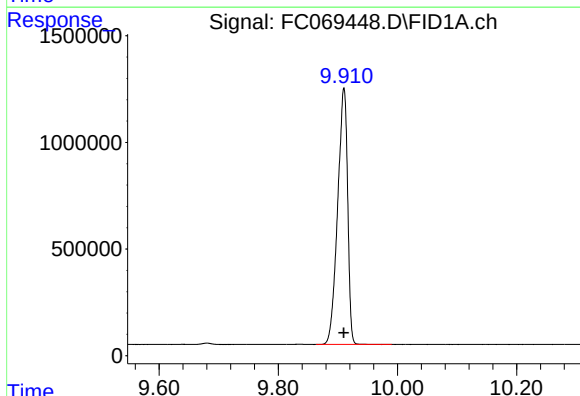
R.T.: 7.136 min
Delta R.T.: 0.000 min
Response: 14050606
Conc: 100.05 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



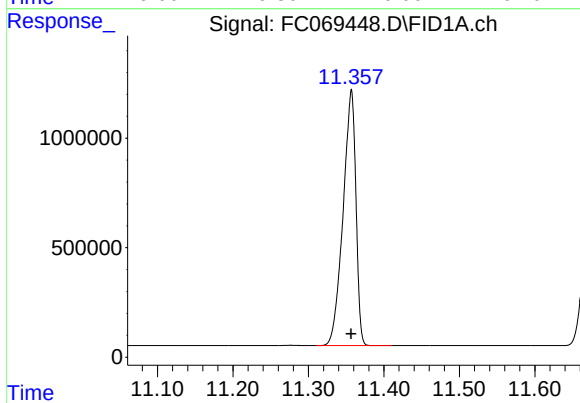
#6 n-Tetradecane (C14)

R.T.: 8.305 min
Delta R.T.: 0.000 min
Response: 13682478
Conc: 99.99 ug/ml



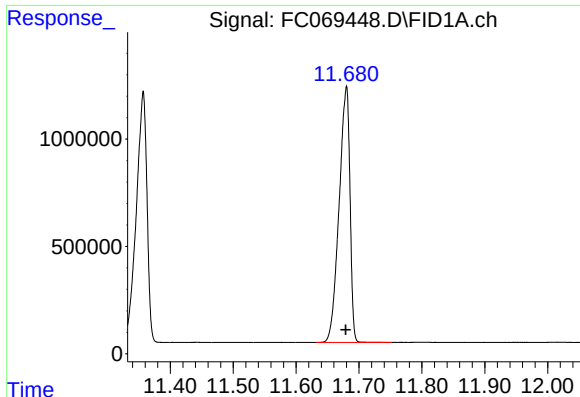
#7 n-Hexadecane (C16)

R.T.: 9.910 min
Delta R.T.: 0.000 min
Response: 13999672
Conc: 100.02 ug/ml



#8 n-Octadecane (C18)

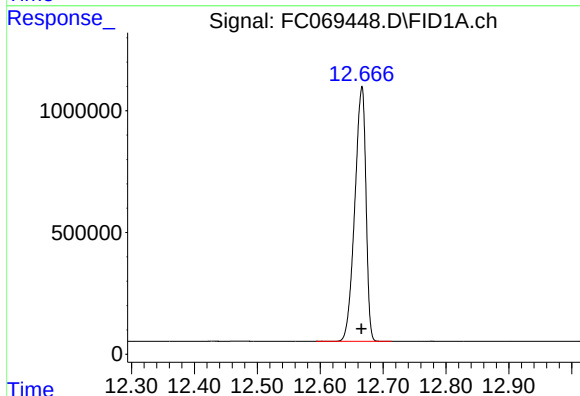
R.T.: 11.356 min
Delta R.T.: 0.000 min
Response: 13791460
Conc: 100.00 ug/ml



#9 ortho-Terphenyl (SURR)

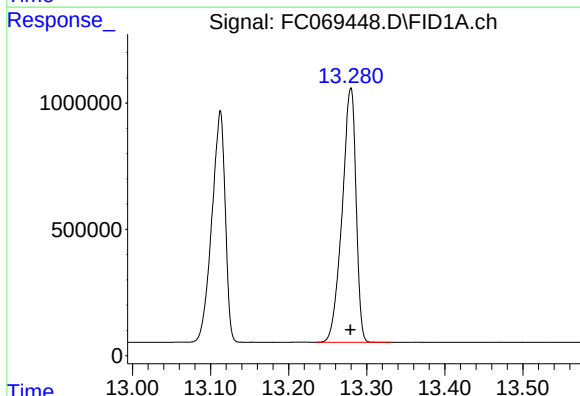
R.T.: 11.679 min
Delta R.T.: 0.000 min
Response: 14279406
Conc: 100.23 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



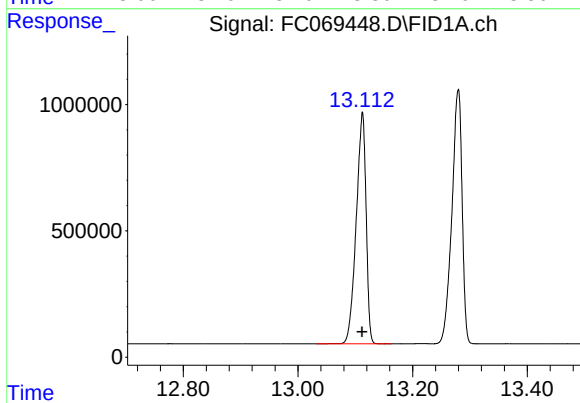
#10 n-Eicosane (C20)

R.T.: 12.666 min
Delta R.T.: 0.000 min
Response: 12862062
Conc: 100.09 ug/ml



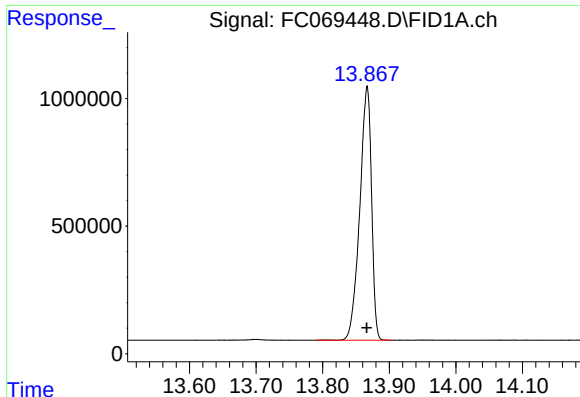
#11 n-Heneicosane (C21)

R.T.: 13.279 min
Delta R.T.: 0.000 min
Response: 12457012
Conc: 100.17 ug/ml



#12 1-chlorooctadecane (SURR)

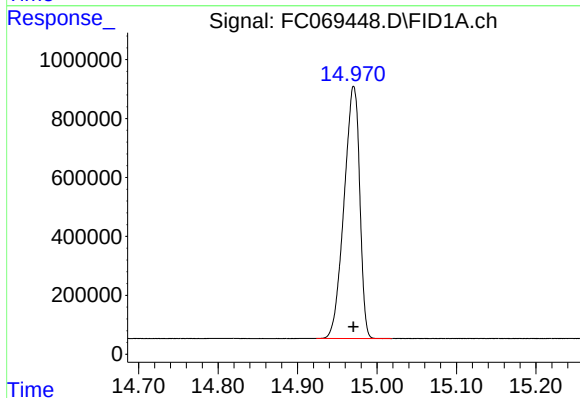
R.T.: 13.112 min
Delta R.T.: 0.000 min
Response: 10923644
Conc: 100.50 ug/ml



#13 n-Docosane (C22)

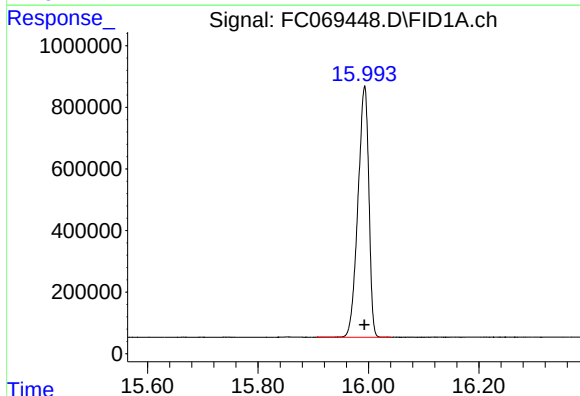
R.T.: 13.866 min
Delta R.T.: 0.000 min
Response: 12185301
Conc: 100.15 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



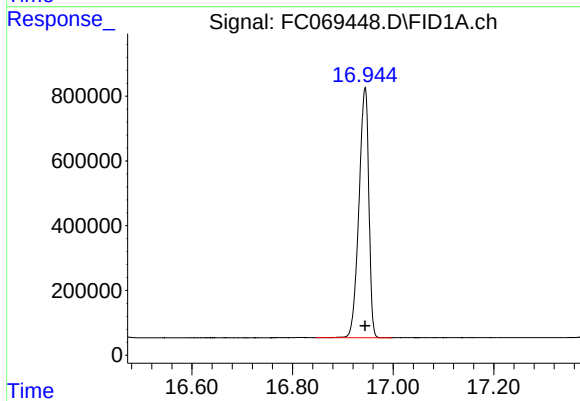
#14 n-Tetracosane (C24)

R.T.: 14.970 min
Delta R.T.: 0.000 min
Response: 11718968
Conc: 100.14 ug/ml



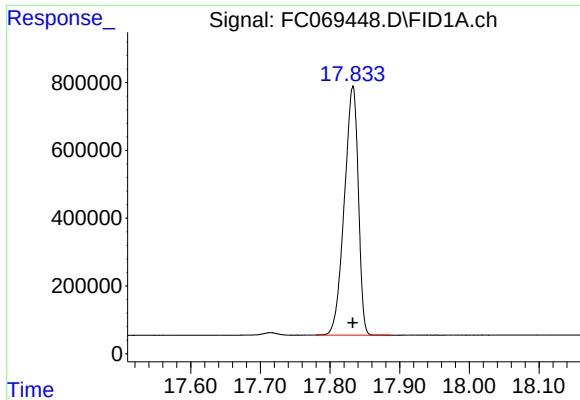
#15 n-Hexacosane (C26)

R.T.: 15.993 min
Delta R.T.: 0.000 min
Response: 11141729
Conc: 100.14 ug/ml



#16 n-Octacosane (C28)

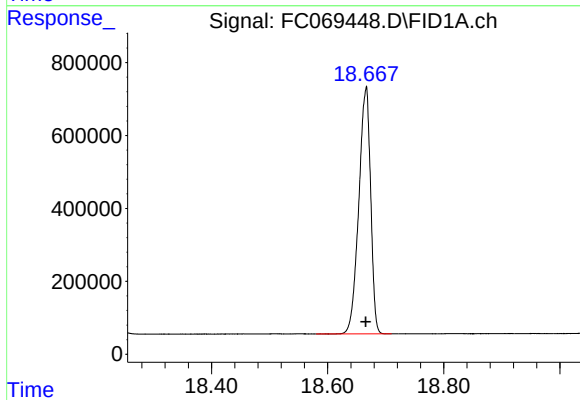
R.T.: 16.944 min
Delta R.T.: 0.000 min
Response: 10523668
Conc: 99.69 ug/ml



#17 n-Tricontane (C30)

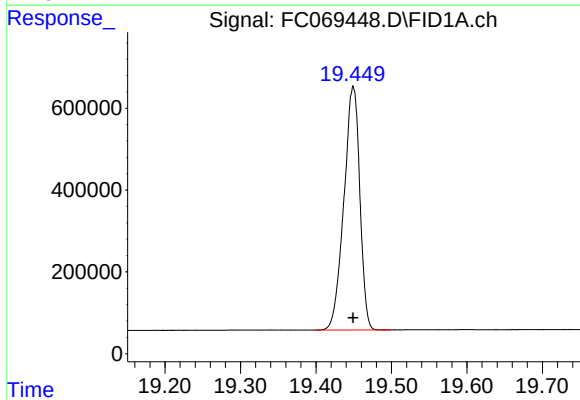
R.T.: 17.833 min
Delta R.T.: 0.000 min
Response: 10222229
Conc: 98.98 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



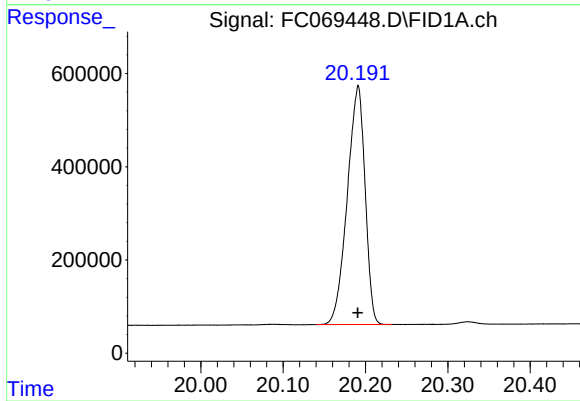
#18 n-Dotriacontane (C32)

R.T.: 18.666 min
Delta R.T.: 0.000 min
Response: 9560238
Conc: 98.47 ug/ml



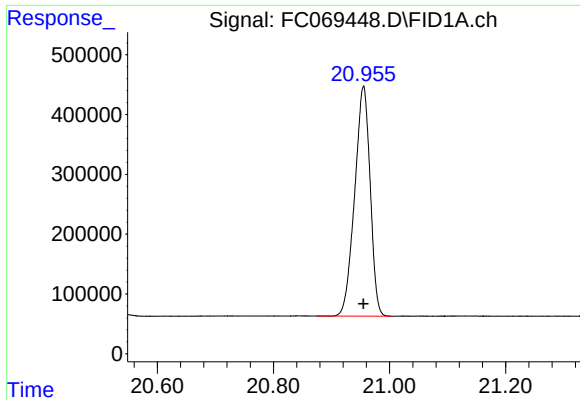
#19 n-Tetratriacontane (C34)

R.T.: 19.449 min
Delta R.T.: 0.000 min
Response: 8724728
Conc: 98.45 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.191 min
Delta R.T.: 0.000 min
Response: 7686807
Conc: 98.50 ug/ml



#21 n-Octatriacontane (C38)

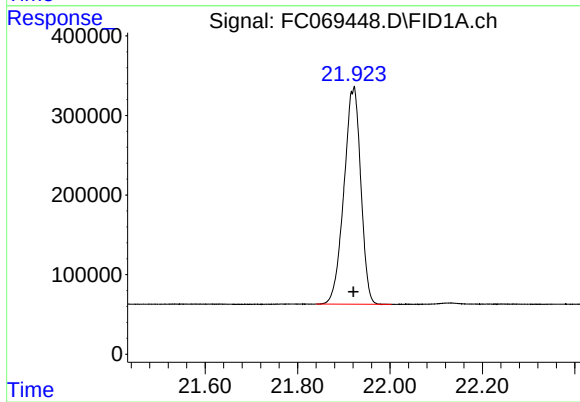
R.T.: 20.955 min
Delta R.T.: 0.000 min
Response: 7121260
Conc: 98.70 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.921 min
Delta R.T.: 0.000 min
Response: 6892375
Conc: 98.70 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069448.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 09:05
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.407	3.368	3.458	BB	1522257	13034330	90.10%	5.085%
2	4.481	4.442	4.538	BB	1415387	13354937	92.32%	5.210%
3	6.076	6.033	6.105	BV	1483358	14466197	100.00%	5.643%
4	6.506	6.465	6.557	BB	1334251	13656102	94.40%	5.327%
5	7.136	7.083	7.225	BB	1318698	14050606	97.13%	5.481%
6	8.305	8.238	8.372	BB	1233035	13682478	94.58%	5.338%
7	9.910	9.863	9.990	BB	1204830	13999672	96.78%	5.461%
8	11.356	11.310	11.410	BB	1172409	13791460	95.34%	5.380%
9	11.679	11.632	11.752	BB	1172532	14279406	98.71%	5.571%
10	12.666	12.593	12.713	BB	1038076	12862062	88.91%	5.018%
11	13.112	13.032	13.163	BB	915373	10923644	75.51%	4.261%
12	13.279	13.235	13.332	PB	1003328	12457012	86.11%	4.860%
13	13.866	13.790	13.903	BB	999073	12185301	84.23%	4.754%
14	14.971	14.923	15.018	BB	857401	11718968	81.01%	4.572%
15	15.993	15.905	16.042	BB	818935	11141729	77.02%	4.347%
16	16.944	16.847	16.997	BB	770943	10523668	72.75%	4.105%
17	17.833	17.780	17.888	BB	732870	10222229	70.66%	3.988%
18	18.666	18.580	18.710	BB	669131	9560238	66.09%	3.730%
19	19.449	19.400	19.500	BB	594021	8724728	60.31%	3.404%
20	20.191	20.140	20.232	BB	509939	7686807	53.14%	2.999%
21	20.955	20.873	21.003	BB	384763	7121260	49.23%	2.778%
22	21.921	21.840	22.003	BB	272165	6892375	47.64%	2.689%
Sum of corrected areas:						256335210		

Aliphatic EPH 071525.M Tue Jul 15 12:41:36 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069449.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 09:50
 Operator : YP/AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Jul 15 11:00:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 10:56:36 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.673	6934332	49.109 ug/ml
Spiked Amount 50.000		Recovery =	98.22%
12) S 1-chlorooctadecane (S...	13.107	5294608	49.133 ug/ml
Spiked Amount 50.000		Recovery =	98.27%
Target Compounds			
1) T n-Nonane (C9)	3.405	6306166	48.807 ug/ml
2) T n-Decane (C10)	4.477	6457064	48.828 ug/ml
3) T A~Naphthalene (C11.7)	6.071	7013053	48.854 ug/ml
4) T n-Dodecane (C12)	6.502	6584586	48.841 ug/ml
5) T A~2-methylnaphthalene...	7.131	6809757	48.982 ug/ml
6) T n-Tetradecane (C14)	8.301	6602714	48.819 ug/ml
7) T n-Hexadecane (C16)	9.905	6774462	48.923 ug/ml
8) T n-Octadecane (C18)	11.350	6695985	49.025 ug/ml
10) T n-Eicosane (C20)	12.662	6253714	49.103 ug/ml
11) T n-Heneicosane (C21)	13.274	6056701	49.129 ug/ml
13) T n-Docosane (C22)	13.862	5923068	49.111 ug/ml
14) T n-Tetracosane (C24)	14.966	5695887	49.108 ug/ml
15) T n-Hexacosane (C26)	15.988	5408177	49.064 ug/ml
16) T n-Octacosane (C28)	16.939	5097417	48.846 ug/ml
17) T n-Tricontane (C30)	17.828	4961375	48.676 ug/ml
18) T n-Dotriacontane (C32)	18.661	4644179	48.534 ug/ml
19) T n-Tetratriacontane (C34)	19.444	4230530	48.469 ug/ml
20) T n-Hexatriacontane (C36)	20.187	3732506	48.531 ug/ml
21) T n-Octatriacontane (C38)	20.951	3453731	48.559 ug/ml
22) T n-Tetracontane (C40)	21.915	3352069	48.651 ug/ml

(f)=RT Delta > 1/2 Window

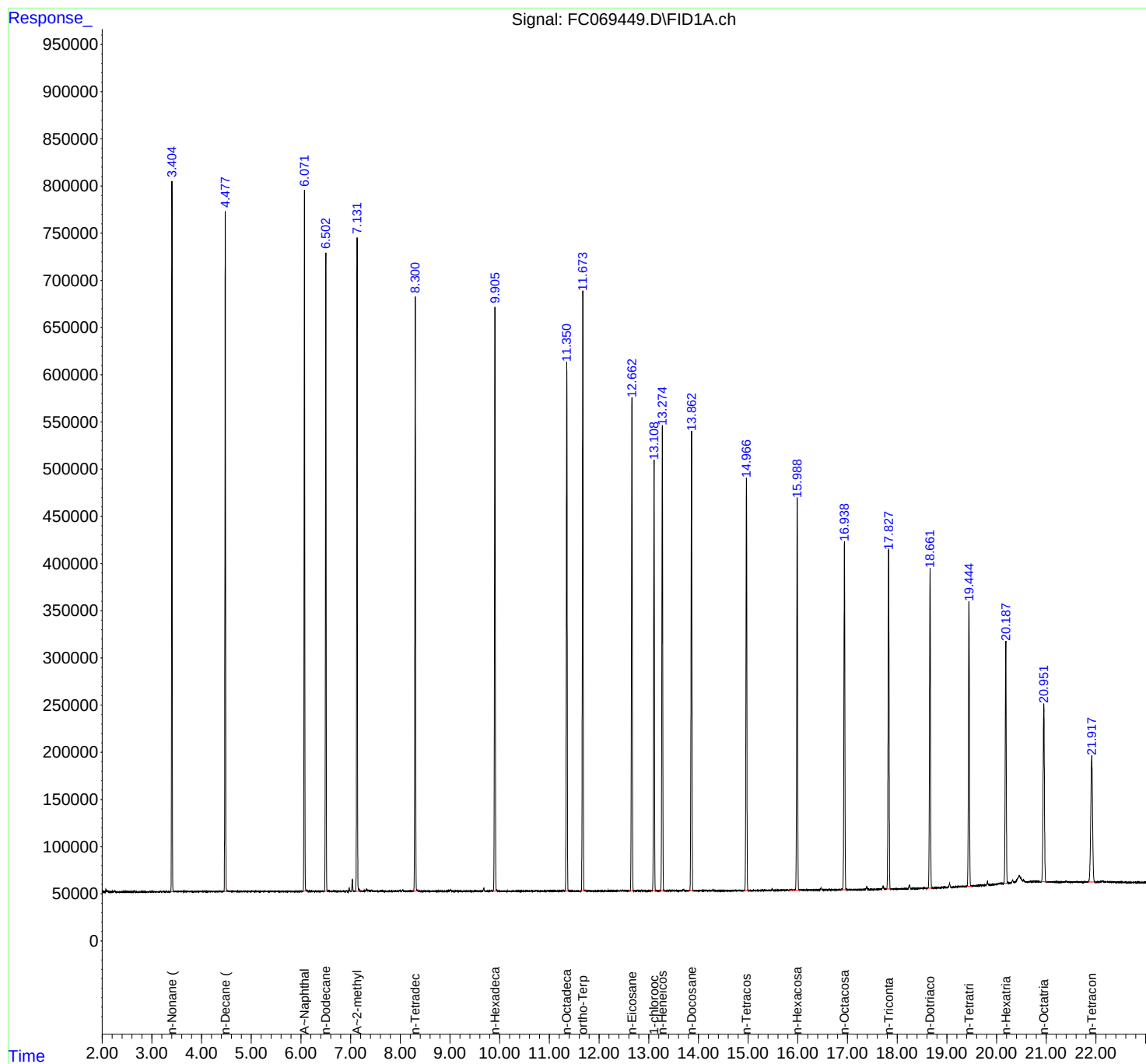
(m)=manual int.

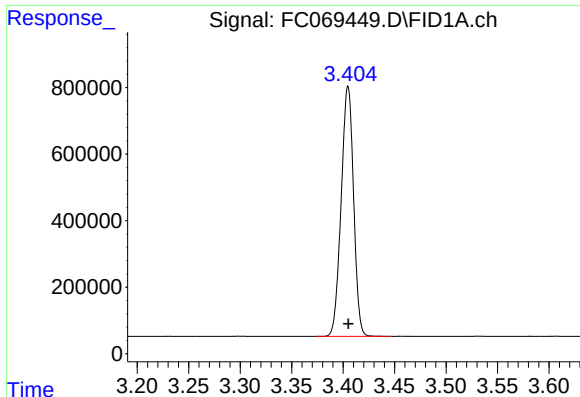
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
Data File : FC069449.D
Signal(s) : FID1A.ch
Acq On : 15 Jul 2025 09:50
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jul 15 11:00:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 10:56:36 2025
Response via : Initial Calibration
Integrator: ChemStation

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

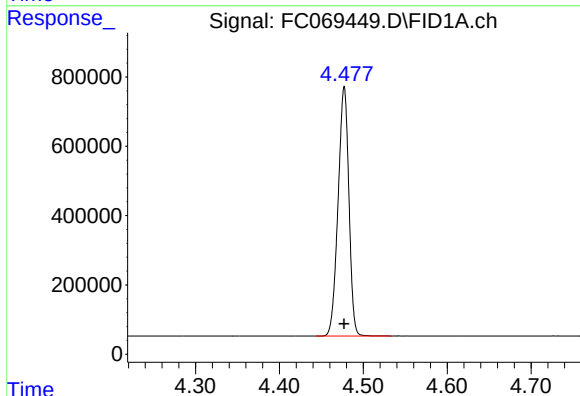




#1 n-Nonane (C9)

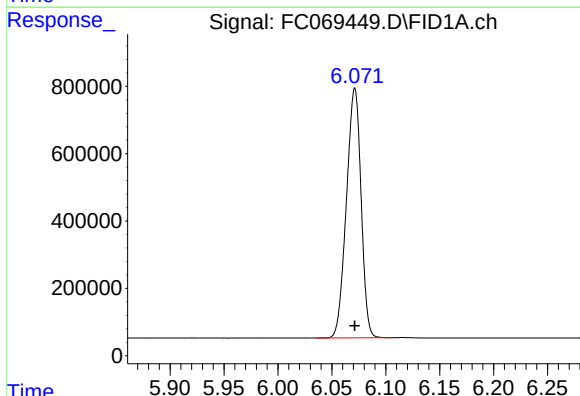
R.T.: 3.405 min
Delta R.T.: 0.000 min
Response: 6306166
Conc: 48.81 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



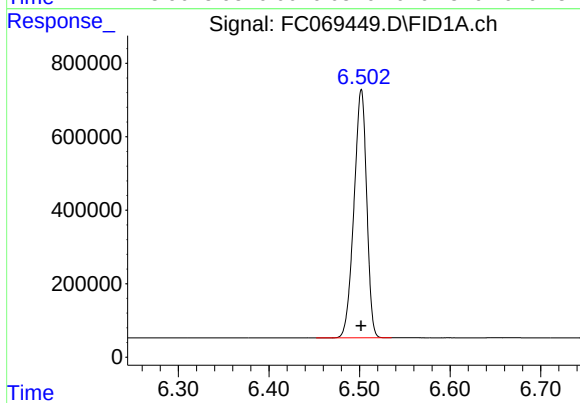
#2 n-Decane (C10)

R.T.: 4.477 min
Delta R.T.: 0.000 min
Response: 6457064
Conc: 48.83 ug/ml



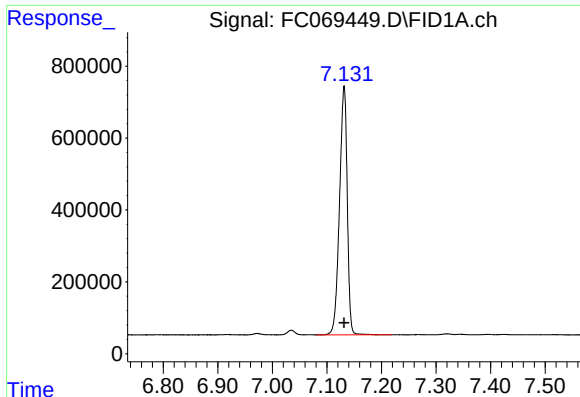
#3 A~Naphthalene (C11.7)

R.T.: 6.071 min
Delta R.T.: 0.000 min
Response: 7013053
Conc: 48.85 ug/ml



#4 n-Dodecane (C12)

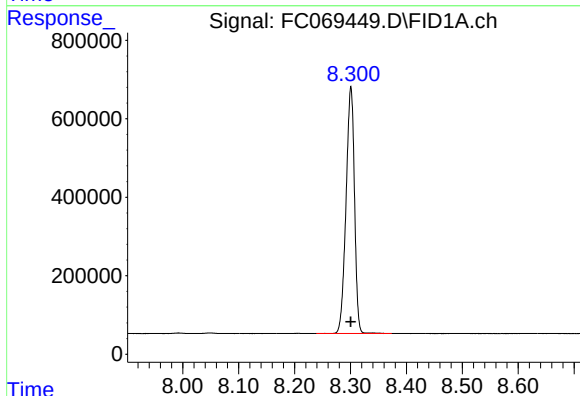
R.T.: 6.502 min
Delta R.T.: 0.000 min
Response: 6584586
Conc: 48.84 ug/ml



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

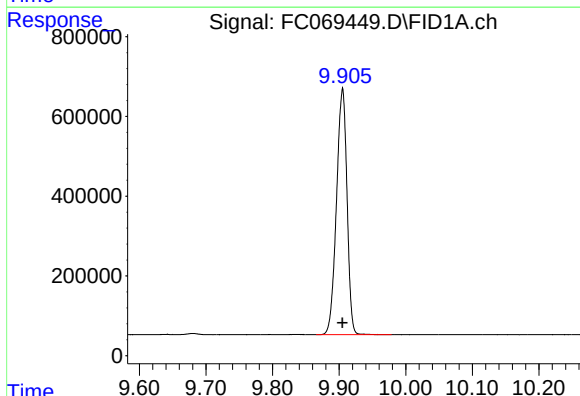
R.T.: 7.131 min
Delta R.T.: 0.000 min
Response: 6809757
Conc: 48.98 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



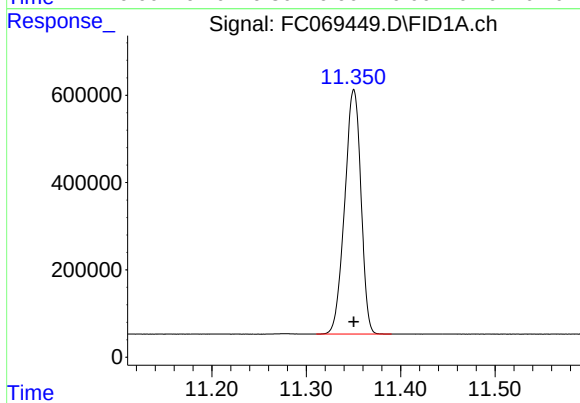
#6 n-Tetradecane (C14)

R.T.: 8.301 min
Delta R.T.: 0.000 min
Response: 6602714
Conc: 48.82 ug/ml



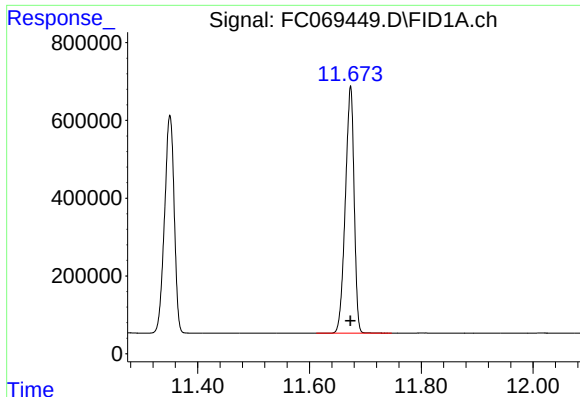
#7 n-Hexadecane (C16)

R.T.: 9.905 min
Delta R.T.: 0.000 min
Response: 6774462
Conc: 48.92 ug/ml



#8 n-Octadecane (C18)

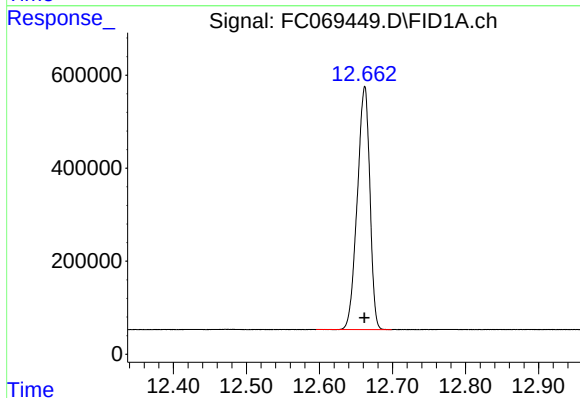
R.T.: 11.350 min
Delta R.T.: 0.000 min
Response: 6695985
Conc: 49.02 ug/ml



#9 ortho-Terphenyl (SURR)

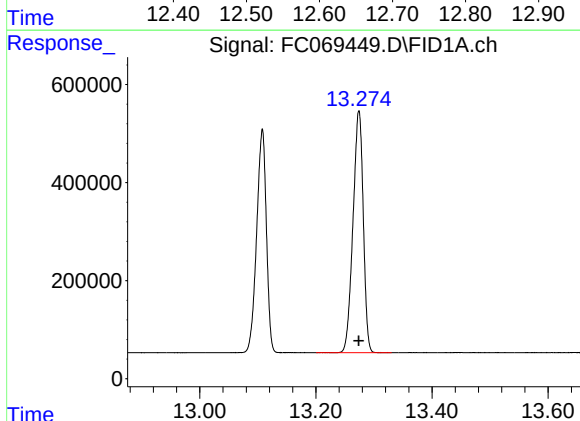
R.T.: 11.673 min
Delta R.T.: 0.000 min
Response: 6934332
Conc: 49.11 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



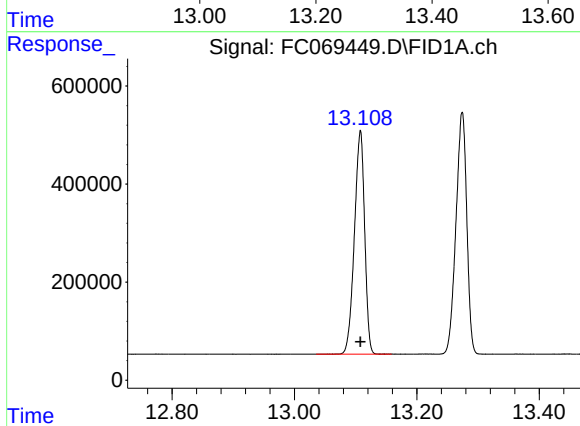
#10 n-Eicosane (C20)

R.T.: 12.662 min
Delta R.T.: 0.000 min
Response: 6253714
Conc: 49.10 ug/ml



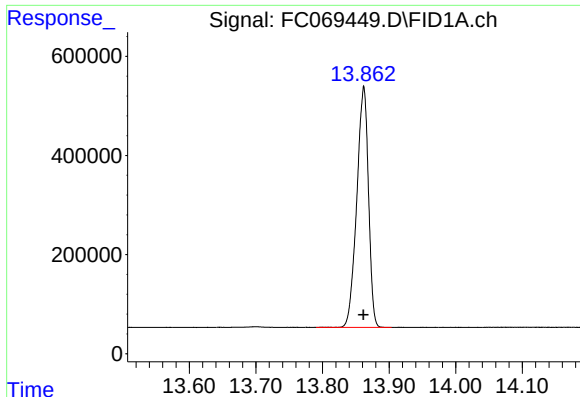
#11 n-Heneicosane (C21)

R.T.: 13.274 min
Delta R.T.: 0.000 min
Response: 6056701
Conc: 49.13 ug/ml



#12 1-chlorooctadecane (SURR)

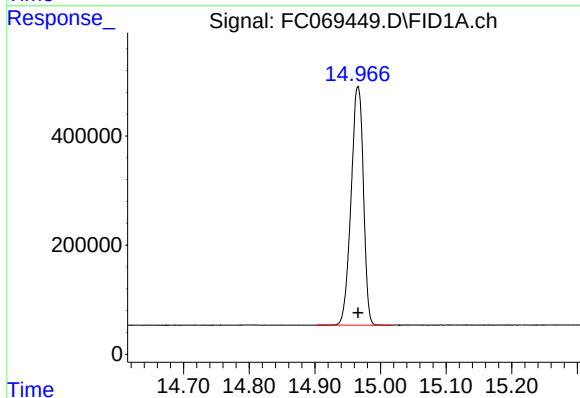
R.T.: 13.107 min
Delta R.T.: 0.000 min
Response: 5294608
Conc: 49.13 ug/ml



#13 n-Docosane (C22)

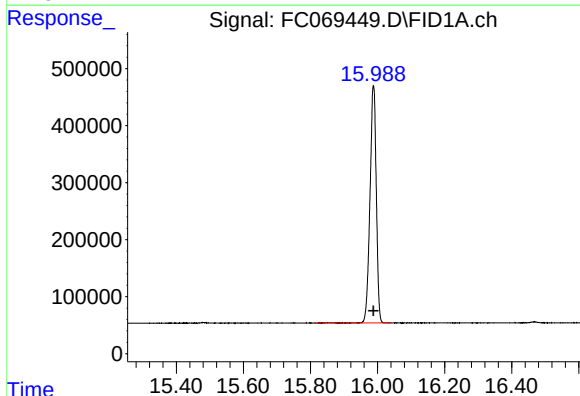
R.T.: 13.862 min
Delta R.T.: 0.000 min
Response: 5923068
Conc: 49.11 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



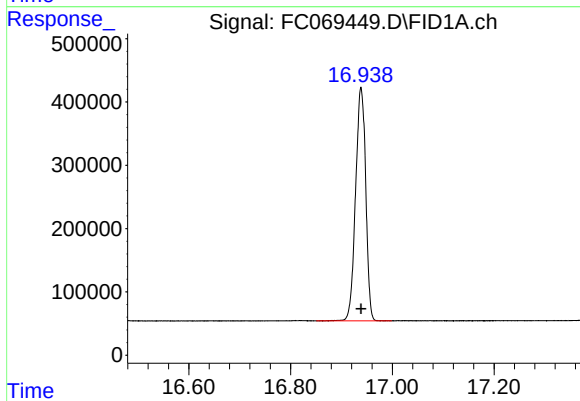
#14 n-Tetracosane (C24)

R.T.: 14.966 min
Delta R.T.: 0.000 min
Response: 5695887
Conc: 49.11 ug/ml



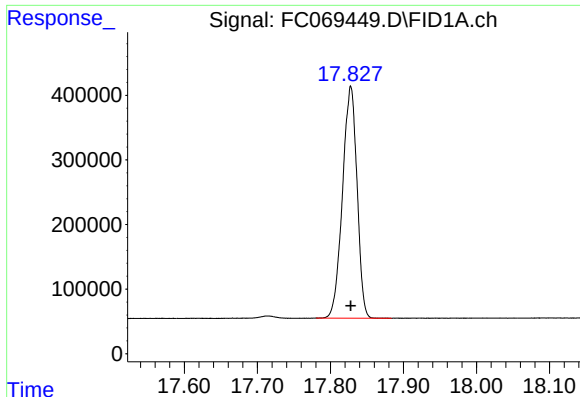
#15 n-Hexacosane (C26)

R.T.: 15.988 min
Delta R.T.: 0.000 min
Response: 5408177
Conc: 49.06 ug/ml



#16 n-Octacosane (C28)

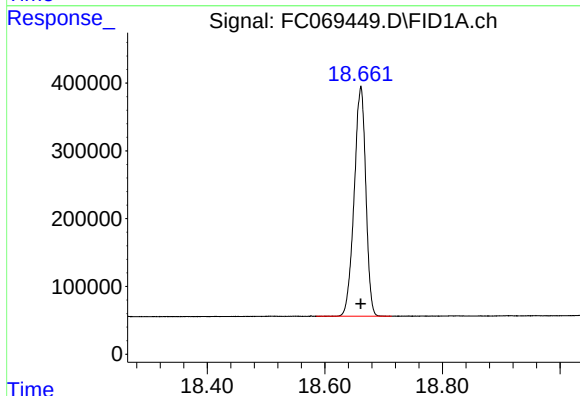
R.T.: 16.939 min
Delta R.T.: 0.000 min
Response: 5097417
Conc: 48.85 ug/ml



#17 n-Tricontane (C30)

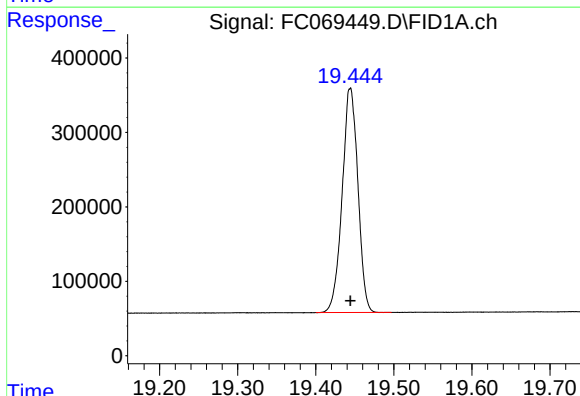
R.T.: 17.828 min
Delta R.T.: 0.000 min
Response: 4961375
Conc: 48.68 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



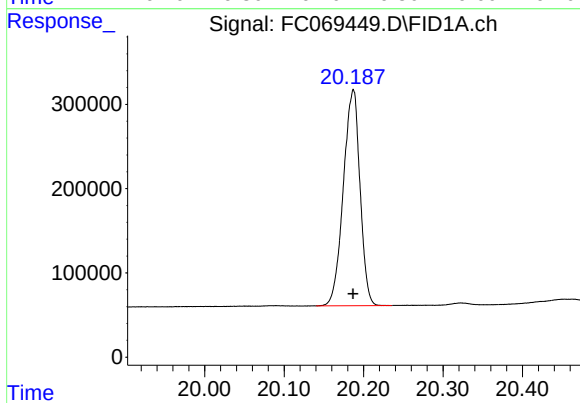
#18 n-Dotriacontane (C32)

R.T.: 18.661 min
Delta R.T.: 0.000 min
Response: 4644179
Conc: 48.53 ug/ml



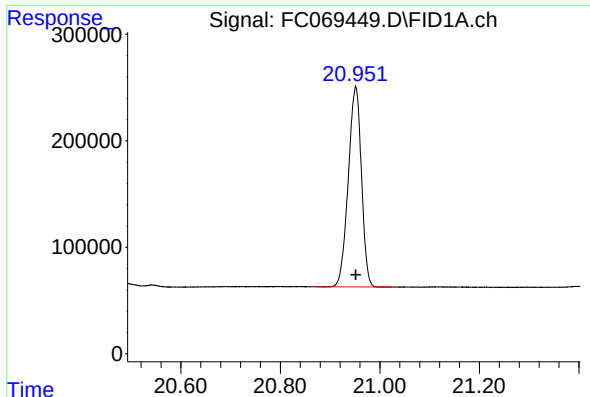
#19 n-Tetratriacontane (C34)

R.T.: 19.444 min
Delta R.T.: 0.000 min
Response: 4230530
Conc: 48.47 ug/ml



#20 n-Hexatriacontane (C36)

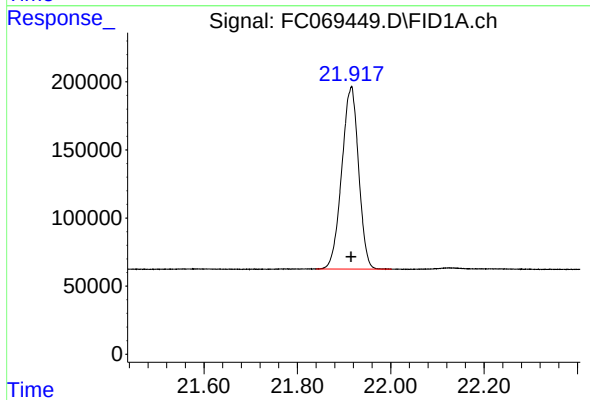
R.T.: 20.187 min
Delta R.T.: 0.000 min
Response: 3732506
Conc: 48.53 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.951 min
Delta R.T.: 0.000 min
Response: 3453731
Conc: 48.56 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.915 min
Delta R.T.: 0.000 min
Response: 3352069
Conc: 48.65 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069449.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 09:50
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.405	3.374	3.447	BB	754080	6306166	89.92%	5.074%
2	4.477	4.444	4.534	BB	720465	6457064	92.07%	5.195%
3	6.071	6.035	6.105	BV	740270	7013053	100.00%	5.643%
4	6.502	6.452	6.535	BB	677594	6584586	93.89%	5.298%
5	7.131	7.080	7.219	BB	695934	6809757	97.10%	5.479%
6	8.301	8.239	8.374	BB	629347	6602714	94.15%	5.313%
7	9.905	9.865	9.979	BB	620932	6774462	96.60%	5.451%
8	11.350	11.310	11.390	BB	560533	6695985	95.48%	5.388%
9	11.673	11.612	11.747	BB	638338	6934332	98.88%	5.580%
10	12.662	12.595	12.699	BB	524646	6253714	89.17%	5.032%
11	13.107	13.035	13.159	BB	454832	5294608	75.50%	4.260%
12	13.274	13.200	13.330	BB	493762	6056701	86.36%	4.873%
13	13.862	13.790	13.904	BB	488387	5923068	84.46%	4.766%
14	14.966	14.902	15.017	BB	436691	5695887	81.22%	4.583%
15	15.988	15.817	16.042	BB	416357	5408177	77.12%	4.352%
16	16.939	16.850	16.999	BB	367830	5097417	72.68%	4.101%
17	17.828	17.780	17.884	BB	359667	4961375	70.74%	3.992%
18	18.661	18.585	18.714	BB	336779	4644179	66.22%	3.737%
19	19.444	19.400	19.497	BB	301064	4230530	60.32%	3.404%
20	20.187	20.140	20.235	BB	257284	3732506	53.22%	3.003%
21	20.951	20.872	21.024	BB	188452	3453731	49.25%	2.779%
22	21.915	21.840	22.002	BB	133930	3352069	47.80%	2.697%
Sum of corrected areas:						124282080		

Aliphatic EPH 071525.M Tue Jul 15 12:41:06 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069450.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 10:35
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Jul 15 10:56:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 10:56:36 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.669	2842591	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.104	2163070	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.403	2623005	20.000 ug/ml
2) T n-Decane (C10)	4.475	2680576	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.069	2914664	20.000 ug/ml
4) T n-Dodecane (C12)	6.499	2723979	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.128	2807568	20.000 ug/ml
6) T n-Tetradecane (C14)	8.299	2737305	20.000 ug/ml
7) T n-Hexadecane (C16)	9.902	2798652	20.000 ug/ml
8) T n-Octadecane (C18)	11.346	2758332	20.000 ug/ml
10) T n-Eicosane (C20)	12.658	2567676	20.000 ug/ml
11) T n-Heneicosane (C21)	13.270	2482767	20.000 ug/ml
13) T n-Docosane (C22)	13.857	2429989	20.000 ug/ml
14) T n-Tetracosane (C24)	14.962	2337029	20.000 ug/ml
15) T n-Hexacosane (C26)	15.984	2222003	20.000 ug/ml
16) T n-Octacosane (C28)	16.935	2117680	20.000 ug/ml
17) T n-Tricontane (C30)	17.823	2086565	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.656	1971574	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.442	1799794	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.183	1584214	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.947	1461703	20.000 ug/ml
22) T n-Tetracontane (C40)	21.911	1414720	20.000 ug/ml

(f)=RT Delta > 1/2 Window

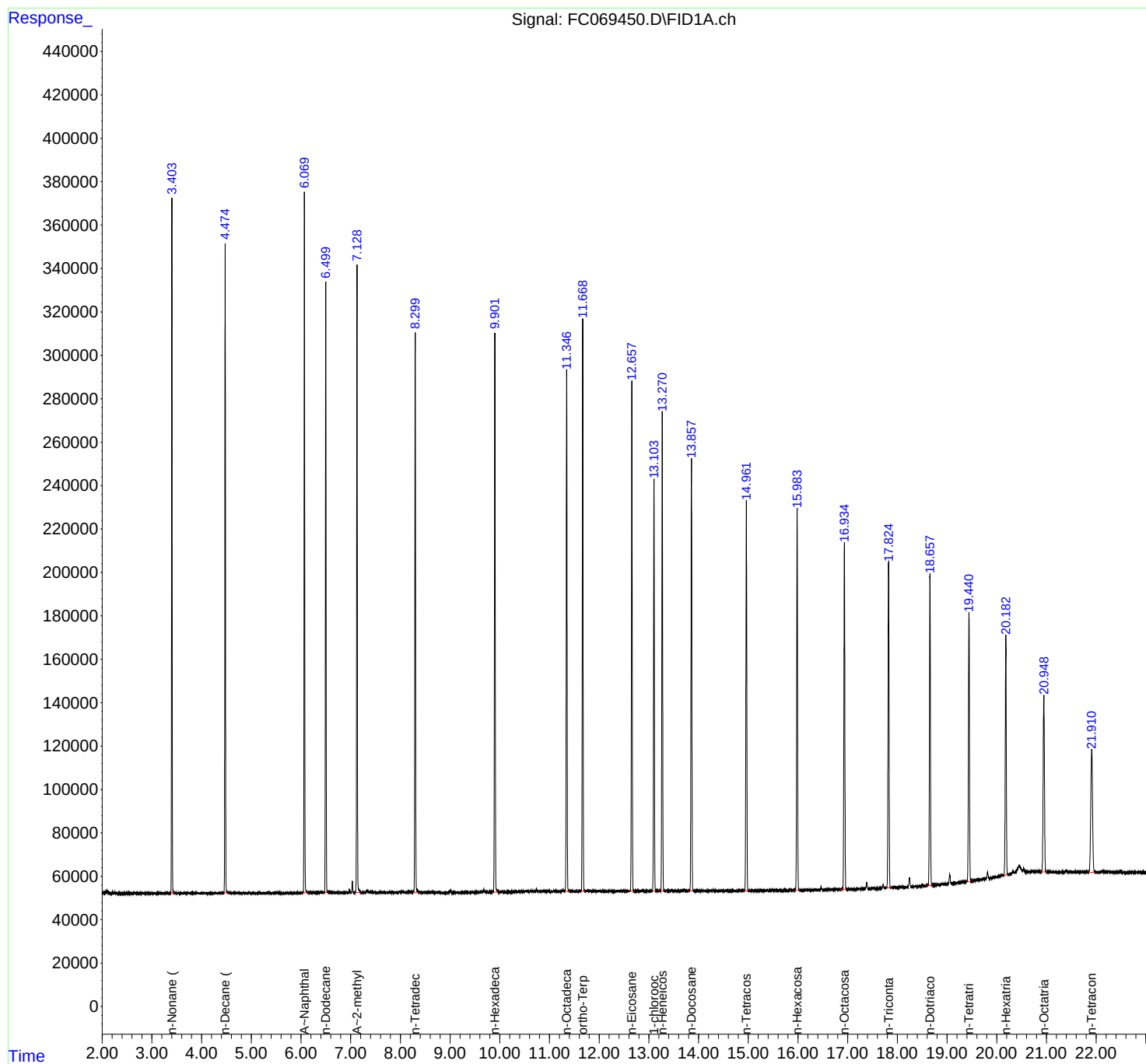
(m)=manual int.

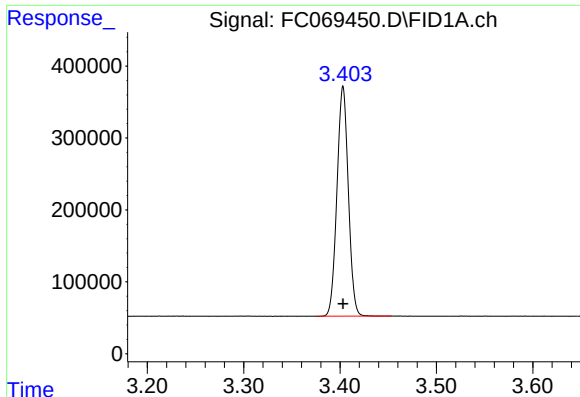
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
Data File : FC069450.D
Signal(s) : FID1A.ch
Acq On : 15 Jul 2025 10:35
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jul 15 10:56:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 10:56:36 2025
Response via : Initial Calibration
Integrator: ChemStation

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

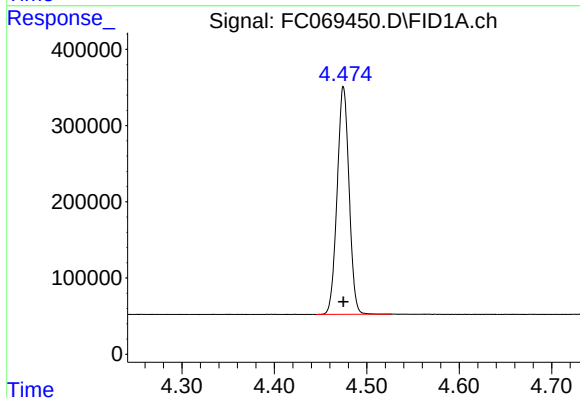




#1 n-Nonane (C9)

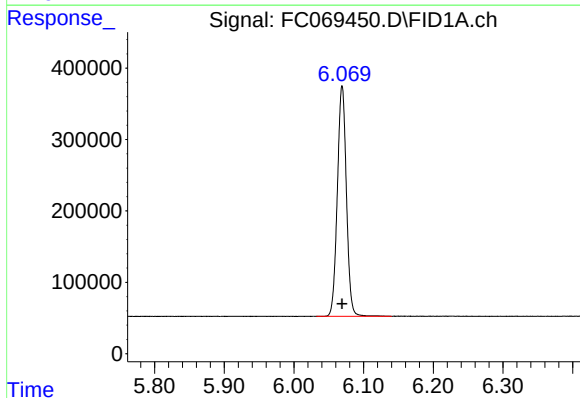
R.T.: 3.403 min
Delta R.T.: 0.000 min
Response: 2623005
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



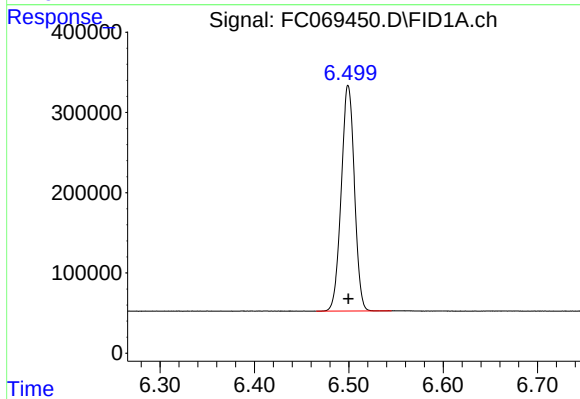
#2 n-Decane (C10)

R.T.: 4.475 min
Delta R.T.: 0.000 min
Response: 2680576
Conc: 20.00 ug/ml



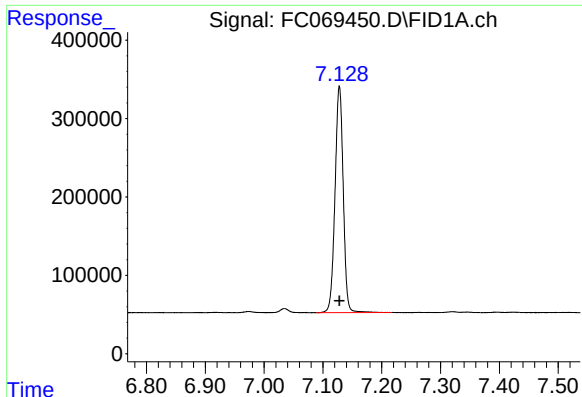
#3 A~Naphthalene (C11.7)

R.T.: 6.069 min
Delta R.T.: 0.000 min
Response: 2914664
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

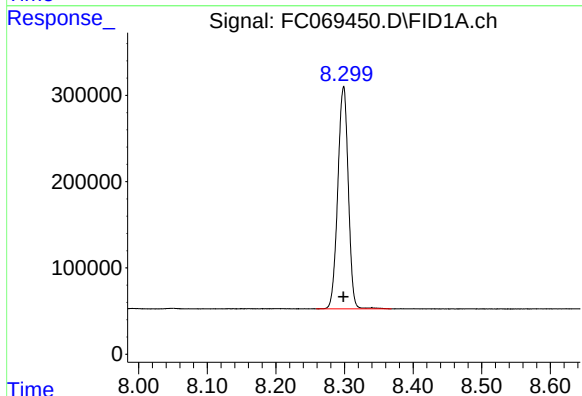
R.T.: 6.499 min
Delta R.T.: 0.000 min
Response: 2723979
Conc: 20.00 ug/ml



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

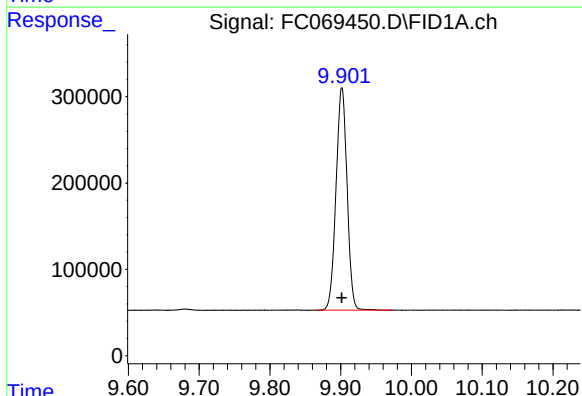
R.T.: 7.128 min
Delta R.T.: 0.000 min
Response: 2807568
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



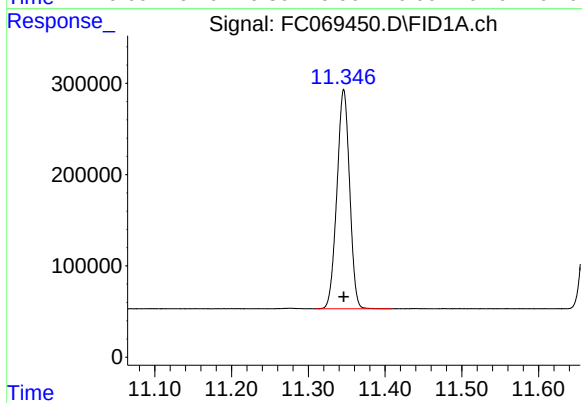
#6 n-Tetradecane (C14)

R.T.: 8.299 min
Delta R.T.: 0.000 min
Response: 2737305
Conc: 20.00 ug/ml



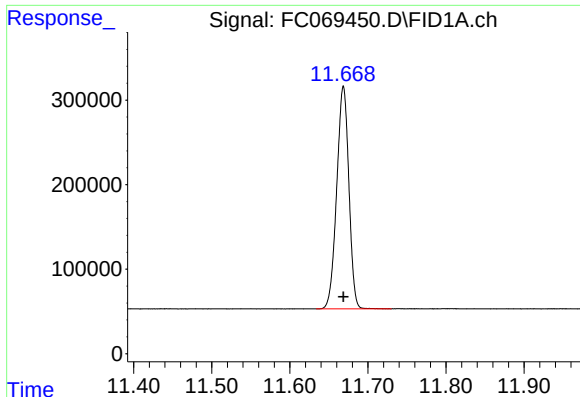
#7 n-Hexadecane (C16)

R.T.: 9.902 min
Delta R.T.: 0.000 min
Response: 2798652
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

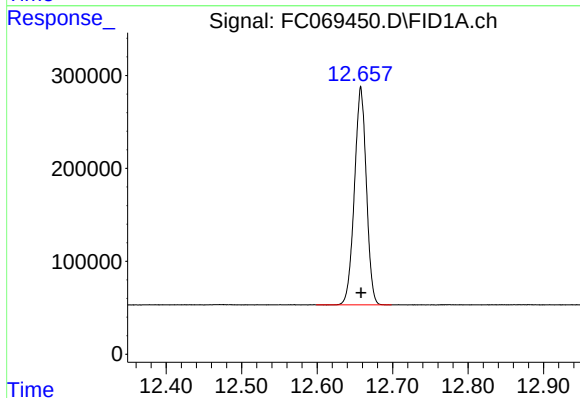
R.T.: 11.346 min
Delta R.T.: 0.000 min
Response: 2758332
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

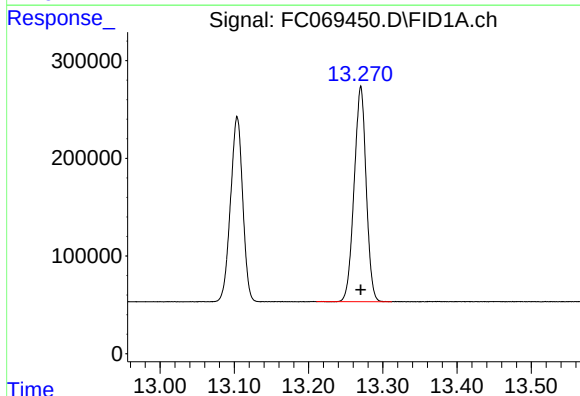
R.T.: 11.669 min
Delta R.T.: 0.000 min
Response: 2842591
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



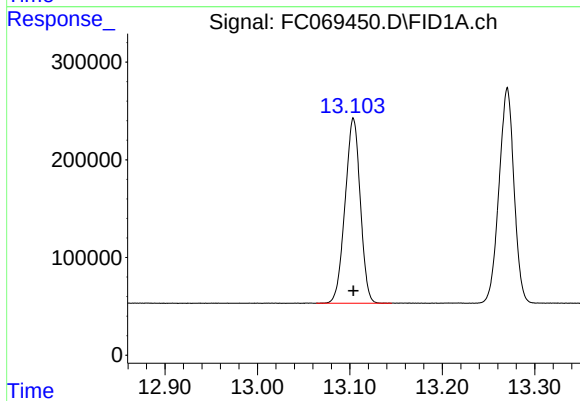
#10 n-Eicosane (C20)

R.T.: 12.658 min
Delta R.T.: 0.000 min
Response: 2567676
Conc: 20.00 ug/ml



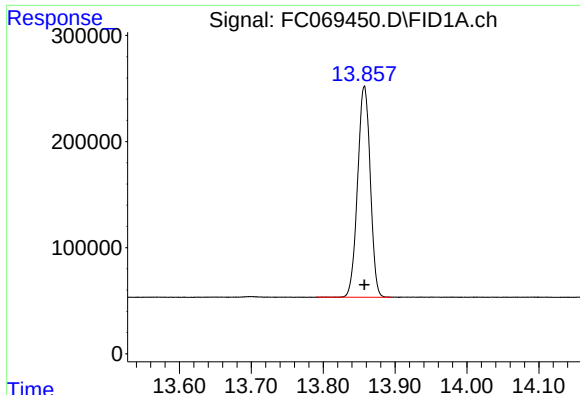
#11 n-Heneicosane (C21)

R.T.: 13.270 min
Delta R.T.: 0.000 min
Response: 2482767
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

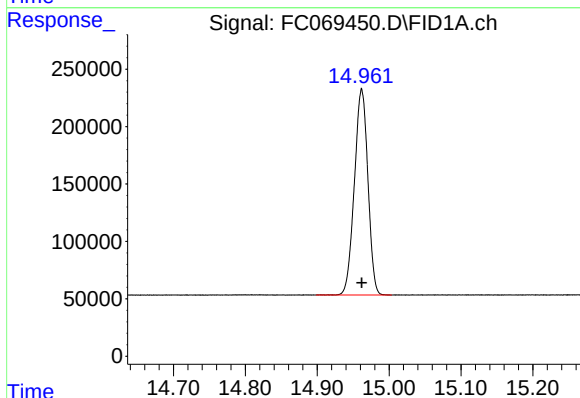
R.T.: 13.104 min
Delta R.T.: 0.000 min
Response: 2163070
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

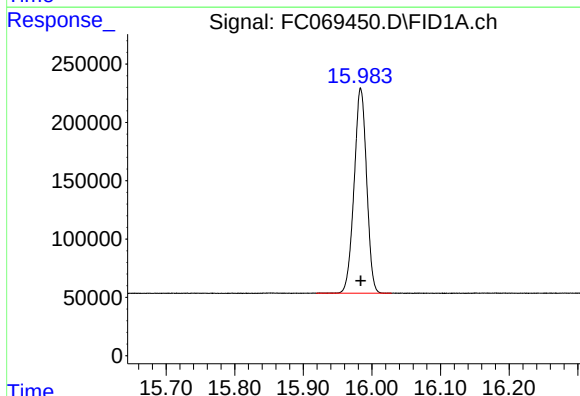
R.T.: 13.857 min
Delta R.T.: 0.000 min
Response: 2429989
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



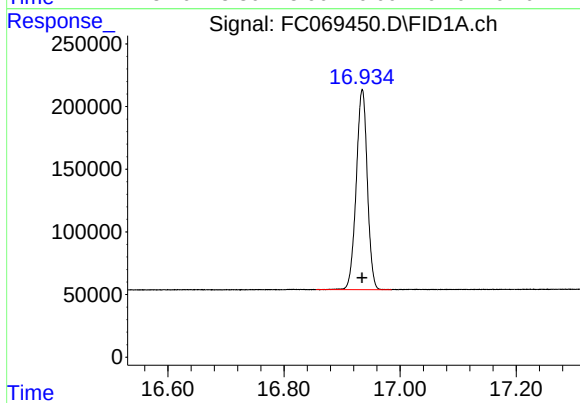
#14 n-Tetracosane (C24)

R.T.: 14.962 min
Delta R.T.: 0.000 min
Response: 2337029
Conc: 20.00 ug/ml



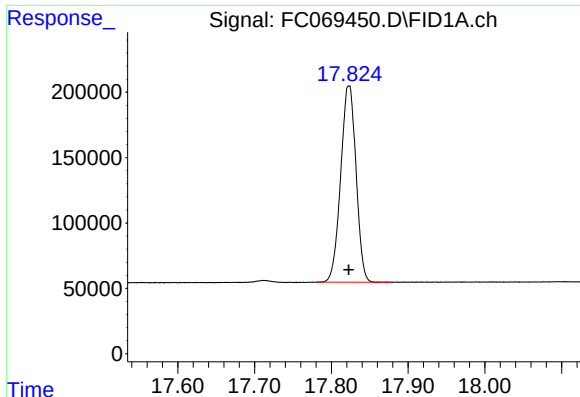
#15 n-Hexacosane (C26)

R.T.: 15.984 min
Delta R.T.: 0.000 min
Response: 2222003
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

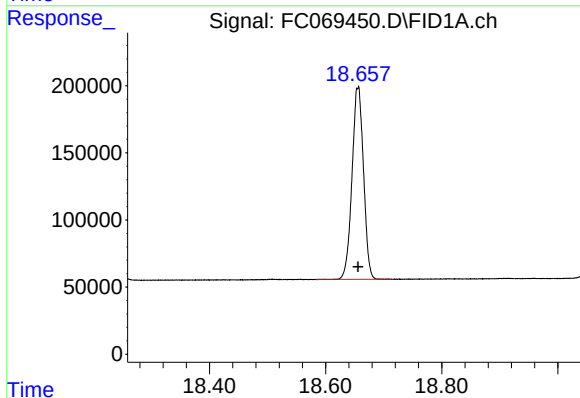
R.T.: 16.935 min
Delta R.T.: 0.000 min
Response: 2117680
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

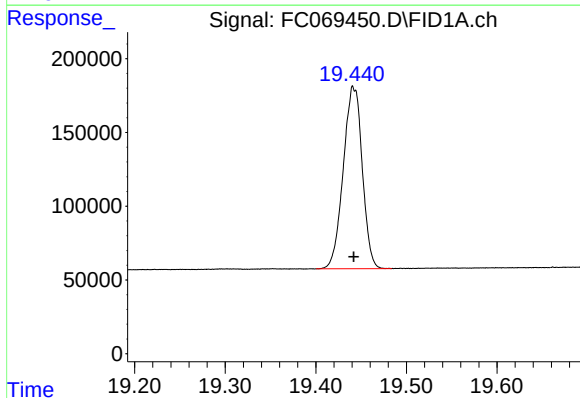
R.T.: 17.823 min
Delta R.T.: 0.000 min
Response: 2086565
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



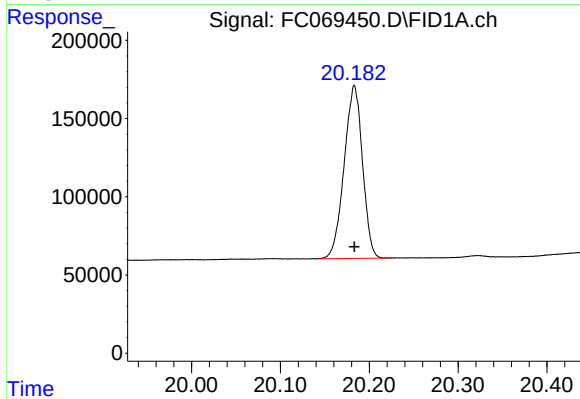
#18 n-Dotriacontane (C32)

R.T.: 18.656 min
Delta R.T.: 0.000 min
Response: 1971574
Conc: 20.00 ug/ml



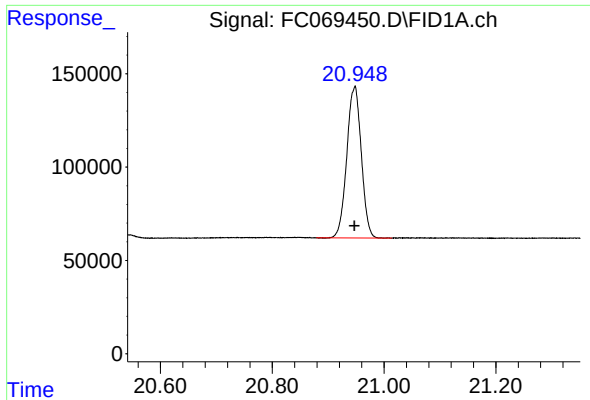
#19 n-Tetratriacontane (C34)

R.T.: 19.442 min
Delta R.T.: 0.000 min
Response: 1799794
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

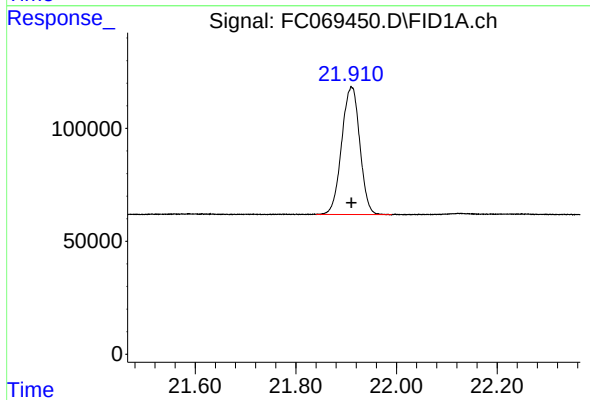
R.T.: 20.183 min
Delta R.T.: 0.000 min
Response: 1584214
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.947 min
Delta R.T.: 0.000 min
Response: 1461703
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.911 min
Delta R.T.: 0.000 min
Response: 1414720
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069450.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 10:35
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.403	3.375	3.454	BB	320459	2623005	89.99%	5.091%
2	4.475	4.445	4.527	BB	298122	2680576	91.97%	5.202%
3	6.069	6.032	6.140	BB	323067	2914664	100.00%	5.657%
4	6.499	6.465	6.545	BB	280676	2723979	93.46%	5.287%
5	7.128	7.089	7.217	BB	289171	2807568	96.33%	5.449%
6	8.299	8.259	8.369	BB	257819	2737305	93.91%	5.313%
7	9.902	9.865	9.972	BB	257945	2798652	96.02%	5.432%
8	11.346	11.310	11.409	BB	240467	2758332	94.64%	5.353%
9	11.669	11.634	11.730	BB	263608	2842591	97.53%	5.517%
10	12.658	12.599	12.699	BB	233637	2567676	88.10%	4.983%
11	13.104	13.064	13.145	BB	189574	2163070	74.21%	4.198%
12	13.270	13.210	13.312	BB	220630	2482767	85.18%	4.819%
13	13.857	13.790	13.895	BB	198720	2429989	83.37%	4.716%
14	14.962	14.899	15.004	BB	179669	2337029	80.18%	4.536%
15	15.984	15.919	16.029	BB	175609	2222003	76.24%	4.312%
16	16.935	16.855	16.985	BB	160029	2117680	72.66%	4.110%
17	17.823	17.780	17.879	BB	150550	2086565	71.59%	4.050%
18	18.656	18.584	18.714	BB	142265	1971574	67.64%	3.826%
19	19.442	19.400	19.484	BB	121602	1799794	61.75%	3.493%
20	20.183	20.140	20.225	BB	110620	1584214	54.35%	3.075%
21	20.947	20.879	21.014	BB	80729	1461703	50.15%	2.837%
22	21.911	21.840	21.990	BB	56649	1414720	48.54%	2.746%
Sum of corrected areas:							51525455	

Aliphatic EPH 071525.M Tue Jul 15 12:40:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069451.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 11:20
 Operator : YP/AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Jul 15 11:48:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 11:48:40 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.666	1555533	10.743 ug/ml
Spiked Amount 50.000		Recovery =	21.49%
12) S 1-chlorooctadecane (S...	13.101	1182724	10.714 ug/ml
Spiked Amount 50.000		Recovery =	21.43%
Target Compounds			
1) T n-Nonane (C9)	3.403	1426907	10.763 ug/ml
2) T n-Decane (C10)	4.474	1461675	10.770 ug/ml
3) T A~Naphthalene (C11.7)	6.069	1582883	10.751 ug/ml
4) T n-Dodecane (C12)	6.499	1484597	10.740 ug/ml
5) T A~2-methylnaphthalene...	7.127	1531338	10.742 ug/ml
6) T n-Tetradecane (C14)	8.297	1495509	10.773 ug/ml
7) T n-Hexadecane (C16)	9.901	1536291	10.799 ug/ml
8) T n-Octadecane (C18)	11.345	1511440	10.779 ug/ml
10) T n-Eicosane (C20)	12.656	1410977	10.788 ug/ml
11) T n-Heneicosane (C21)	13.268	1363880	10.777 ug/ml
13) T n-Docosane (C22)	13.856	1333797	10.774 ug/ml
14) T n-Tetracosane (C24)	14.960	1283028	10.776 ug/ml
15) T n-Hexacosane (C26)	15.982	1223037	10.800 ug/ml
16) T n-Octacosane (C28)	16.933	1164830	10.847 ug/ml
17) T n-Tricontane (C30)	17.822	1154429	10.963 ug/ml
18) T n-Dotriacontane (C32)	18.657	1093995	11.038 ug/ml
19) T n-Tetratriacontane (C34)	19.442	994086	11.007 ug/ml
20) T n-Hexatriacontane (C36)	20.181	870135	10.954 ug/ml
21) T n-Octatriacontane (C38)	20.948	798625	10.894 ug/ml
22) T n-Tetracontane (C40)	21.909	774596	10.904 ug/ml

(f)=RT Delta > 1/2 Window

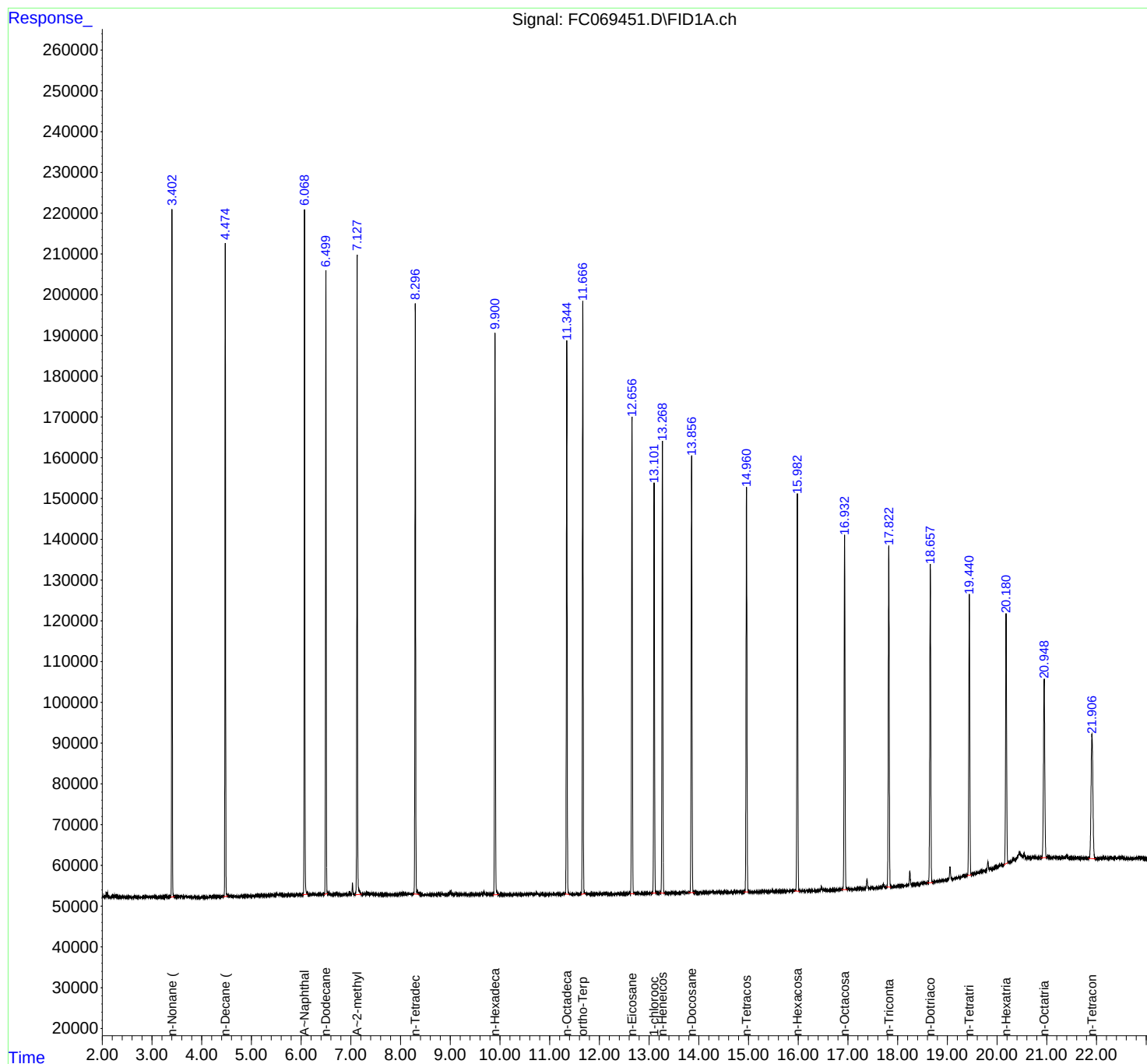
(m)=manual int.

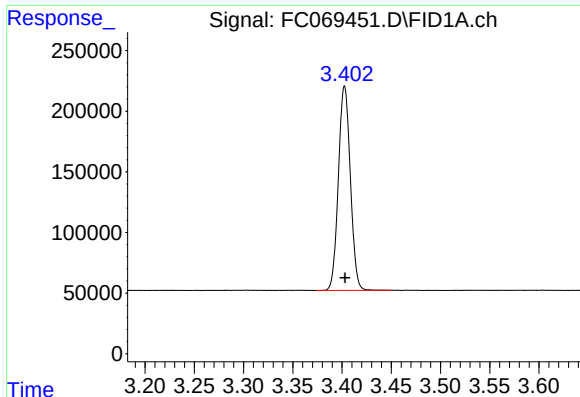
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
Data File : FC069451.D
Signal(s) : FID1A.ch
Acq On : 15 Jul 2025 11:20
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jul 15 11:48:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 11:48:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

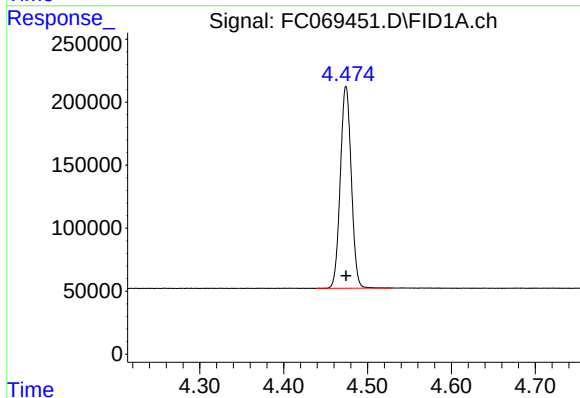




#1 n-Nonane (C9)

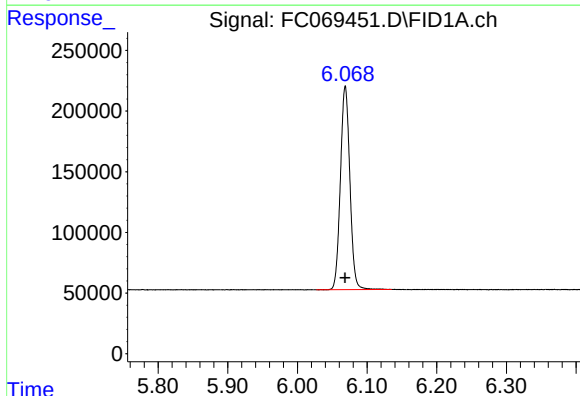
R.T.: 3.403 min
Delta R.T.: 0.000 min
Response: 1426907
Conc: 10.76 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



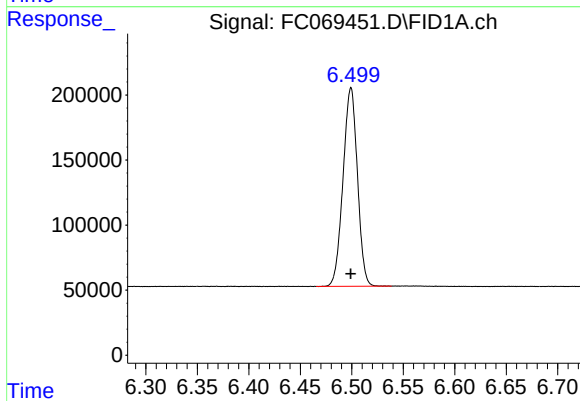
#2 n-Decane (C10)

R.T.: 4.474 min
Delta R.T.: 0.000 min
Response: 1461675
Conc: 10.77 ug/ml



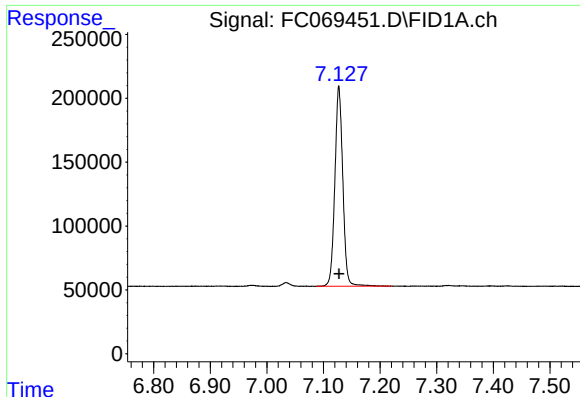
#3 A~Naphthalene (C11.7)

R.T.: 6.069 min
Delta R.T.: 0.000 min
Response: 1582883
Conc: 10.75 ug/ml



#4 n-Dodecane (C12)

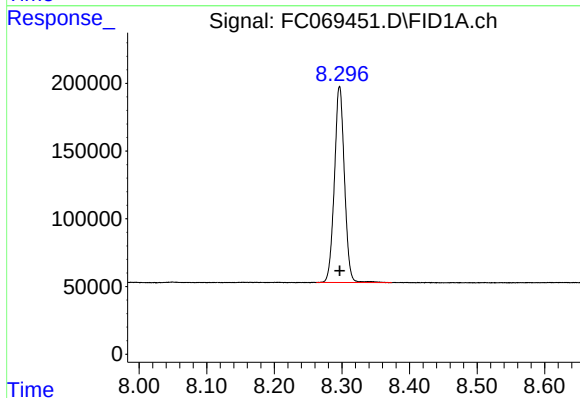
R.T.: 6.499 min
Delta R.T.: 0.000 min
Response: 1484597
Conc: 10.74 ug/ml



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

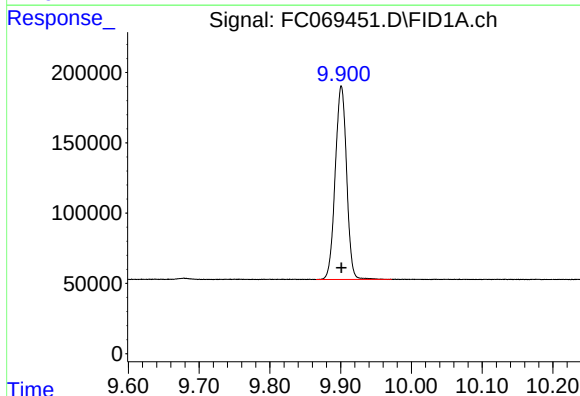
R.T.: 7.127 min
Delta R.T.: 0.000 min
Response: 1531338
Conc: 10.74 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



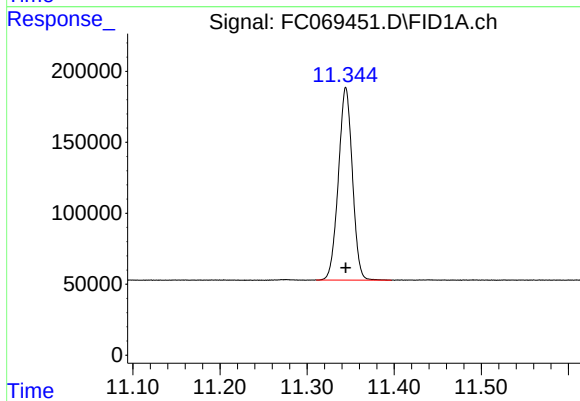
#6 n-Tetradecane (C14)

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 1495509
Conc: 10.77 ug/ml



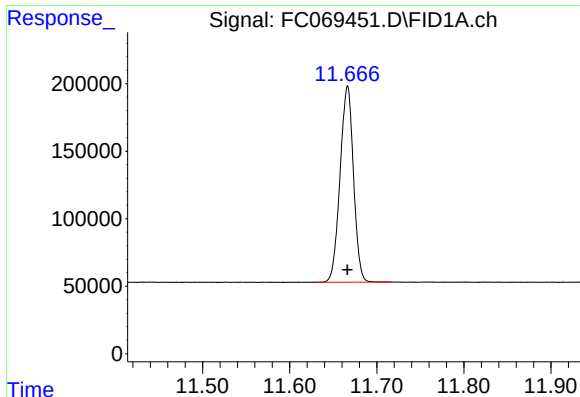
#7 n-Hexadecane (C16)

R.T.: 9.901 min
Delta R.T.: 0.000 min
Response: 1536291
Conc: 10.80 ug/ml



#8 n-Octadecane (C18)

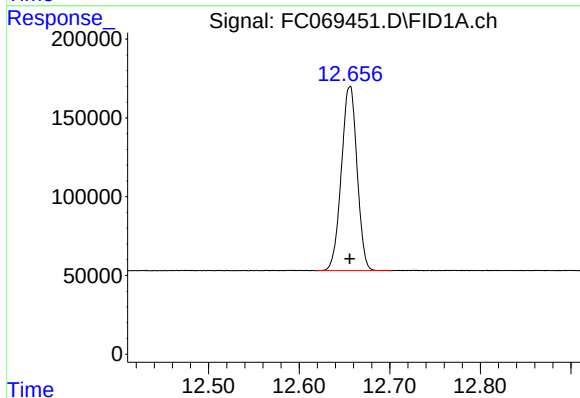
R.T.: 11.345 min
Delta R.T.: 0.000 min
Response: 1511440
Conc: 10.78 ug/ml



#9 ortho-Terphenyl (SURR)

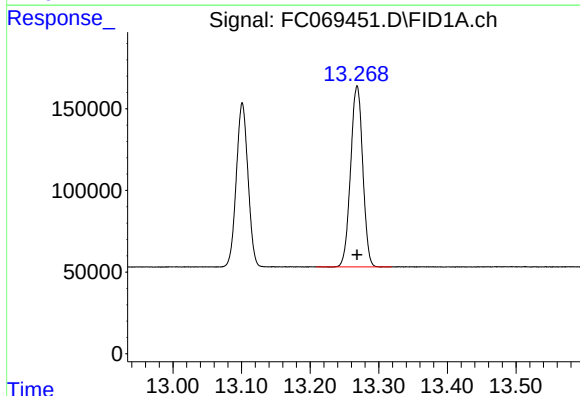
R.T.: 11.666 min
Delta R.T.: 0.000 min
Response: 1555533
Conc: 10.74 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



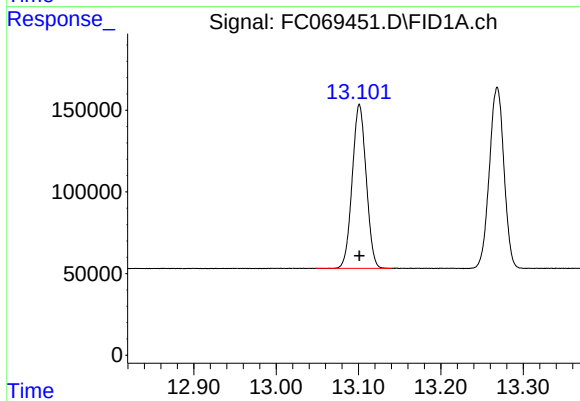
#10 n-Eicosane (C20)

R.T.: 12.656 min
Delta R.T.: 0.000 min
Response: 1410977
Conc: 10.79 ug/ml



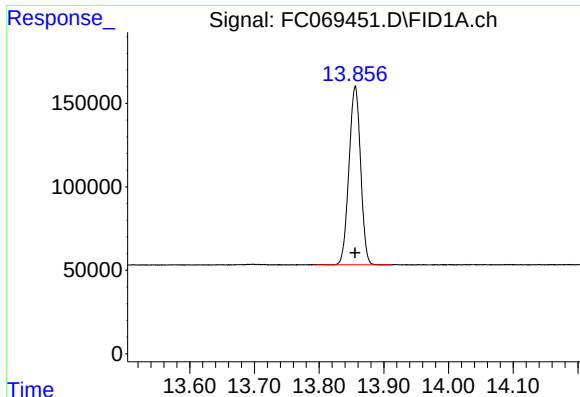
#11 n-Heneicosane (C21)

R.T.: 13.268 min
Delta R.T.: 0.000 min
Response: 1363880
Conc: 10.78 ug/ml



#12 1-chlorooctadecane (SURR)

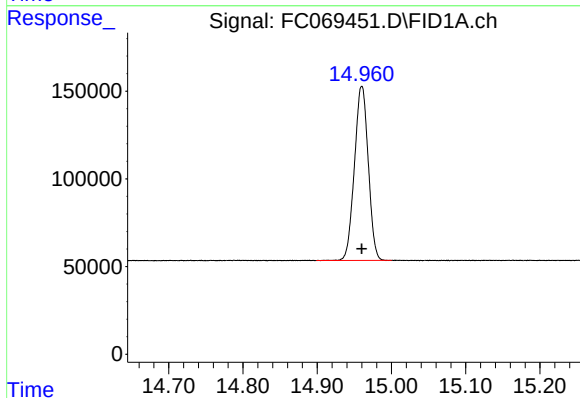
R.T.: 13.101 min
Delta R.T.: 0.000 min
Response: 1182724
Conc: 10.71 ug/ml



#13 n-Docosane (C22)

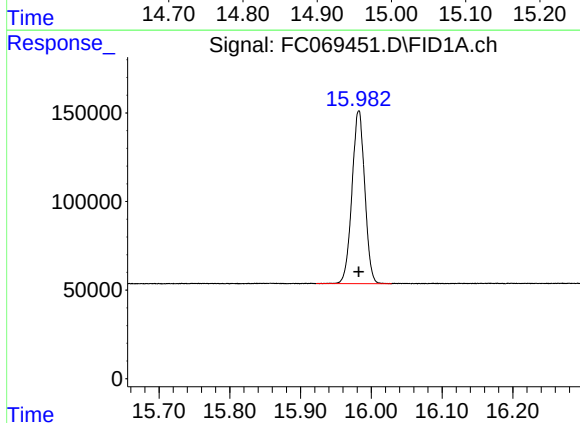
R.T.: 13.856 min
Delta R.T.: 0.000 min
Response: 1333797
Conc: 10.77 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



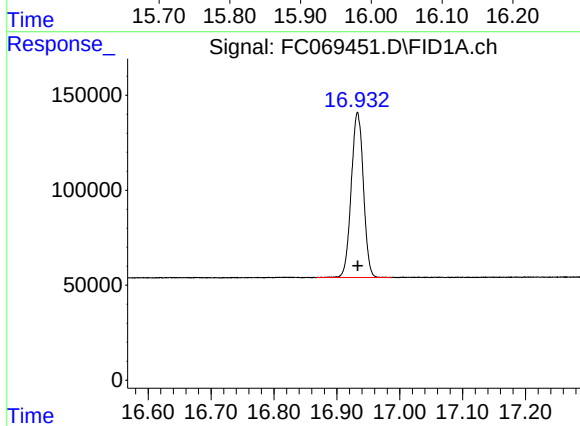
#14 n-Tetracosane (C24)

R.T.: 14.960 min
Delta R.T.: 0.000 min
Response: 1283028
Conc: 10.78 ug/ml



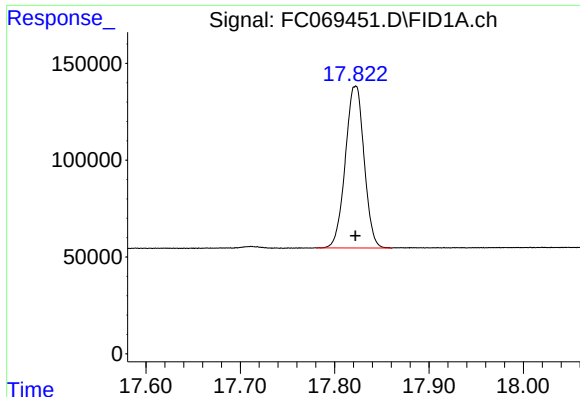
#15 n-Hexacosane (C26)

R.T.: 15.982 min
Delta R.T.: 0.000 min
Response: 1223037
Conc: 10.80 ug/ml



#16 n-Octacosane (C28)

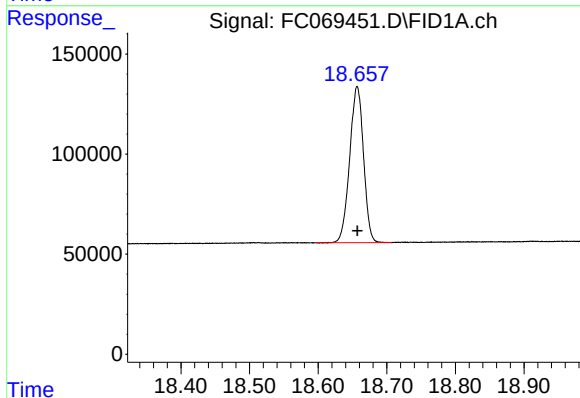
R.T.: 16.933 min
Delta R.T.: 0.000 min
Response: 1164830
Conc: 10.85 ug/ml



#17 n-Tricontane (C30)

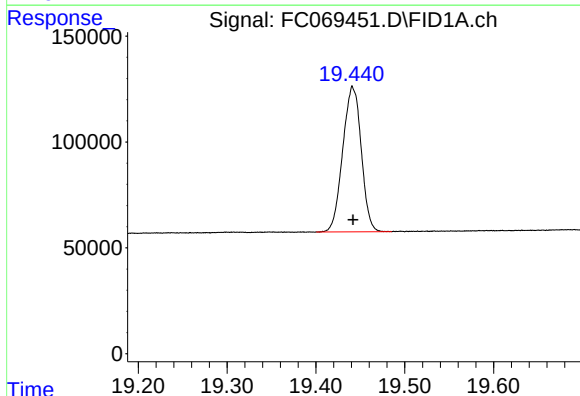
R.T.: 17.822 min
Delta R.T.: 0.000 min
Response: 1154429
Conc: 10.96 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



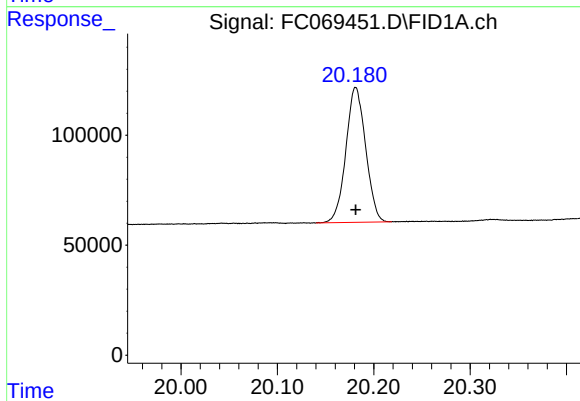
#18 n-Dotriacontane (C32)

R.T.: 18.657 min
Delta R.T.: 0.000 min
Response: 1093995
Conc: 11.04 ug/ml



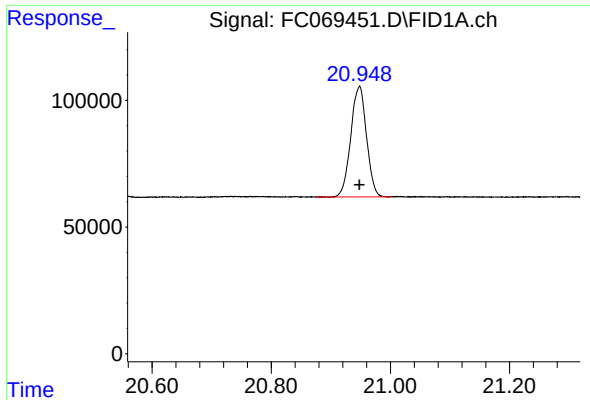
#19 n-Tetratriacontane (C34)

R.T.: 19.442 min
Delta R.T.: 0.000 min
Response: 994086
Conc: 11.01 ug/ml



#20 n-Hexatriacontane (C36)

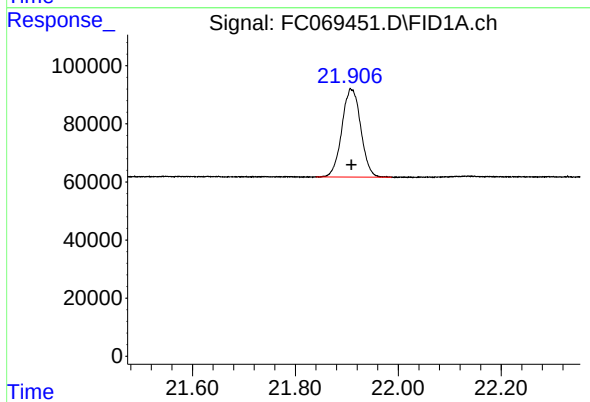
R.T.: 20.181 min
Delta R.T.: 0.000 min
Response: 870135
Conc: 10.95 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.948 min
Delta R.T.: 0.000 min
Response: 798625
Conc: 10.89 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.909 min
Delta R.T.: 0.000 min
Response: 774596
Conc: 10.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069451.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 11:20
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.403	3.374	3.450	BB	168656	1426907	90.15%	5.054%
2	4.474	4.439	4.529	BB	160526	1461675	92.34%	5.177%
3	6.069	6.027	6.135	BB	167782	1582883	100.00%	5.606%
4	6.499	6.465	6.539	BB	152526	1484597	93.79%	5.258%
5	7.127	7.087	7.220	BB	156589	1531338	96.74%	5.424%
6	8.297	8.262	8.374	BB	144795	1495509	94.48%	5.297%
7	9.901	9.865	9.972	BB	137780	1536291	97.06%	5.441%
8	11.345	11.310	11.397	BB	135741	1511440	95.49%	5.353%
9	11.666	11.630	11.717	BB	146331	1555533	98.27%	5.509%
10	12.656	12.619	12.702	BB	116701	1410977	89.14%	4.997%
11	13.101	13.049	13.140	BB	100312	1182724	74.72%	4.189%
12	13.268	13.209	13.319	BB	111145	1363880	86.16%	4.831%
13	13.856	13.795	13.912	BB	106790	1333797	84.26%	4.724%
14	14.960	14.899	15.000	BB	99359	1283028	81.06%	4.544%
15	15.982	15.922	16.029	BB	97519	1223037	77.27%	4.332%
16	16.933	16.867	16.987	BB	86966	1164830	73.59%	4.126%
17	17.822	17.780	17.860	BB	83445	1154429	72.93%	4.089%
18	18.657	18.597	18.707	BB	78037	1093995	69.11%	3.875%
19	19.442	19.400	19.485	BB	67904	994086	62.80%	3.521%
20	20.181	20.140	20.219	BB	61275	870135	54.97%	3.082%
21	20.948	20.875	21.002	BB	43886	798625	50.45%	2.829%
22	21.909	21.840	21.987	BB	30014	774596	48.94%	2.743%
Sum of corrected areas:						28234313		

Aliphatic EPH 071525.M Tue Jul 15 12:40:25 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069452.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 12:05
 Operator : YP/AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Jul 15 12:35:13 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 12:35:06 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)	11.666	814301	5.487 ug/ml
Spiked Amount 50.000		Recovery =	10.97%
12) S 1-chlorooctadecane (S...	13.102	617490	5.464 ug/ml
Spiked Amount 50.000		Recovery =	10.93%
Target Compounds			
1) T n-Nonane (C9)	3.394	750485	5.515 ug/ml
2) T n-Decane (C10)	4.470	765101	5.497 ug/ml
3) T A~Naphthalene (C11.7)	6.066	833004	5.513 ug/ml
4) T n-Dodecane (C12)	6.496	778847	5.495 ug/ml
5) T A~2-methylnaphthalene...	7.125	801282	5.485 ug/ml
6) T n-Tetradecane (C14)	8.295	778133	5.473 ug/ml
7) T n-Hexadecane (C16)	9.900	803823	5.507 ug/ml
8) T n-Octadecane (C18)	11.345	791730	5.504 ug/ml
10) T n-Eicosane (C20)	12.656	740380	5.515 ug/ml
11) T n-Heneicosane (C21)	13.268	716152	5.513 ug/ml
13) T n-Docosane (C22)	13.855	699269	5.506 ug/ml
14) T n-Tetracosane (C24)	14.960	670008	5.489 ug/ml
15) T n-Hexacosane (C26)	15.982	639609	5.505 ug/ml
16) T n-Octacosane (C28)	16.934	620060	5.601 ug/ml
17) T n-Tricontane (C30)	17.822	631378	5.766 ug/ml
18) T n-Dotriacontane (C32)	18.655	611929	5.897 ug/ml
19) T n-Tetratriacontane (C34)	19.441	549425	5.831 ug/ml
20) T n-Hexatriacontane (C36)	20.182	476252	5.766 ug/ml
21) T n-Octatriacontane (C38)	20.946	432685	5.697 ug/ml
22) T n-Tetracontane (C40)	21.909	410409	5.603 ug/ml

(f)=RT Delta > 1/2 Window

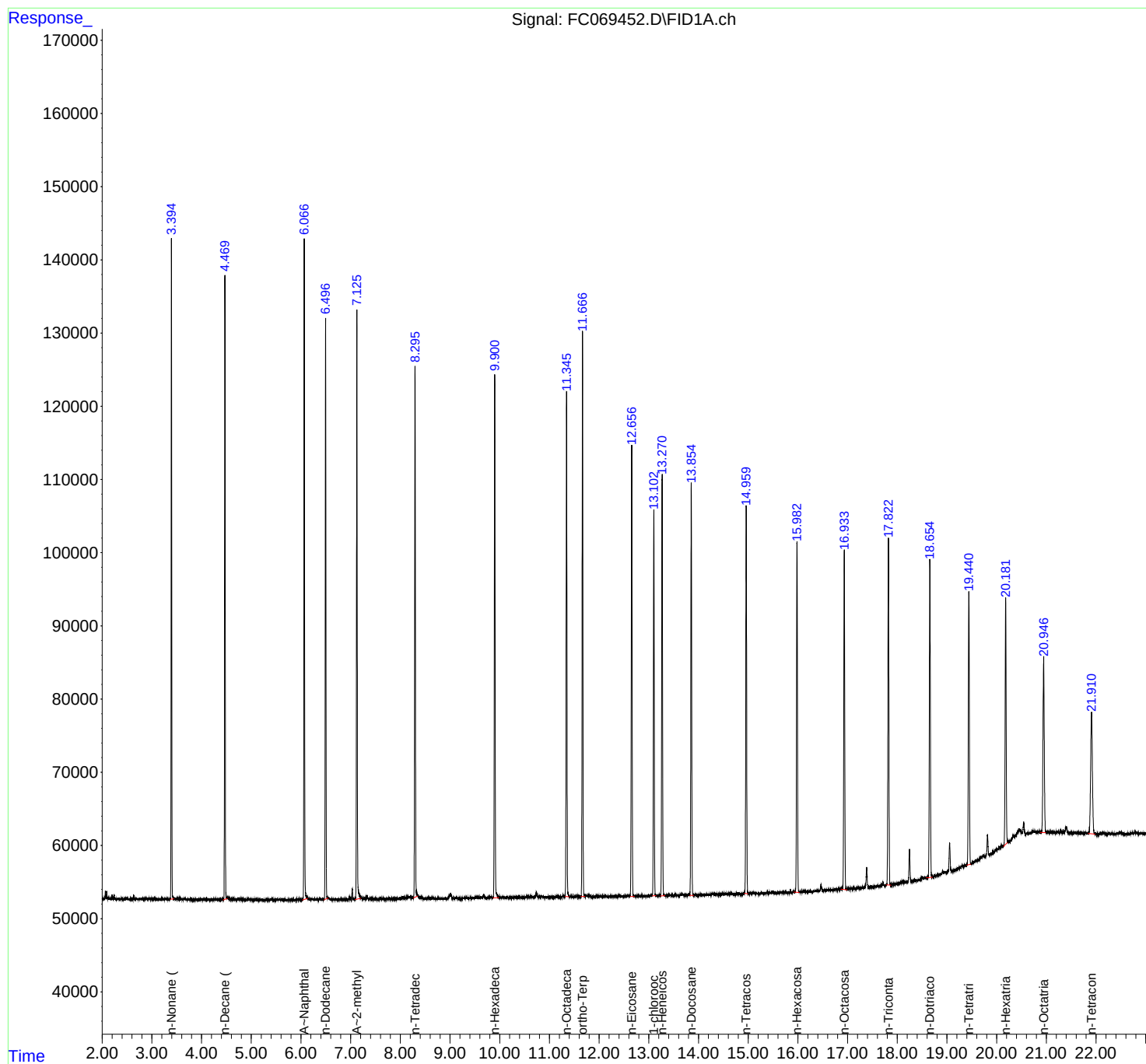
(m)=manual int.

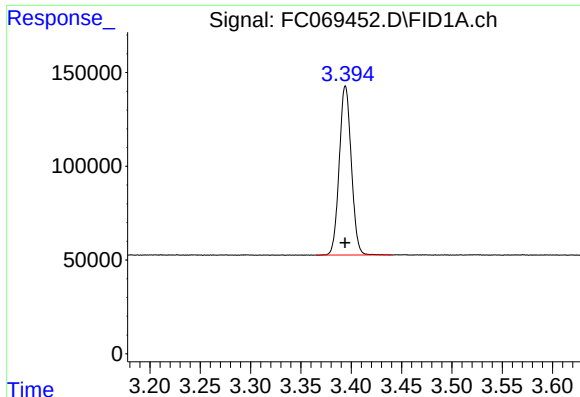
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
Data File : FC069452.D
Signal(s) : FID1A.ch
Acq On : 15 Jul 2025 12:05
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jul 15 12:35:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 12:35:06 2025
Response via : Initial Calibration
Integrator: ChemStation

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

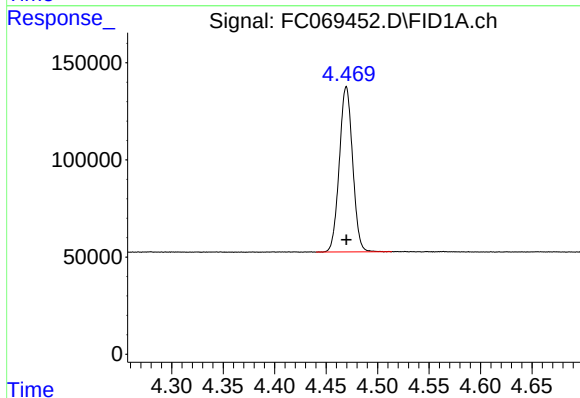




#1 n-Nonane (C9)

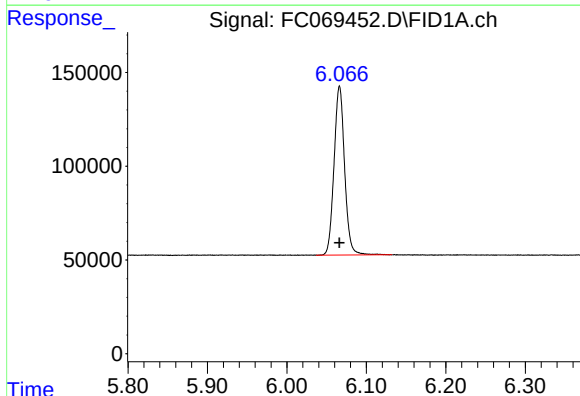
R.T.: 3.394 min
Delta R.T.: 0.000 min
Response: 750485
Conc: 5.51 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



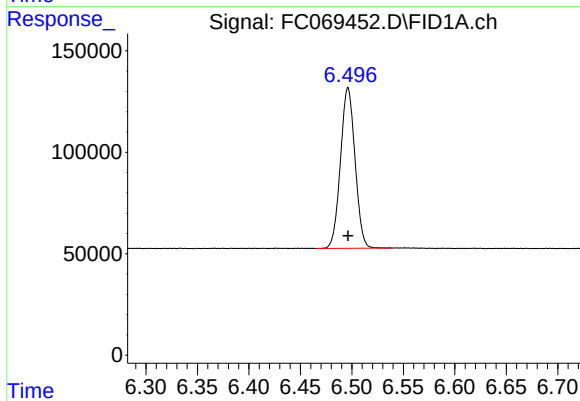
#2 n-Decane (C10)

R.T.: 4.470 min
Delta R.T.: 0.000 min
Response: 765101
Conc: 5.50 ug/ml



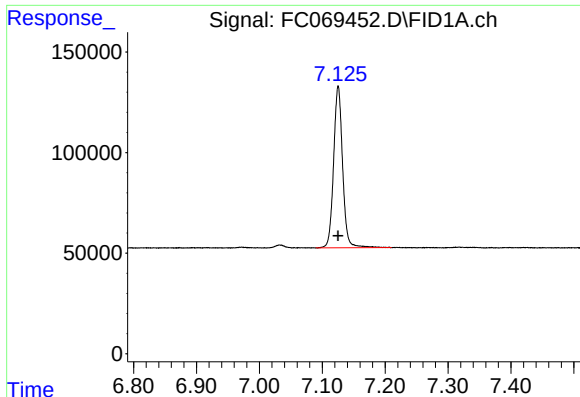
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 833004
Conc: 5.51 ug/ml



#4 n-Dodecane (C12)

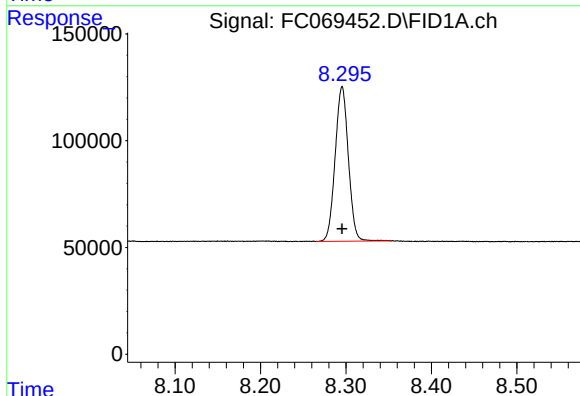
R.T.: 6.496 min
Delta R.T.: 0.000 min
Response: 778847
Conc: 5.50 ug/ml



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

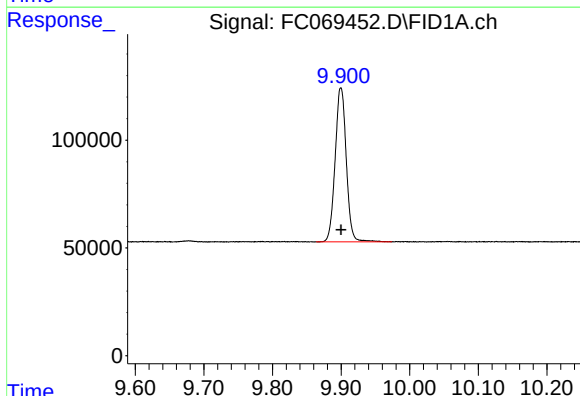
R.T.: 7.125 min
Delta R.T.: 0.000 min
Response: 801282
Conc: 5.48 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



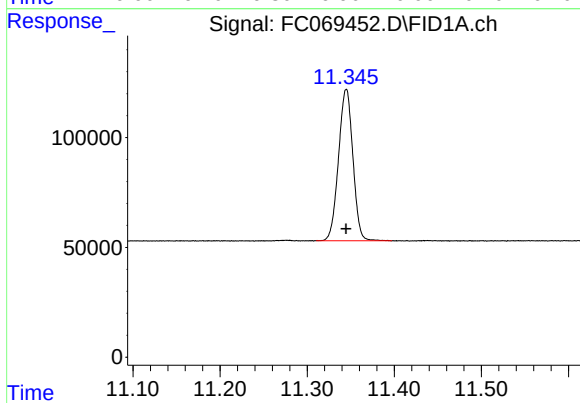
#6 n-Tetradecane (C14)

R.T.: 8.295 min
Delta R.T.: 0.000 min
Response: 778133
Conc: 5.47 ug/ml



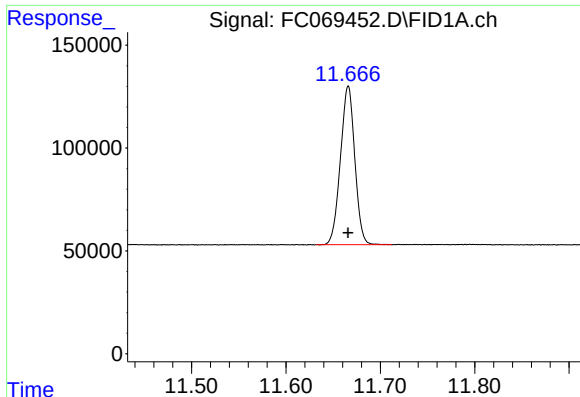
#7 n-Hexadecane (C16)

R.T.: 9.900 min
Delta R.T.: 0.000 min
Response: 803823
Conc: 5.51 ug/ml



#8 n-Octadecane (C18)

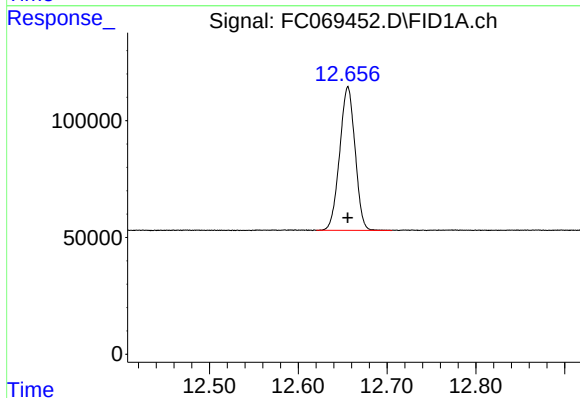
R.T.: 11.345 min
Delta R.T.: 0.000 min
Response: 791730
Conc: 5.50 ug/ml



#9 ortho-Terphenyl (SURR)

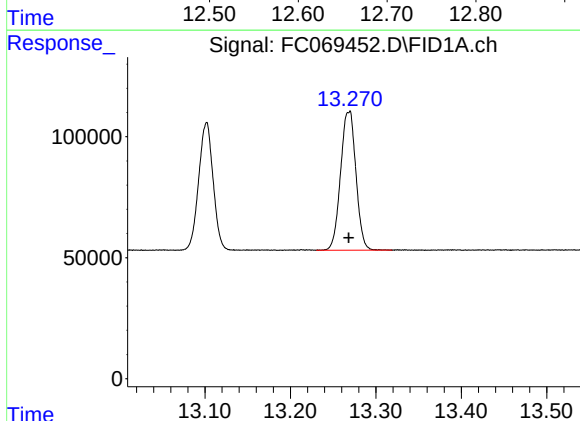
R.T.: 11.666 min
Delta R.T.: 0.000 min
Response: 814301
Conc: 5.49 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



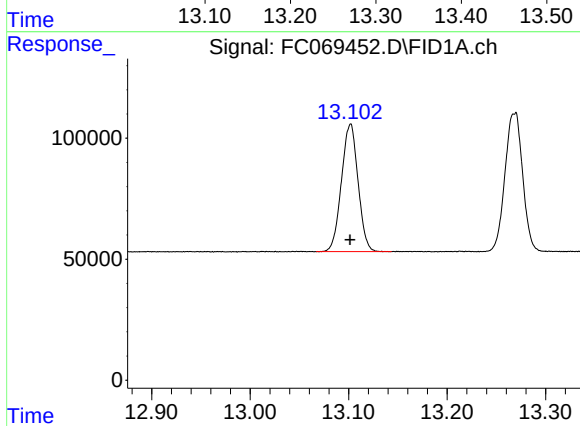
#10 n-Eicosane (C20)

R.T.: 12.656 min
Delta R.T.: 0.000 min
Response: 740380
Conc: 5.51 ug/ml



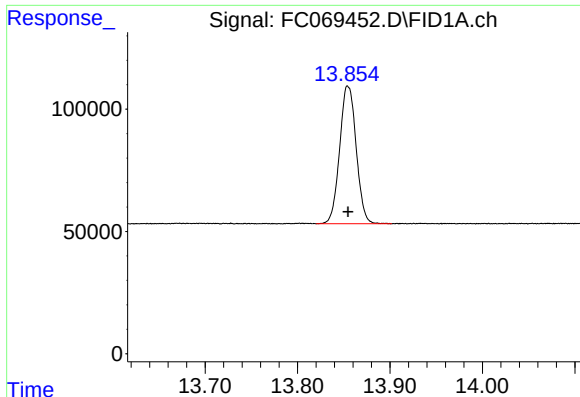
#11 n-Heneicosane (C21)

R.T.: 13.268 min
Delta R.T.: 0.000 min
Response: 716152
Conc: 5.51 ug/ml



#12 1-chlorooctadecane (SURR)

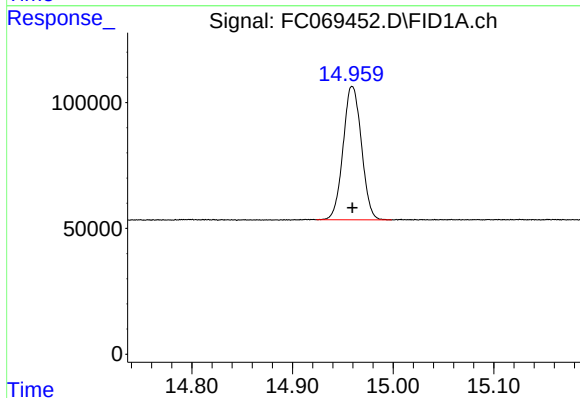
R.T.: 13.102 min
Delta R.T.: 0.000 min
Response: 617490
Conc: 5.46 ug/ml



#13 n-Docosane (C22)

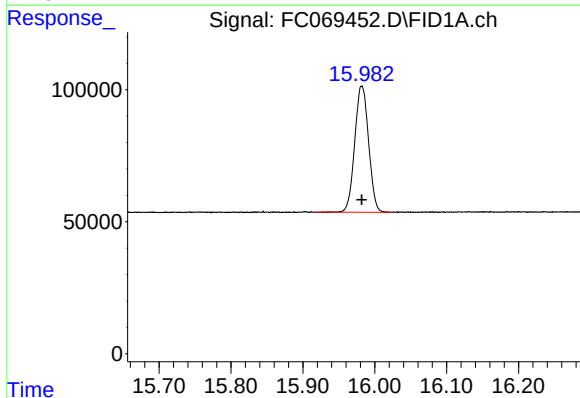
R.T.: 13.855 min
Delta R.T.: 0.000 min
Response: 699269
Conc: 5.51 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



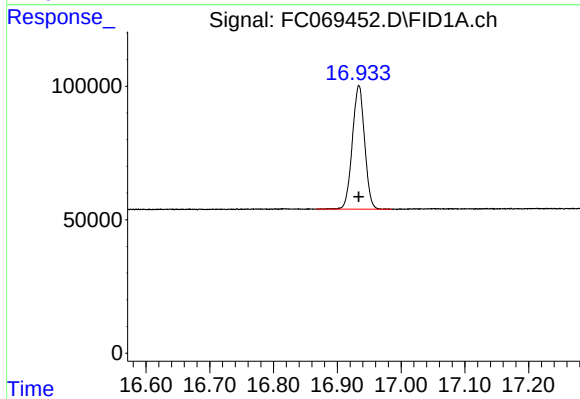
#14 n-Tetracosane (C24)

R.T.: 14.960 min
Delta R.T.: 0.000 min
Response: 670008
Conc: 5.49 ug/ml



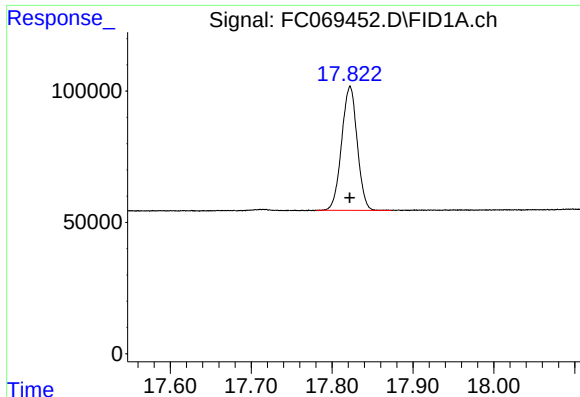
#15 n-Hexacosane (C26)

R.T.: 15.982 min
Delta R.T.: 0.000 min
Response: 639609
Conc: 5.51 ug/ml



#16 n-Octacosane (C28)

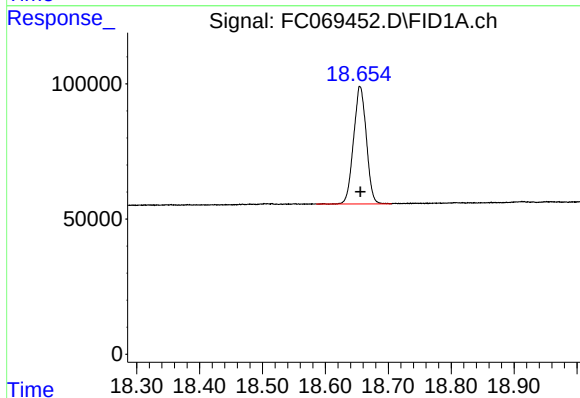
R.T.: 16.934 min
Delta R.T.: 0.000 min
Response: 620060
Conc: 5.60 ug/ml



#17 n-Tricontane (C30)

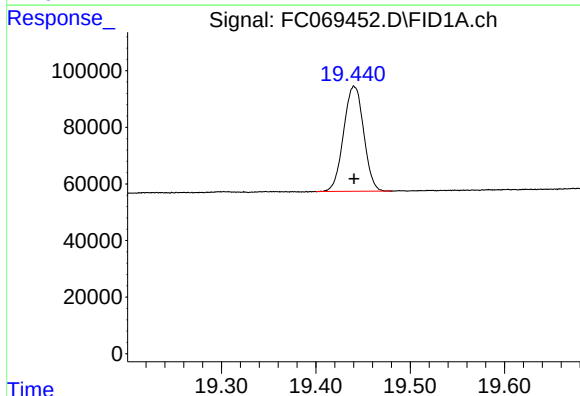
R.T.: 17.822 min
Delta R.T.: 0.000 min
Response: 631378
Conc: 5.77 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



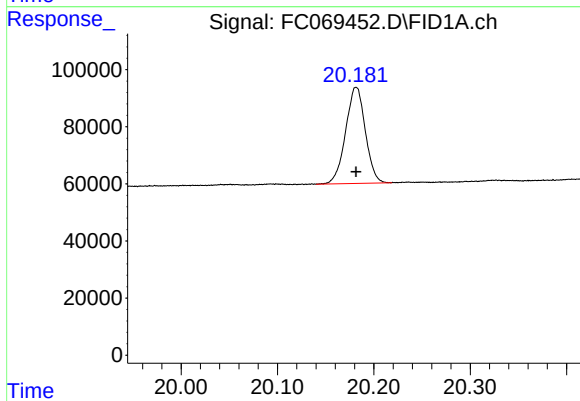
#18 n-Dotriacontane (C32)

R.T.: 18.655 min
Delta R.T.: 0.000 min
Response: 611929
Conc: 5.90 ug/ml



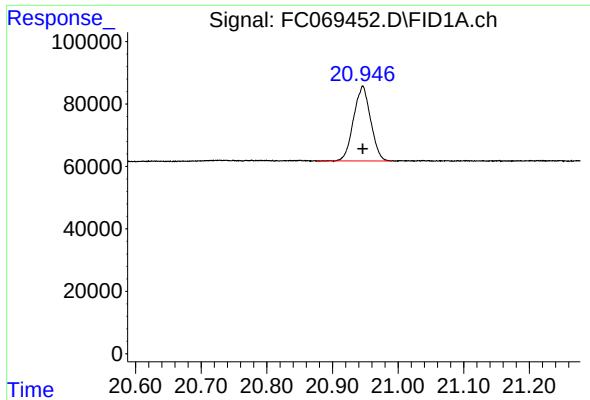
#19 n-Tetratriacontane (C34)

R.T.: 19.441 min
Delta R.T.: 0.000 min
Response: 549425
Conc: 5.83 ug/ml



#20 n-Hexatriacontane (C36)

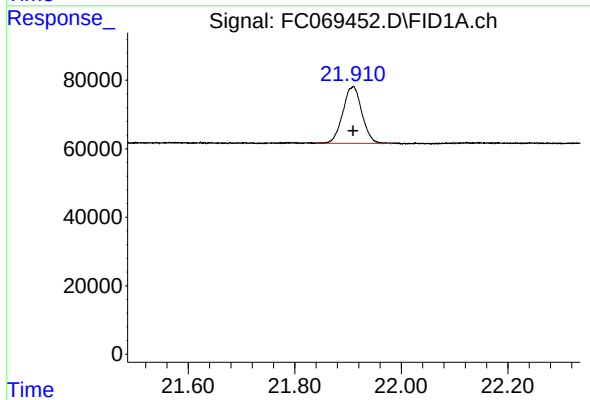
R.T.: 20.182 min
Delta R.T.: 0.000 min
Response: 476252
Conc: 5.77 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.946 min
Delta R.T.: 0.000 min
Response: 432685
Conc: 5.70 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.909 min
Delta R.T.: 0.000 min
Response: 410409
Conc: 5.60 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069452.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 12:05
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.394	3.365	3.440	BB	90397	750485	90.09%	5.026%
2	4.470	4.440	4.514	BB	85196	765101	91.85%	5.124%
3	6.066	6.037	6.132	BB	90198	833004	100.00%	5.579%
4	6.496	6.465	6.539	BB	79215	778847	93.50%	5.216%
5	7.125	7.090	7.210	BB	80603	801282	96.19%	5.366%
6	8.295	8.265	8.354	BB	72406	778133	93.41%	5.211%
7	9.900	9.864	9.974	BB	71433	803823	96.50%	5.383%
8	11.345	11.310	11.397	BB	69121	791730	95.05%	5.302%
9	11.666	11.632	11.712	BB	77099	814301	97.75%	5.453%
10	12.656	12.620	12.705	BB	61401	740380	88.88%	4.958%
11	13.102	13.067	13.144	BB	52870	617490	74.13%	4.135%
12	13.268	13.230	13.319	BB	56844	716152	85.97%	4.796%
13	13.855	13.820	13.902	BB	55872	699269	83.95%	4.683%
14	14.960	14.924	14.999	BB	52918	670008	80.43%	4.487%
15	15.982	15.919	16.024	BB	47746	639609	76.78%	4.284%
16	16.934	16.867	16.985	BB	46455	620060	74.44%	4.153%
17	17.822	17.780	17.874	BB	47237	631378	75.80%	4.228%
18	18.655	18.585	18.705	BB	43285	611929	73.46%	4.098%
19	19.441	19.400	19.480	BB	37221	549425	65.96%	3.680%
20	20.182	20.140	20.219	BB	33628	476252	57.17%	3.190%
21	20.946	20.875	20.990	BB	24032	432685	51.94%	2.898%
22	21.909	21.840	21.982	BB	16534	410409	49.27%	2.749%
Sum of corrected areas:						14931751		

Aliphatic EPH 071525.M Tue Jul 15 12:40:10 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
 Data File : FC069453.D
 Signal(s) : FID1A.ch
 Acq On : 15 Jul 2025 12:52
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Jul 15 13:16:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 12:35:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.668	2845378	19.173 ug/ml
Spiked Amount 50.000		Recovery =	38.35%
12) S 1-chlorooctadecane (S...	13.104	2167375	19.179 ug/ml
Spiked Amount 50.000		Recovery =	38.36%
Target Compounds			
1) T n-Nonane (C9)	3.400	2643588	19.427 ug/ml
2) T n-Decane (C10)	4.474	2716268	19.516 ug/ml
3) T A~Naphthalene (C11.7)	6.068	2929559	19.387 ug/ml
4) T n-Dodecane (C12)	6.499	2786385	19.659 ug/ml
5) T A~2-methylnaphthalene...	7.128	2828279	19.359 ug/ml
6) T n-Tetradecane (C14)	8.298	2809138	19.757 ug/ml
7) T n-Hexadecane (C16)	9.902	2870883	19.669 ug/ml
8) T n-Octadecane (C18)	11.347	2802831	19.485 ug/ml
10) T n-Eicosane (C20)	12.658	2593298	19.317 ug/ml
11) T n-Heneicosane (C21)	13.271	2502094	19.263 ug/ml
13) T n-Docosane (C22)	13.858	2437741	19.193 ug/ml
14) T n-Tetracosane (C24)	14.962	2338129	19.157 ug/ml
15) T n-Hexacosane (C26)	15.985	2218225	19.093 ug/ml
16) T n-Octacosane (C28)	16.935	2114801	19.102 ug/ml
17) T n-Tricontane (C30)	17.824	2102291	19.199 ug/ml
18) T n-Dotriacontane (C32)	18.658	2003331	19.305 ug/ml
19) T n-Tetratriacontane (C34)	19.442	1827746	19.397 ug/ml
20) T n-Hexatriacontane (C36)	20.184	1603885	19.418 ug/ml
21) T n-Octatriacontane (C38)	20.948	1475764	19.430 ug/ml
22) T n-Tetracontane (C40)	21.911	1429602	19.517 ug/ml

(f)=RT Delta > 1/2 Window

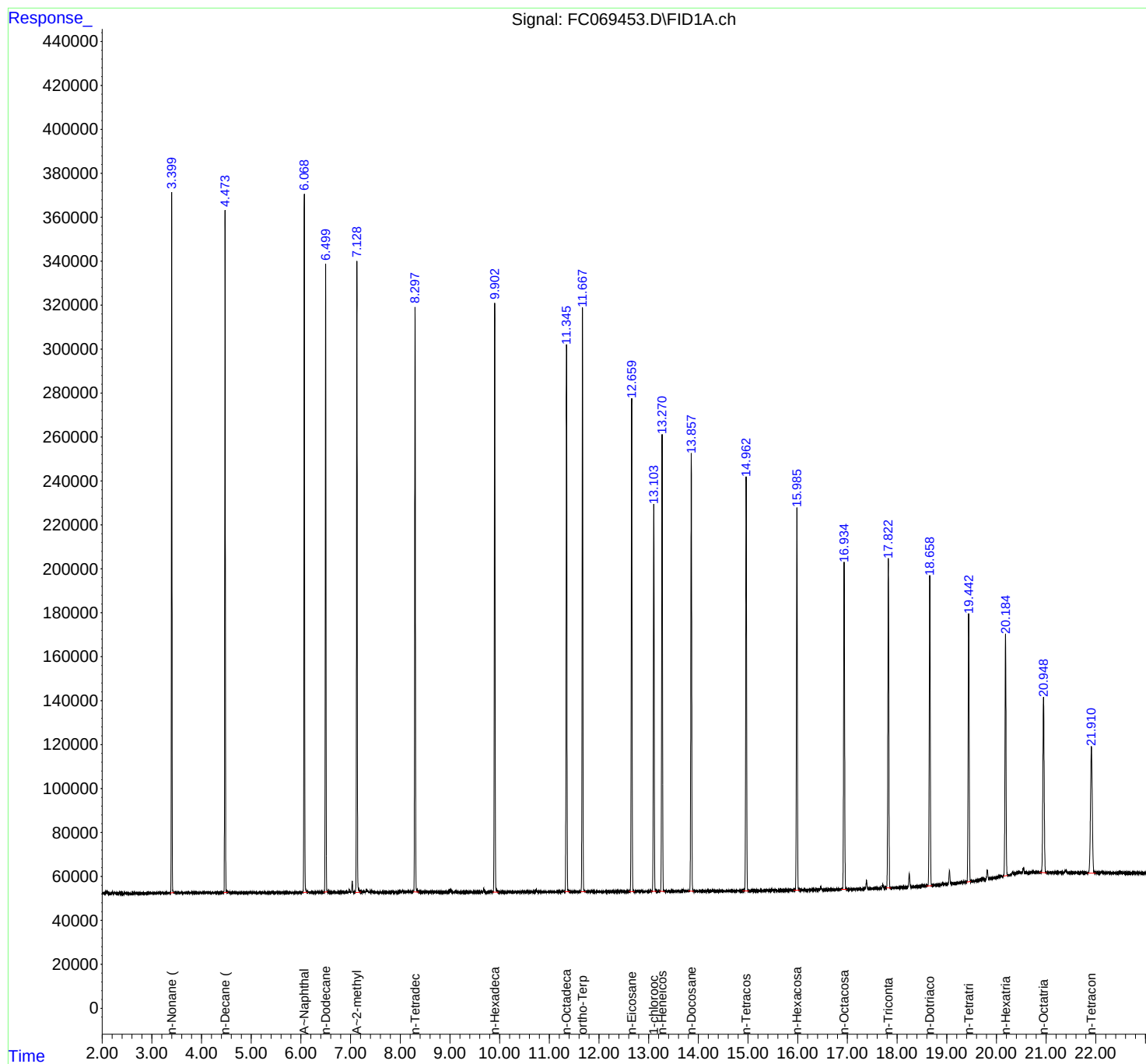
(m)=manual int.

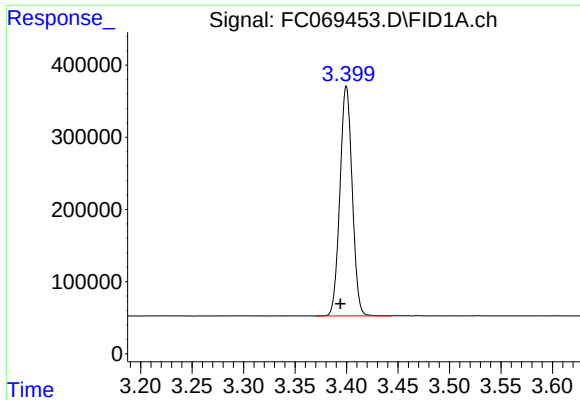
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC071525AL\
Data File : FC069453.D
Signal(s) : FID1A.ch
Acq On : 15 Jul 2025 12:52
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jul 15 13:16:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 12:35:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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

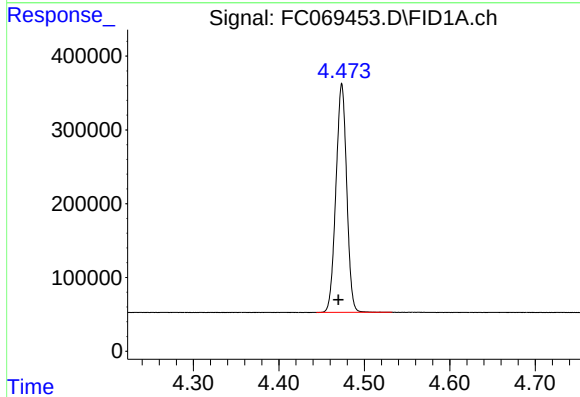




#1 n-Nonane (C9)

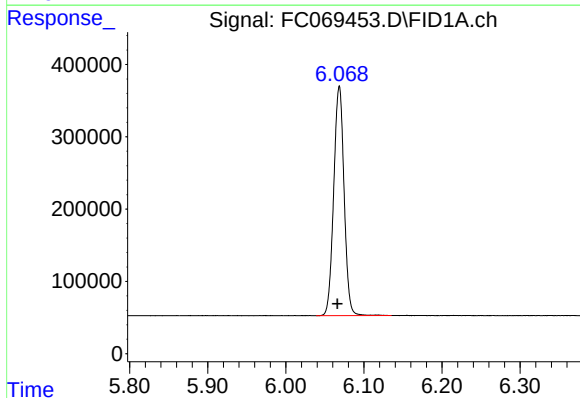
R.T.: 3.400 min
Delta R.T.: 0.006 min
Response: 2643588
Conc: 19.43 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



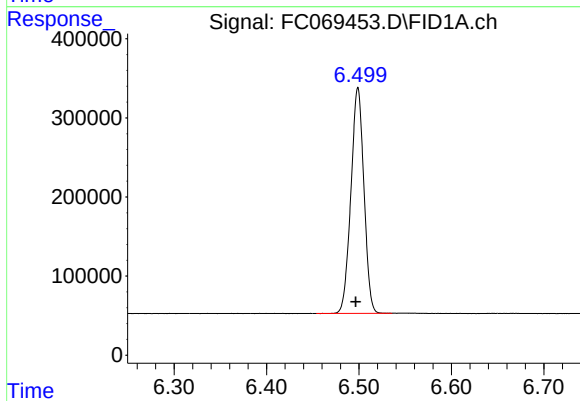
#2 n-Decane (C10)

R.T.: 4.474 min
Delta R.T.: 0.004 min
Response: 2716268
Conc: 19.52 ug/ml



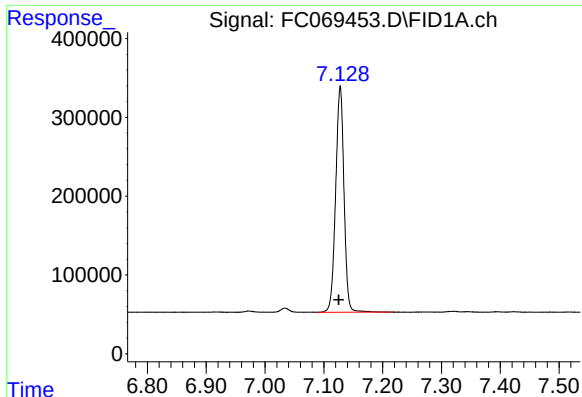
#3 A~Naphthalene (C11.7)

R.T.: 6.068 min
Delta R.T.: 0.002 min
Response: 2929559
Conc: 19.39 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.499 min
Delta R.T.: 0.002 min
Response: 2786385
Conc: 19.66 ug/ml



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

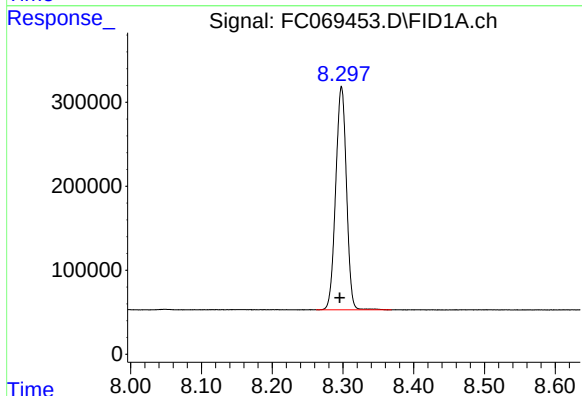
R.T.: 7.128 min
Delta R.T.: 0.002 min
Response: 2828279
Conc: 19.36 ug/ml

Instrument :

FID_C

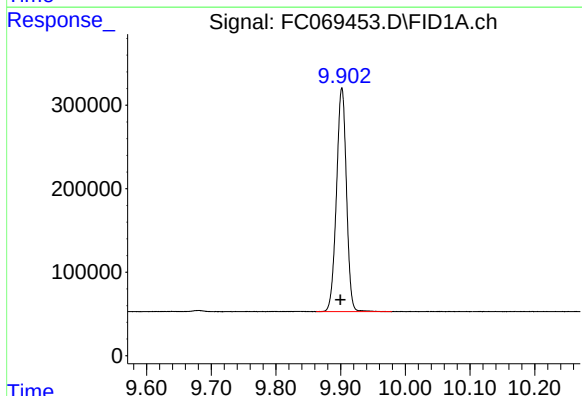
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



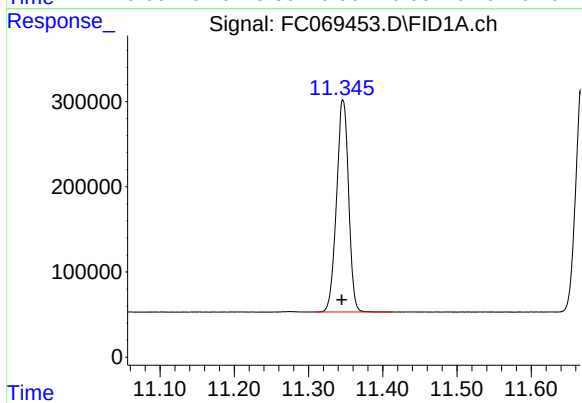
#6 n-Tetradecane (C14)

R.T.: 8.298 min
Delta R.T.: 0.002 min
Response: 2809138
Conc: 19.76 ug/ml



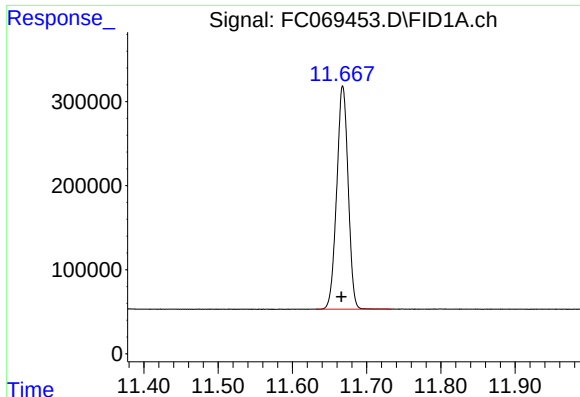
#7 n-Hexadecane (C16)

R.T.: 9.902 min
Delta R.T.: 0.002 min
Response: 2870883
Conc: 19.67 ug/ml



#8 n-Octadecane (C18)

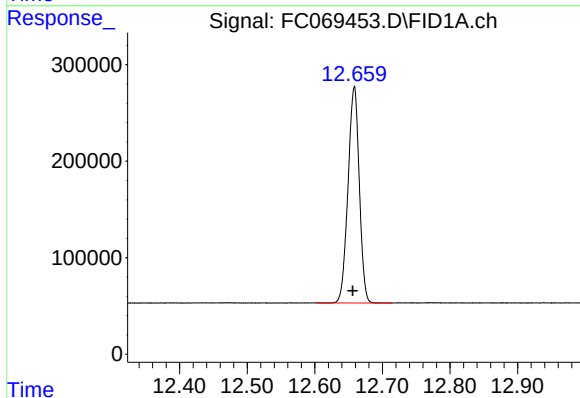
R.T.: 11.347 min
Delta R.T.: 0.002 min
Response: 2802831
Conc: 19.48 ug/ml



#9 ortho-Terphenyl (SURR)

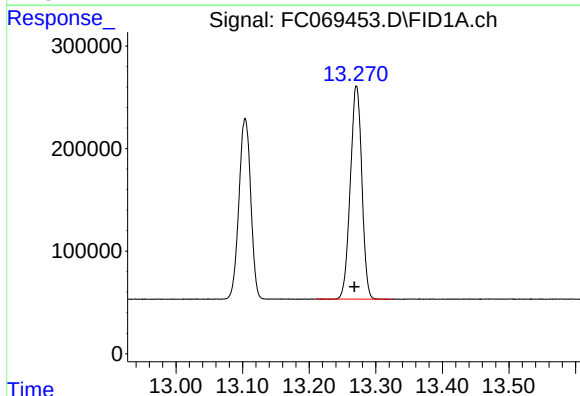
R.T.: 11.668 min
Delta R.T.: 0.002 min
Response: 2845378
Conc: 19.17 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



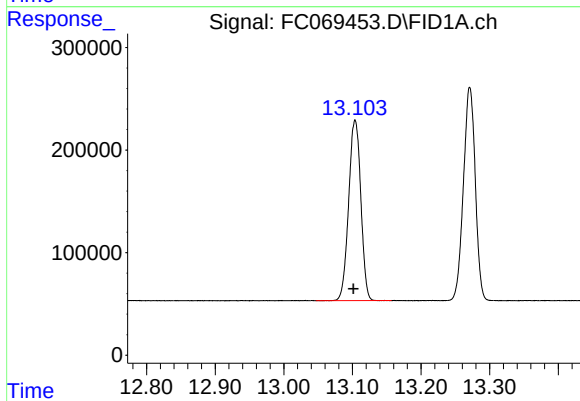
#10 n-Eicosane (C20)

R.T.: 12.658 min
Delta R.T.: 0.002 min
Response: 2593298
Conc: 19.32 ug/ml



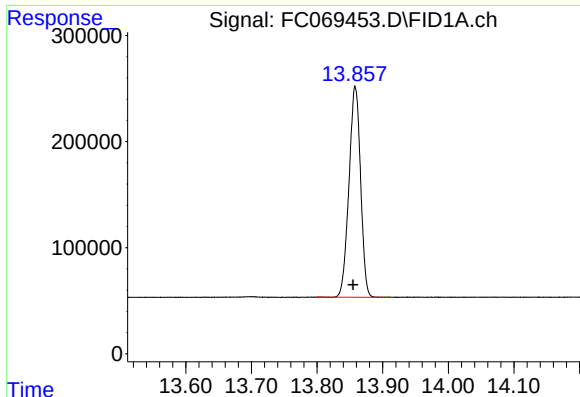
#11 n-Heneicosane (C21)

R.T.: 13.271 min
Delta R.T.: 0.003 min
Response: 2502094
Conc: 19.26 ug/ml



#12 1-chlorooctadecane (SURR)

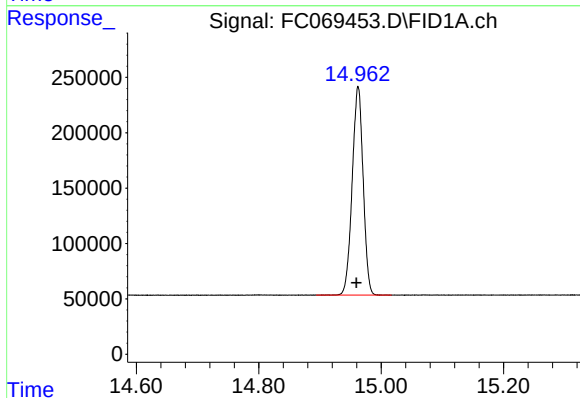
R.T.: 13.104 min
Delta R.T.: 0.002 min
Response: 2167375
Conc: 19.18 ug/ml



#13 n-Docosane (C22)

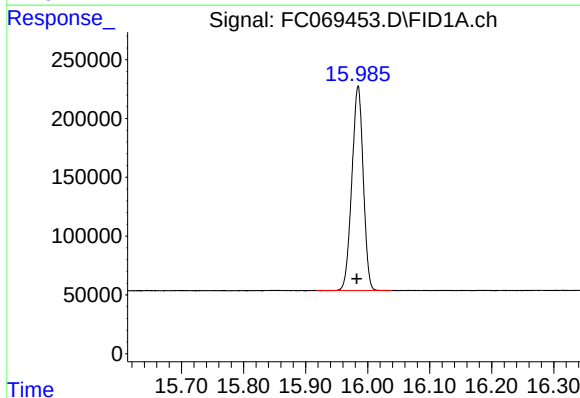
R.T.: 13.858 min
Delta R.T.: 0.003 min
Response: 2437741
Conc: 19.19 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



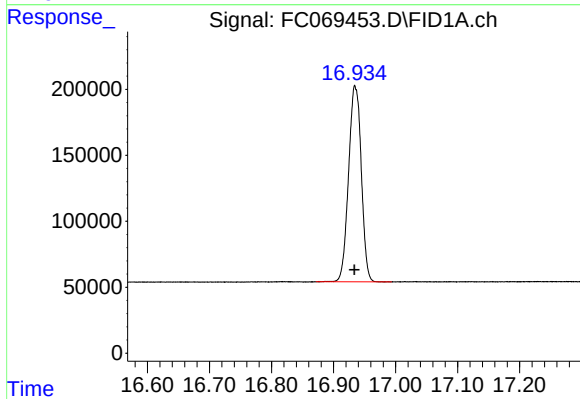
#14 n-Tetracosane (C24)

R.T.: 14.962 min
Delta R.T.: 0.003 min
Response: 2338129
Conc: 19.16 ug/ml



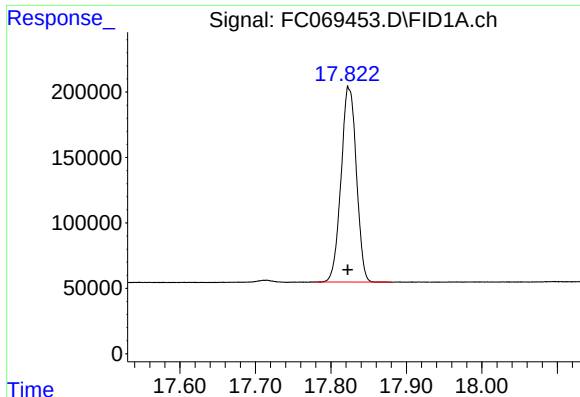
#15 n-Hexacosane (C26)

R.T.: 15.985 min
Delta R.T.: 0.002 min
Response: 2218225
Conc: 19.09 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.935 min
Delta R.T.: 0.001 min
Response: 2114801
Conc: 19.10 ug/ml



#17 n-Tricontane (C30)

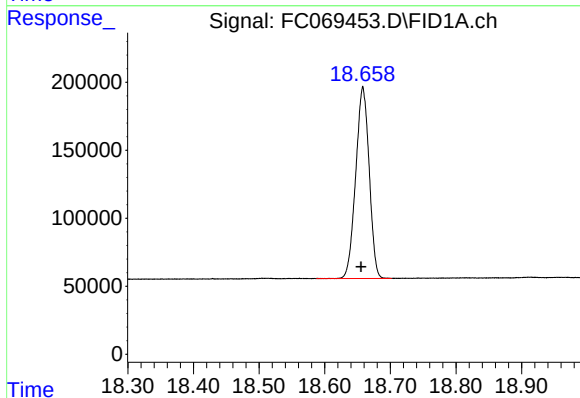
R.T.: 17.824 min
Delta R.T.: 0.002 min
Response: 2102291
Conc: 19.20 ug/ml

Instrument :

FID_C

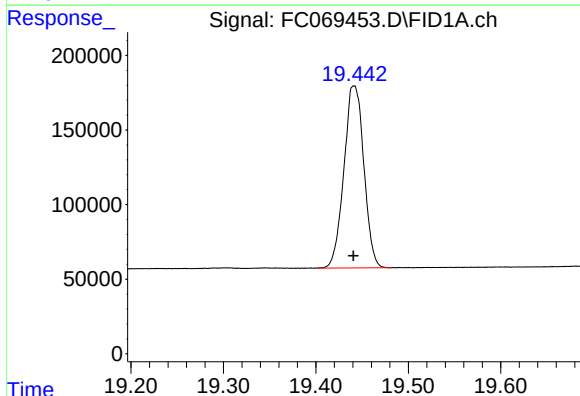
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



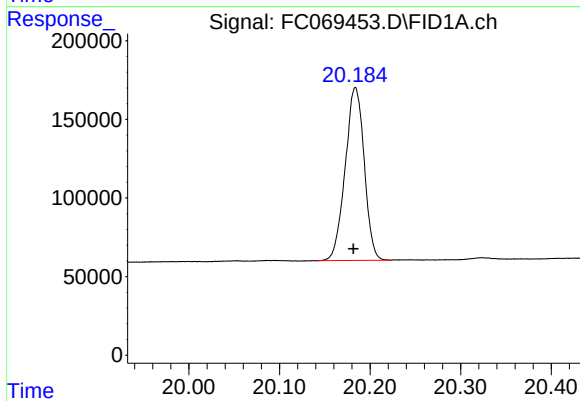
#18 n-Dotriacontane (C32)

R.T.: 18.658 min
Delta R.T.: 0.003 min
Response: 2003331
Conc: 19.31 ug/ml



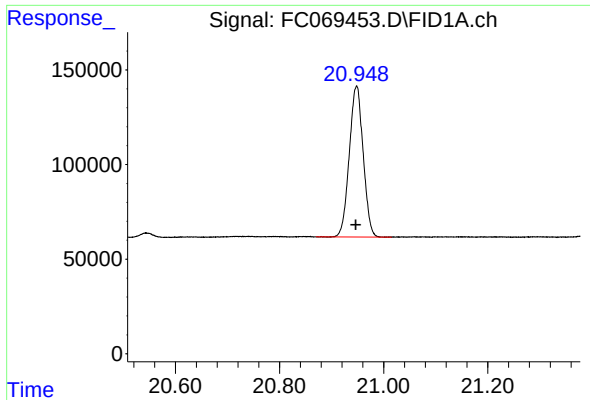
#19 n-Tetratriacontane (C34)

R.T.: 19.442 min
Delta R.T.: 0.000 min
Response: 1827746
Conc: 19.40 ug/ml



#20 n-Hexatriacontane (C36)

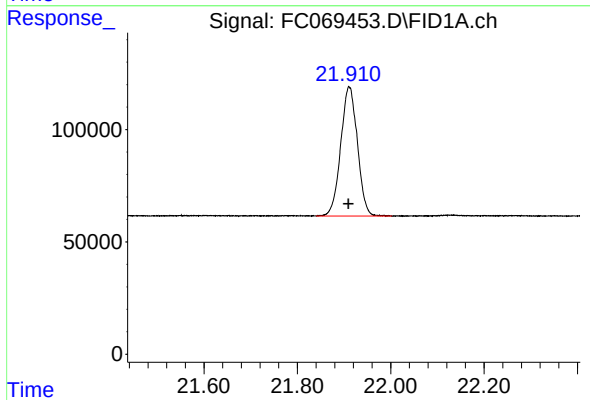
R.T.: 20.184 min
Delta R.T.: 0.002 min
Response: 1603885
Conc: 19.42 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.948 min
Delta R.T.: 0.002 min
Response: 1475764
Conc: 19.43 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.911 min
Delta R.T.: 0.002 min
Response: 1429602
Conc: 19.52 ug/ml

Initial Calibration Report for SequenceID : FE072625AL

AreaCount

Parameter Range	FE055032.D	FE055033.D	FE055034.D	FE055035.D	FE055036.D	
Aliphatic C9-C12	35383724.000	17292498.000	7183362.000	3893177.000	2057304.000	
Aliphatic C12-C16	25104216.000	12244432.000	5126852.000	2800386.000	1484186.000	
Aliphatic C16-C21	37427151.000	18155075.000	7597595.000	4132275.000	2182732.000	
Aliphatic C21-C28	47172348.000	22938071.000	9627325.000	5248797.000	2791927.000	
Aliphatic C28-C40	65510063.000	32371301.000	13875816.000	7658874.000	4262296.000	
Aliphatic EPH	210597502.000	103001377.000	43410950.000	23733509.000	12778445.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	123975.5866664	7.407				
Aliphatic C12-C16	132914.92	8.221				
Aliphatic C16-C21	131135.1106664	7.753				
Aliphatic C21-C28	124755.8125	8.305				
Aliphatic C28-C40	120488.8016664	11.934				
Aliphatic EPH	125173.2217774	9.197				

Concentration

Parameter Range	FE055032.D	FE055033.D	FE055034.D	FE055035.D	FE055036.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	FE055032.D	FE055033.D	FE055034.D	FE055035.D	FE055036.D	
Aliphatic C9-C12	117945.746666	115283.320000	119722.700000	129772.566666	137153.600000	
Aliphatic C12-C16	125521.080000	122444.320000	128171.300000	140019.300000	148418.600000	
Aliphatic C16-C21	124757.170000	121033.833333	126626.583333	137742.500000	145515.466666	

Initial Calibration Report for SequenceID : FE072625AL

Aliphatic C21-C28	117930.870000	114690.355000	120341.562500	131219.925000	139596.350000	
Aliphatic C28-C40	109183.438333	107904.336666	115631.800000	127647.900000	142076.533333	
Aliphatic EPH	116998.612222	114445.974444	120585.972222	131852.827777	141982.722222	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055032.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 20:19
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Jul 26 03:48:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:46:03 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)	12.097	14135752	98.714 ug/ml
Spiked Amount 50.000		Recovery =	197.43%
12) S 1-chlorooctadecane (S...	13.530	10740467	99.149 ug/ml
Spiked Amount 50.000		Recovery =	198.30%
Target Compounds			
1) T n-Nonane (C9)	3.428	11510228	98.379 ug/ml
2) T n-Decane (C10)	4.687	11769921	98.454 ug/ml
3) T A~Naphthalene (C11.7)	6.408	13577276	98.341 ug/ml
4) T n-Dodecane (C12)	6.864	12103575	98.706 ug/ml
5) T A~2-methylnaphthalene...	7.511	13293703	99.239 ug/ml
6) T n-Tetradecane (C14)	8.702	12295593	97.420 ug/ml
7) T n-Hexadecane (C16)	10.317	12808623	98.429 ug/ml
8) T n-Octadecane (C18)	11.768	12935722	98.390 ug/ml
10) T n-Eicosane (C20)	13.082	12366561	98.482 ug/ml
11) T n-Heneicosane (C21)	13.697	12124868	98.710 ug/ml
13) T n-Docosane (C22)	14.285	12016103	98.598 ug/ml
14) T n-Tetracosane (C24)	15.392	11905699	98.360 ug/ml
15) T n-Hexacosane (C26)	16.416	11717679	98.180 ug/ml
16) T n-Octacosane (C28)	17.367	11532867	96.828 ug/ml
17) T n-Tricontane (C30)	18.257	11778084	94.097 ug/ml
18) T n-Dotriacontane (C32)	19.093	11564377	92.645 ug/ml
19) T n-Tetratriacontane (C34)	19.878	11138630	93.797 ug/ml
20) T n-Hexatriacontane (C36)	20.619	10487790	94.555 ug/ml
21) T n-Octatriacontane (C38)	21.404	10292102	96.300 ug/ml
22) T n-Tetracontane (C40)	22.400	10249080	95.561 ug/ml

(f)=RT Delta > 1/2 Window

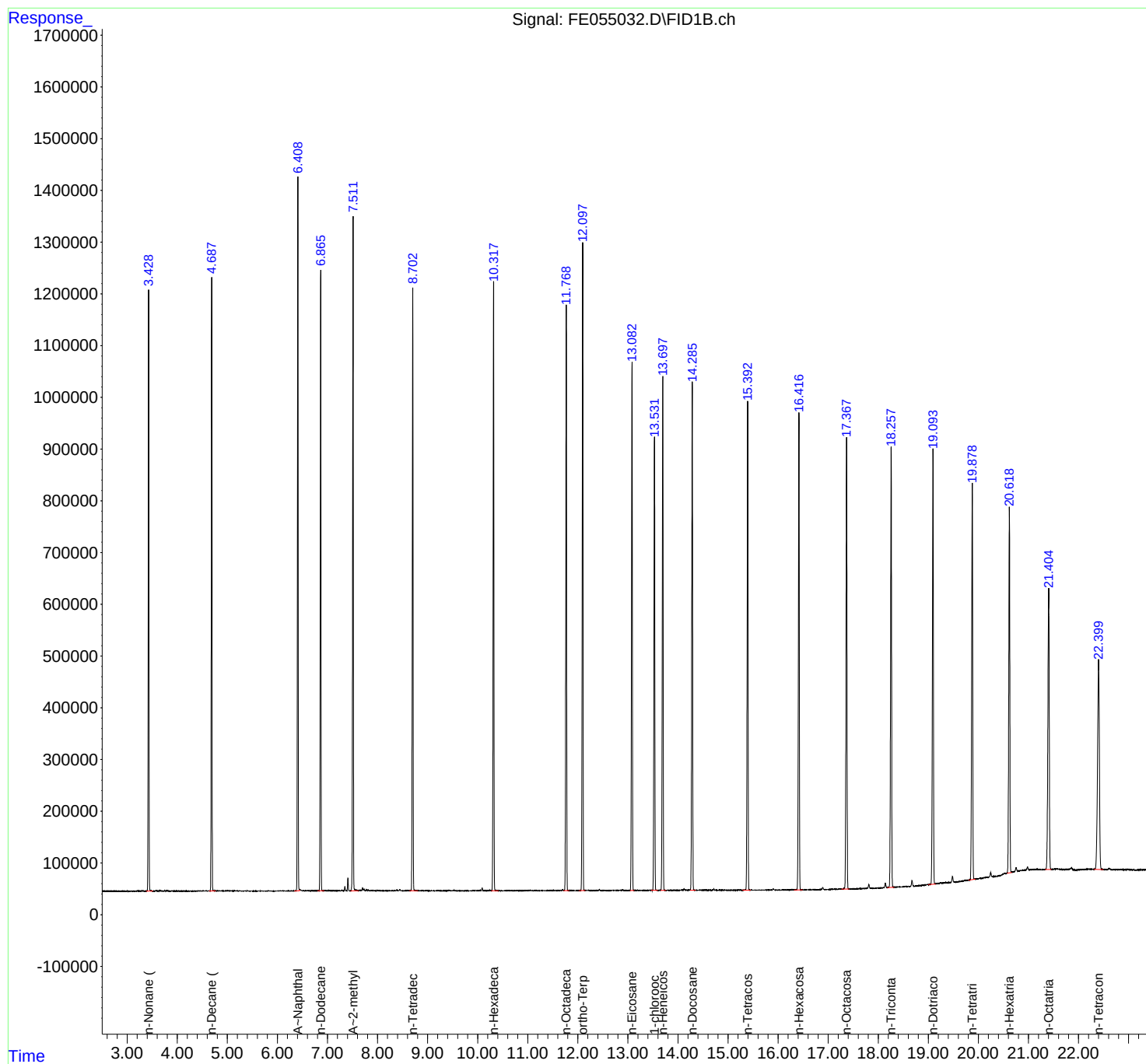
(m)=manual int.

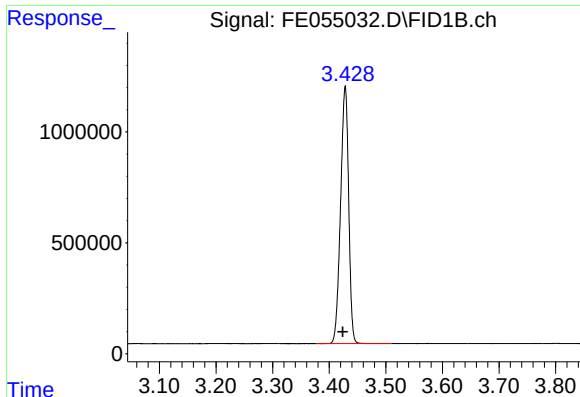
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
Data File : FE055032.D
Signal(s) : FID1B.ch
Acq On : 25 Jul 2025 20:19
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jul 26 03:48:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:46:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

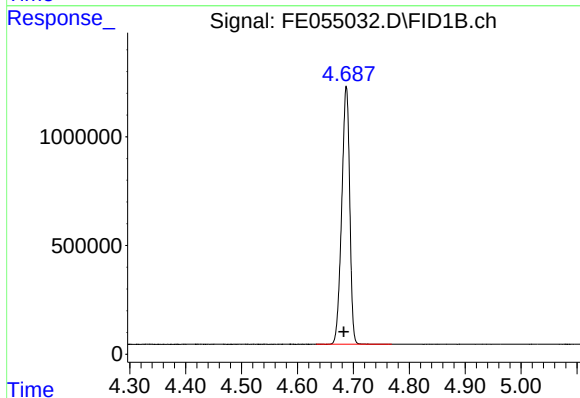




#1 n-Nonane (C9)

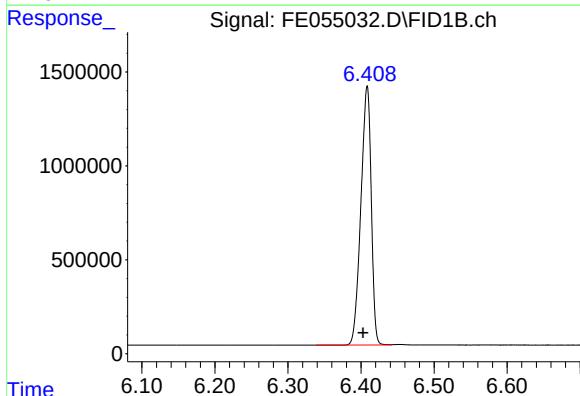
R.T.: 3.428 min
Delta R.T.: 0.004 min
Response: 11510228
Conc: 98.38 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



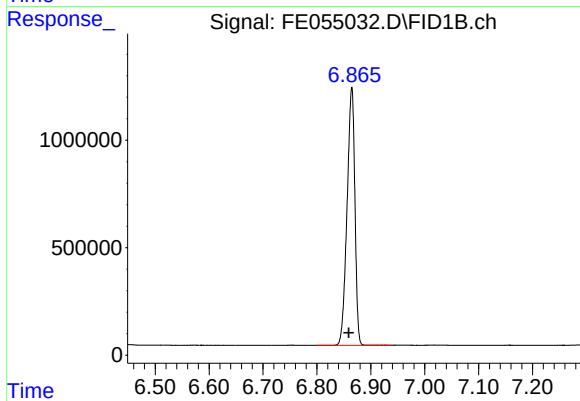
#2 n-Decane (C10)

R.T.: 4.687 min
Delta R.T.: 0.004 min
Response: 11769921
Conc: 98.45 ug/ml



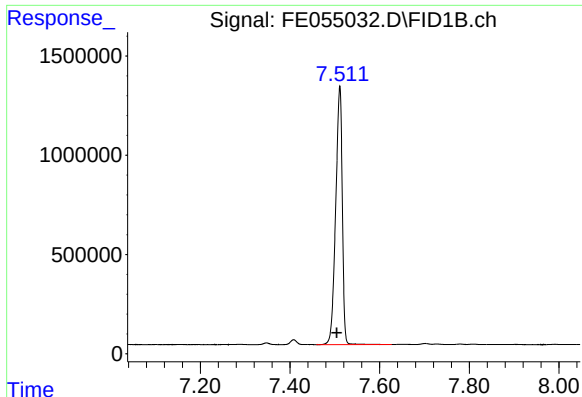
#3 A~Naphthalene (C11.7)

R.T.: 6.408 min
Delta R.T.: 0.005 min
Response: 13577276
Conc: 98.34 ug/ml



#4 n-Dodecane (C12)

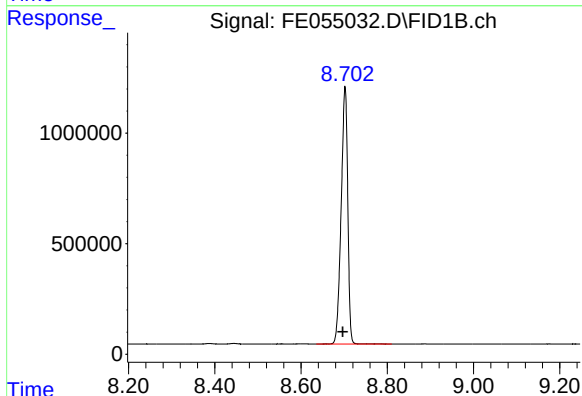
R.T.: 6.864 min
Delta R.T.: 0.005 min
Response: 12103575
Conc: 98.71 ug/ml



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

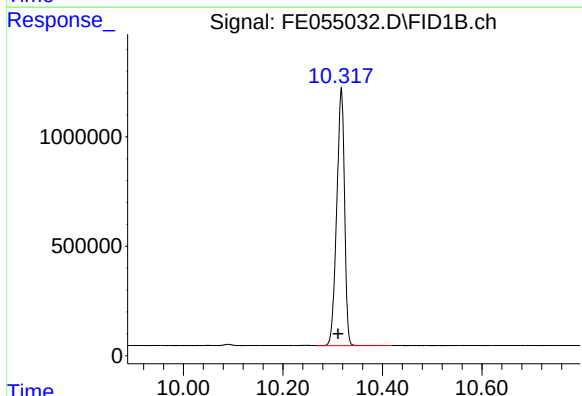
R.T.: 7.511 min
Delta R.T.: 0.007 min
Response: 13293703
Conc: 99.24 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



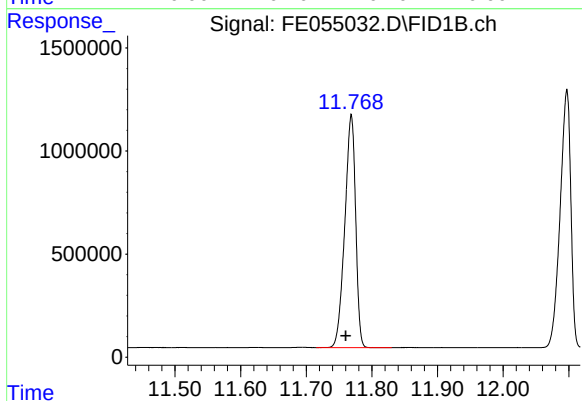
#6 n-Tetradecane (C14)

R.T.: 8.702 min
Delta R.T.: 0.005 min
Response: 12295593
Conc: 97.42 ug/ml



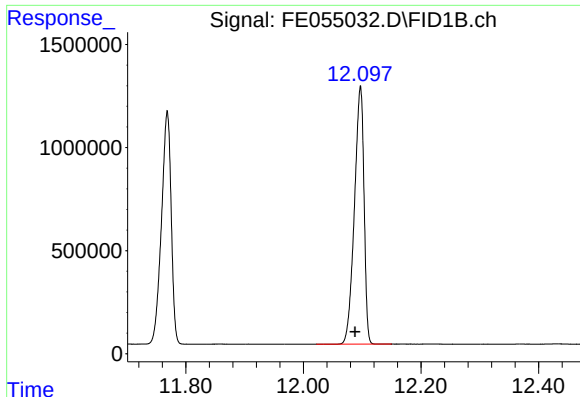
#7 n-Hexadecane (C16)

R.T.: 10.317 min
Delta R.T.: 0.006 min
Response: 12808623
Conc: 98.43 ug/ml



#8 n-Octadecane (C18)

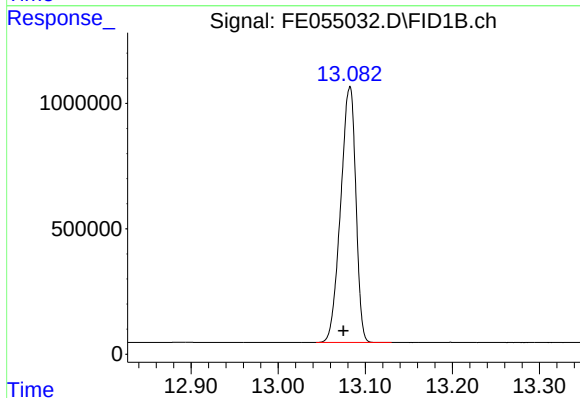
R.T.: 11.768 min
Delta R.T.: 0.008 min
Response: 12935722
Conc: 98.39 ug/ml



#9 ortho-Terphenyl (SURR)

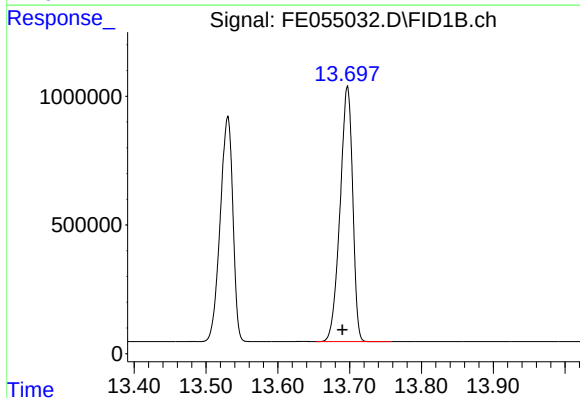
R.T.: 12.097 min
Delta R.T.: 0.009 min
Response: 14135752
Conc: 98.71 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



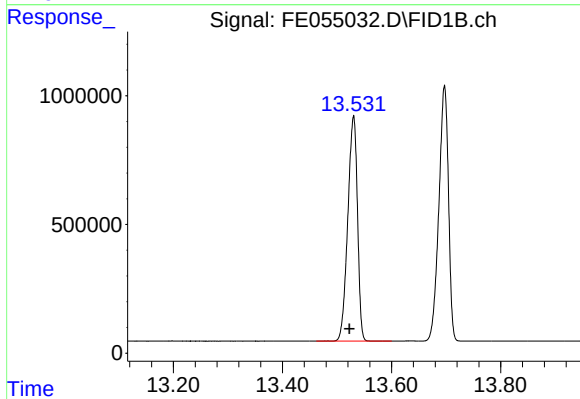
#10 n-Eicosane (C20)

R.T.: 13.082 min
Delta R.T.: 0.007 min
Response: 12366561
Conc: 98.48 ug/ml



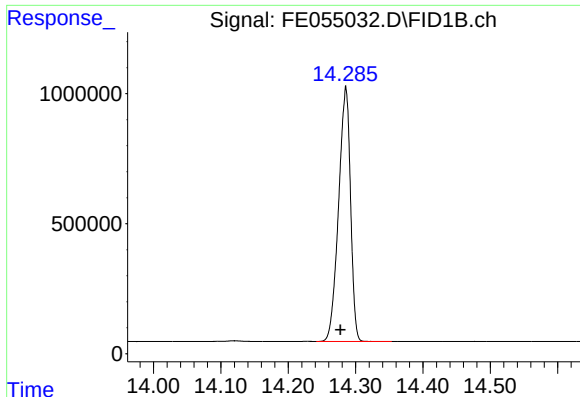
#11 n-Heneicosane (C21)

R.T.: 13.697 min
Delta R.T.: 0.007 min
Response: 12124868
Conc: 98.71 ug/ml



#12 1-chlorooctadecane (SURR)

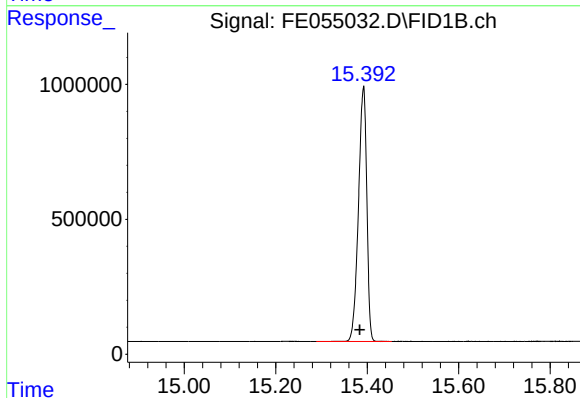
R.T.: 13.530 min
Delta R.T.: 0.007 min
Response: 10740467
Conc: 99.15 ug/ml



#13 n-Docosane (C22)

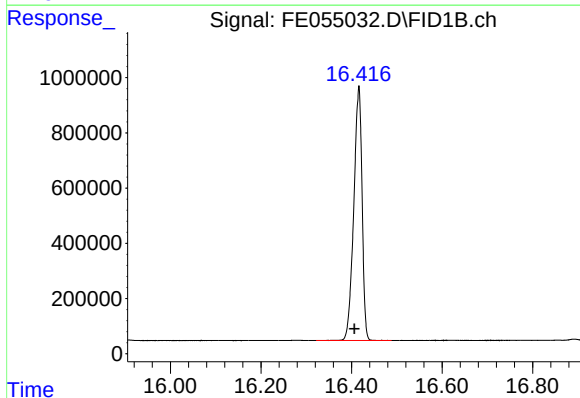
R.T.: 14.285 min
Delta R.T.: 0.008 min
Response: 12016103
Conc: 98.60 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



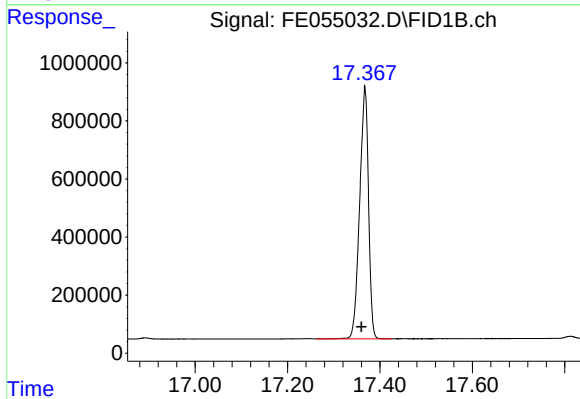
#14 n-Tetracosane (C24)

R.T.: 15.392 min
Delta R.T.: 0.008 min
Response: 11905699
Conc: 98.36 ug/ml



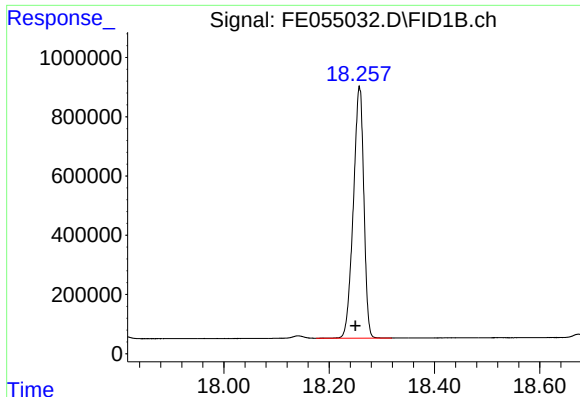
#15 n-Hexacosane (C26)

R.T.: 16.416 min
Delta R.T.: 0.009 min
Response: 11717679
Conc: 98.18 ug/ml



#16 n-Octacosane (C28)

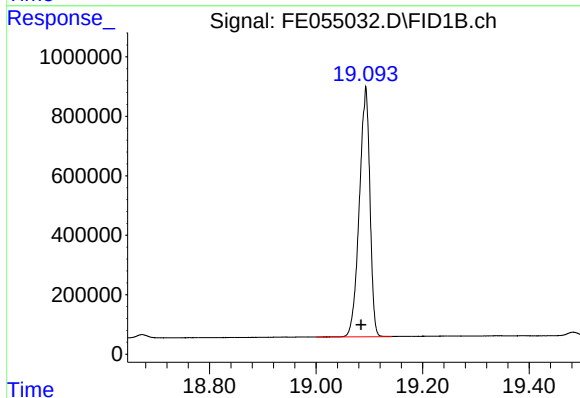
R.T.: 17.367 min
Delta R.T.: 0.007 min
Response: 11532867
Conc: 96.83 ug/ml



#17 n-Tricontane (C30)

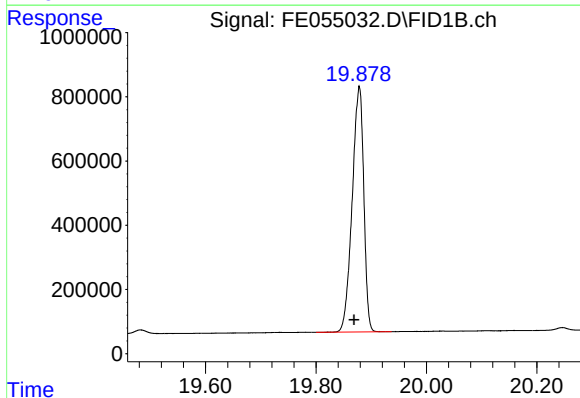
R.T.: 18.257 min
Delta R.T.: 0.008 min
Response: 11778084
Conc: 94.10 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



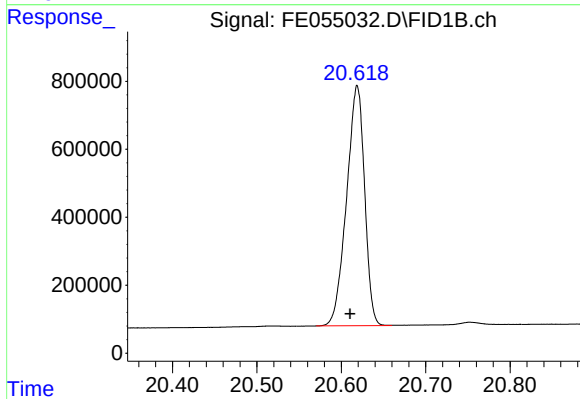
#18 n-Dotriacontane (C32)

R.T.: 19.093 min
Delta R.T.: 0.008 min
Response: 11564377
Conc: 92.64 ug/ml



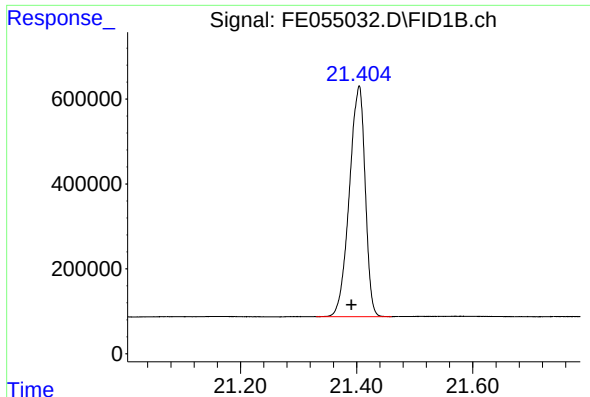
#19 n-Tetratriacontane (C34)

R.T.: 19.878 min
Delta R.T.: 0.009 min
Response: 11138630
Conc: 93.80 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.619 min
Delta R.T.: 0.008 min
Response: 10487790
Conc: 94.56 ug/ml



#21 n-Octatriacontane (C38)

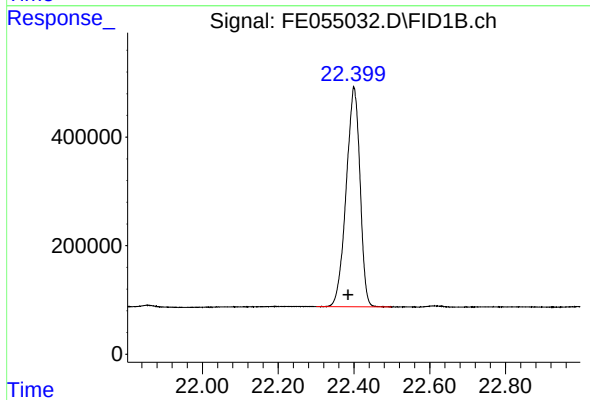
R.T.: 21.404 min
Delta R.T.: 0.013 min
Response: 10292102
Conc: 96.30 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.400 min
Delta R.T.: 0.016 min
Response: 10249080
Conc: 95.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055032.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 20:19
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.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	3.428	3.377	3.510	BB	1165402	11510228	81.43%	4.387%
2	4.687	4.634	4.769	BB	1188286	11769921	83.26%	4.486%
3	6.408	6.339	6.442	BV	1385145	13577276	96.05%	5.175%
4	6.864	6.799	6.939	BB	1209200	12103575	85.62%	4.614%
5	7.511	7.459	7.627	BV	1294302	13293703	94.04%	5.067%
6	8.702	8.635	8.810	BB	1165848	12295593	86.98%	4.687%
7	10.317	10.267	10.419	VB	1172032	12808623	90.61%	4.882%
8	11.768	11.715	11.830	VB	1131719	12935722	91.51%	4.931%
9	12.097	12.022	12.150	BB	1252473	14135752	100.00%	5.388%
10	13.082	13.044	13.130	BB	1017480	12366561	87.48%	4.714%
11	13.530	13.462	13.600	BB	875155	10740467	75.98%	4.094%
12	13.697	13.653	13.759	VB	991855	12124868	85.77%	4.622%
13	14.285	14.241	14.354	PB	981163	12016103	85.01%	4.580%
14	15.392	15.289	15.454	BB	942871	11905699	84.22%	4.538%
15	16.416	16.322	16.489	BB	908779	11717679	82.89%	4.467%
16	17.367	17.262	17.425	BV	870683	11532867	81.59%	4.396%
17	18.257	18.175	18.319	VV	851416	11778084	83.32%	4.490%
18	19.093	19.000	19.142	BV	846228	11564377	81.81%	4.408%
19	19.878	19.800	19.937	BV	767502	11138630	78.80%	4.246%
20	20.619	20.570	20.660	BV	708095	10487790	74.19%	3.998%
21	21.404	21.330	21.460	BV	543509	10292102	72.81%	3.923%
22	22.400	22.300	22.499	BBA	403532	10249080	72.50%	3.907%
Sum of corrected areas:						262344699		

Aliphatic EPH 072625.M Sat Jul 26 04:08:08 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055033.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 20:50
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Jul 26 03:48:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:46:03 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	6854540	47.867 ug/ml
Spiked Amount 50.000		Recovery =	95.73%
12) S 1-chlorooctadecane (S...	13.526	5195314	47.960 ug/ml
Spiked Amount 50.000		Recovery =	95.92%
Target Compounds			
1) T n-Nonane (C9)	3.425	5635286	48.166 ug/ml
2) T n-Decane (C10)	4.684	5756408	48.151 ug/ml
3) T A~Naphthalene (C11.7)	6.404	6583746	47.687 ug/ml
4) T n-Dodecane (C12)	6.861	5900804	48.122 ug/ml
5) T A~2-methylnaphthalene...	7.506	6468472	48.288 ug/ml
6) T n-Tetradecane (C14)	8.698	6011750	47.632 ug/ml
7) T n-Hexadecane (C16)	10.314	6232682	47.896 ug/ml
8) T n-Octadecane (C18)	11.764	6284959	47.804 ug/ml
10) T n-Eicosane (C20)	13.077	5994295	47.736 ug/ml
11) T n-Heneicosane (C21)	13.692	5875821	47.836 ug/ml
13) T n-Docosane (C22)	14.281	5824764	47.795 ug/ml
14) T n-Tetracosane (C24)	15.387	5778436	47.739 ug/ml
15) T n-Hexacosane (C26)	16.411	5693885	47.708 ug/ml
16) T n-Octacosane (C28)	17.363	5640986	47.361 ug/ml
17) T n-Tricontane (C30)	18.254	5834090	46.609 ug/ml
18) T n-Dotriacontane (C32)	19.087	5775137	46.266 ug/ml
19) T n-Tetratriacontane (C34)	19.873	5550281	46.738 ug/ml
20) T n-Hexatriacontane (C36)	20.614	5166598	46.581 ug/ml
21) T n-Octatriacontane (C38)	21.397	5024926	47.017 ug/ml
22) T n-Tetracontane (C40)	22.391	5020269	46.808 ug/ml

(f)=RT Delta > 1/2 Window

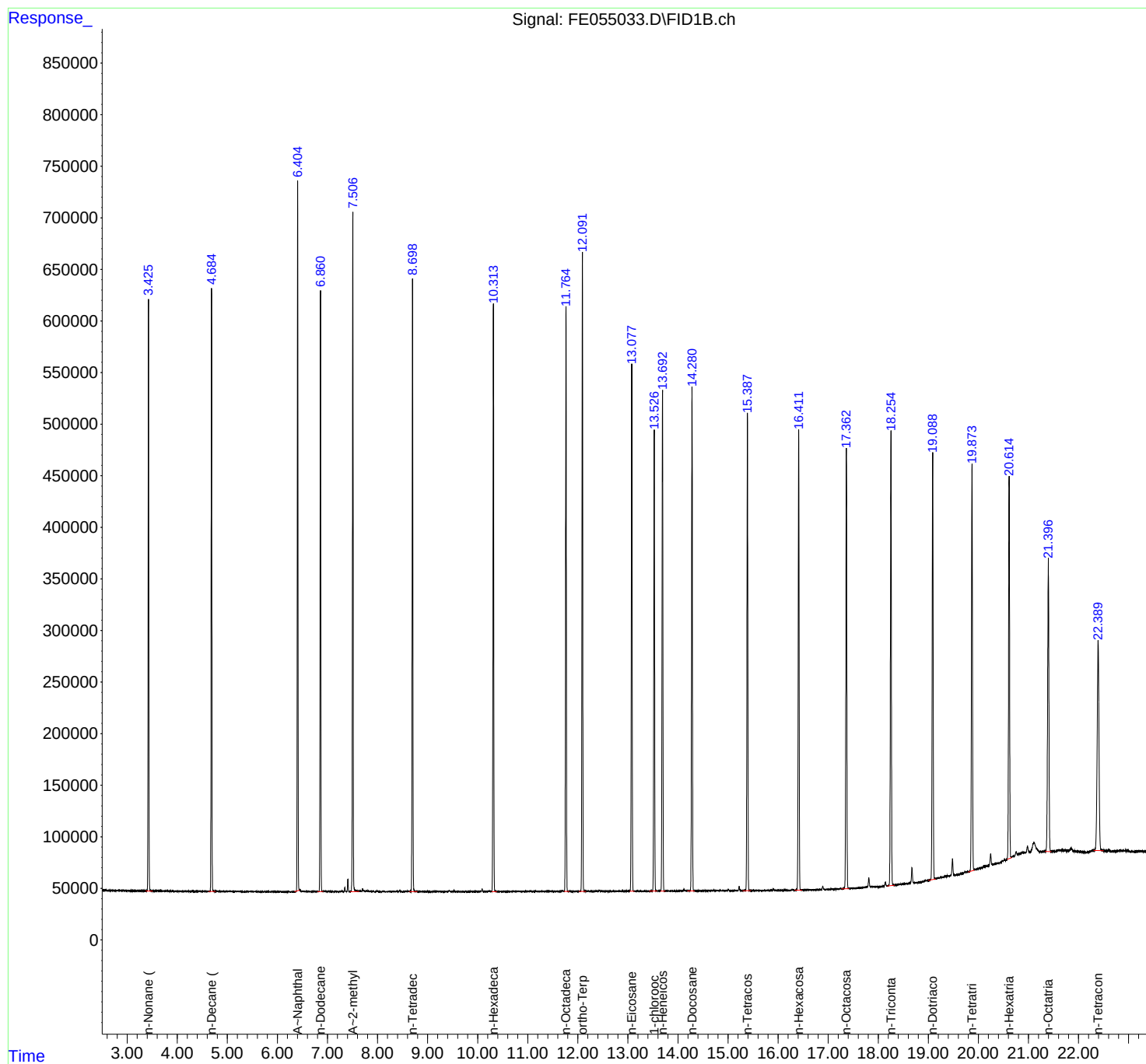
(m)=manual int.

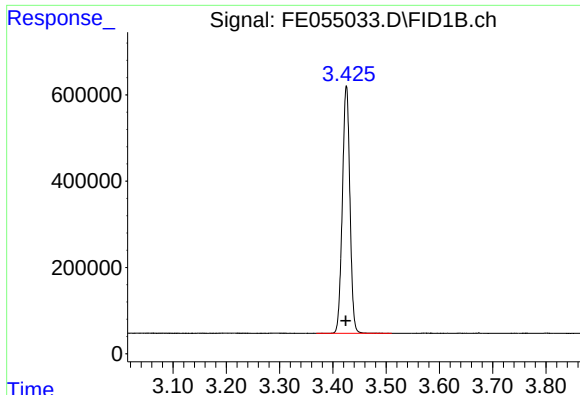
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
Data File : FE055033.D
Signal(s) : FID1B.ch
Acq On : 25 Jul 2025 20:50
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jul 26 03:48:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:46:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

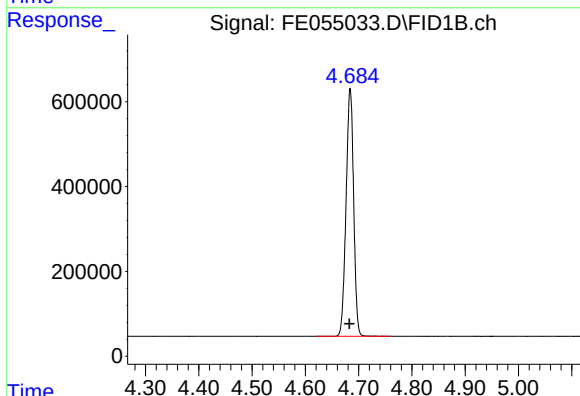




#1 n-Nonane (C9)

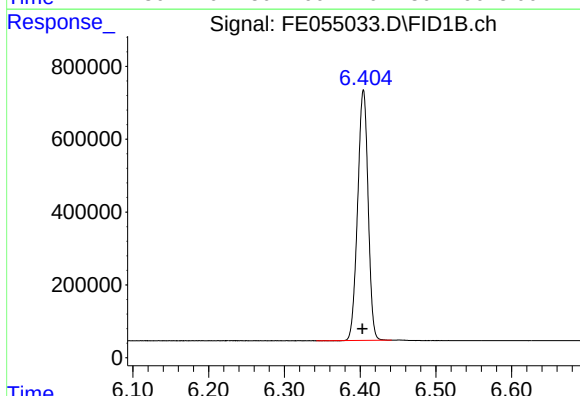
R.T.: 3.425 min
Delta R.T.: 0.001 min
Response: 5635286
Conc: 48.17 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



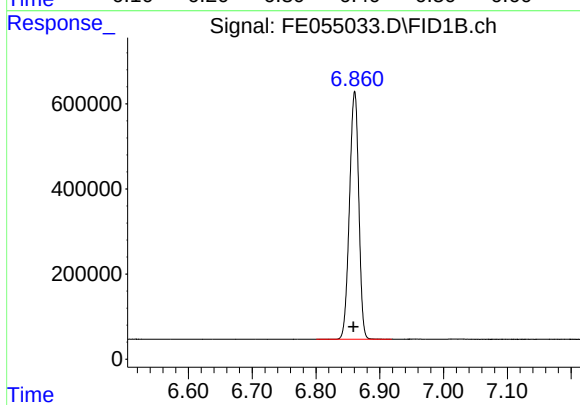
#2 n-Decane (C10)

R.T.: 4.684 min
Delta R.T.: 0.001 min
Response: 5756408
Conc: 48.15 ug/ml



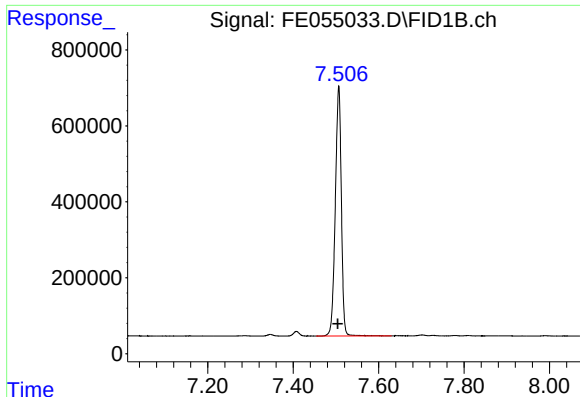
#3 A~Naphthalene (C11.7)

R.T.: 6.404 min
Delta R.T.: 0.001 min
Response: 6583746
Conc: 47.69 ug/ml



#4 n-Dodecane (C12)

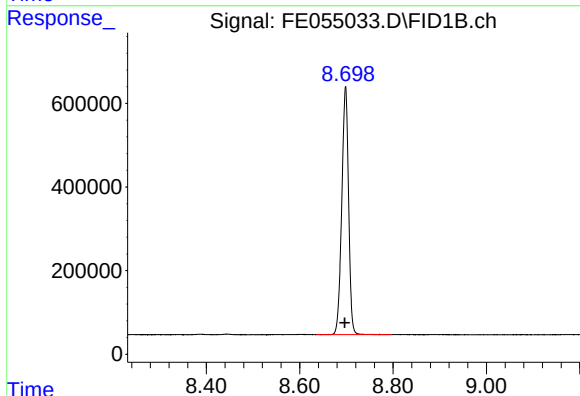
R.T.: 6.861 min
Delta R.T.: 0.002 min
Response: 5900804
Conc: 48.12 ug/ml



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

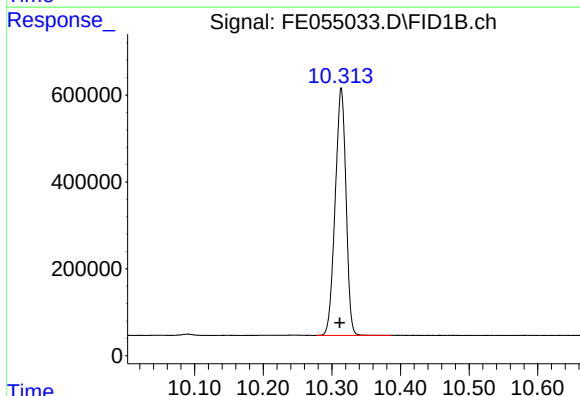
R.T.: 7.506 min
Delta R.T.: 0.002 min
Response: 6468472
Conc: 48.29 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



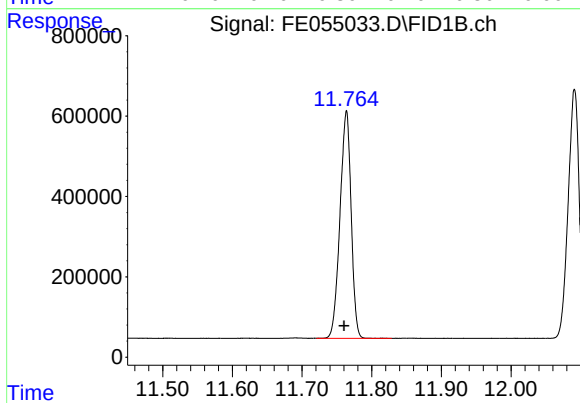
#6 n-Tetradecane (C14)

R.T.: 8.698 min
Delta R.T.: 0.002 min
Response: 6011750
Conc: 47.63 ug/ml



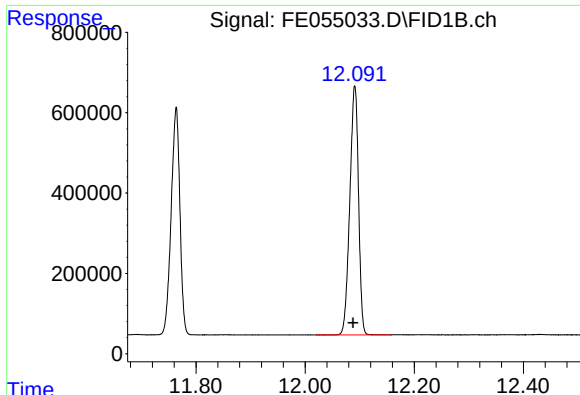
#7 n-Hexadecane (C16)

R.T.: 10.314 min
Delta R.T.: 0.002 min
Response: 6232682
Conc: 47.90 ug/ml



#8 n-Octadecane (C18)

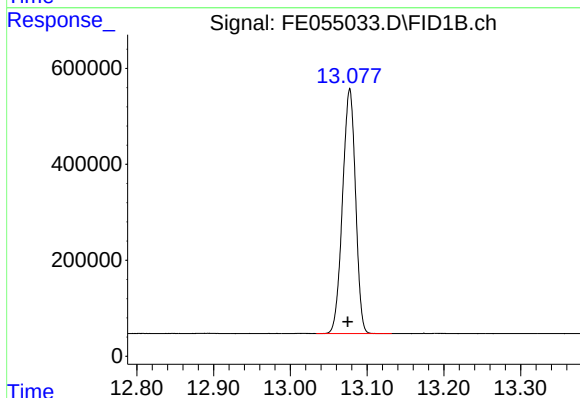
R.T.: 11.764 min
Delta R.T.: 0.003 min
Response: 6284959
Conc: 47.80 ug/ml



#9 ortho-Terphenyl (SURR)

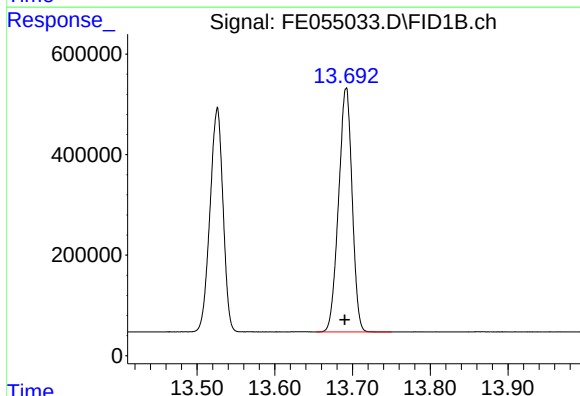
R.T.: 12.091 min
Delta R.T.: 0.003 min
Response: 6854540
Conc: 47.87 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



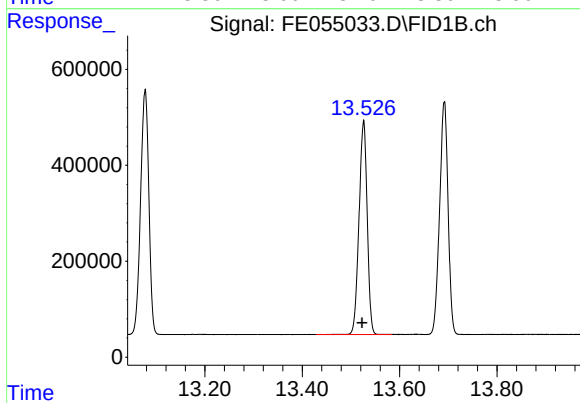
#10 n-Eicosane (C20)

R.T.: 13.077 min
Delta R.T.: 0.002 min
Response: 5994295
Conc: 47.74 ug/ml



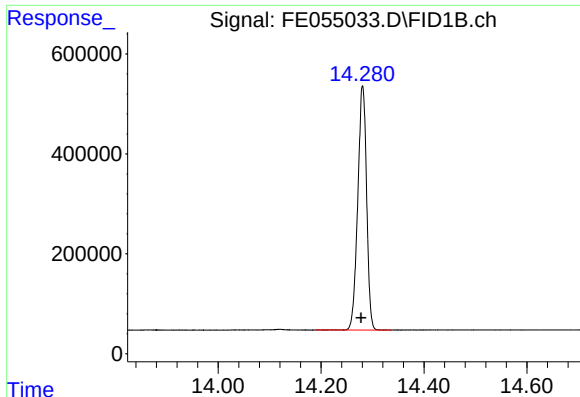
#11 n-Heneicosane (C21)

R.T.: 13.692 min
Delta R.T.: 0.002 min
Response: 5875821
Conc: 47.84 ug/ml



#12 1-chlorooctadecane (SURR)

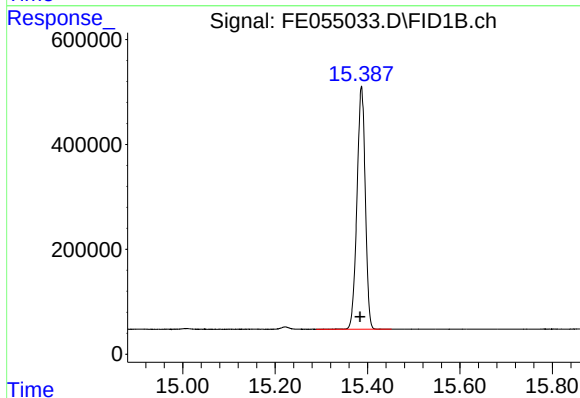
R.T.: 13.526 min
Delta R.T.: 0.003 min
Response: 5195314
Conc: 47.96 ug/ml



#13 n-Docosane (C22)

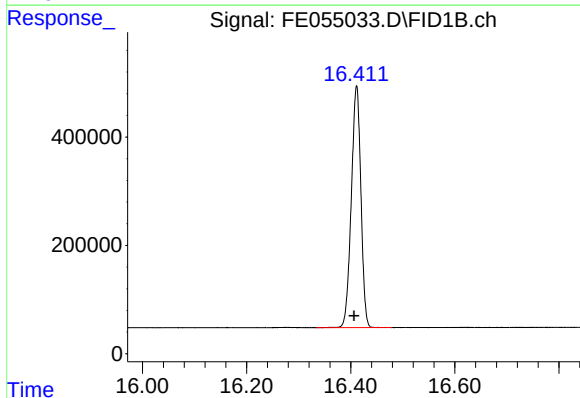
R.T.: 14.281 min
Delta R.T.: 0.003 min
Response: 5824764
Conc: 47.79 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



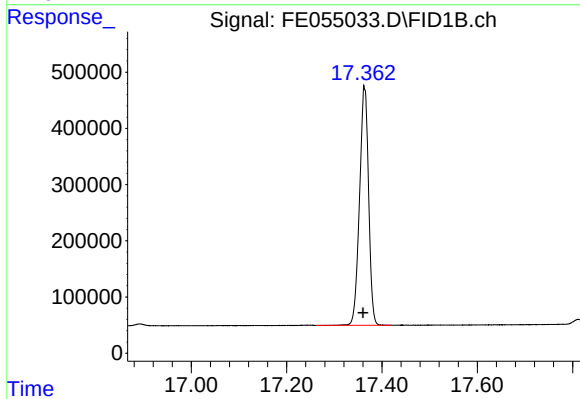
#14 n-Tetracosane (C24)

R.T.: 15.387 min
Delta R.T.: 0.003 min
Response: 5778436
Conc: 47.74 ug/ml



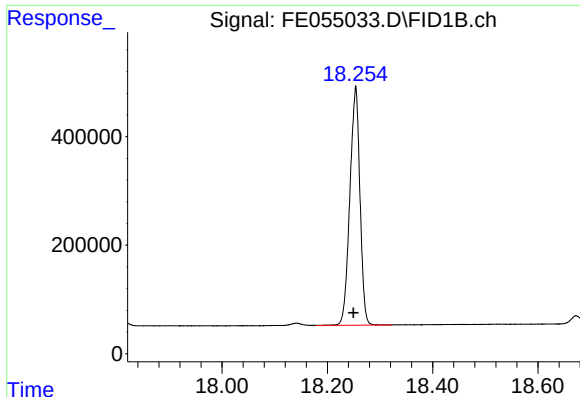
#15 n-Hexacosane (C26)

R.T.: 16.411 min
Delta R.T.: 0.004 min
Response: 5693885
Conc: 47.71 ug/ml



#16 n-Octacosane (C28)

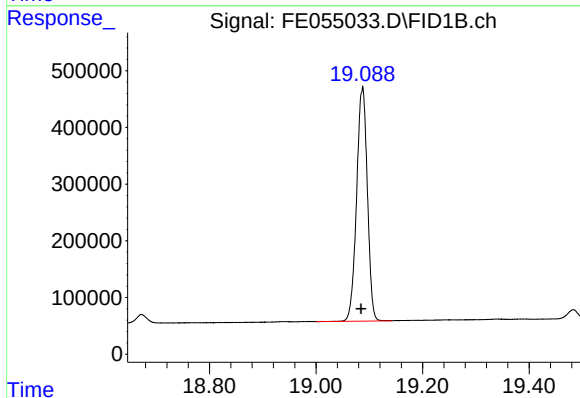
R.T.: 17.363 min
Delta R.T.: 0.003 min
Response: 5640986
Conc: 47.36 ug/ml



#17 n-Tricontane (C30)

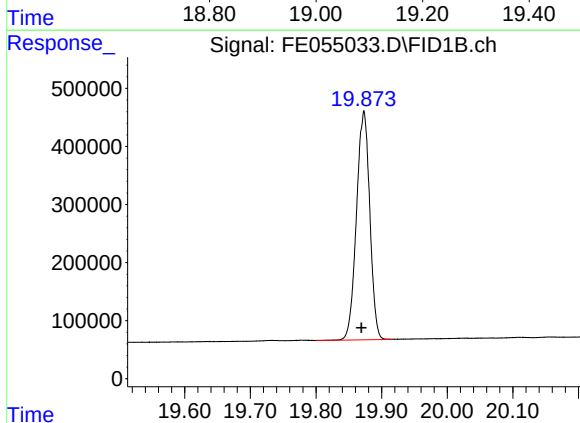
R.T.: 18.254 min
Delta R.T.: 0.004 min
Response: 5834090
Conc: 46.61 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



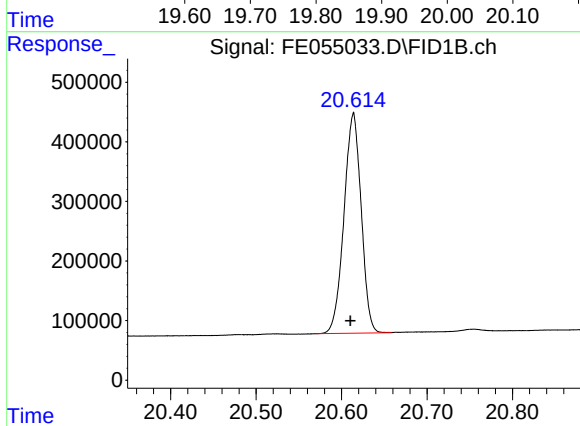
#18 n-Dotriacontane (C32)

R.T.: 19.087 min
Delta R.T.: 0.002 min
Response: 5775137
Conc: 46.27 ug/ml



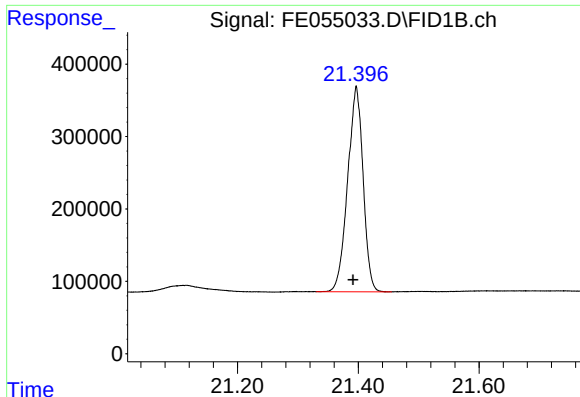
#19 n-Tetratriacontane (C34)

R.T.: 19.873 min
Delta R.T.: 0.004 min
Response: 5550281
Conc: 46.74 ug/ml



#20 n-Hexatriacontane (C36)

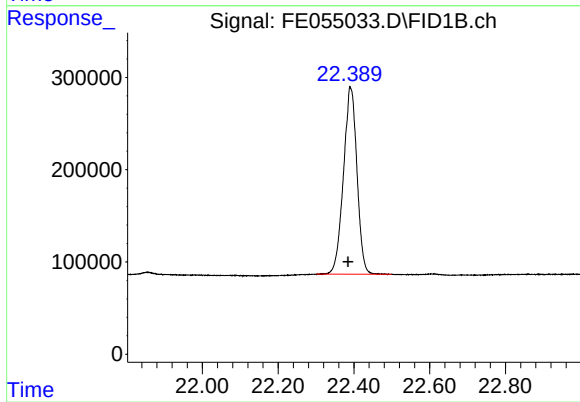
R.T.: 20.614 min
Delta R.T.: 0.003 min
Response: 5166598
Conc: 46.58 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.397 min
Delta R.T.: 0.006 min
Response: 5024926
Conc: 47.02 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.391 min
Delta R.T.: 0.007 min
Response: 5020269
Conc: 46.81 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055033.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 20:50
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.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	3.369	3.510	BB	574060	5635286	82.21%	4.399%
2	4.684	4.620	4.762	BB	585026	5756408	83.98%	4.494%
3	6.404	6.342	6.442	BV	687300	6583746	96.05%	5.139%
4	6.861	6.800	6.919	BB	582805	5900804	86.09%	4.606%
5	7.506	7.454	7.630	BV	662283	6468472	94.37%	5.049%
6	8.698	8.635	8.797	BB	597222	6011750	87.70%	4.693%
7	10.314	10.277	10.387	PB	570115	6232682	90.93%	4.865%
8	11.764	11.720	11.829	BB	567314	6284959	91.69%	4.906%
9	12.091	12.020	12.159	BB	621534	6854540	100.00%	5.351%
10	13.077	13.034	13.132	BB	509523	5994295	87.45%	4.679%
11	13.526	13.429	13.584	BB	443420	5195314	75.79%	4.056%
12	13.692	13.653	13.750	PB	485553	5875821	85.72%	4.587%
13	14.281	14.190	14.337	BB	488349	5824764	84.98%	4.547%
14	15.387	15.289	15.452	BB	462609	5778436	84.30%	4.511%
15	16.411	16.334	16.479	BB	447920	5693885	83.07%	4.445%
16	17.363	17.262	17.420	BV	419593	5640986	82.30%	4.403%
17	18.254	18.179	18.322	PV	441267	5834090	85.11%	4.554%
18	19.087	19.000	19.142	BV	409735	5775137	84.25%	4.508%
19	19.873	19.800	19.915	BV	391857	5550281	80.97%	4.333%
20	20.614	20.570	20.659	BV	369300	5166598	75.37%	4.033%
21	21.397	21.330	21.455	BV	283912	5024926	73.31%	3.923%
22	22.391	22.300	22.500	BBA	201237	5020269	73.24%	3.919%
Sum of corrected areas:						128103449		

Aliphatic EPH 072625.M Sat Jul 26 04:08:58 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055034.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 21:20
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Jul 26 03:48:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:46:03 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	2863968	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.523	2166525	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.424	2339965	20.000 ug/ml
2) T n-Decane (C10)	4.683	2390959	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.403	2761254	20.000 ug/ml
4) T n-Dodecane (C12)	6.859	2452438	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.504	2679134	20.000 ug/ml
6) T n-Tetradecane (C14)	8.696	2524252	20.000 ug/ml
7) T n-Hexadecane (C16)	10.311	2602600	20.000 ug/ml
8) T n-Octadecane (C18)	11.760	2629484	20.000 ug/ml
10) T n-Eicosane (C20)	13.075	2511442	20.000 ug/ml
11) T n-Heneicosane (C21)	13.690	2456669	20.000 ug/ml
13) T n-Docosane (C22)	14.277	2437397	20.000 ug/ml
14) T n-Tetracosane (C24)	15.384	2420835	20.000 ug/ml
15) T n-Hexacosane (C26)	16.407	2386968	20.000 ug/ml
16) T n-Octacosane (C28)	17.360	2382125	20.000 ug/ml
17) T n-Tricontane (C30)	18.250	2503404	20.000 ug/ml
18) T n-Dotriacontane (C32)	19.085	2496498	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.869	2375040	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.610	2218341	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.391	2137504	20.000 ug/ml
22) T n-Tetracontane (C40)	22.384	2145029	20.000 ug/ml

(f)=RT Delta > 1/2 Window

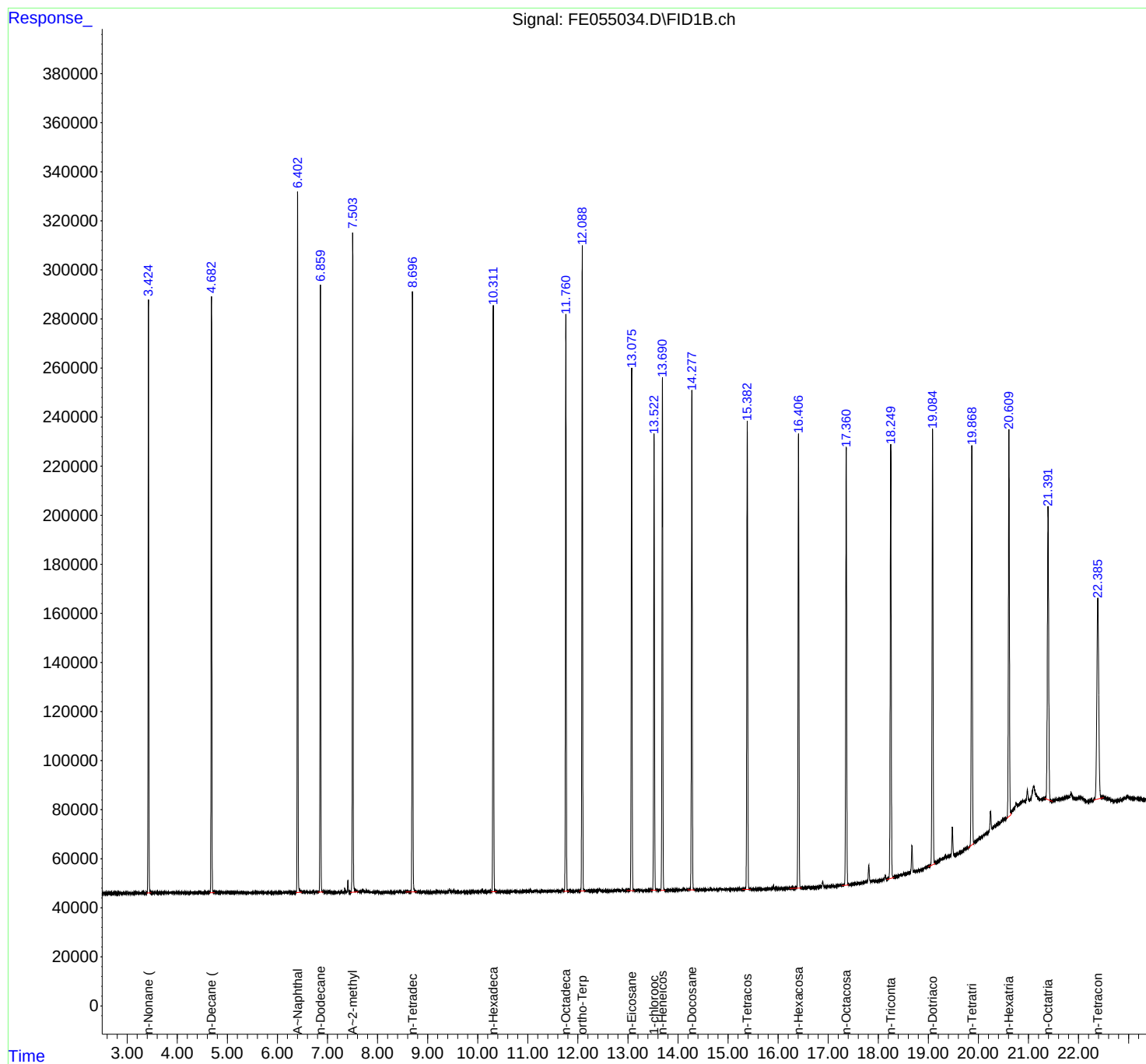
(m)=manual int.

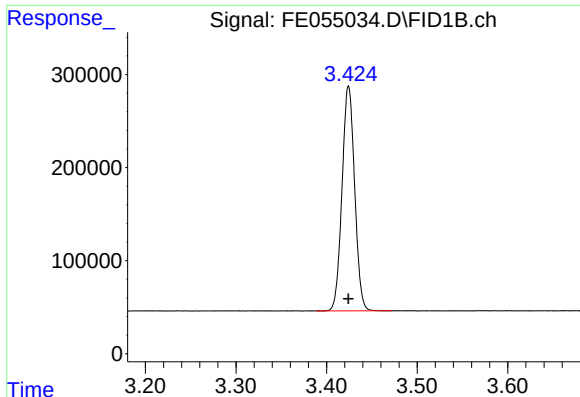
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
Data File : FE055034.D
Signal(s) : FID1B.ch
Acq On : 25 Jul 2025 21:20
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jul 26 03:48:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
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Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

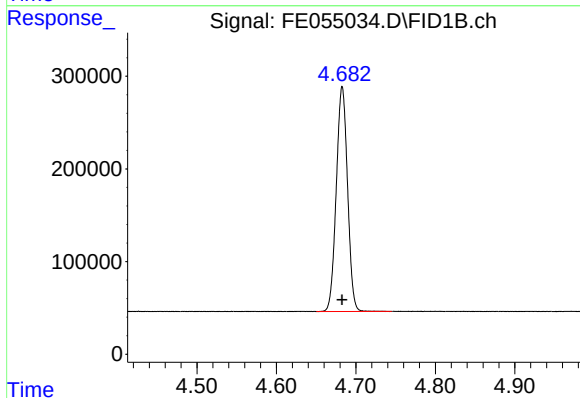




#1 n-Nonane (C9)

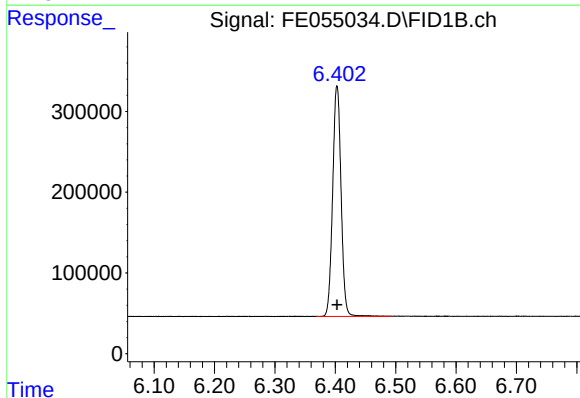
R.T.: 3.424 min
Delta R.T.: 0.000 min
Response: 2339965
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



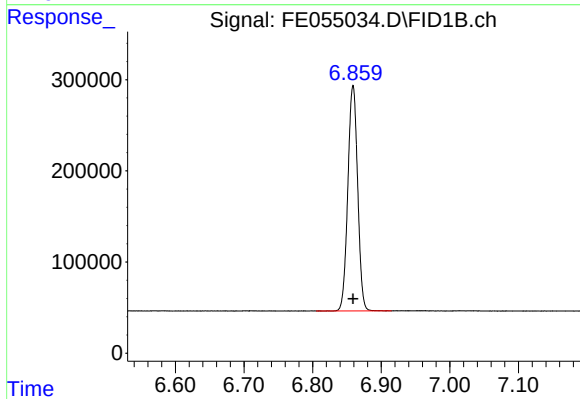
#2 n-Decane (C10)

R.T.: 4.683 min
Delta R.T.: 0.000 min
Response: 2390959
Conc: 20.00 ug/ml



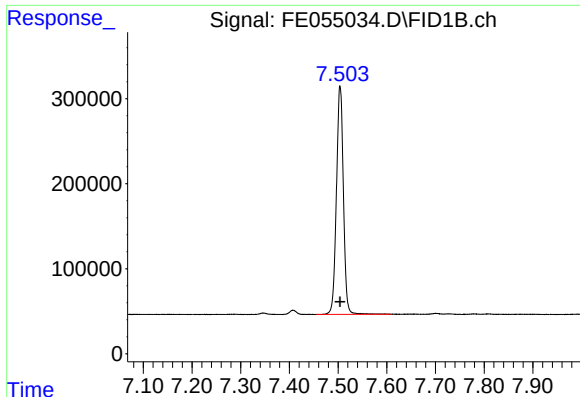
#3 A~Naphthalene (C11.7)

R.T.: 6.403 min
Delta R.T.: 0.000 min
Response: 2761254
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

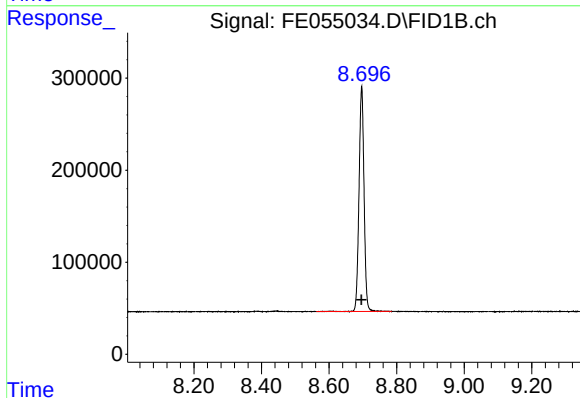
R.T.: 6.859 min
Delta R.T.: 0.000 min
Response: 2452438
Conc: 20.00 ug/ml



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

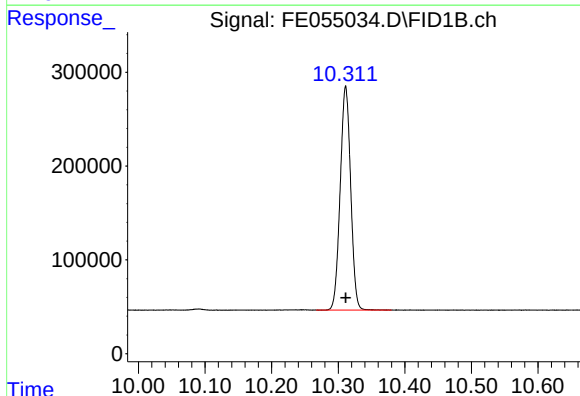
R.T.: 7.504 min
Delta R.T.: 0.000 min
Response: 2679134
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



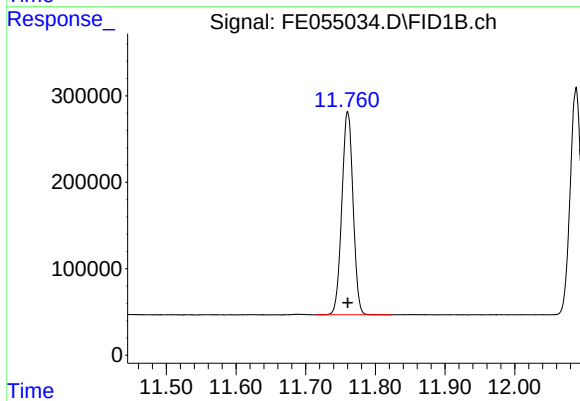
#6 n-Tetradecane (C14)

R.T.: 8.696 min
Delta R.T.: 0.000 min
Response: 2524252
Conc: 20.00 ug/ml



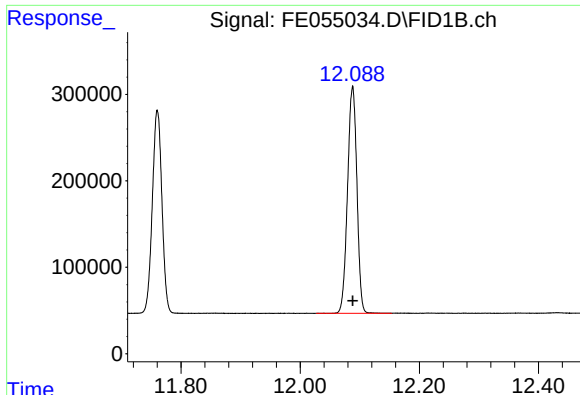
#7 n-Hexadecane (C16)

R.T.: 10.311 min
Delta R.T.: 0.000 min
Response: 2602600
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

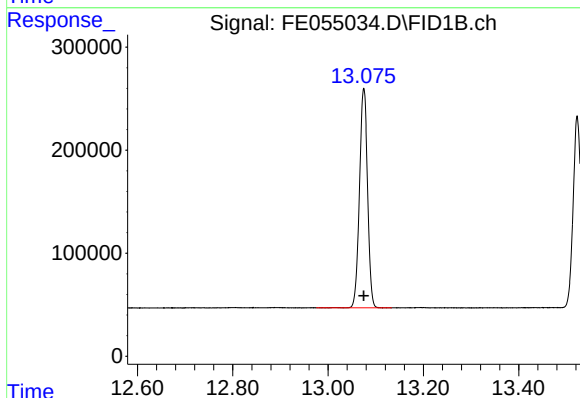
R.T.: 11.760 min
Delta R.T.: 0.000 min
Response: 2629484
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

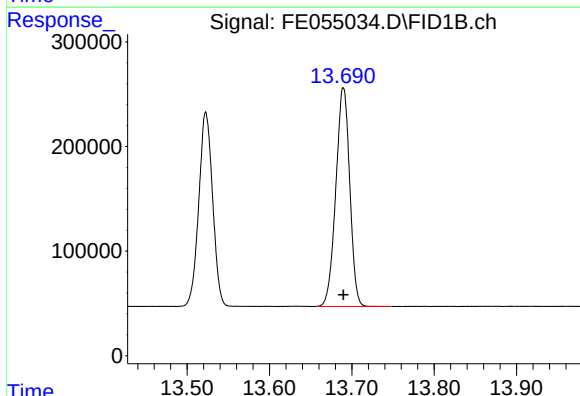
R.T.: 12.088 min
Delta R.T.: 0.000 min
Response: 2863968
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



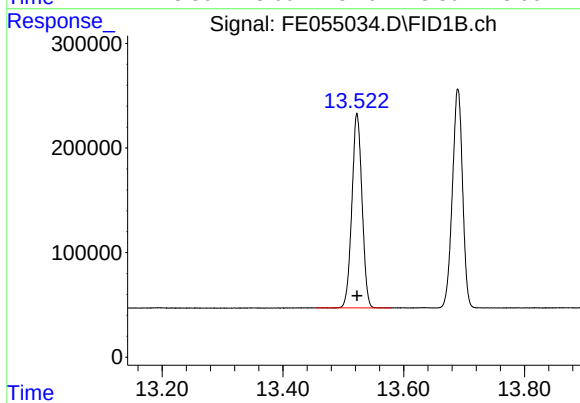
#10 n-Eicosane (C20)

R.T.: 13.075 min
Delta R.T.: 0.000 min
Response: 2511442
Conc: 20.00 ug/ml



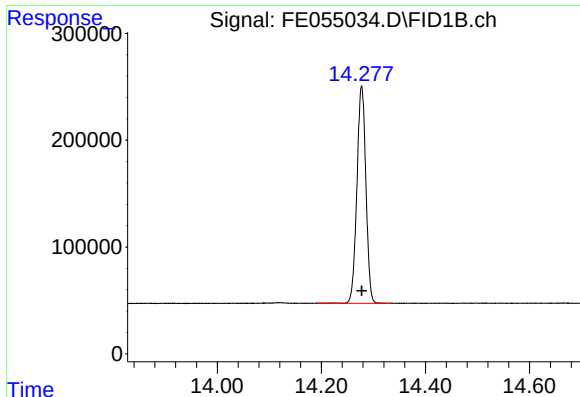
#11 n-Heneicosane (C21)

R.T.: 13.690 min
Delta R.T.: 0.000 min
Response: 2456669
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

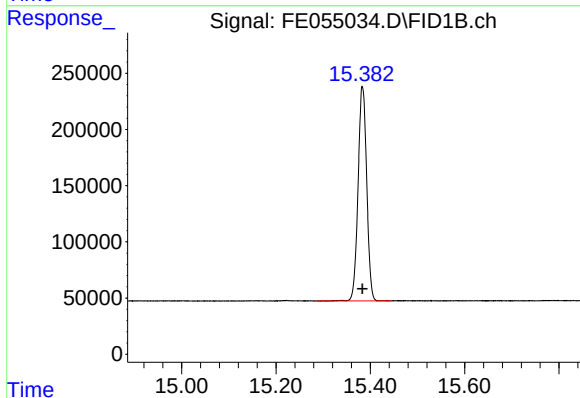
R.T.: 13.523 min
Delta R.T.: 0.000 min
Response: 2166525
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

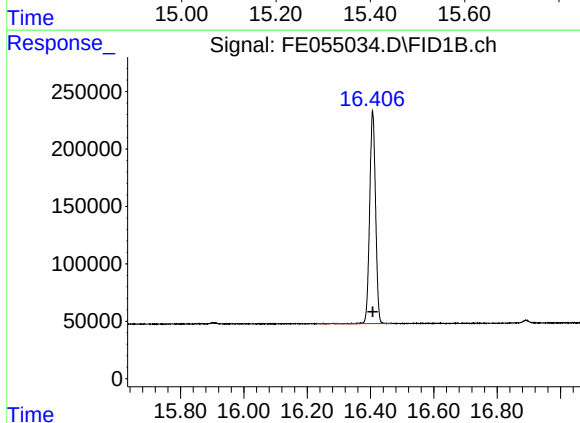
R.T.: 14.277 min
Delta R.T.: 0.000 min
Response: 2437397
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



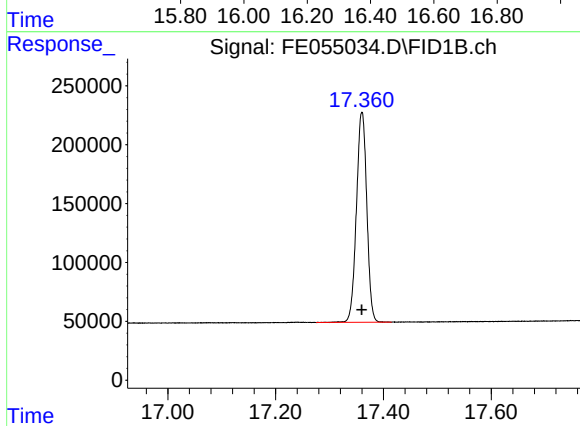
#14 n-Tetracosane (C24)

R.T.: 15.384 min
Delta R.T.: 0.000 min
Response: 2420835
Conc: 20.00 ug/ml



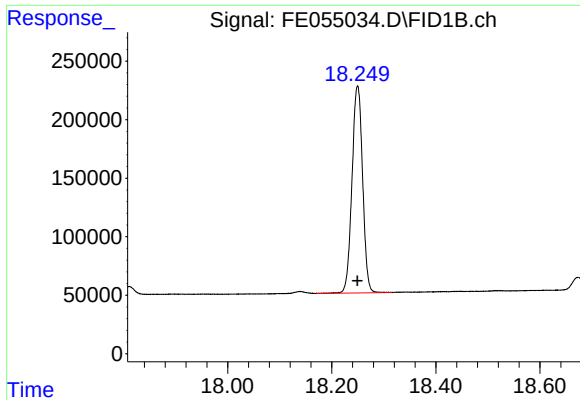
#15 n-Hexacosane (C26)

R.T.: 16.407 min
Delta R.T.: 0.000 min
Response: 2386968
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

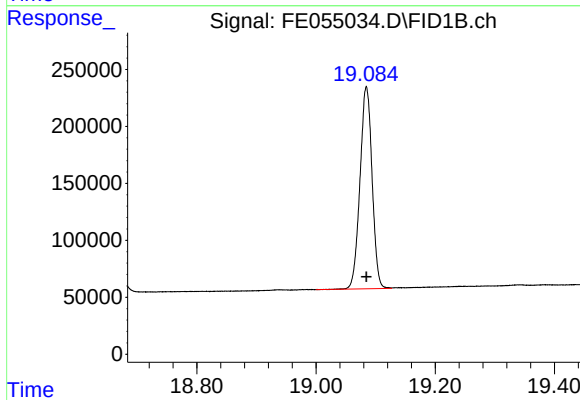
R.T.: 17.360 min
Delta R.T.: 0.000 min
Response: 2382125
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

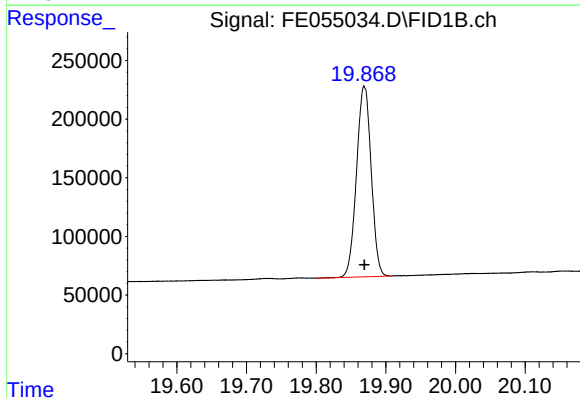
R.T.: 18.250 min
Delta R.T.: 0.000 min
Response: 2503404
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



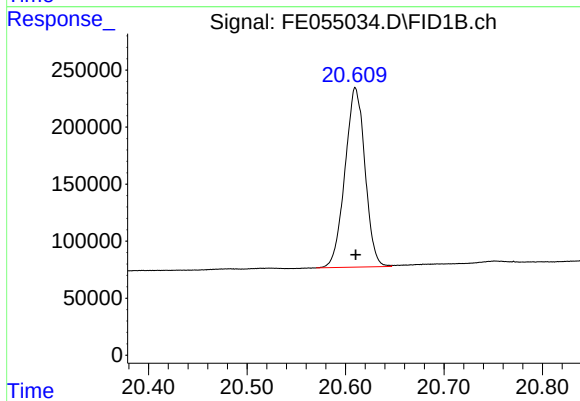
#18 n-Dotriacontane (C32)

R.T.: 19.085 min
Delta R.T.: 0.000 min
Response: 2496498
Conc: 20.00 ug/ml



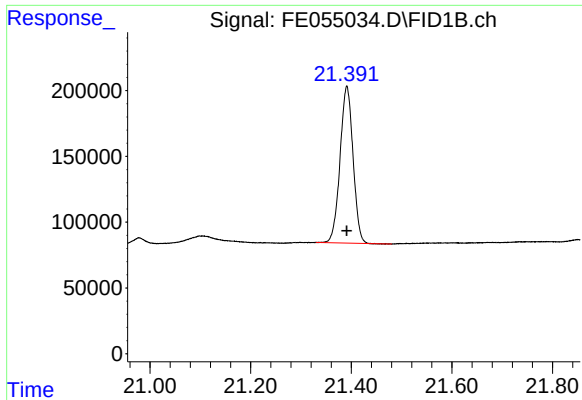
#19 n-Tetratriacontane (C34)

R.T.: 19.869 min
Delta R.T.: 0.000 min
Response: 2375040
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

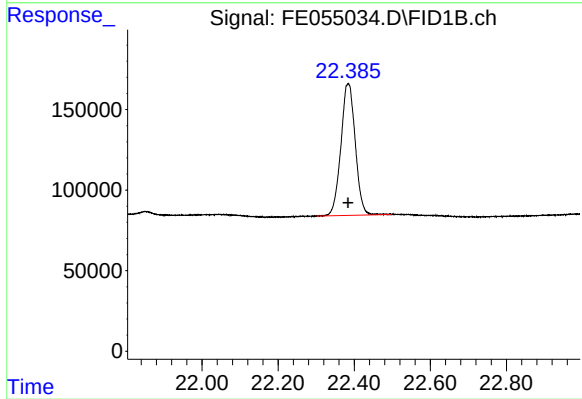
R.T.: 20.610 min
Delta R.T.: 0.000 min
Response: 2218341
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.391 min
Delta R.T.: 0.000 min
Response: 2137504
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.384 min
Delta R.T.: 0.000 min
Response: 2145029
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055034.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 21:20
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.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	3.388	3.472	BB	241392	2339965	81.70%	4.343%
2	4.683	4.650	4.745	BB	242825	2390959	83.48%	4.437%
3	6.403	6.368	6.493	BB	285679	2761254	96.41%	5.125%
4	6.859	6.805	6.915	BB	246878	2452438	85.63%	4.552%
5	7.504	7.455	7.610	BB	269728	2679134	93.55%	4.972%
6	8.696	8.562	8.785	BB	245034	2524252	88.14%	4.685%
7	10.311	10.267	10.380	BB	238590	2602600	90.87%	4.830%
8	11.760	11.715	11.823	BB	234947	2629484	91.81%	4.880%
9	12.088	12.027	12.153	BB	263521	2863968	100.00%	5.315%
10	13.075	12.975	13.133	BB	213224	2511442	87.69%	4.661%
11	13.523	13.455	13.580	BB	185004	2166525	75.65%	4.021%
12	13.690	13.657	13.748	BB	209031	2456669	85.78%	4.559%
13	14.277	14.190	14.335	BB	203438	2437397	85.11%	4.524%
14	15.384	15.285	15.445	BB	190154	2420835	84.53%	4.493%
15	16.407	16.228	16.467	BB	184581	2386968	83.34%	4.430%
16	17.360	17.275	17.415	BB	178368	2382125	83.18%	4.421%
17	18.250	18.170	18.315	PV	177142	2503404	87.41%	4.646%
18	19.085	19.000	19.127	BV	177407	2496498	87.17%	4.633%
19	19.869	19.800	19.908	BV	162476	2375040	82.93%	4.408%
20	20.610	20.570	20.647	BV	157097	2218341	77.46%	4.117%
21	21.391	21.330	21.480	BV	119648	2137504	74.63%	3.967%
22	22.384	22.300	22.498	BB	81635	2145029	74.90%	3.981%
Sum of corrected areas:							53881831	

Aliphatic EPH 072625.M Sat Jul 26 04:09:35 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055035.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 21:50
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Jul 26 03:49:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:46:03 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.087	1552269	10.840 ug/ml
Spiked Amount 50.000		Recovery =	21.68%
12) S 1-chlorooctadecane (S...	13.523	1174594	10.843 ug/ml
Spiked Amount 50.000		Recovery =	21.69%
Target Compounds			
1) T n-Nonane (C9)	3.424	1271562	10.868 ug/ml
2) T n-Decane (C10)	4.683	1293740	10.822 ug/ml
3) T A~Naphthalene (C11.7)	6.403	1493091	10.815 ug/ml
4) T n-Dodecane (C12)	6.859	1327875	10.829 ug/ml
5) T A~2-methylnaphthalene...	7.504	1437457	10.731 ug/ml
6) T n-Tetradecane (C14)	8.696	1382541	10.954 ug/ml
7) T n-Hexadecane (C16)	10.311	1417845	10.896 ug/ml
8) T n-Octadecane (C18)	11.760	1430704	10.882 ug/ml
10) T n-Eicosane (C20)	13.075	1363620	10.859 ug/ml
11) T n-Heneicosane (C21)	13.689	1337951	10.892 ug/ml
13) T n-Docosane (C22)	14.277	1330009	10.913 ug/ml
14) T n-Tetracosane (C24)	15.384	1318361	10.892 ug/ml
15) T n-Hexacosane (C26)	16.407	1296444	10.863 ug/ml
16) T n-Octacosane (C28)	17.361	1303983	10.948 ug/ml
17) T n-Tricontane (C30)	18.250	1384259	11.059 ug/ml
18) T n-Dotriacontane (C32)	19.084	1384490	11.091 ug/ml
19) T n-Tetratriacontane (C34)	19.870	1308689	11.020 ug/ml
20) T n-Hexatriacontane (C36)	20.612	1211437	10.922 ug/ml
21) T n-Octatriacontane (C38)	21.392	1201420	11.241 ug/ml
22) T n-Tetracontane (C40)	22.387	1168579	10.896 ug/ml

(f)=RT Delta > 1/2 Window

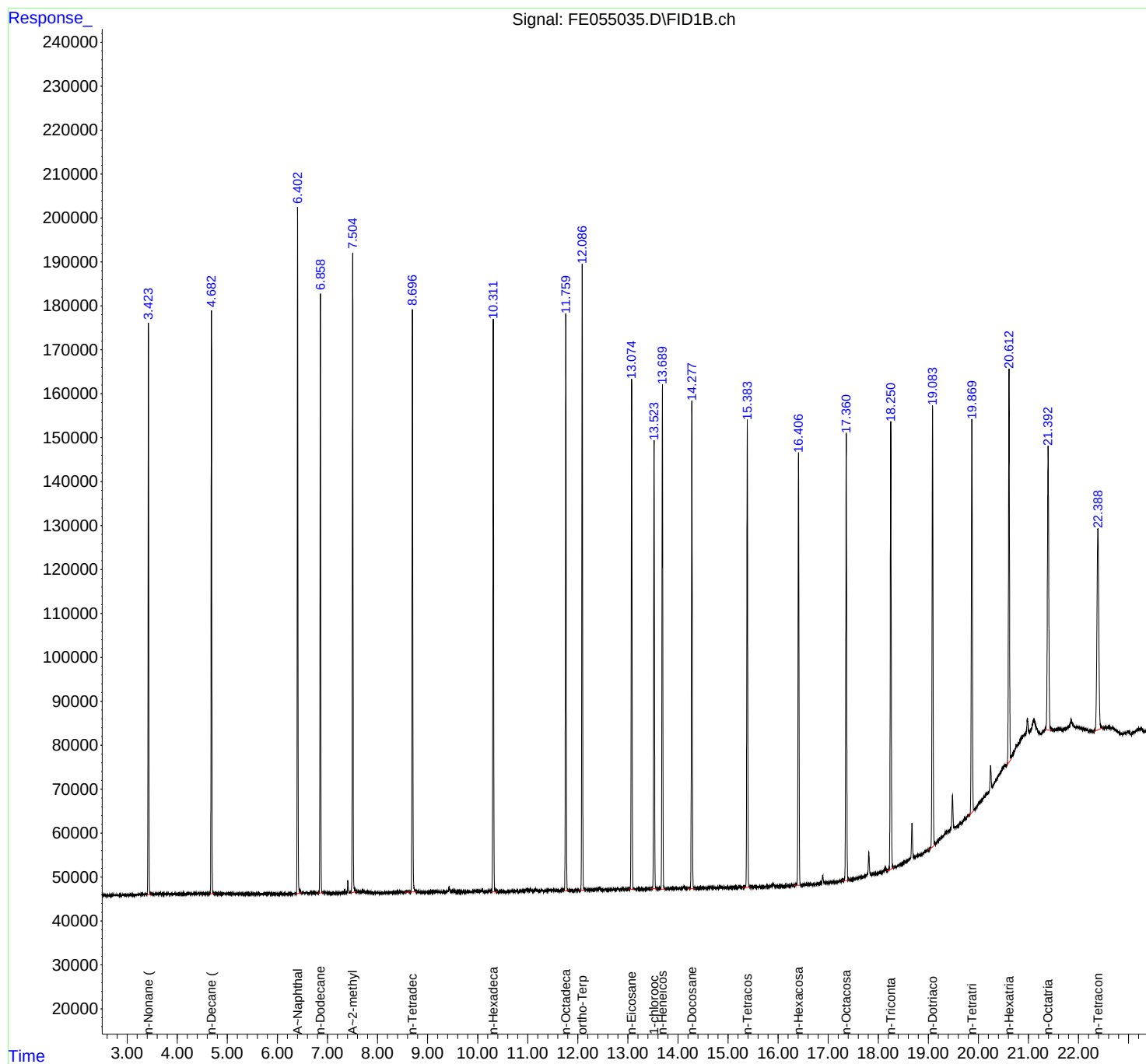
(m)=manual int.

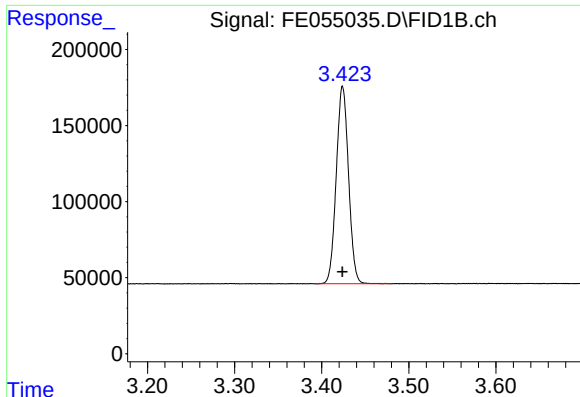
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
Data File : FE055035.D
Signal(s) : FID1B.ch
Acq On : 25 Jul 2025 21:50
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jul 26 03:49:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:46:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

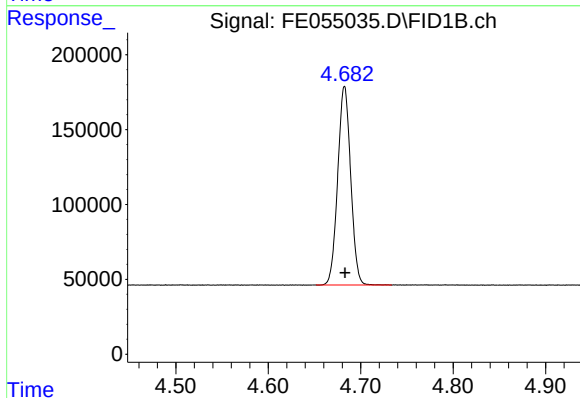




#1 n-Nonane (C9)

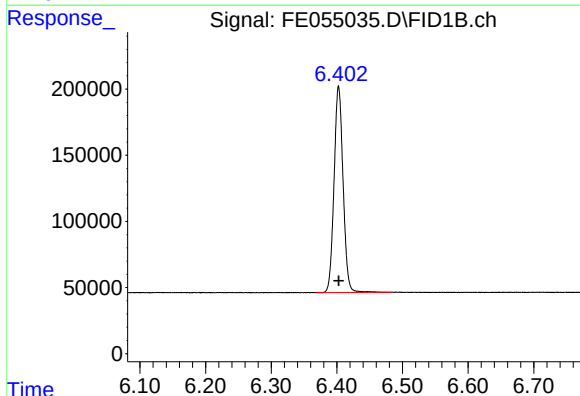
R.T.: 3.424 min
Delta R.T.: 0.000 min
Response: 1271562
Conc: 10.87 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



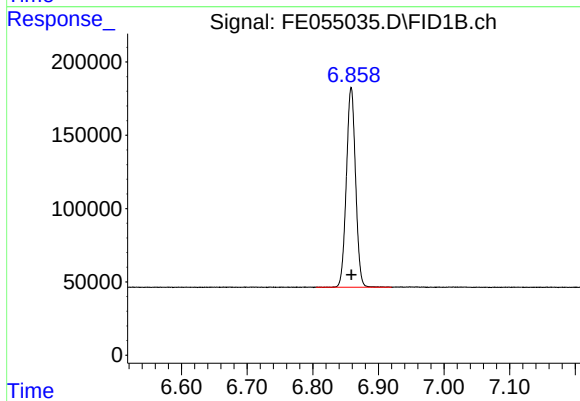
#2 n-Decane (C10)

R.T.: 4.683 min
Delta R.T.: 0.000 min
Response: 1293740
Conc: 10.82 ug/ml



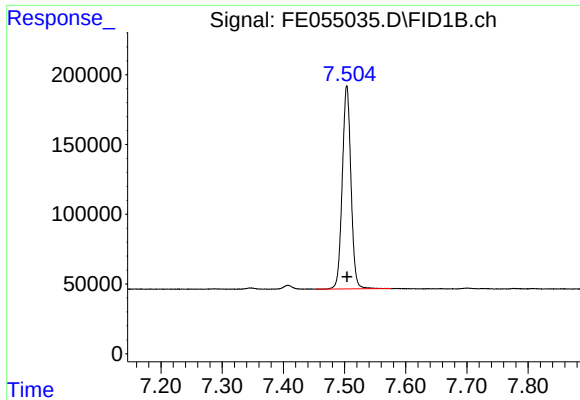
#3 A~Naphthalene (C11.7)

R.T.: 6.403 min
Delta R.T.: 0.000 min
Response: 1493091
Conc: 10.81 ug/ml



#4 n-Dodecane (C12)

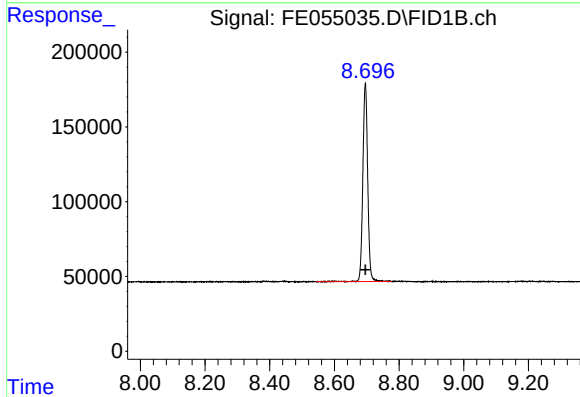
R.T.: 6.859 min
Delta R.T.: 0.000 min
Response: 1327875
Conc: 10.83 ug/ml



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

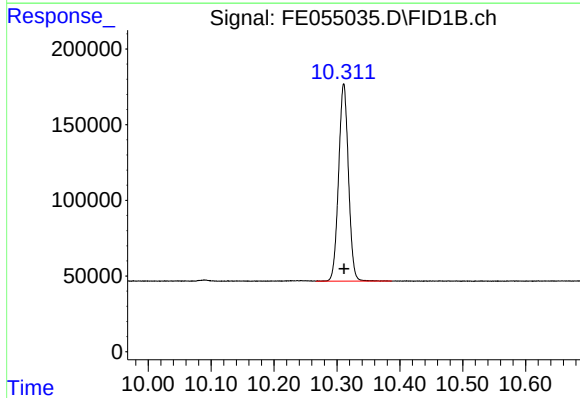
R.T.: 7.504 min
Delta R.T.: 0.000 min
Response: 1437457
Conc: 10.73 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



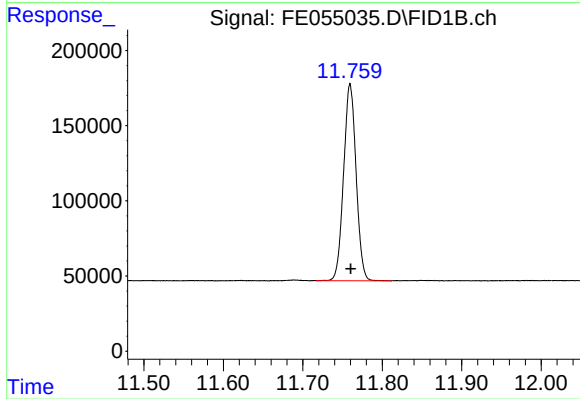
#6 n-Tetradecane (C14)

R.T.: 8.696 min
Delta R.T.: 0.000 min
Response: 1382541
Conc: 10.95 ug/ml



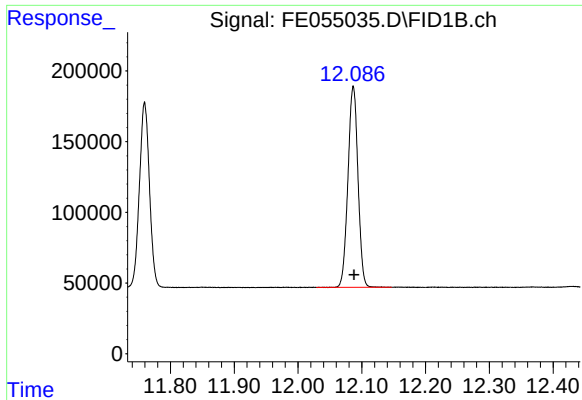
#7 n-Hexadecane (C16)

R.T.: 10.311 min
Delta R.T.: 0.000 min
Response: 1417845
Conc: 10.90 ug/ml



#8 n-Octadecane (C18)

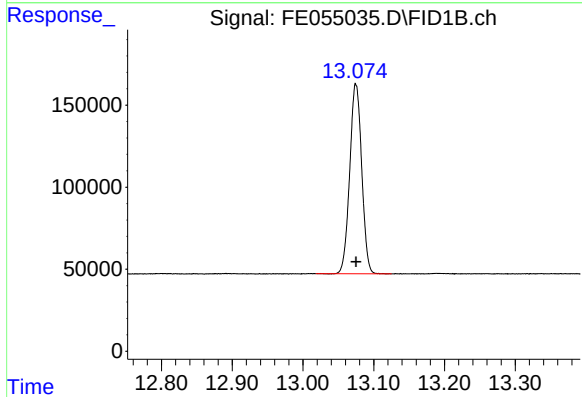
R.T.: 11.760 min
Delta R.T.: 0.000 min
Response: 1430704
Conc: 10.88 ug/ml



#9 ortho-Terphenyl (SURR)

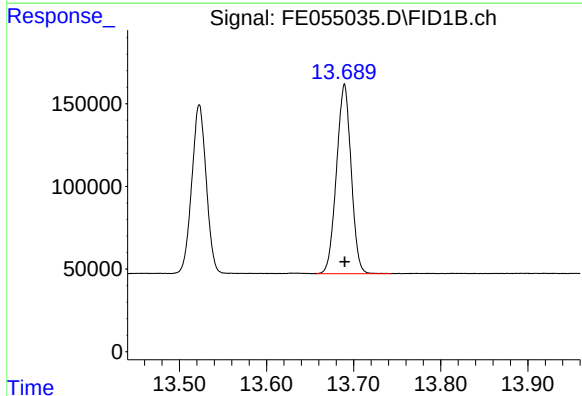
R.T.: 12.087 min
Delta R.T.: -0.001 min
Response: 1552269
Conc: 10.84 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



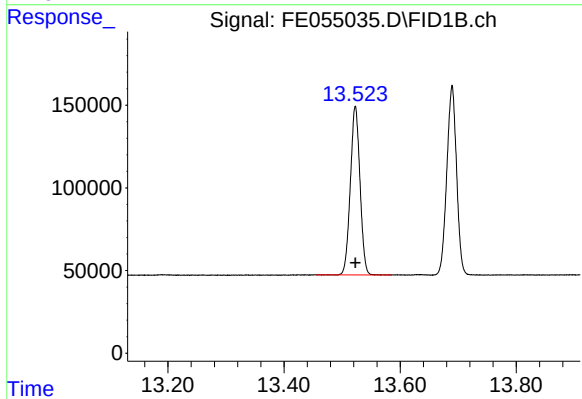
#10 n-Eicosane (C20)

R.T.: 13.075 min
Delta R.T.: 0.000 min
Response: 1363620
Conc: 10.86 ug/ml



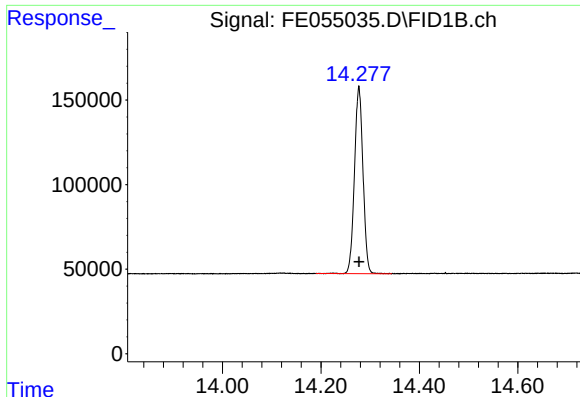
#11 n-Heneicosane (C21)

R.T.: 13.689 min
Delta R.T.: 0.000 min
Response: 1337951
Conc: 10.89 ug/ml



#12 1-chlorooctadecane (SURR)

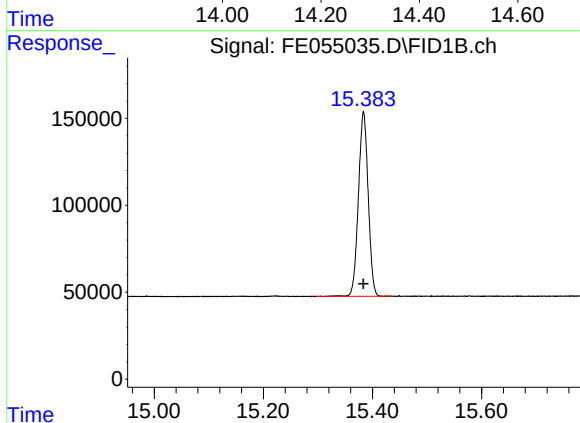
R.T.: 13.523 min
Delta R.T.: 0.000 min
Response: 1174594
Conc: 10.84 ug/ml



#13 n-Docosane (C22)

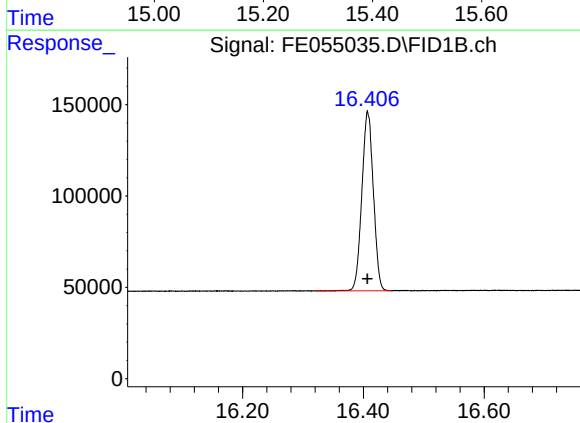
R.T.: 14.277 min
Delta R.T.: 0.000 min
Response: 1330009
Conc: 10.91 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



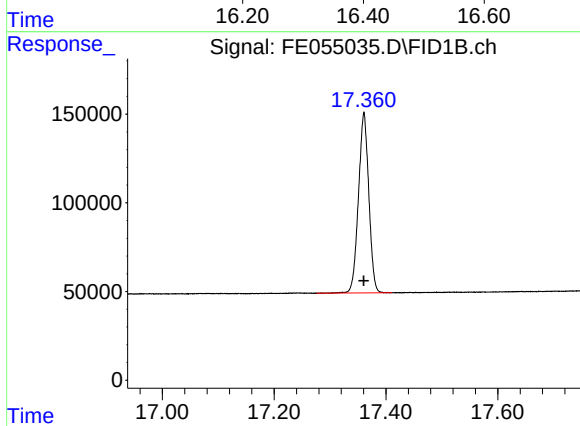
#14 n-Tetracosane (C24)

R.T.: 15.384 min
Delta R.T.: 0.000 min
Response: 1318361
Conc: 10.89 ug/ml



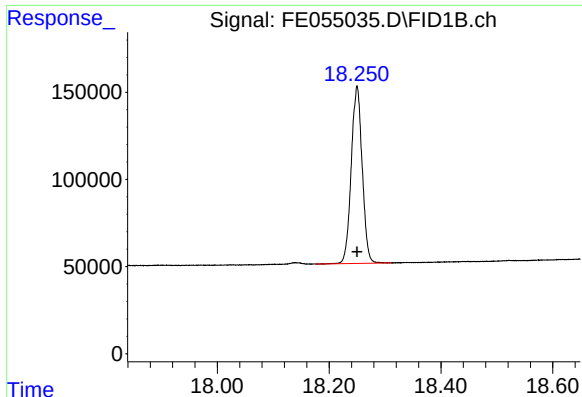
#15 n-Hexacosane (C26)

R.T.: 16.407 min
Delta R.T.: 0.000 min
Response: 1296444
Conc: 10.86 ug/ml



#16 n-Octacosane (C28)

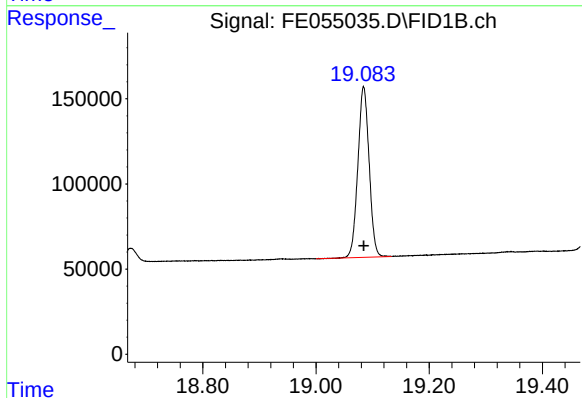
R.T.: 17.361 min
Delta R.T.: 0.000 min
Response: 1303983
Conc: 10.95 ug/ml



#17 n-Tricontane (C30)

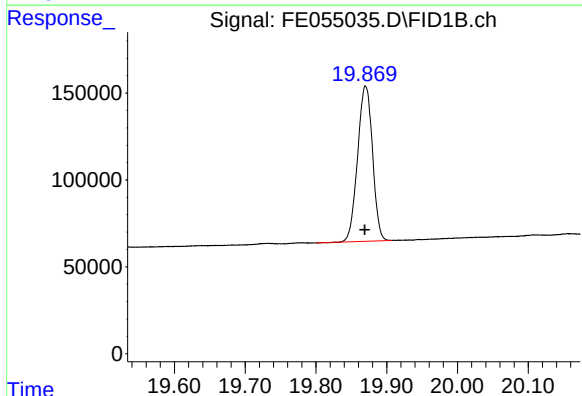
R.T.: 18.250 min
Delta R.T.: 0.000 min
Response: 1384259
Conc: 11.06 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



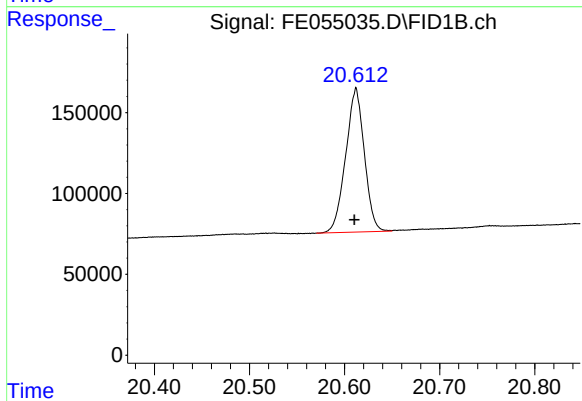
#18 n-Dotriacontane (C32)

R.T.: 19.084 min
Delta R.T.: 0.000 min
Response: 1384490
Conc: 11.09 ug/ml



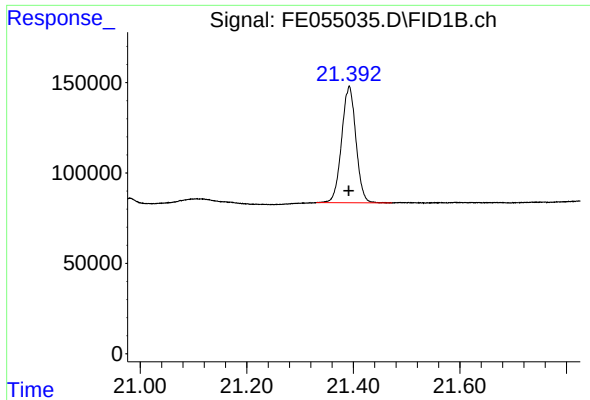
#19 n-Tetratriacontane (C34)

R.T.: 19.870 min
Delta R.T.: 0.001 min
Response: 1308689
Conc: 11.02 ug/ml



#20 n-Hexatriacontane (C36)

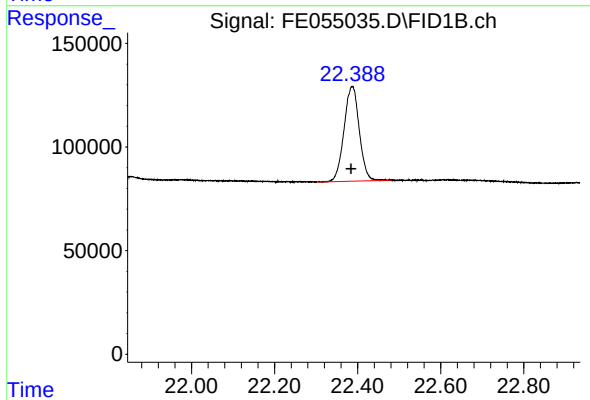
R.T.: 20.612 min
Delta R.T.: 0.001 min
Response: 1211437
Conc: 10.92 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.392 min
Delta R.T.: 0.000 min
Response: 1201420
Conc: 11.24 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.387 min
Delta R.T.: 0.003 min
Response: 1168579
Conc: 10.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055035.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 21:50
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.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	3.394	3.480	BB	129978	1271562	81.92%	4.326%
2	4.683	4.652	4.734	BB	132823	1293740	83.35%	4.402%
3	6.403	6.369	6.484	BB	155021	1493091	96.19%	5.080%
4	6.859	6.805	6.920	BB	136243	1327875	85.54%	4.518%
5	7.504	7.454	7.577	BB	145601	1437457	92.60%	4.891%
6	8.696	8.544	8.777	BB	132206	1382541	89.07%	4.704%
7	10.311	10.267	10.387	BB	130524	1417845	91.34%	4.824%
8	11.760	11.717	11.812	BB	130579	1430704	92.17%	4.868%
9	12.087	12.029	12.147	BB	142348	1552269	100.00%	5.281%
10	13.075	13.019	13.125	BB	115043	1363620	87.85%	4.640%
11	13.523	13.455	13.585	BB	102255	1174594	75.67%	3.996%
12	13.689	13.657	13.744	PB	114239	1337951	86.19%	4.552%
13	14.277	14.190	14.344	BB	110706	1330009	85.68%	4.525%
14	15.384	15.297	15.435	BB	106315	1318361	84.93%	4.486%
15	16.407	16.322	16.447	BB	98128	1296444	83.52%	4.411%
16	17.361	17.275	17.410	BB	101359	1303983	84.00%	4.437%
17	18.250	18.177	18.312	BB	102074	1384259	89.18%	4.710%
18	19.084	19.000	19.134	BV	100301	1384490	89.19%	4.711%
19	19.870	19.800	19.907	BV	89241	1308689	84.31%	4.453%
20	20.612	20.570	20.650	BV	89027	1211437	78.04%	4.122%
21	21.392	21.330	21.472	BV	64681	1201420	77.40%	4.088%
22	22.387	22.300	22.482	BB	45727	1168579	75.28%	3.976%
Sum of corrected areas:							29390920	

Aliphatic EPH 072625.M Sat Jul 26 04:10:05 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055036.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 22:21
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Jul 26 03:49:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:46:03 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	816173	5.700 ug/ml
Spiked Amount 50.000		Recovery =	11.40%
12) S 1-chlorooctadecane (S...	13.523	614097	5.669 ug/ml
Spiked Amount 50.000		Recovery =	11.34%
Target Compounds			
1) T n-Nonane (C9)	3.425	675389	5.773 ug/ml
2) T n-Decane (C10)	4.683	685567	5.735 ug/ml
3) T A~Naphthalene (C11.7)	6.403	784195	5.680 ug/ml
4) T n-Dodecane (C12)	6.859	696348	5.679 ug/ml
5) T A~2-methylnaphthalene...	7.504	754429	5.632 ug/ml
6) T n-Tetradecane (C14)	8.696	744409	5.898 ug/ml
7) T n-Hexadecane (C16)	10.310	739777	5.685 ug/ml
8) T n-Octadecane (C18)	11.760	754575	5.739 ug/ml
10) T n-Eicosane (C20)	13.074	725965	5.781 ug/ml
11) T n-Heneicosane (C21)	13.688	702192	5.717 ug/ml
13) T n-Docosane (C22)	14.277	697095	5.720 ug/ml
14) T n-Tetracosane (C24)	15.383	695599	5.747 ug/ml
15) T n-Hexacosane (C26)	16.407	688383	5.768 ug/ml
16) T n-Octacosane (C28)	17.360	710850	5.968 ug/ml
17) T n-Tricontane (C30)	18.249	785841	6.278 ug/ml
18) T n-Dotriacontane (C32)	19.084	787460	6.309 ug/ml
19) T n-Tetratriacontane (C34)	19.869	739250	6.225 ug/ml
20) T n-Hexatriacontane (C36)	20.609	670586	6.046 ug/ml
21) T n-Octatriacontane (C38)	21.391	657558	6.153 ug/ml
22) T n-Tetracontane (C40)	22.381	621601	5.796 ug/ml

(f)=RT Delta > 1/2 Window

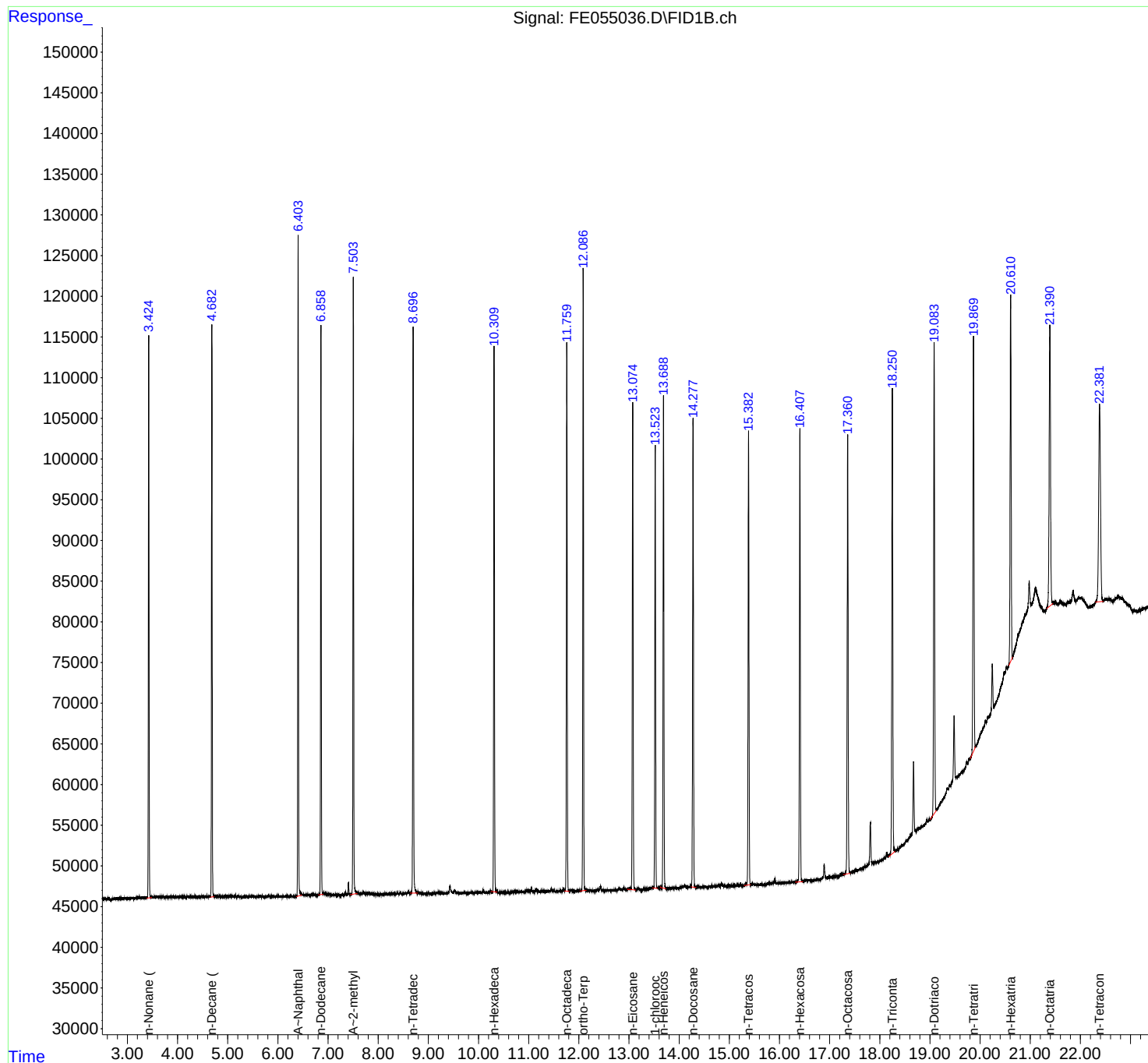
(m)=manual int.

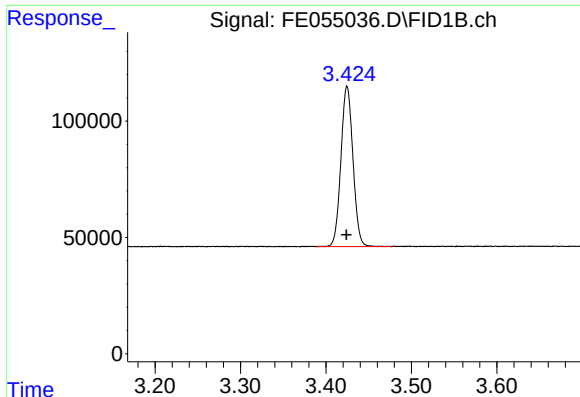
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
Data File : FE055036.D
Signal(s) : FID1B.ch
Acq On : 25 Jul 2025 22:21
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jul 26 03:49:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:46:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

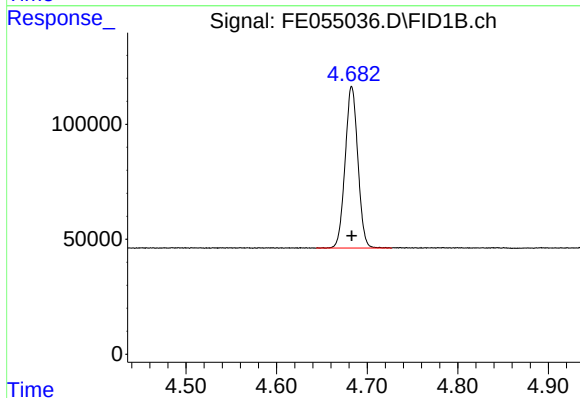




#1 n-Nonane (C9)

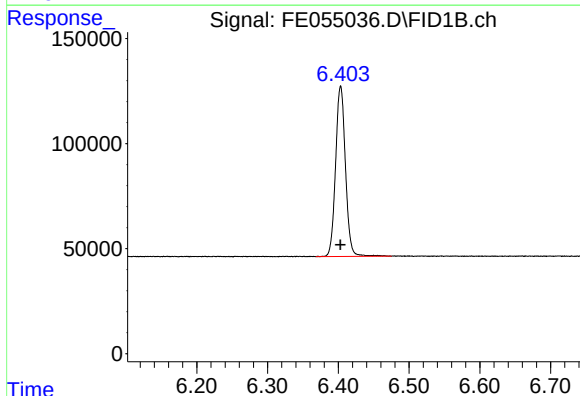
R.T.: 3.425 min
Delta R.T.: 0.000 min
Response: 675389
Conc: 5.77 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



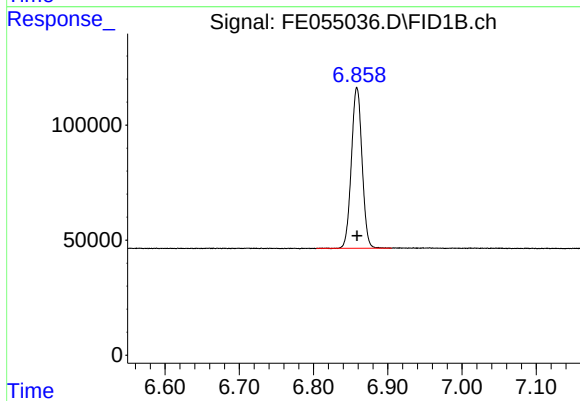
#2 n-Decane (C10)

R.T.: 4.683 min
Delta R.T.: 0.000 min
Response: 685567
Conc: 5.73 ug/ml



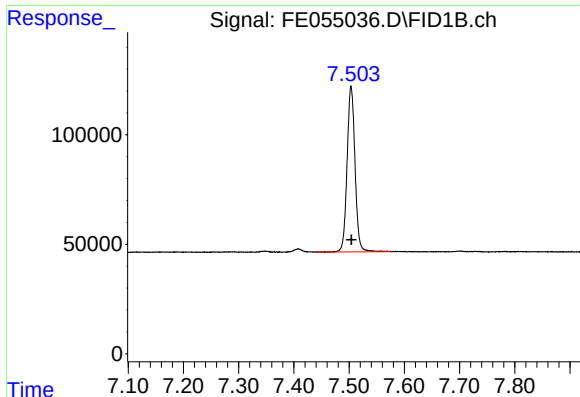
#3 A~Naphthalene (C11.7)

R.T.: 6.403 min
Delta R.T.: 0.000 min
Response: 784195
Conc: 5.68 ug/ml



#4 n-Dodecane (C12)

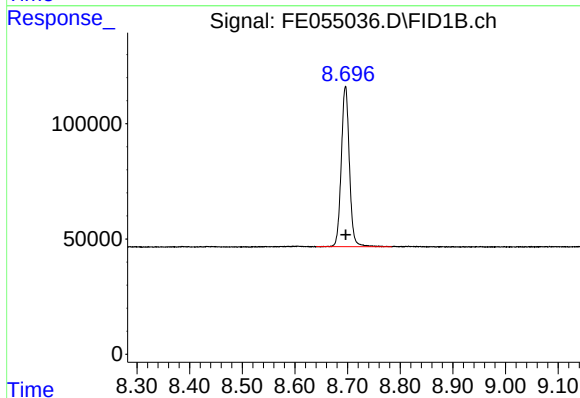
R.T.: 6.859 min
Delta R.T.: 0.000 min
Response: 696348
Conc: 5.68 ug/ml



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

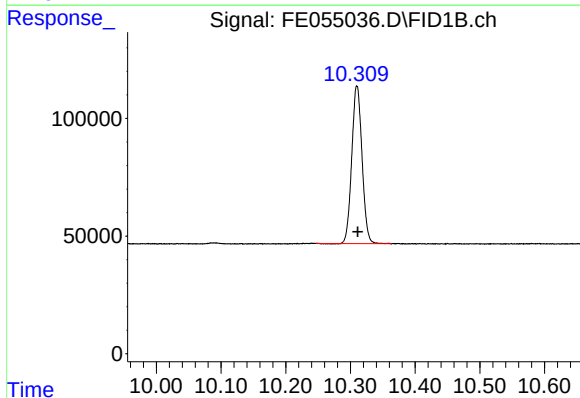
R.T.: 7.504 min
Delta R.T.: 0.000 min
Response: 754429
Conc: 5.63 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



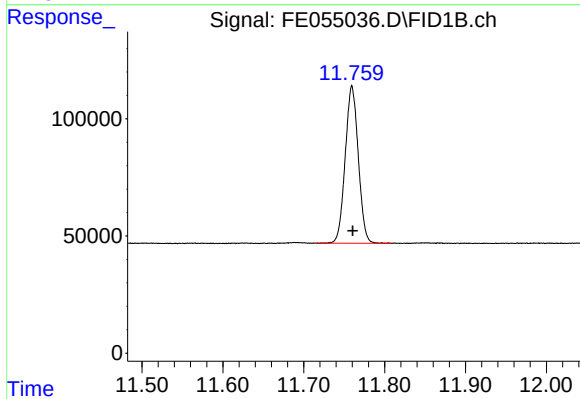
#6 n-Tetradecane (C14)

R.T.: 8.696 min
Delta R.T.: 0.000 min
Response: 744409
Conc: 5.90 ug/ml



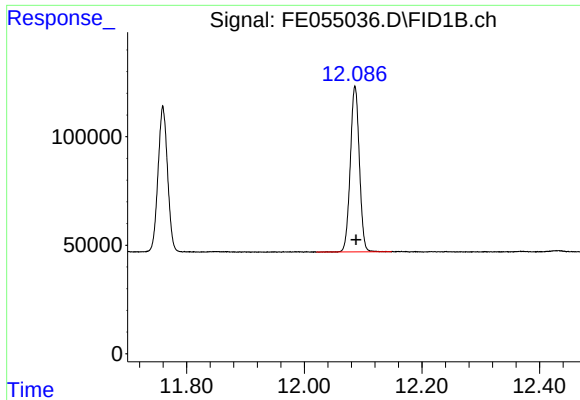
#7 n-Hexadecane (C16)

R.T.: 10.310 min
Delta R.T.: -0.001 min
Response: 739777
Conc: 5.68 ug/ml



#8 n-Octadecane (C18)

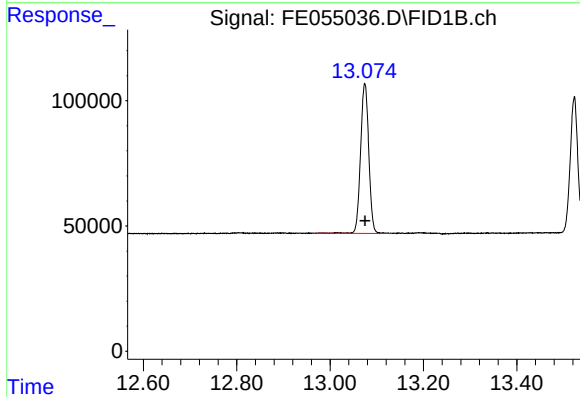
R.T.: 11.760 min
Delta R.T.: 0.000 min
Response: 754575
Conc: 5.74 ug/ml



#9 ortho-Terphenyl (SURR)

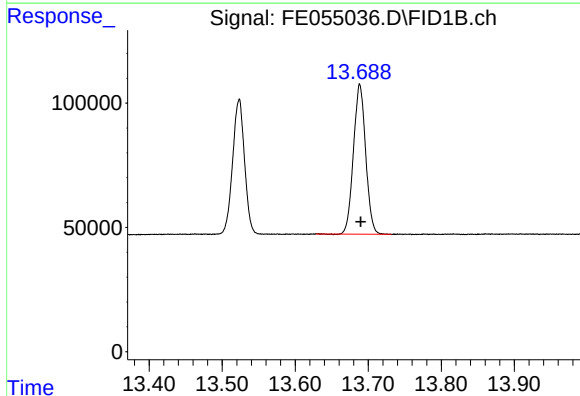
R.T.: 12.086 min
Delta R.T.: -0.002 min
Response: 816173
Conc: 5.70 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



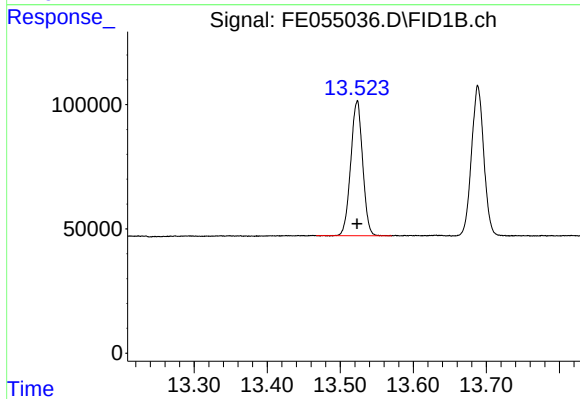
#10 n-Eicosane (C20)

R.T.: 13.074 min
Delta R.T.: 0.000 min
Response: 725965
Conc: 5.78 ug/ml



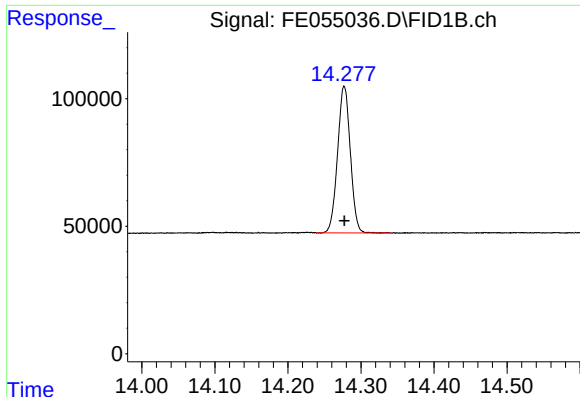
#11 n-Heneicosane (C21)

R.T.: 13.688 min
Delta R.T.: -0.001 min
Response: 702192
Conc: 5.72 ug/ml



#12 1-chlorooctadecane (SURR)

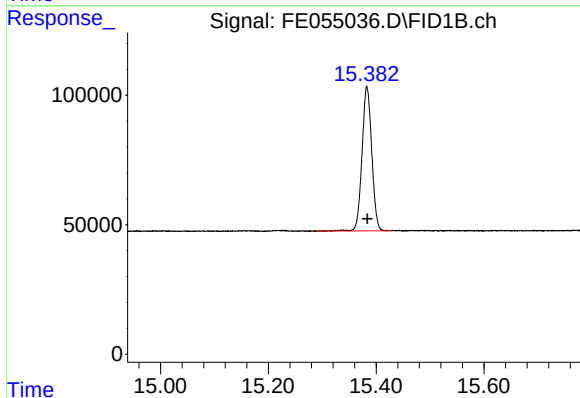
R.T.: 13.523 min
Delta R.T.: 0.000 min
Response: 614097
Conc: 5.67 ug/ml



#13 n-Docosane (C22)

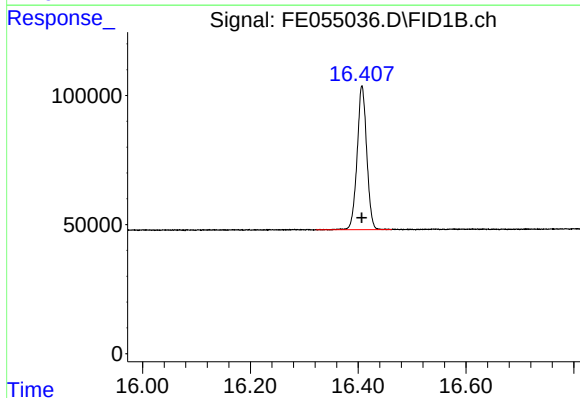
R.T.: 14.277 min
Delta R.T.: 0.000 min
Response: 697095
Conc: 5.72 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



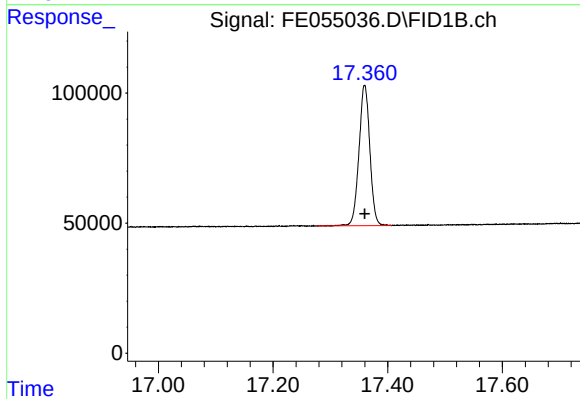
#14 n-Tetracosane (C24)

R.T.: 15.383 min
Delta R.T.: 0.000 min
Response: 695599
Conc: 5.75 ug/ml



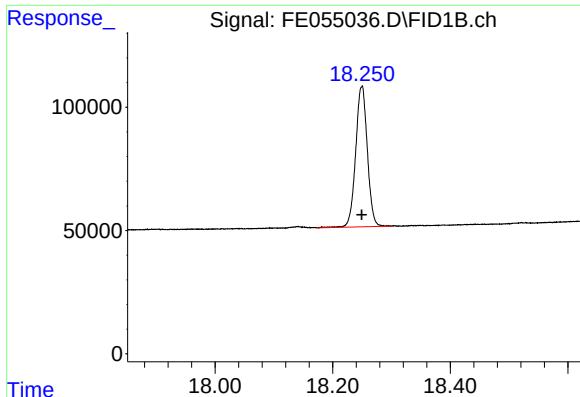
#15 n-Hexacosane (C26)

R.T.: 16.407 min
Delta R.T.: 0.000 min
Response: 688383
Conc: 5.77 ug/ml



#16 n-Octacosane (C28)

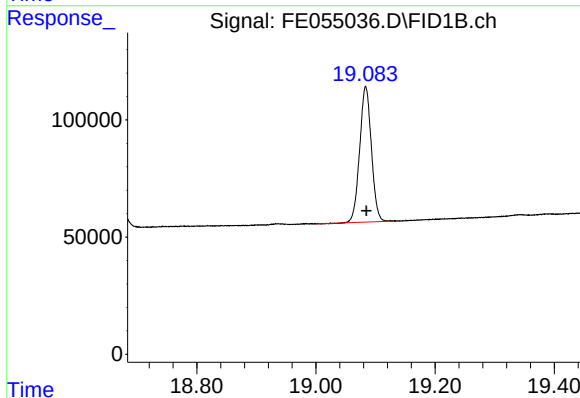
R.T.: 17.360 min
Delta R.T.: 0.000 min
Response: 710850
Conc: 5.97 ug/ml



#17 n-Tricontane (C30)

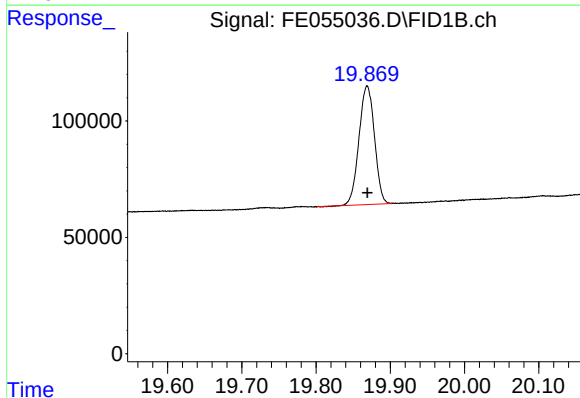
R.T.: 18.249 min
Delta R.T.: 0.000 min
Response: 785841
Conc: 6.28 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



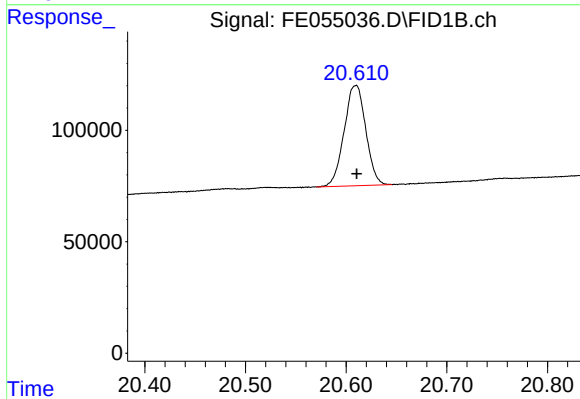
#18 n-Dotriacontane (C32)

R.T.: 19.084 min
Delta R.T.: -0.001 min
Response: 787460
Conc: 6.31 ug/ml



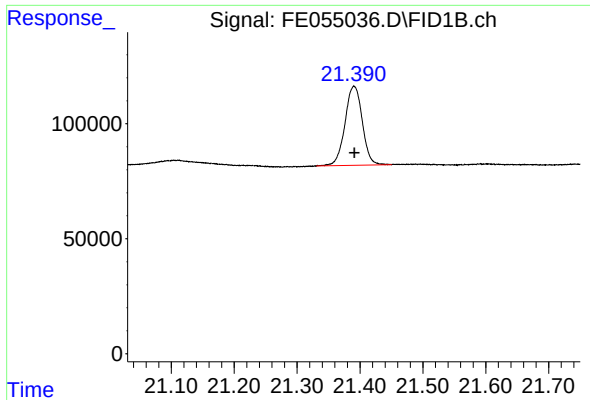
#19 n-Tetratriacontane (C34)

R.T.: 19.869 min
Delta R.T.: 0.000 min
Response: 739250
Conc: 6.23 ug/ml



#20 n-Hexatriacontane (C36)

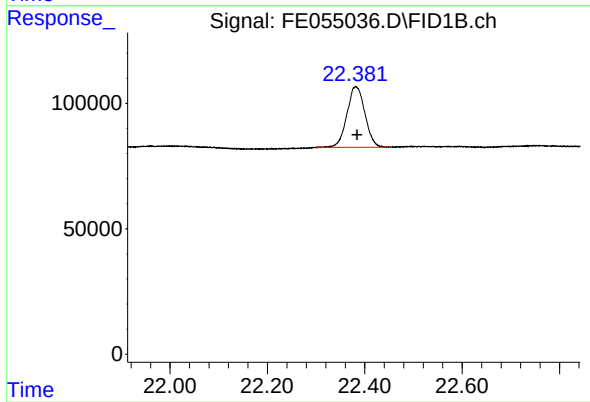
R.T.: 20.609 min
Delta R.T.: -0.001 min
Response: 670586
Conc: 6.05 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.391 min
Delta R.T.: 0.000 min
Response: 657558
Conc: 6.15 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.381 min
Delta R.T.: -0.003 min
Response: 621601
Conc: 5.80 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055036.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 22:21
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.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	3.389	3.477	BB	68923	675389	82.75%	4.289%
2	4.683	4.644	4.727	BB	70112	685567	84.00%	4.354%
3	6.403	6.369	6.475	BB	81200	784195	96.08%	4.980%
4	6.859	6.804	6.905	BB	69903	696348	85.32%	4.422%
5	7.504	7.440	7.577	BB	75613	754429	92.43%	4.791%
6	8.696	8.640	8.784	BB	69410	744409	91.21%	4.727%
7	10.310	10.247	10.364	BB	67016	739777	90.64%	4.698%
8	11.760	11.715	11.809	BB	66947	754575	92.45%	4.792%
9	12.086	12.020	12.149	BB	76319	816173	100.00%	5.183%
10	13.074	12.970	13.132	BB	59815	725965	88.95%	4.610%
11	13.523	13.467	13.570	BB	54579	614097	75.24%	3.900%
12	13.688	13.629	13.732	BB	60346	702192	86.03%	4.459%
13	14.277	14.239	14.342	BB	57514	697095	85.41%	4.427%
14	15.383	15.289	15.429	BB	55326	695599	85.23%	4.417%
15	16.407	16.322	16.462	BB	55613	688383	84.34%	4.371%
16	17.360	17.275	17.407	BB	53969	710850	87.10%	4.514%
17	18.249	18.172	18.300	BB	56896	785841	96.28%	4.990%
18	19.084	19.000	19.127	BV	57837	787460	96.48%	5.001%
19	19.869	19.800	19.902	BV	51085	739250	90.58%	4.694%
20	20.609	20.570	20.645	BV	44943	670586	82.16%	4.258%
21	21.391	21.330	21.450	BB	34448	657558	80.57%	4.176%
22	22.381	22.300	22.455	BB	24182	621601	76.16%	3.947%
Sum of corrected areas:							15747337	

Aliphatic EPH 072625.M Sat Jul 26 04:10:37 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055037.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 22:51
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Jul 26 03:57:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:55:28 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	12.087	2718598	18.366 ug/ml
Spiked Amount 50.000		Recovery =	36.73%
12) S 1-chlorooctadecane (S...	13.524	2050203	18.308 ug/ml
Spiked Amount 50.000		Recovery =	36.62%
Target Compounds			
1) T n-Nonane (C9)	3.424	2233144	18.394 ug/ml
2) T n-Decane (C10)	4.683	2280444	18.424 ug/ml
3) T A~Naphthalene (C11.7)	6.403	2646080	18.591 ug/ml
4) T n-Dodecane (C12)	6.858	2345831	18.508 ug/ml
5) T A~2-methylnaphthalene...	7.504	2568604	18.589 ug/ml
6) T n-Tetradecane (C14)	8.696	2427981	18.491 ug/ml
7) T n-Hexadecane (C16)	10.311	2488687	18.500 ug/ml
8) T n-Octadecane (C18)	11.760	2505819	18.411 ug/ml
10) T n-Eicosane (C20)	13.075	2382077	18.305 ug/ml
11) T n-Heneicosane (C21)	13.690	2330891	18.329 ug/ml
13) T n-Docosane (C22)	14.278	2299898	18.226 ug/ml
14) T n-Tetracosane (C24)	15.384	2291832	18.287 ug/ml
15) T n-Hexacosane (C26)	16.407	2253974	18.244 ug/ml
16) T n-Octacosane (C28)	17.359	2232100	18.006 ug/ml
17) T n-Tricontane (C30)	18.249	2292352	17.493 ug/ml
18) T n-Dotriacontane (C32)	19.084	2243730	17.209 ug/ml
19) T n-Tetratriacontane (C34)	19.869	2165211	17.465 ug/ml
20) T n-Hexatriacontane (C36)	20.611	2023333	17.613 ug/ml
21) T n-Octatriacontane (C38)	21.391	1974603	17.569 ug/ml
22) T n-Tetracontane (C40)	22.385	1955225	17.732 ug/ml

(f)=RT Delta > 1/2 Window

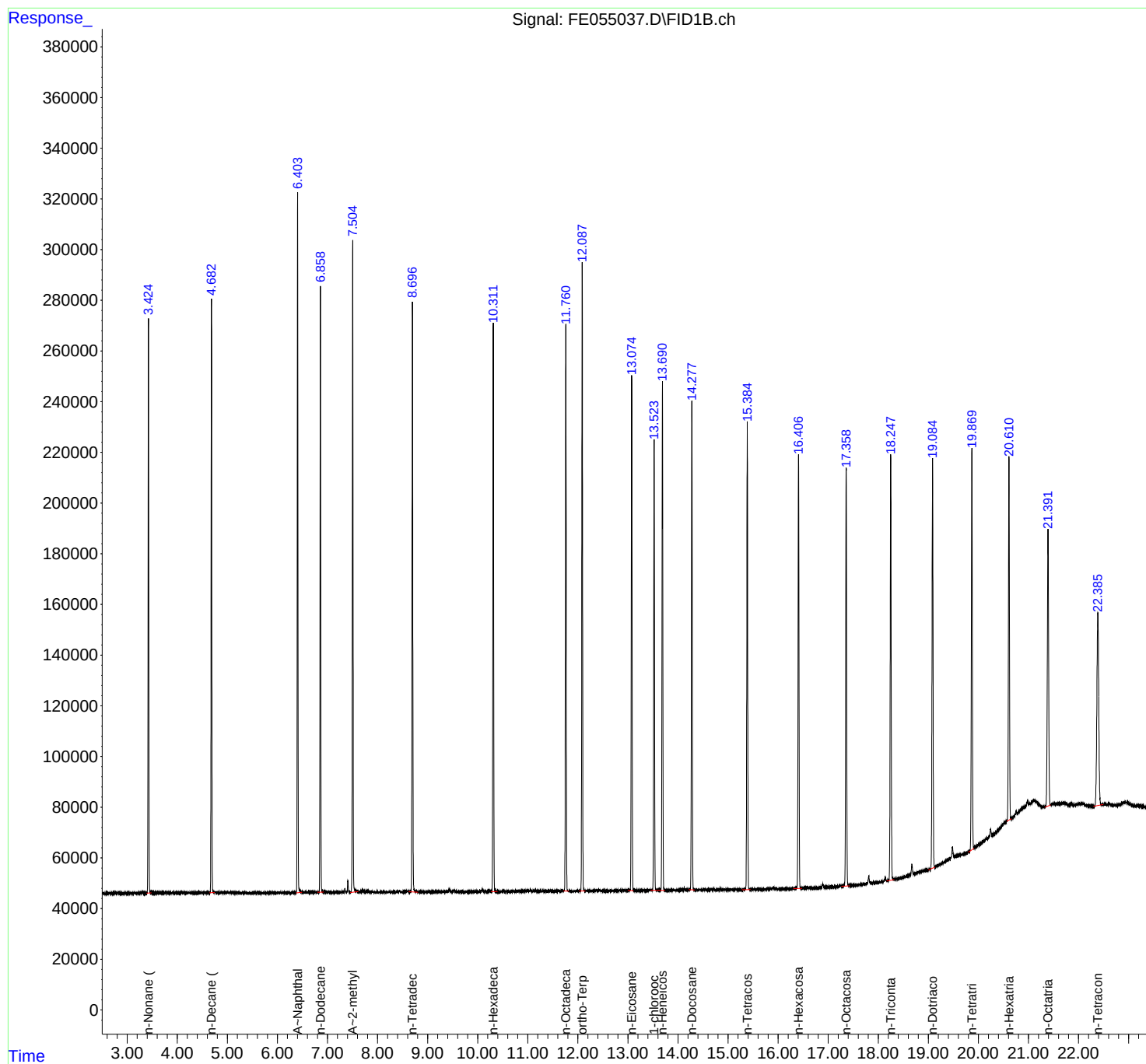
(m)=manual int.

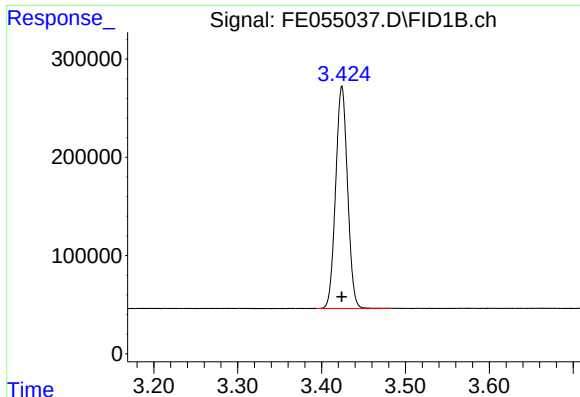
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
Data File : FE055037.D
Signal(s) : FID1B.ch
Acq On : 25 Jul 2025 22:51
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jul 26 03:57:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:55:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#1 n-Nonane (C9)

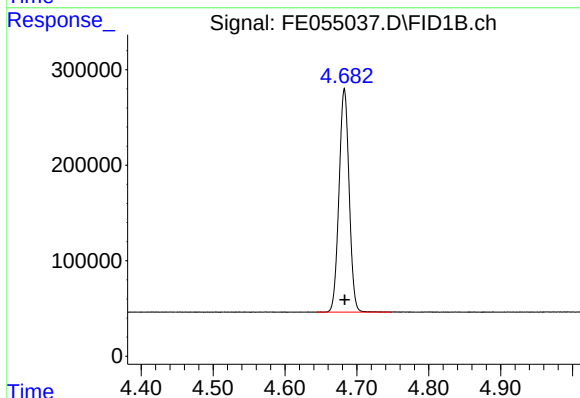
R.T.: 3.424 min
Delta R.T.: 0.000 min
Response: 2233144
Conc: 18.39 ug/ml

Instrument :

FID_E

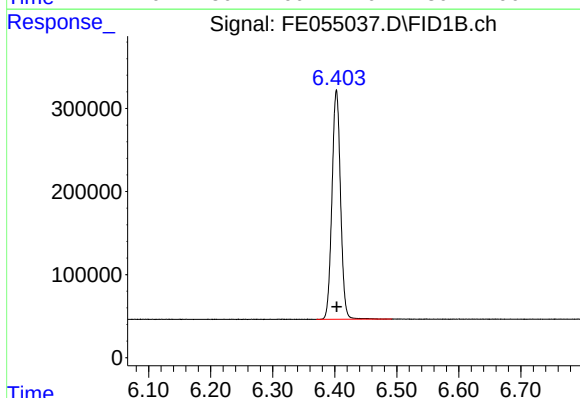
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



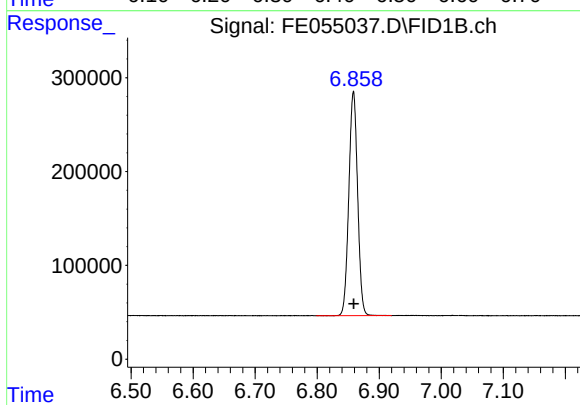
#2 n-Decane (C10)

R.T.: 4.683 min
Delta R.T.: 0.000 min
Response: 2280444
Conc: 18.42 ug/ml



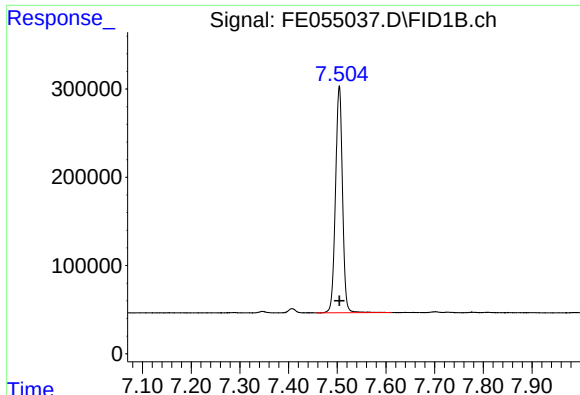
#3 A~Naphthalene (C11.7)

R.T.: 6.403 min
Delta R.T.: 0.000 min
Response: 2646080
Conc: 18.59 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.858 min
Delta R.T.: 0.000 min
Response: 2345831
Conc: 18.51 ug/ml



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

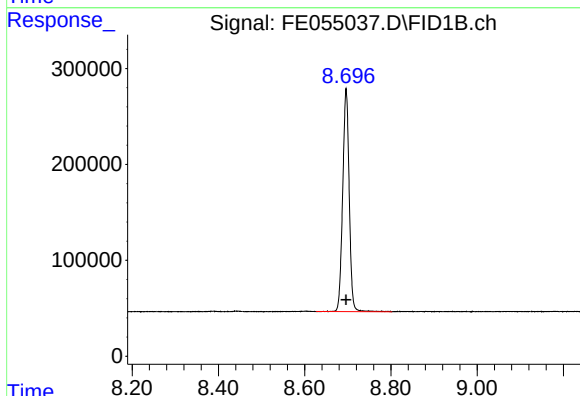
R.T.: 7.504 min
Delta R.T.: 0.000 min
Response: 2568604
Conc: 18.59 ug/ml

Instrument :

FID_E

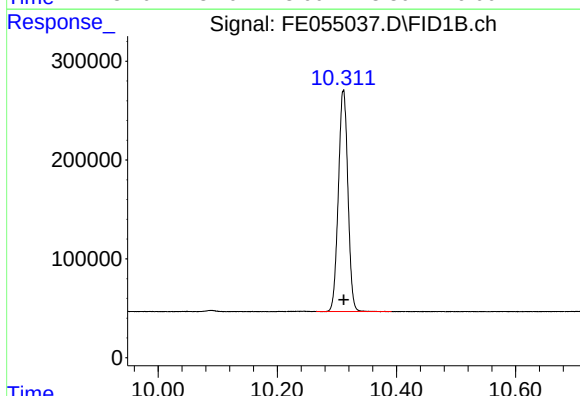
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



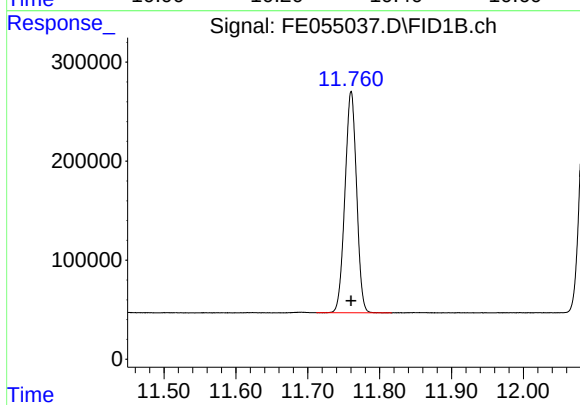
#6 n-Tetradecane (C14)

R.T.: 8.696 min
Delta R.T.: 0.000 min
Response: 2427981
Conc: 18.49 ug/ml



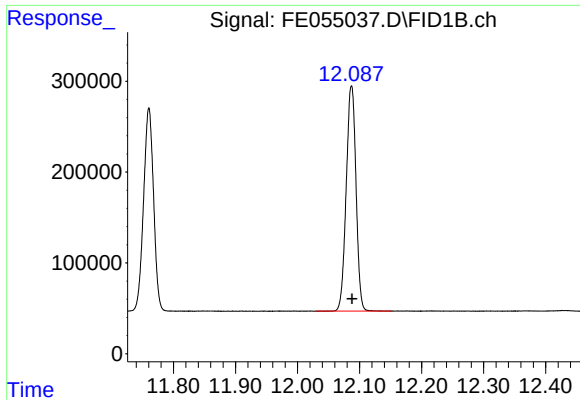
#7 n-Hexadecane (C16)

R.T.: 10.311 min
Delta R.T.: 0.000 min
Response: 2488687
Conc: 18.50 ug/ml



#8 n-Octadecane (C18)

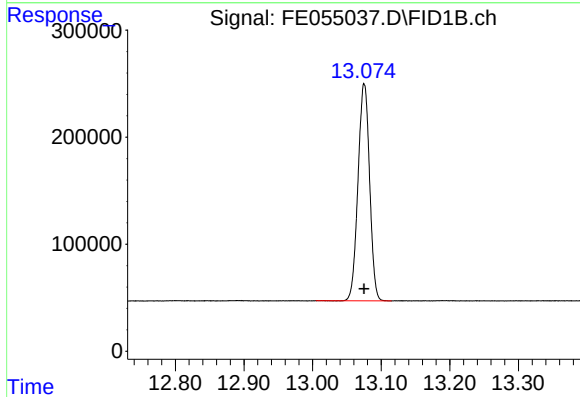
R.T.: 11.760 min
Delta R.T.: 0.000 min
Response: 2505819
Conc: 18.41 ug/ml



#9 ortho-Terphenyl (SURR)

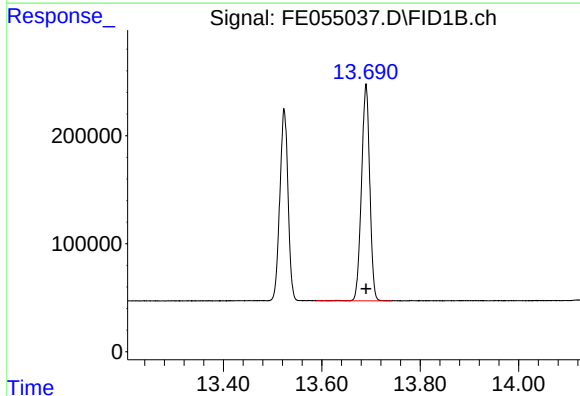
R.T.: 12.087 min
Delta R.T.: 0.000 min
Response: 2718598
Conc: 18.37 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



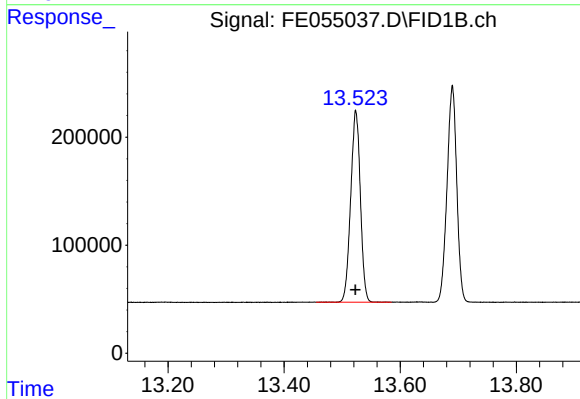
#10 n-Eicosane (C20)

R.T.: 13.075 min
Delta R.T.: 0.000 min
Response: 2382077
Conc: 18.30 ug/ml



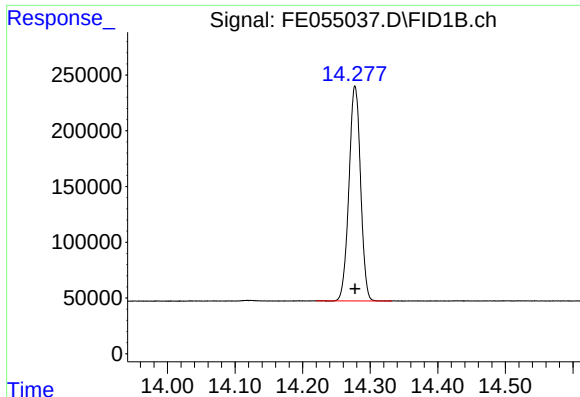
#11 n-Heneicosane (C21)

R.T.: 13.690 min
Delta R.T.: 0.000 min
Response: 2330891
Conc: 18.33 ug/ml



#12 1-chlorooctadecane (SURR)

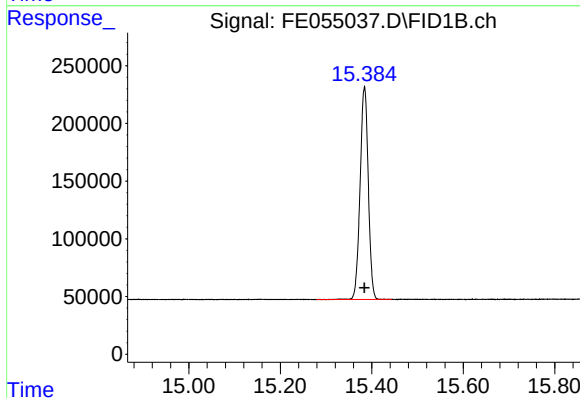
R.T.: 13.524 min
Delta R.T.: 0.000 min
Response: 2050203
Conc: 18.31 ug/ml



#13 n-Docosane (C22)

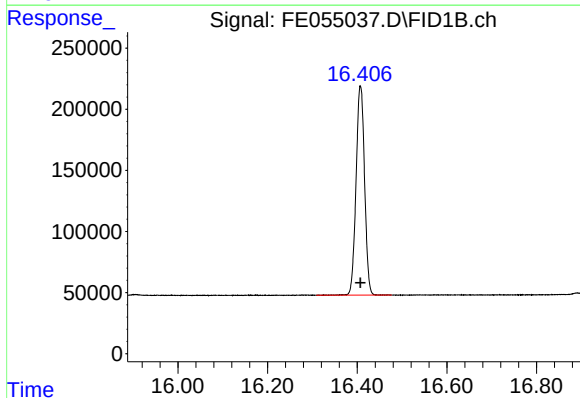
R.T.: 14.278 min
Delta R.T.: 0.000 min
Response: 2299898
Conc: 18.23 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



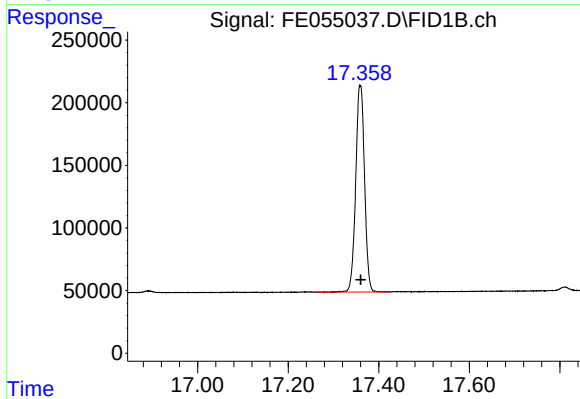
#14 n-Tetracosane (C24)

R.T.: 15.384 min
Delta R.T.: 0.000 min
Response: 2291832
Conc: 18.29 ug/ml



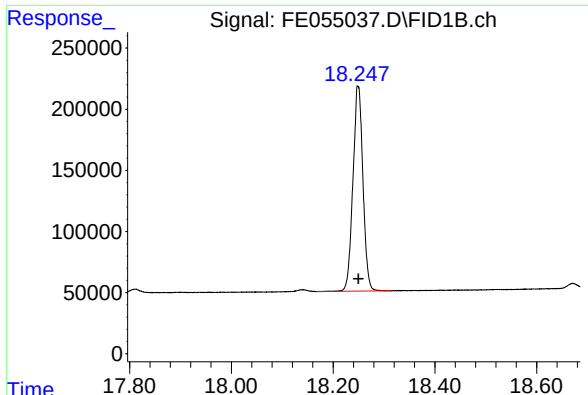
#15 n-Hexacosane (C26)

R.T.: 16.407 min
Delta R.T.: 0.000 min
Response: 2253974
Conc: 18.24 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.359 min
Delta R.T.: 0.000 min
Response: 2232100
Conc: 18.01 ug/ml



#17 n-Tricontane (C30)

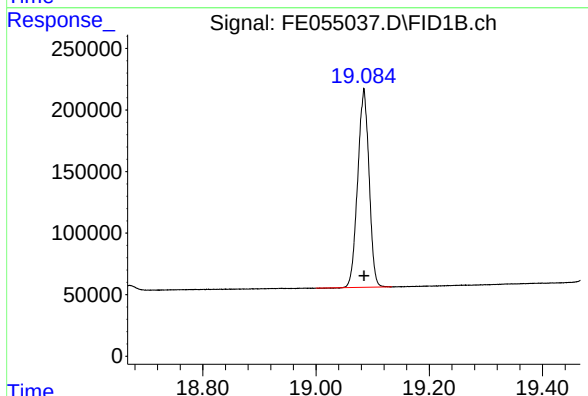
R.T.: 18.249 min
Delta R.T.: 0.000 min
Response: 2292352
Conc: 17.49 ug/ml

Instrument :

FID_E

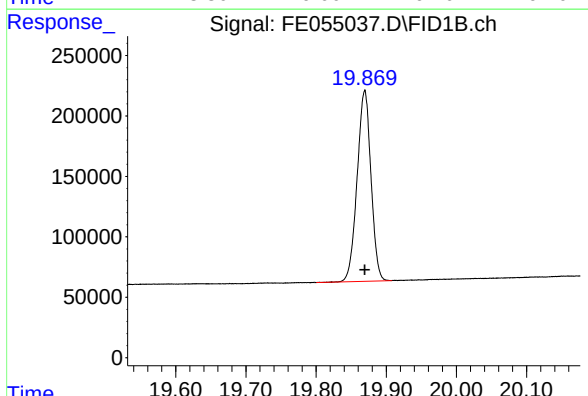
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



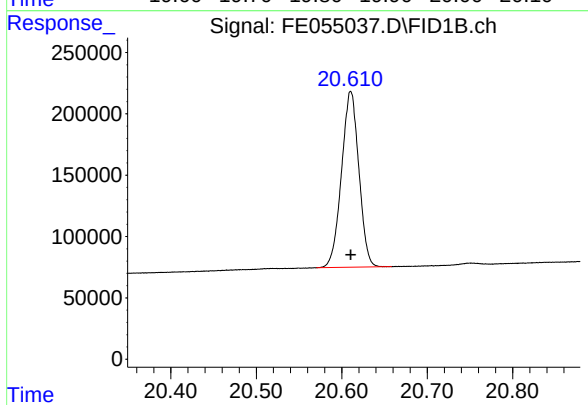
#18 n-Dotriacontane (C32)

R.T.: 19.084 min
Delta R.T.: 0.000 min
Response: 2243730
Conc: 17.21 ug/ml



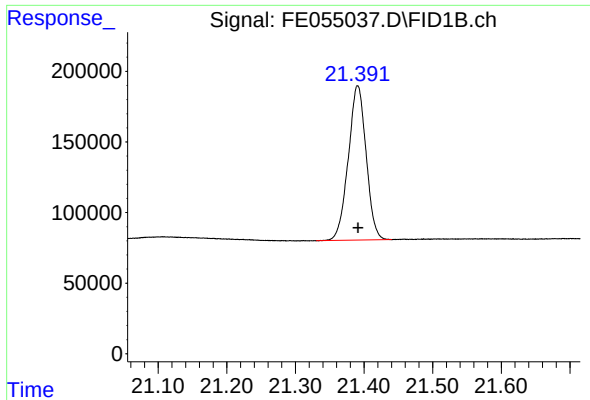
#19 n-Tetratriacontane (C34)

R.T.: 19.869 min
Delta R.T.: 0.000 min
Response: 2165211
Conc: 17.47 ug/ml



#20 n-Hexatriacontane (C36)

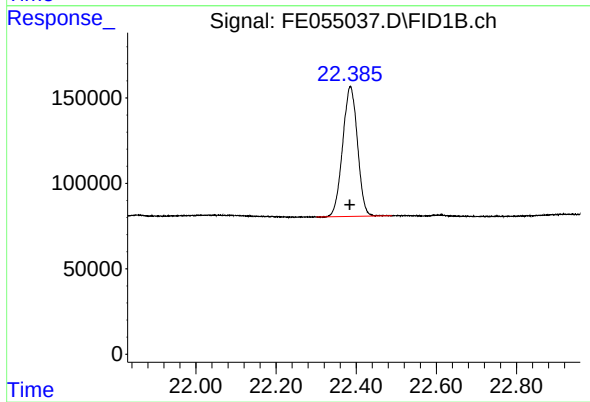
R.T.: 20.611 min
Delta R.T.: 0.000 min
Response: 2023333
Conc: 17.61 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.391 min
Delta R.T.: 0.000 min
Response: 1974603
Conc: 17.57 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.385 min
Delta R.T.: 0.001 min
Response: 1955225
Conc: 17.73 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072625AL\
 Data File : FE055037.D
 Signal(s) : FID1B.ch
 Acq On : 25 Jul 2025 22:51
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.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	3.393	3.483	BB	225862	2233144	82.14%	4.404%
2	4.683	4.643	4.748	BB	233828	2280444	83.88%	4.497%
3	6.403	6.370	6.492	BB	276327	2646080	97.33%	5.218%
4	6.858	6.798	6.920	BB	238807	2345831	86.29%	4.626%
5	7.504	7.457	7.612	BB	256447	2568604	94.48%	5.065%
6	8.696	8.627	8.802	BB	231358	2427981	89.31%	4.788%
7	10.311	10.265	10.392	BB	225289	2488687	91.54%	4.908%
8	11.760	11.712	11.817	BB	223737	2505819	92.17%	4.941%
9	12.087	12.030	12.152	BB	247891	2718598	100.00%	5.361%
10	13.075	13.005	13.115	BB	203007	2382077	87.62%	4.697%
11	13.524	13.455	13.585	BB	177341	2050203	75.41%	4.043%
12	13.690	13.588	13.742	BB	201015	2330891	85.74%	4.596%
13	14.278	14.220	14.332	BB	192275	2299898	84.60%	4.535%
14	15.384	15.278	15.443	BB	183463	2291832	84.30%	4.519%
15	16.407	16.308	16.477	BB	171062	2253974	82.91%	4.445%
16	17.359	17.262	17.428	BV	165124	2232100	82.10%	4.402%
17	18.249	18.167	18.315	PB	167277	2292352	84.32%	4.520%
18	19.084	19.000	19.133	BV	162373	2243730	82.53%	4.425%
19	19.869	19.800	19.908	BV	157464	2165211	79.64%	4.270%
20	20.611	20.570	20.658	BV	143503	2023333	74.43%	3.990%
21	21.391	21.330	21.440	BV	109416	1974603	72.63%	3.894%
22	22.385	22.300	22.488	BB	76126	1955225	71.92%	3.856%
Sum of corrected areas:							50710616	

Aliphatic EPH 072625.M Sat Jul 26 04:11:06 2025

Continuing Calibration Report for SequenceID : FC072825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FC069543.D

Aliphatic C9-C12	8377980.000	60.000	3.303	6.602	139633.000	138999.501	-0.456
Aliphatic C12-C16	5704222.000	40.000	6.603	10.006	142605.550	144073.407	1.019
Aliphatic C16-C21	8072340.000	60.000	10.007	13.376	134539.000	135996.946	1.072
Aliphatic C21-C28	9651896.000	80.000	13.377	17.043	120648.700	118989.055	-1.395
Aliphatic C28-C40	11839341.000	120.000	17.044	22.029	98661.175	89883.162	-9.766
Aliphatic EPH	43645779.000	360.000	3.303	22.029	121238.275	118243.964	-2.532

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	28 Jul 2025 12:24
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069543.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.303	6.602	8377980.000	60.000	ug/ml
Aliphatic C12-C16	6.603	10.006	5704222.000	40.000	ug/ml
Aliphatic C16-C21	10.007	13.376	8072340.000	60.000	ug/ml
Aliphatic C21-C28	13.377	17.043	9651896.000	80.000	ug/ml
Aliphatic C28-C40	17.044	22.029	11839341.000	120.000	ug/ml
Aliphatic EPH	3.303	22.029	43645779.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069543.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 12:24
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: Jul 28 13:48:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 12:35:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.674	2955953	19.918 ug/ml
Spiked Amount 50.000		Recovery =	39.84%
12) S 1-chlorooctadecane (S...	13.109	2204065	19.503 ug/ml
Spiked Amount 50.000		Recovery =	39.01%
Target Compounds			
1) T n-Nonane (C9)	3.403	2720460	19.991 ug/ml
2) T n-Decane (C10)	4.476	2807886	20.174 ug/ml
3) T A~Naphthalene (C11.7)	6.072	3013712	19.944 ug/ml
4) T n-Dodecane (C12)	6.502	2849634	20.105 ug/ml
5) T A~2-methylnaphthalene...	7.132	2885348	19.750 ug/ml
6) T n-Tetradecane (C14)	8.302	2821526	19.844 ug/ml
7) T n-Hexadecane (C16)	9.906	2882696	19.750 ug/ml
8) T n-Octadecane (C18)	11.352	2846485	19.788 ug/ml
10) T n-Eicosane (C20)	12.663	2654787	19.775 ug/ml
11) T n-Heneicosane (C21)	13.276	2571068	19.794 ug/ml
13) T n-Docosane (C22)	13.864	2532518	19.940 ug/ml
14) T n-Tetracosane (C24)	14.968	2472243	20.256 ug/ml
15) T n-Hexacosane (C26)	15.991	2358207	20.298 ug/ml
16) T n-Octacosane (C28)	16.943	2288928	20.674 ug/ml
17) T n-Tricontane (C30)	17.832	2369092	21.636 ug/ml
18) T n-Dotriacontane (C32)	18.667	2354113	22.686 ug/ml
19) T n-Tetratriacontane (C34)	19.451	2130590	22.611 ug/ml
20) T n-Hexatriacontane (C36)	20.194	1808392	21.894 ug/ml
21) T n-Octatriacontane (C38)	20.961	1671350	22.005 ug/ml
22) T n-Tetracontane (C40)	21.929	1505804	20.557 ug/ml

(f)=RT Delta > 1/2 Window

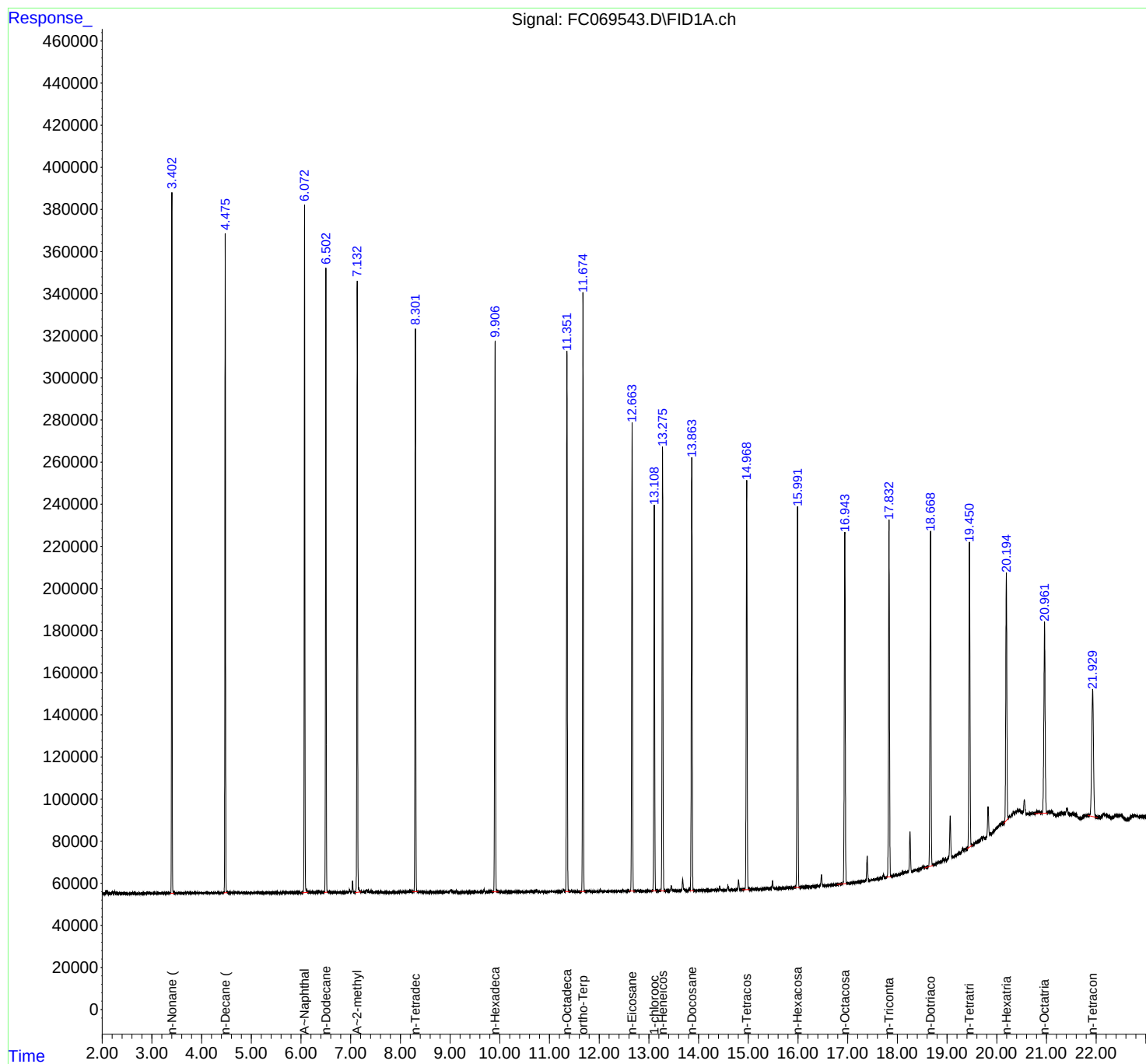
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
Data File : FC069543.D
Signal(s) : FID1A.ch
Acq On : 28 Jul 2025 12:24
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Jul 28 13:48:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 12:35:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069543.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 12:24
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.403	3.375	3.453	BB	332086	2720460	90.27%	4.973%
2	4.476	4.442	4.518	BB	313056	2807886	93.17%	5.133%
3	6.072	6.020	6.148	BB	325421	3013712	100.00%	5.509%
4	6.502	6.460	6.540	BB	296482	2849634	94.56%	5.209%
5	7.132	7.090	7.213	BB	290754	2885348	95.74%	5.274%
6	8.302	8.247	8.352	BB	267371	2821526	93.62%	5.158%
7	9.906	9.843	9.972	BB	261608	2882696	95.65%	5.270%
8	11.352	11.310	11.405	BB	256583	2846485	94.45%	5.203%
9	11.674	11.612	11.722	BB	284730	2955953	98.08%	5.403%
10	12.663	12.603	12.715	BB	222559	2654787	88.09%	4.853%
11	13.109	13.050	13.157	BB	183590	2204065	73.13%	4.029%
12	13.276	13.217	13.332	BB	209825	2571068	85.31%	4.700%
13	13.864	13.830	13.905	VB	205672	2532518	84.03%	4.629%
14	14.968	14.877	15.027	BB	194431	2472243	82.03%	4.519%
15	15.991	15.920	16.042	BB	181434	2358207	78.25%	4.311%
16	16.943	16.785	16.978	BB	166916	2288928	75.95%	4.184%
17	17.832	17.780	17.872	BB	169102	2369092	78.61%	4.331%
18	18.667	18.545	18.718	PB	157599	2354113	78.11%	4.303%
19	19.451	19.400	19.510	BB	144929	2130590	70.70%	3.895%
20	20.194	20.140	20.231	BV	117521	1808392	60.01%	3.306%
21	20.961	20.757	21.018	BV	90929	1671350	55.46%	3.055%
22	21.929	21.840	22.023	BB	60241	1505804	49.97%	2.753%
Sum of corrected areas:							54704855	

Aliphatic EPH 071525.M Mon Jul 28 13:54:28 2025

Continuing Calibration Report for SequenceID : FC072825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FC069555.D

Aliphatic C9-C12	8223559.000	60.000	3.303	6.602	137059.317	138999.501	1.396
Aliphatic C12-C16	5506419.000	40.000	6.603	10.006	137660.475	144073.407	4.451
Aliphatic C16-C21	7854249.000	60.000	10.007	13.376	130904.150	135996.946	3.745
Aliphatic C21-C28	9541715.000	80.000	13.377	17.043	119271.438	118989.055	-0.237
Aliphatic C28-C40	11960903.000	120.000	17.044	22.029	99674.192	89883.162	-10.893
Aliphatic EPH	43086845.000	360.000	3.303	22.029	119685.681	118243.964	-1.219

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	28 Jul 2025 21:59
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069555.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.303	6.602	8223559.000	60.000	ug/ml
Aliphatic C12-C16	6.603	10.006	5506419.000	40.000	ug/ml
Aliphatic C16-C21	10.007	13.376	7854249.000	60.000	ug/ml
Aliphatic C21-C28	13.377	17.043	9541715.000	80.000	ug/ml
Aliphatic C28-C40	17.044	22.029	11960903.000	120.000	ug/ml
Aliphatic EPH	3.303	22.029	43086845.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069555.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 21:59
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: Jul 29 01:18:44 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 12:35:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.673	2920116	19.677 ug/ml
Spiked Amount 50.000		Recovery =	39.35%
12) S 1-chlorooctadecane (S...	13.108	2192305	19.399 ug/ml
Spiked Amount 50.000		Recovery =	38.80%
Target Compounds			
1) T n-Nonane (C9)	3.402	2684527	19.727 ug/ml
2) T n-Decane (C10)	4.475	2762863	19.851 ug/ml
3) T A~Naphthalene (C11.7)	6.071	2982565	19.738 ug/ml
4) T n-Dodecane (C12)	6.500	2776169	19.587 ug/ml
5) T A~2-methylnaphthalene...	7.131	2858941	19.569 ug/ml
6) T n-Tetradecane (C14)	8.300	2722647	19.149 ug/ml
7) T n-Hexadecane (C16)	9.904	2783772	19.072 ug/ml
8) T n-Octadecane (C18)	11.349	2749621	19.115 ug/ml
10) T n-Eicosane (C20)	12.661	2589483	19.288 ug/ml
11) T n-Heneicosane (C21)	13.274	2515145	19.363 ug/ml
13) T n-Docosane (C22)	13.862	2478674	19.516 ug/ml
14) T n-Tetracosane (C24)	14.966	2436836	19.965 ug/ml
15) T n-Hexacosane (C26)	15.989	2339115	20.133 ug/ml
16) T n-Octacosane (C28)	16.940	2287090	20.658 ug/ml
17) T n-Tricontane (C30)	17.829	2369191	21.637 ug/ml
18) T n-Dotriacontane (C32)	18.664	2360821	22.751 ug/ml
19) T n-Tetratriacontane (C34)	19.448	2143097	22.744 ug/ml
20) T n-Hexatriacontane (C36)	20.189	1836295	22.232 ug/ml
21) T n-Octatriacontane (C38)	20.956	1683959	22.171 ug/ml
22) T n-Tetracontane (C40)	21.920	1567540	21.400 ug/ml

(f)=RT Delta > 1/2 Window

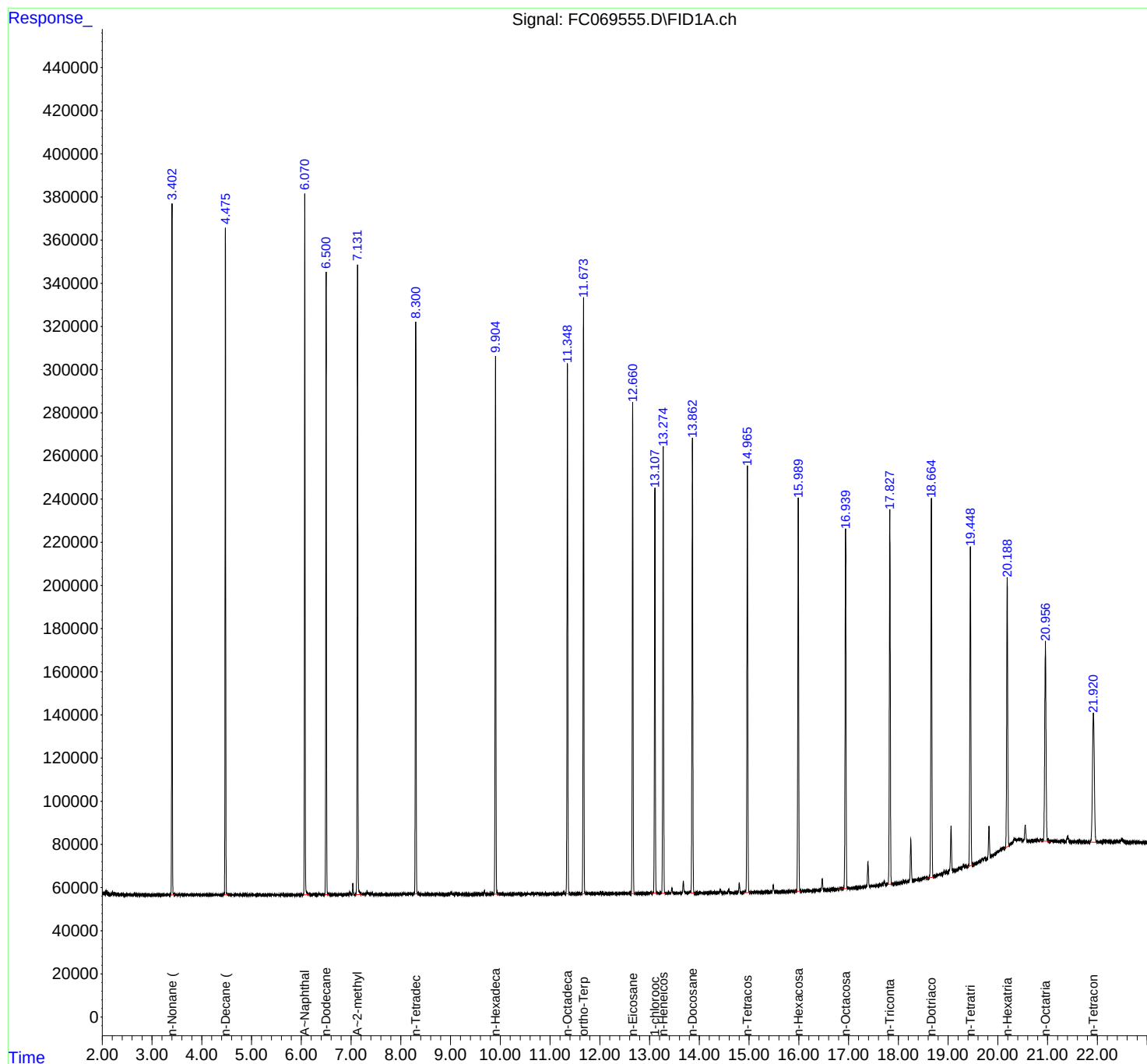
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
Data File : FC069555.D
Signal(s) : FID1A.ch
Acq On : 28 Jul 2025 21:59
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Jul 29 01:18:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 12:35:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069555.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 21:59
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.402	3.374	3.454	BB	320494	2684527	90.01%	4.968%
2	4.475	4.440	4.527	BB	309838	2762863	92.63%	5.113%
3	6.071	6.042	6.149	BB	324756	2982565	100.00%	5.519%
4	6.500	6.465	6.547	BB	287519	2776169	93.08%	5.137%
5	7.131	7.087	7.225	BB	290320	2858941	95.86%	5.290%
6	8.300	8.257	8.347	BB	264943	2722647	91.29%	5.038%
7	9.904	9.865	9.982	BB	249184	2783772	93.33%	5.151%
8	11.349	11.310	11.409	BB	245751	2749621	92.19%	5.088%
9	11.673	11.627	11.719	BB	274831	2920116	97.91%	5.404%
10	12.661	12.619	12.710	BB	227489	2589483	86.82%	4.792%
11	13.108	13.050	13.140	BB	187953	2192305	73.50%	4.057%
12	13.274	13.237	13.315	BB	207515	2515145	84.33%	4.654%
13	13.862	13.827	13.897	VB	210910	2478674	83.11%	4.587%
14	14.966	14.892	15.022	BB	197830	2436836	81.70%	4.509%
15	15.989	15.925	16.037	BB	182101	2339115	78.43%	4.328%
16	16.940	16.784	16.975	BB	165839	2287090	76.68%	4.232%
17	17.829	17.780	17.875	BB	172177	2369191	79.43%	4.384%
18	18.664	18.540	18.719	PB	174930	2360821	79.15%	4.369%
19	19.448	19.400	19.485	BB	147379	2143097	71.85%	3.966%
20	20.189	20.140	20.225	BV	124288	1836295	61.57%	3.398%
21	20.956	20.829	21.042	BB	92848	1683959	56.46%	3.116%
22	21.920	21.840	22.007	BB	59898	1567540	52.56%	2.901%
Sum of corrected areas:							54040771	

Aliphatic EPH 071525.M Tue Jul 29 01:52:46 2025

Continuing Calibration Report for SequenceID : FE072825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FE055046.D

Aliphatic C28-C40	13569433.000	120.000	17.463	22.490	113078.608	120488.802	6.150
Aliphatic EPH	43256454.000	360.000	3.324	22.490	120156.817	125173.222	4.008
Aliphatic C9-C12	7098023.000	60.000	3.324	6.959	118300.383	123975.587	4.578
Aliphatic C12-C16	5092912.000	40.000	6.960	10.413	127322.800	132914.920	4.207
Aliphatic C16-C21	7661007.000	60.000	10.414	13.792	127683.450	131135.111	2.632
Aliphatic C21-C28	9835079.000	80.000	13.793	17.462	122938.488	124755.813	1.457

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	28 Jul 2025 14:18
Client Sample ID:		Operator:	YP\AJ
Data file:	FE055046.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.324	6.959	7098023.000	60.000	ug/ml
Aliphatic C12-C16	6.960	10.413	5092912.000	40.000	ug/ml
Aliphatic C16-C21	10.414	13.792	7661007.000	60.000	ug/ml
Aliphatic C21-C28	13.793	17.462	9835079.000	80.000	ug/ml
Aliphatic C28-C40	17.463	22.490	13569433.000	120.000	ug/ml
Aliphatic EPH	3.324	22.490	43256454.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
 Data File : FE055046.D
 Signal(s) : FID1B.ch
 Acq On : 28 Jul 2025 14:18
 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: sample.E
 Quant Time: Jul 29 02:37:45 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:55:28 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	2874927	19.422 ug/ml
Spiked Amount 50.000		Recovery =	38.84%
12) S 1-chlorooctadecane (S...	13.525	2148917	19.190 ug/ml
Spiked Amount 50.000		Recovery =	38.38%
Target Compounds			
1) T n-Nonane (C9)	3.424	2304002	18.977 ug/ml
2) T n-Decane (C10)	4.683	2363550	19.096 ug/ml
3) T A~Naphthalene (C11.7)	6.403	2731816	19.193 ug/ml
4) T n-Dodecane (C12)	6.859	2430471	19.176 ug/ml
5) T A~2-methylnaphthalene...	7.504	2651865	19.192 ug/ml
6) T n-Tetradecane (C14)	8.696	2491419	18.974 ug/ml
7) T n-Hexadecane (C16)	10.312	2601493	19.339 ug/ml
8) T n-Octadecane (C18)	11.762	2646065	19.442 ug/ml
10) T n-Eicosane (C20)	13.077	2533142	19.465 ug/ml
11) T n-Heneicosane (C21)	13.691	2481800	19.516 ug/ml
13) T n-Docosane (C22)	14.280	2466342	19.545 ug/ml
14) T n-Tetracosane (C24)	15.386	2485220	19.830 ug/ml
15) T n-Hexacosane (C26)	16.409	2452899	19.854 ug/ml
16) T n-Octacosane (C28)	17.362	2430618	19.607 ug/ml
17) T n-Tricontane (C30)	18.252	2502294	19.095 ug/ml
18) T n-Dotriacontane (C32)	19.086	2462554	18.887 ug/ml
19) T n-Tetratriacontane (C34)	19.871	2345830	18.922 ug/ml
20) T n-Hexatriacontane (C36)	20.613	2159163	18.795 ug/ml
21) T n-Octatriacontane (C38)	21.395	2066492	18.387 ug/ml
22) T n-Tetracontane (C40)	22.388	2033100	18.438 ug/ml

(f)=RT Delta > 1/2 Window

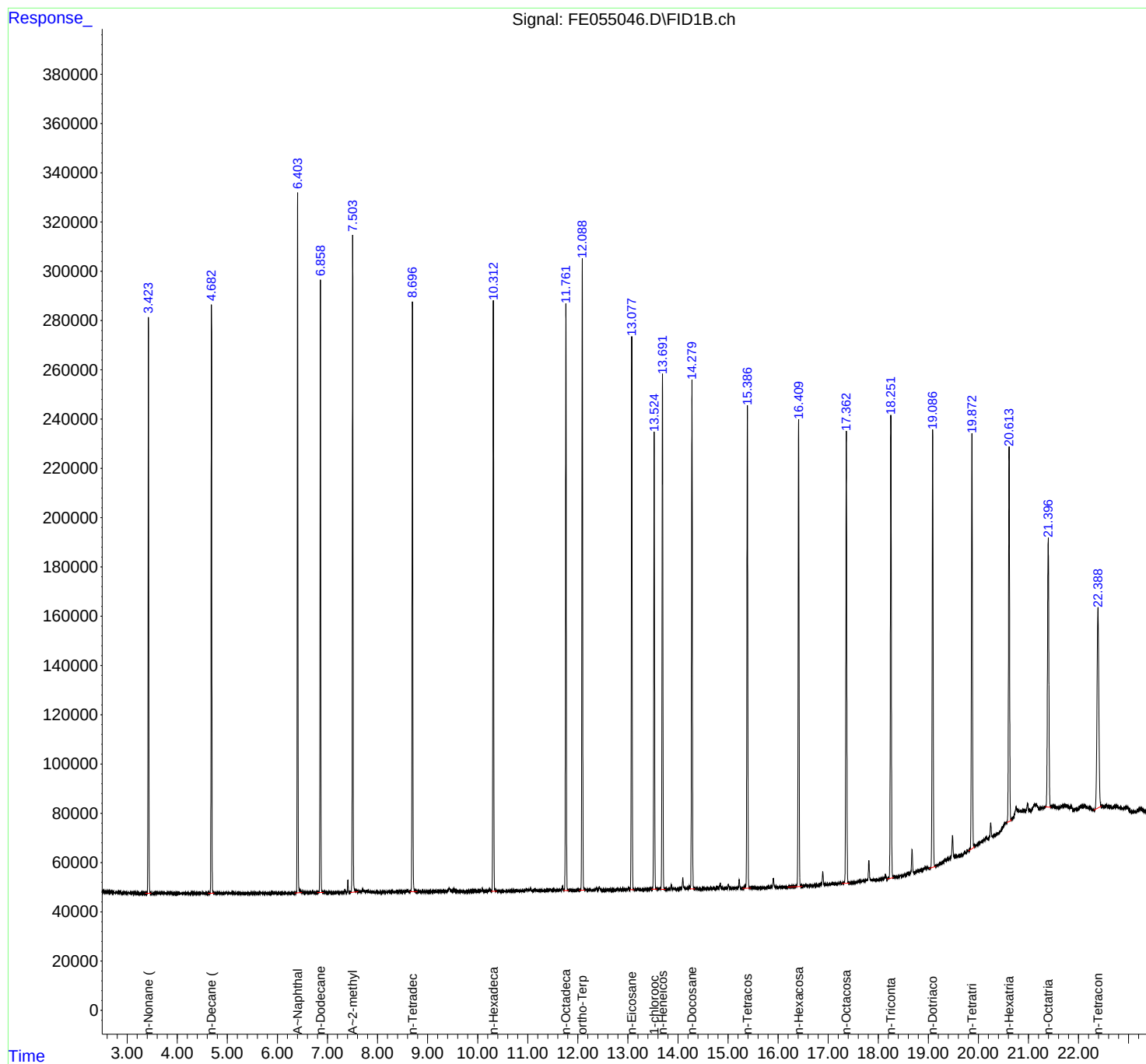
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
Data File : FE055046.D
Signal(s) : FID1B.ch
Acq On : 28 Jul 2025 14:18
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: sample.E
Quant Time: Jul 29 02:37:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:55:28 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\FE072825AL\
 Data File : FE055046.D
 Signal(s) : FID1B.ch
 Acq On : 28 Jul 2025 14:18
 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 072625.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	3.367	3.475	BB	233876	2304002	80.14%	4.293%
2	4.683	4.620	4.740	BB	238772	2363550	82.21%	4.404%
3	6.403	6.344	6.487	BB	283683	2731816	95.02%	5.091%
4	6.859	6.799	6.920	BB	248546	2430471	84.54%	4.529%
5	7.504	7.455	7.609	BB	266496	2651865	92.24%	4.942%
6	8.696	8.647	8.792	BB	240131	2491419	86.66%	4.643%
7	10.312	10.274	10.387	VB	238191	2601493	90.49%	4.848%
8	11.762	11.717	11.814	VB	237373	2646065	92.04%	4.931%
9	12.088	12.030	12.140	BB	256118	2874927	100.00%	5.357%
10	13.077	13.042	13.124	PB	223972	2533142	88.11%	4.720%
11	13.525	13.465	13.589	BB	184661	2148917	74.75%	4.004%
12	13.691	13.655	13.754	PB	209941	2481800	86.33%	4.625%
13	14.280	14.247	14.342	VB	206554	2466342	85.79%	4.596%
14	15.386	15.285	15.457	BB	195035	2485220	86.44%	4.631%
15	16.409	16.189	16.480	BB	188594	2452899	85.32%	4.571%
16	17.362	17.275	17.424	BB	183132	2430618	84.55%	4.529%
17	18.252	18.174	18.309	PB	186950	2502294	87.04%	4.663%
18	19.086	19.012	19.147	BB	176757	2462554	85.66%	4.589%
19	19.871	19.800	19.914	BV	168196	2345830	81.60%	4.371%
20	20.613	20.570	20.652	BV	152144	2159163	75.10%	4.023%
21	21.395	21.330	21.447	BV	109089	2066492	71.88%	3.851%
22	22.388	22.300	22.455	BV	80889	2033100	70.72%	3.789%
Sum of corrected areas:							53663977	

Aliphatic EPH 072625.M Tue Jul 29 03:53:47 2025

Continuing Calibration Report for SequenceID : FE072825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FE055055.D

Aliphatic C28-C40	14024627.000	120.000	17.463	22.490	116871.892	120488.802	3.002
Aliphatic EPH	43865425.000	360.000	3.324	22.490	121848.403	125173.222	2.656
Aliphatic C9-C12	7116058.000	60.000	3.324	6.959	118600.967	123975.587	4.335
Aliphatic C12-C16	5109090.000	40.000	6.960	10.413	127727.250	132914.920	3.903
Aliphatic C16-C21	7715073.000	60.000	10.414	13.792	128584.550	131135.111	1.945
Aliphatic C21-C28	9900577.000	80.000	13.793	17.462	123757.213	124755.813	0.800

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	28 Jul 2025 19:23
Client Sample ID:		Operator:	YP\AJ
Data file:	FE055055.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.324	6.959	7116058.000	60.000	ug/ml
Aliphatic C12-C16	6.960	10.413	5109090.000	40.000	ug/ml
Aliphatic C16-C21	10.414	13.792	7715073.000	60.000	ug/ml
Aliphatic C21-C28	13.793	17.462	9900577.000	80.000	ug/ml
Aliphatic C28-C40	17.463	22.490	14024627.000	120.000	ug/ml
Aliphatic EPH	3.324	22.490	43865425.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
 Data File : FE055055.D
 Signal(s) : FID1B.ch
 Acq On : 28 Jul 2025 19:23
 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: sample.E
 Quant Time: Jul 29 02:41:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:55:28 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	2898295	19.580 ug/ml
Spiked Amount 50.000		Recovery =	39.16%
12) S 1-chlorooctadecane (S...	13.526	2193598	19.589 ug/ml
Spiked Amount 50.000		Recovery =	39.18%
Target Compounds			
1) T n-Nonane (C9)	3.425	2304006	18.977 ug/ml
2) T n-Decane (C10)	4.684	2363198	19.093 ug/ml
3) T A~Naphthalene (C11.7)	6.404	2744666	19.284 ug/ml
4) T n-Dodecane (C12)	6.860	2448854	19.321 ug/ml
5) T A~2-methylnaphthalene...	7.505	2676594	19.370 ug/ml
6) T n-Tetradecane (C14)	8.698	2495645	19.006 ug/ml
7) T n-Hexadecane (C16)	10.313	2613445	19.428 ug/ml
8) T n-Octadecane (C18)	11.763	2659428	19.540 ug/ml
10) T n-Eicosane (C20)	13.077	2550560	19.599 ug/ml
11) T n-Heneicosane (C21)	13.692	2505085	19.699 ug/ml
13) T n-Docosane (C22)	14.280	2492722	19.754 ug/ml
14) T n-Tetracosane (C24)	15.387	2499514	19.944 ug/ml
15) T n-Hexacosane (C26)	16.411	2466361	19.963 ug/ml
16) T n-Octacosane (C28)	17.364	2441980	19.699 ug/ml
17) T n-Tricontane (C30)	18.253	2549294	19.454 ug/ml
18) T n-Dotriacontane (C32)	19.088	2511795	19.265 ug/ml
19) T n-Tetratriacontane (C34)	19.873	2364466	19.072 ug/ml
20) T n-Hexatriacontane (C36)	20.614	2255563	19.634 ug/ml
21) T n-Octatriacontane (C38)	21.395	2304240	20.502 ug/mlm
22) T n-Tetracontane (C40)	22.392	2039269	18.494 ug/ml

(f)=RT Delta > 1/2 Window

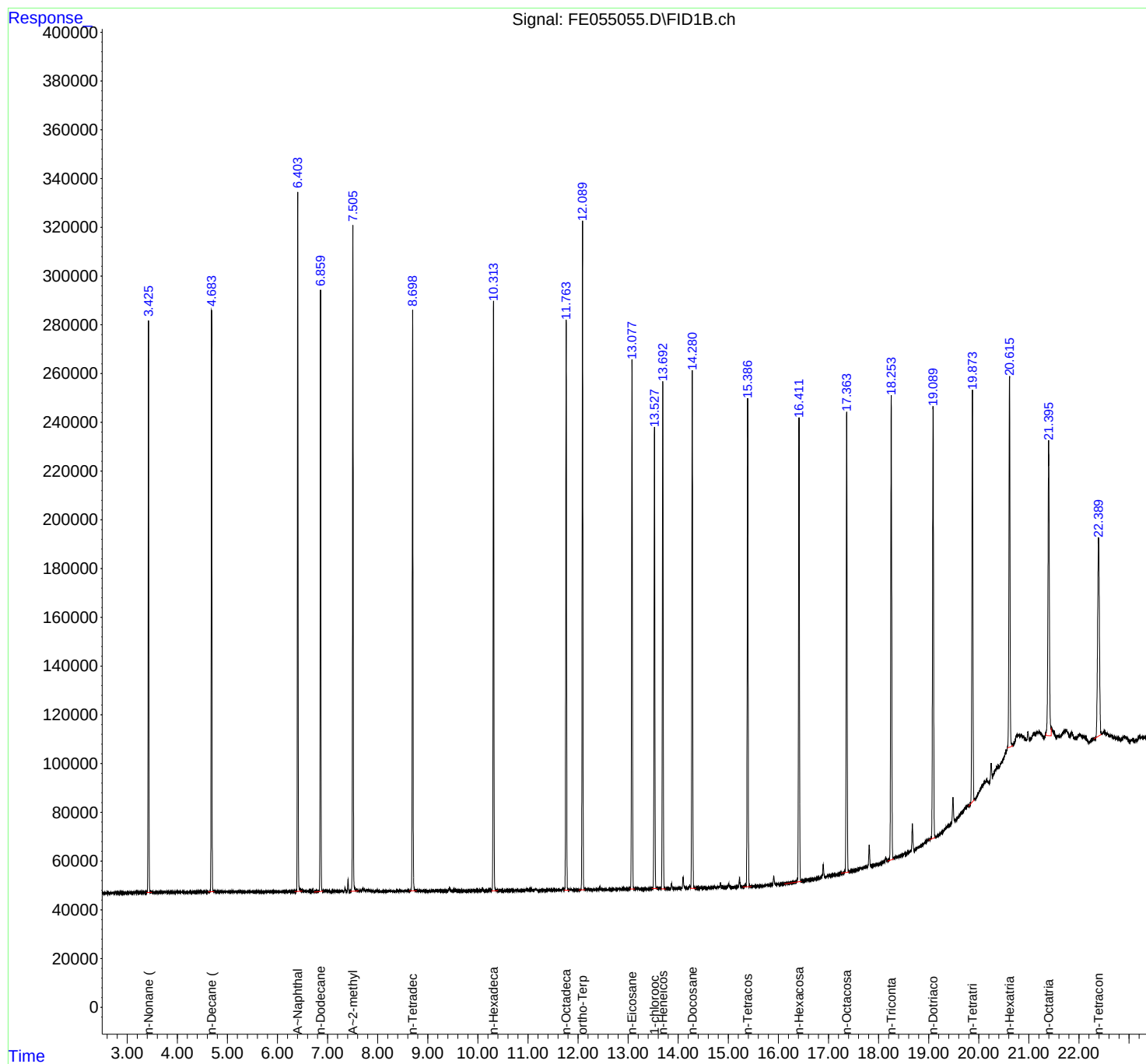
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072825AL\
Data File : FE055055.D
Signal(s) : FID1B.ch
Acq On : 28 Jul 2025 19:23
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: sample.E
Quant Time: Jul 29 02:41:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:55:28 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\FE072825AL\
 Data File : FE055055.D
 Signal(s) : FID1B.ch
 Acq On : 28 Jul 2025 19:23
 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 072625.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	3.393	3.490	BB	234796	2304006	79.50%	4.228%
2	4.684	4.620	4.735	BB	238869	2363198	81.54%	4.337%
3	6.404	6.343	6.497	BB	286026	2744666	94.70%	5.037%
4	6.860	6.738	6.910	BB	246802	2448854	84.49%	4.494%
5	7.505	7.455	7.617	BB	272351	2676594	92.35%	4.912%
6	8.698	8.635	8.778	BB	238981	2495645	86.11%	4.580%
7	10.313	10.277	10.400	BB	242880	2613445	90.17%	4.796%
8	11.763	11.722	11.830	BV	234731	2659428	91.76%	4.881%
9	12.090	12.022	12.142	BB	274817	2898295	100.00%	5.319%
10	13.077	13.037	13.130	BB	217923	2550560	88.00%	4.681%
11	13.526	13.468	13.583	BB	189954	2193598	75.69%	4.026%
12	13.692	13.655	13.748	PB	208092	2505085	86.43%	4.597%
13	14.280	14.246	14.357	VB	212135	2492722	86.01%	4.575%
14	15.387	15.287	15.453	BB	199726	2499514	86.24%	4.587%
15	16.411	16.122	16.460	BB	190579	2466361	85.10%	4.526%
16	17.364	17.250	17.418	BV	189060	2441980	84.26%	4.482%
17	18.253	18.173	18.300	VV	190977	2549294	87.96%	4.678%
18	19.088	19.000	19.135	BV	176690	2511795	86.66%	4.610%
19	19.873	19.800	19.912	BV	169275	2364466	81.58%	4.339%
20	20.614	20.570	20.672	BV	151912	2255563	77.82%	4.139%
21	21.396	21.330	21.538	BV	118861	2415831	83.35%	4.434%
22	22.392	22.300	22.450	BV	79759	2039269	70.36%	3.742%
Sum of corrected areas:							54490169	

Aliphatic EPH 072625.M Tue Jul 29 03:58:34 2025

Continuing Calibration Report for SequenceID : FE072925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FE055058.D

Aliphatic C9-C12	7325862.000	60.000	3.325	6.960	122097.700	123975.587	1.515
Aliphatic C12-C16	5242820.000	40.000	6.961	10.412	131070.500	132914.920	1.388
Aliphatic C16-C21	7929976.000	60.000	10.413	13.792	132166.267	131135.111	-0.786
Aliphatic C21-C28	10186540.000	80.000	13.793	17.463	127331.750	124755.813	-2.065
Aliphatic C28-C40	14319282.000	120.000	17.464	22.491	119327.350	120488.802	0.964
Aliphatic EPH	45004480.000	360.000	3.325	22.491	125012.444	125173.222	0.128

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	29 Jul 2025 08:57
Client Sample ID:		Operator:	YP\AJ
Data file:	FE055058.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	7325862.000	60.000	ug/ml
Aliphatic C12-C16	6.961	10.412	5242820.000	40.000	ug/ml
Aliphatic C16-C21	10.413	13.792	7929976.000	60.000	ug/ml
Aliphatic C21-C28	13.793	17.463	10186540.000	80.000	ug/ml
Aliphatic C28-C40	17.464	22.491	14319282.000	120.000	ug/ml
Aliphatic EPH	3.325	22.491	45004480.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072925AL\
 Data File : FE055058.D
 Signal(s) : FID1B.ch
 Acq On : 29 Jul 2025 08:57
 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: sample.E
 Quant Time: Jul 29 11:27:19 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:55:28 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	2982247	20.147 ug/ml
Spiked Amount 50.000		Recovery =	40.29%
12) S 1-chlorooctadecane (S...	13.526	2237305	19.979 ug/ml
Spiked Amount 50.000		Recovery =	39.96%
Target Compounds			
1) T n-Nonane (C9)	3.425	2379812	19.602 ug/ml
2) T n-Decane (C10)	4.683	2443147	19.739 ug/ml
3) T A~Naphthalene (C11.7)	6.404	2826227	19.857 ug/ml
4) T n-Dodecane (C12)	6.860	2502903	19.747 ug/ml
5) T A~2-methylnaphthalene...	7.505	2754717	19.936 ug/ml
6) T n-Tetradecane (C14)	8.698	2560257	19.498 ug/ml
7) T n-Hexadecane (C16)	10.312	2682563	19.941 ug/ml
8) T n-Octadecane (C18)	11.763	2733206	20.082 ug/ml
10) T n-Eicosane (C20)	13.078	2622689	20.153 ug/ml
11) T n-Heneicosane (C21)	13.692	2574081	20.242 ug/ml
13) T n-Docosane (C22)	14.280	2555978	20.255 ug/ml
14) T n-Tetracosane (C24)	15.387	2566072	20.475 ug/ml
15) T n-Hexacosane (C26)	16.411	2541919	20.575 ug/ml
16) T n-Octacosane (C28)	17.363	2522571	20.349 ug/ml
17) T n-Tricontane (C30)	18.253	2615338	19.957 ug/ml
18) T n-Dotriacontane (C32)	19.088	2569122	19.705 ug/ml
19) T n-Tetratriacontane (C34)	19.873	2422627	19.542 ug/ml
20) T n-Hexatriacontane (C36)	20.615	2266690	19.731 ug/ml
21) T n-Octatriacontane (C38)	21.396	2246730	19.991 ug/ml
22) T n-Tetracontane (C40)	22.391	2198775	19.941 ug/ml

(f)=RT Delta > 1/2 Window

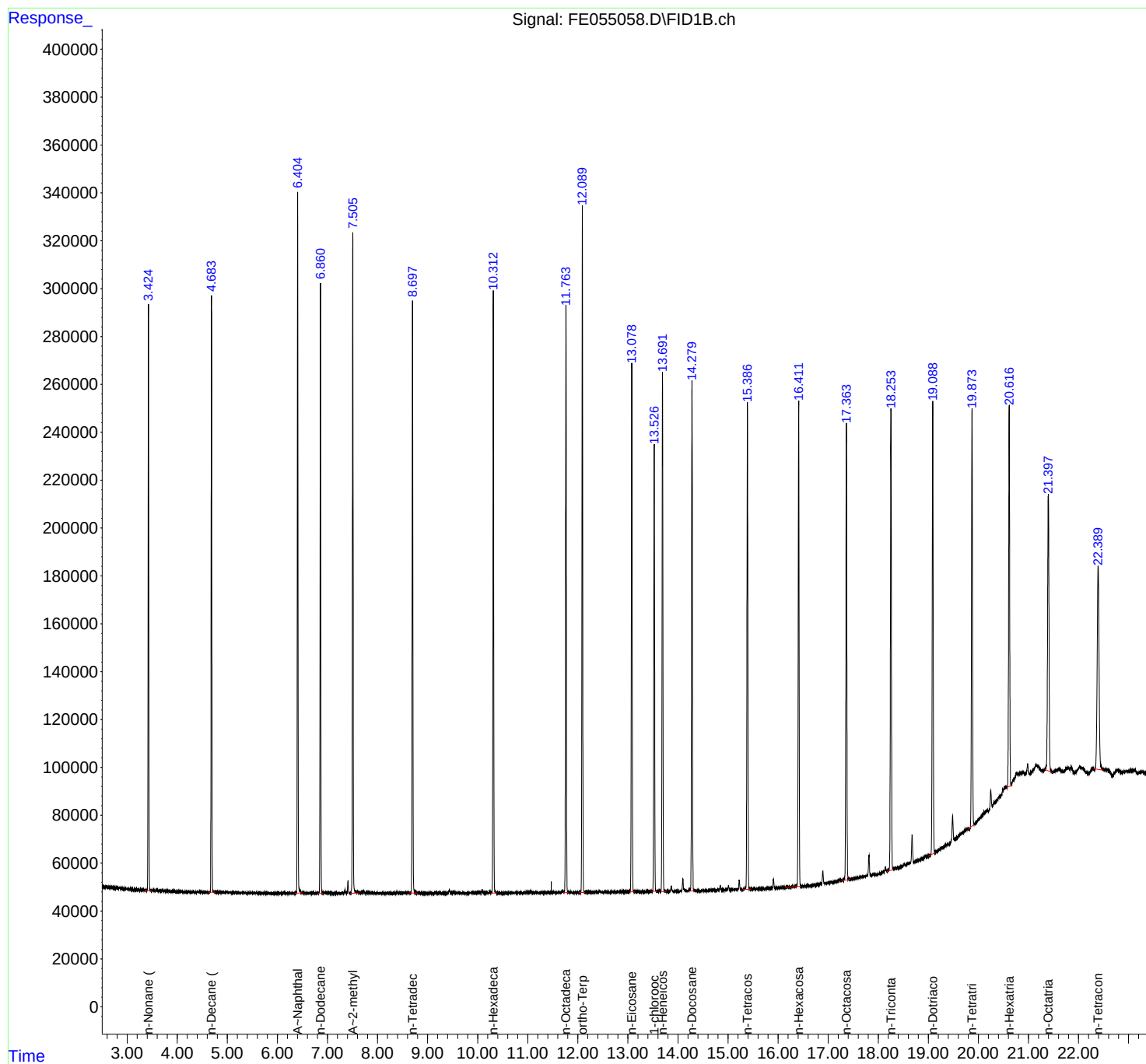
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072925AL\
Data File : FE055058.D
Signal(s) : FID1B.ch
Acq On : 29 Jul 2025 08:57
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: sample.E
Quant Time: Jul 29 11:27:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:55:28 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\FE072925AL\
 Data File : FE055058.D
 Signal(s) : FID1B.ch
 Acq On : 29 Jul 2025 08:57
 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 072625.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	3.362	3.485	BB	243864	2379812	79.80%	4.265%
2	4.683	4.632	4.755	BB	248998	2443147	81.92%	4.378%
3	6.404	6.352	6.500	BB	292172	2826227	94.77%	5.064%
4	6.860	6.804	6.915	BB	254607	2502903	83.93%	4.485%
5	7.505	7.455	7.630	BB	275624	2754717	92.37%	4.936%
6	8.698	8.637	8.799	BB	247100	2560257	85.85%	4.588%
7	10.312	10.274	10.382	BB	250199	2682563	89.95%	4.807%
8	11.763	11.717	11.810	VB	244282	2733206	91.65%	4.898%
9	12.090	12.024	12.147	BB	284803	2982247	100.00%	5.344%
10	13.078	13.040	13.129	BB	221224	2622689	87.94%	4.700%
11	13.526	13.469	13.585	BB	186833	2237305	75.02%	4.009%
12	13.692	13.654	13.764	VB	215680	2574081	86.31%	4.613%
13	14.280	14.246	14.337	VB	212213	2555978	85.71%	4.580%
14	15.387	15.295	15.450	BB	202547	2566072	86.04%	4.598%
15	16.411	16.140	16.450	BB	200809	2541919	85.24%	4.555%
16	17.363	17.262	17.432	BV	191142	2522571	84.59%	4.520%
17	18.253	18.170	18.294	PV	192727	2615338	87.70%	4.687%
18	19.088	19.000	19.134	BV	189960	2569122	86.15%	4.604%
19	19.873	19.800	19.910	BV	174570	2422627	81.23%	4.341%
20	20.615	20.570	20.662	BV	159157	2266690	76.01%	4.062%
21	21.396	21.330	21.477	BV	115473	2246730	75.34%	4.026%
22	22.391	22.300	22.499	BBA	84752	2198775	73.73%	3.940%
Sum of corrected areas:							55804975	

Aliphatic EPH 072625.M Tue Jul 29 11:38:25 2025

Continuing Calibration Report for SequenceID : FE072925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FE055065.D

Aliphatic C9-C12	7271021.000	60.000	3.325	6.960	121183.683	123975.587	2.252
Aliphatic C12-C16	5205576.000	40.000	6.961	10.412	130139.400	132914.920	2.088
Aliphatic C16-C21	7820807.000	60.000	10.413	13.792	130346.783	131135.111	0.601
Aliphatic C21-C28	10078718.000	80.000	13.793	17.463	125983.975	124755.813	-0.984
Aliphatic C28-C40	14383470.000	120.000	17.464	22.491	119862.250	120488.802	0.520
Aliphatic EPH	44759592.000	360.000	3.325	22.491	124332.200	125173.222	0.672

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	29 Jul 2025 13:10
Client Sample ID:		Operator:	YP\AJ
Data file:	FE055065.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	7271021.000	60.000	ug/ml
Aliphatic C12-C16	6.961	10.412	5205576.000	40.000	ug/ml
Aliphatic C16-C21	10.413	13.792	7820807.000	60.000	ug/ml
Aliphatic C21-C28	13.793	17.463	10078718.000	80.000	ug/ml
Aliphatic C28-C40	17.464	22.491	14383470.000	120.000	ug/ml
Aliphatic EPH	3.325	22.491	44759592.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072925AL\
 Data File : FE055065.D
 Signal(s) : FID1B.ch
 Acq On : 29 Jul 2025 13:10
 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: sample.E
 Quant Time: Jul 30 00:23:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
 Quant Title : GC Extractables
 QLast Update : Sat Jul 26 03:55:28 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	2939859	19.861 ug/ml
Spiked Amount 50.000		Recovery =	39.72%
12) S 1-chlorooctadecane (S...	13.525	2216945	19.797 ug/ml
Spiked Amount 50.000		Recovery =	39.59%
Target Compounds			
1) T n-Nonane (C9)	3.424	2359959	19.438 ug/ml
2) T n-Decane (C10)	4.683	2422613	19.573 ug/ml
3) T A~Naphthalene (C11.7)	6.403	2794597	19.634 ug/ml
4) T n-Dodecane (C12)	6.859	2488449	19.633 ug/ml
5) T A~2-methylnaphthalene...	7.504	2728701	19.748 ug/ml
6) T n-Tetradecane (C14)	8.696	2545239	19.384 ug/ml
7) T n-Hexadecane (C16)	10.312	2660337	19.776 ug/ml
8) T n-Octadecane (C18)	11.761	2695432	19.804 ug/ml
10) T n-Eicosane (C20)	13.076	2590437	19.906 ug/ml
11) T n-Heneicosane (C21)	13.691	2534938	19.934 ug/ml
13) T n-Docosane (C22)	14.279	2522979	19.994 ug/ml
14) T n-Tetracosane (C24)	15.385	2529675	20.185 ug/ml
15) T n-Hexacosane (C26)	16.410	2516173	20.366 ug/ml
16) T n-Octacosane (C28)	17.362	2509891	20.247 ug/ml
17) T n-Tricontane (C30)	18.252	2652279	20.239 ug/ml
18) T n-Dotriacontane (C32)	19.086	2616422	20.067 ug/ml
19) T n-Tetratriacontane (C34)	19.872	2471646	19.937 ug/ml
20) T n-Hexatriacontane (C36)	20.613	2318377	20.181 ug/ml
21) T n-Octatriacontane (C38)	21.394	2187288	19.462 ug/ml
22) T n-Tetracontane (C40)	22.389	2137458	19.385 ug/ml

(f)=RT Delta > 1/2 Window

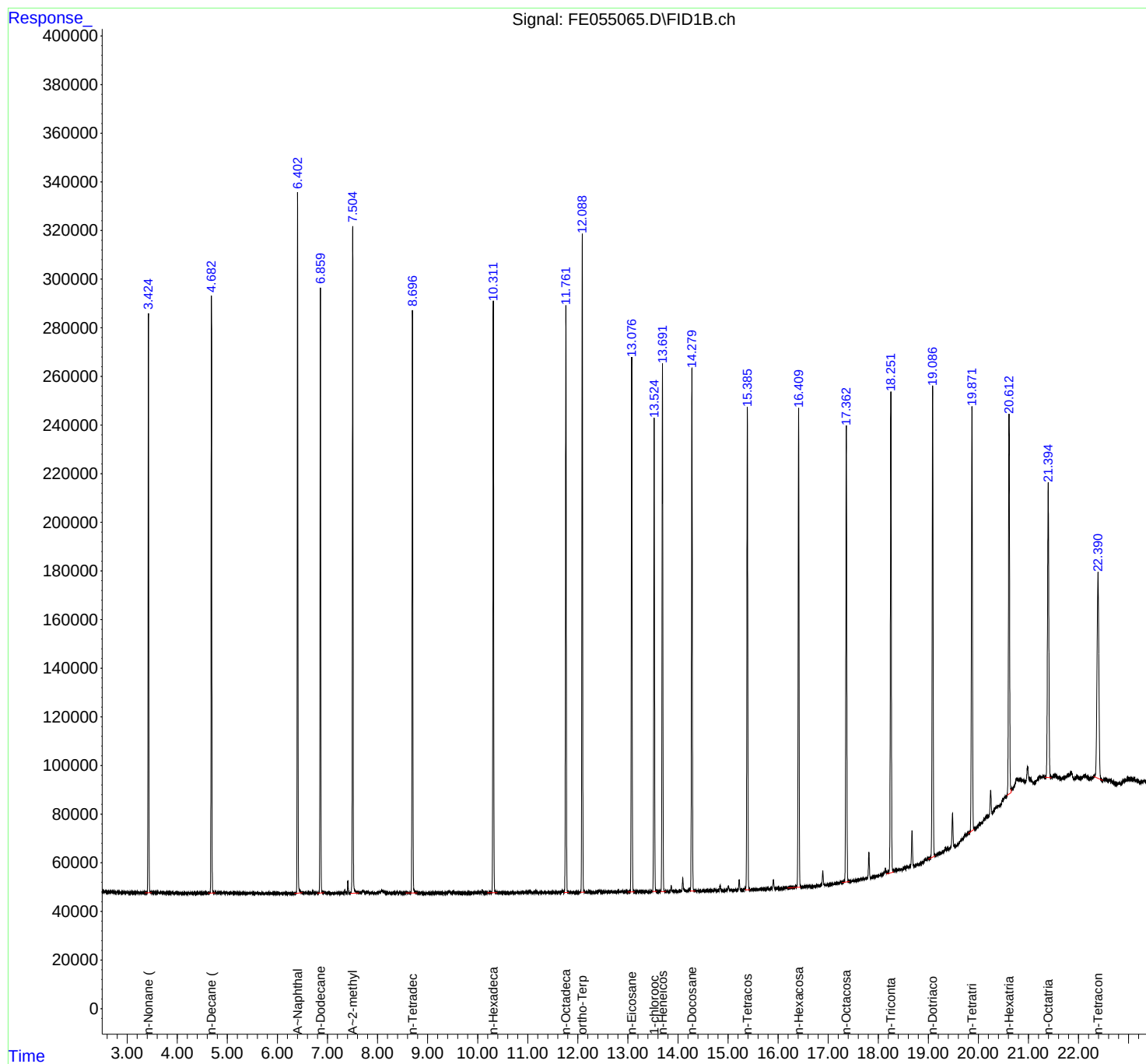
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE072925AL\
Data File : FE055065.D
Signal(s) : FID1B.ch
Acq On : 29 Jul 2025 13:10
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: sample.E
Quant Time: Jul 30 00:23:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 072625.M
Quant Title : GC Extractables
QLast Update : Sat Jul 26 03:55:28 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\FE072925AL\
 Data File : FE055065.D
 Signal(s) : FID1B.ch
 Acq On : 29 Jul 2025 13:10
 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 072625.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	3.359	3.487	BB	238092	2359959	80.27%	4.257%
2	4.683	4.620	4.755	BB	245865	2422613	82.41%	4.370%
3	6.403	6.339	6.495	BB	287389	2794597	95.06%	5.041%
4	6.859	6.802	6.925	BB	248745	2488449	84.65%	4.489%
5	7.504	7.454	7.625	BB	273879	2728701	92.82%	4.922%
6	8.696	8.560	8.790	BB	240335	2545239	86.58%	4.591%
7	10.312	10.195	10.395	BB	243062	2660337	90.49%	4.799%
8	11.761	11.727	11.812	BB	240765	2695432	91.69%	4.862%
9	12.088	12.052	12.142	BB	271151	2939859	100.00%	5.303%
10	13.076	12.999	13.137	BB	220732	2590437	88.11%	4.673%
11	13.525	13.487	13.580	BB	194288	2216945	75.41%	3.999%
12	13.691	13.653	13.762	PB	215481	2534938	86.23%	4.572%
13	14.279	14.247	14.349	VB	214999	2522979	85.82%	4.551%
14	15.385	15.350	15.440	VB	198302	2529675	86.05%	4.563%
15	16.410	16.189	16.450	BB	195999	2516173	85.59%	4.539%
16	17.362	17.275	17.424	BV	187199	2509891	85.37%	4.527%
17	18.252	18.171	18.300	VV	197231	2652279	90.22%	4.784%
18	19.086	19.000	19.135	BV	193345	2616422	89.00%	4.719%
19	19.872	19.800	19.910	BV	174379	2471646	84.07%	4.458%
20	20.613	20.570	20.654	BV	155803	2318377	78.86%	4.182%
21	21.394	21.330	21.462	BV	121263	2187288	74.40%	3.945%
22	22.389	22.300	22.485	BV	84309	2137458	72.71%	3.855%
Sum of corrected areas:							55439692	

Aliphatic EPH 072625.M Wed Jul 30 01:08:50 2025



QC SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Freehold	Date Received:	
Client Sample ID:	PB169021BL	SDG No.:	Q2705
Lab Sample ID:	PB169021BL	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
07/28/25 09:00	07/28/25 15:18	PB169021

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	FC069547.D
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	4.00	mg/kg	FC069547.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg	
Total EPH	Total EPH	2.09	U		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:	G Environmental	Date Collected:	
Project:	Freehold	Date Received:	
Client Sample ID:	PB169021BL	SDG No.:	Q2705
Lab Sample ID:	PB169021BL	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
FC069547.D	1	07/28/25	07/28/25	PB169021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	0.91	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.4		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.9		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169021BL	Acq On:	28 Jul 2025 15:18
Client Sample ID:	PB169021BL	Operator:	YP/AJ
Data file:	FC069547.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.602	0	0	300	ug/ml
Aliphatic C12-C16	6.603	10.006	0	0	200	ug/ml
Aliphatic C16-C21	10.007	13.376	0	0	300	ug/ml
Aliphatic C21-C28	13.377	17.043	0	0	400	ug/ml
Aliphatic C28-C40	17.044	22.029	0	0	600	ug/ml
Aliphatic EPH	3.303	22.029	0	0		ug/ml
ortho-Terphenyl (SURR)	11.676	11.676	5620598	37.87		ug/ml
1-chlorooctadecane (SURR)	13.111	13.111	4343627	38.44		ug/ml
Aliphatic C9-C28	3.303	17.043	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069547.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 15:18
 Operator : YP/AJ
 Sample : PB169021BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB169021BL

Integration File: sample.E
 Quant Time: Jul 29 01:15:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 12:35:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.676	5620598	37.873 ug/ml
Spiked Amount 50.000		Recovery =	75.75%
12) S 1-chlorooctadecane (S...	13.111	4343627	38.436 ug/ml
Spiked Amount 50.000		Recovery =	76.87%

Target Compounds

(f)=RT Delta > 1/2 Window

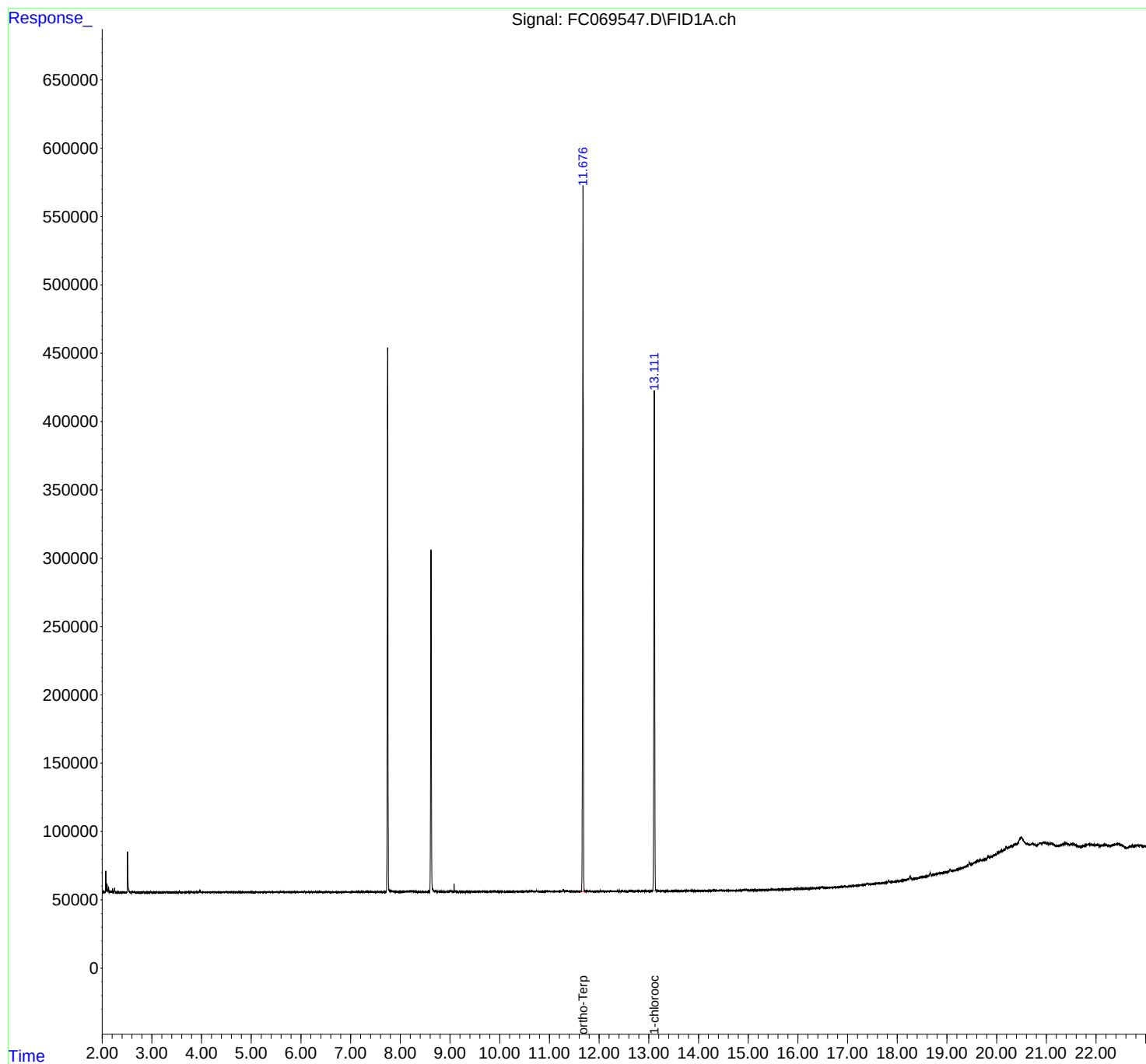
(m)=manual int.

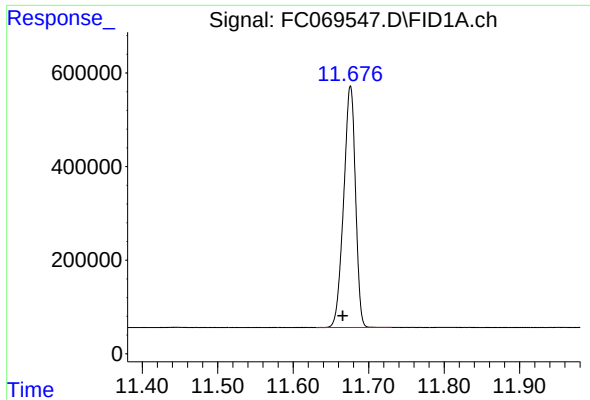
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
Data File : FC069547.D
Signal(s) : FID1A.ch
Acq On : 28 Jul 2025 15:18
Operator : YP/AJ
Sample : PB169021BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169021BL

Integration File: sample.E
Quant Time: Jul 29 01:15:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 12:35:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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

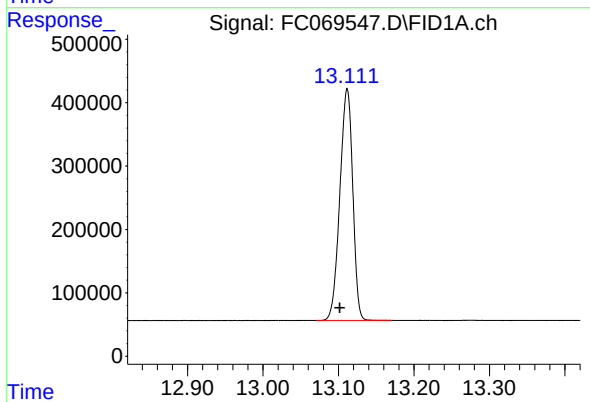




#9 ortho-Terphenyl (SURR)

R.T.: 11.676 min
Delta R.T.: 0.010 min
Response: 5620598
Conc: 37.87 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169021BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.111 min
Delta R.T.: 0.010 min
Response: 4343627
Conc: 38.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
Data File : FC069547.D
Signal(s) : FID1A.ch
Acq On : 28 Jul 2025 15:18
Sample : PB169021BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.676	11.630	11.730	BB	516735	5620598	100.00%	56.408%
2	13.111	13.070	13.170	BB	366378	4343627	77.28%	43.592%
Sum of corrected areas:						9964224		

Aliphatic EPH 071525.M Tue Jul 29 01:47:29 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Freehold	Date Received:	
Client Sample ID:	PB169021BS	SDG No.:	Q2705
Lab Sample ID:	PB169021BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
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
07/28/25 09:00	07/28/25 16:02	PB169021

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	28.2		1	1.18	2.00	mg/kg FC069548.D
Aliphatic C9-C28	Aliphatic C9-C28	64.4		1	0.91	3.99	mg/kg FC069548.D
Total AliphaticEPH	Total AliphaticEPH	92.6			2.09	5.99	mg/kg
Total EPH	Total EPH	92.6			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:	G Environmental	Date Collected:	
Project:	Freehold	Date Received:	
Client Sample ID:	PB169021BS	SDG No.:	Q2705
Lab Sample ID:	PB169021BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
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
FC069548.D	1	07/28/25	07/28/25	PB169021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	64.4		0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	28.2		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.6		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.8		40 - 140	70%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169021BS	Acq On:	28 Jul 2025 16:02
Client Sample ID:	PB169021BS	Operator:	YP/AJ
Data file:	FC069548.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.602	25723311	185.06	300	ug/ml
Aliphatic C12-C16	6.603	10.006	31555562	219.024	200	ug/ml
Aliphatic C16-C21	10.007	13.376	33042644	242.966	300	ug/ml
Aliphatic C21-C28	13.377	17.043	38024114	319.56	400	ug/ml
Aliphatic C28-C40	17.044	22.029	38094288	423.82	600	ug/ml
Aliphatic EPH	3.303	22.029	166439919	1390		ug/ml
ortho-Terphenyl (SURR)	11.676	11.676	5162985	34.79		ug/ml
1-chlorooctadecane (SURR)	13.112	13.112	4026589	35.63		ug/ml
Aliphatic C9-C28	3.303	17.043	128345631	966.61	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069548.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 16:02
 Operator : YP/AJ
 Sample : PB169021BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB169021BS

Integration File: sample.E
 Quant Time: Jul 29 01:16:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 12:35:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.676	5162985	34.790 ug/ml
Spiked Amount 50.000		Recovery =	69.58%
12) S 1-chlorooctadecane (S...	13.112	4026589	35.630 ug/ml
Spiked Amount 50.000		Recovery =	71.26%
Target Compounds			
1) T n-Nonane (C9)	3.412	4567665	33.566 ug/ml
2) T n-Decane (C10)	4.481	4943545	35.519 ug/ml
3) T A~Naphthalene (C11.7)	6.075	5686088	37.629 ug/ml
4) T n-Dodecane (C12)	6.503	5155873	36.377 ug/ml
5) T A~2-methylnaphthalene...	7.134	5230541	35.803 ug/ml
6) T n-Tetradecane (C14)	8.304	5066871	35.636 ug/ml
7) T n-Hexadecane (C16)	9.907	5039169	34.524 ug/ml
8) T n-Octadecane (C18)	11.353	4849922	33.716 ug/ml
10) T n-Eicosane (C20)	12.665	4814349	35.861 ug/ml
11) T n-Heneicosane (C21)	13.278	4541747	34.966 ug/ml
13) T n-Docosane (C22)	13.866	4425176	34.841 ug/ml
14) T n-Tetracosane (C24)	14.966	8556113	70.102 ug/ml
15) T n-Hexacosane (C26)	15.994	4072361	35.052 ug/ml
16) T n-Octacosane (C28)	16.945	3911425	35.329 ug/ml
17) T n-Tricontane (C30)	17.836	3941116	35.992 ug/ml
18) T n-Dotriacontane (C32)	18.668	3963764	38.198 ug/ml
19) T n-Tetratriacontane (C34)	19.453	4261790	45.228 ug/ml
20) T n-Hexatriacontane (C36)	20.195	4260697	51.583 ug/ml
21) T n-Octatriacontane (C38)	20.964	4469928	58.850 ug/ml
22) T n-Tetracontane (C40)	21.931	4463622	60.938 ug/ml

(f)=RT Delta > 1/2 Window

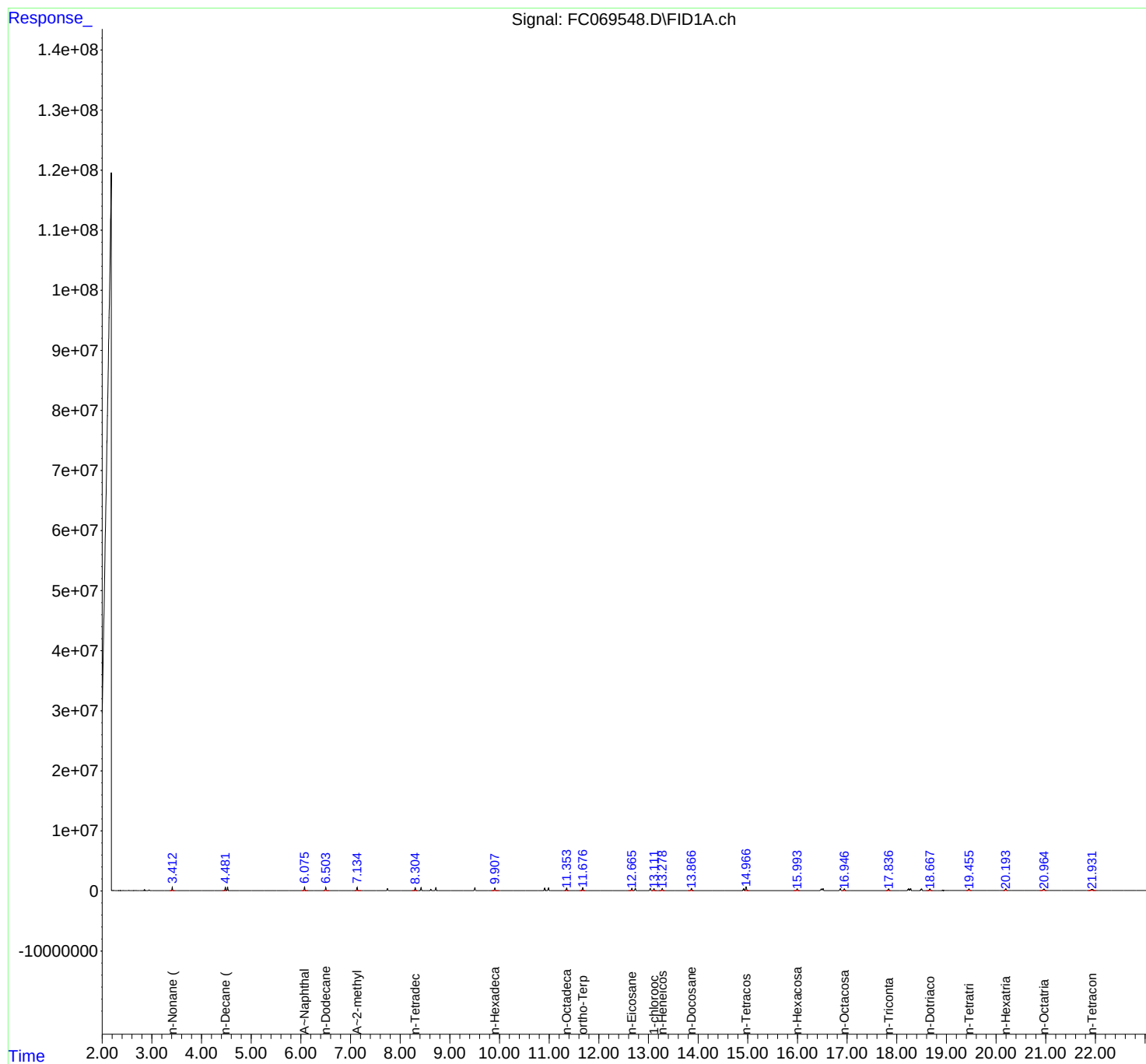
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
Data File : FC069548.D
Signal(s) : FID1A.ch
Acq On : 28 Jul 2025 16:02
Operator : YP/AJ
Sample : PB169021BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169021BS

Integration File: sample.E
Quant Time: Jul 29 01:16:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 12:35:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
Data File : FC069548.D
Signal(s) : FID1A.ch
Acq On : 28 Jul 2025 16:02
Sample : PB169021BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.412	3.359	3.459	BB	558121	4567665	53.38%	2.601%
2	4.481	4.425	4.503	BV	560348	4943545	57.78%	2.815%
3	4.526	4.503	4.568	VV	616060	5370140	62.76%	3.058%
4	6.075	6.012	6.145	BB	628161	5686088	66.46%	3.238%
5	6.503	6.449	6.565	BB	529872	5155873	60.26%	2.936%
6	7.134	7.084	7.215	BB	527978	5230541	61.13%	2.978%
7	8.304	8.240	8.347	BB	499974	5066871	59.22%	2.885%
8	8.421	8.354	8.475	BB	542795	5453137	63.73%	3.105%
9	8.719	8.682	8.772	BB	525747	5440366	63.58%	3.098%
10	9.505	9.444	9.584	BB	508204	5325478	62.24%	3.032%
11	9.907	9.840	9.985	BB	459759	5039169	58.90%	2.869%
12	10.911	10.835	10.950	BV	449346	4900417	57.27%	2.790%
13	10.988	10.950	11.044	VB	458975	4853032	56.72%	2.763%
14	11.353	11.310	11.392	BB	430016	4849922	56.68%	2.761%
15	11.676	11.609	11.725	BB	482753	5162985	60.34%	2.940%
16	12.665	12.595	12.700	BV	419094	4814349	56.27%	2.741%
17	12.736	12.700	12.792	VB	402216	4552883	53.21%	2.592%
18	13.037	12.964	13.065	BV	408409	4530294	52.95%	2.579%
19	13.112	13.065	13.165	VB	338809	4026589	47.06%	2.293%
20	13.278	13.209	13.327	BB	373599	4541747	53.08%	2.586%
21	13.866	13.795	13.917	BB	371011	4425176	51.72%	2.520%
22	14.918	14.845	14.938	BV	342180	4293912	50.19%	2.445%
23	14.966	14.938	15.024	VB	645391	8556113	100.00%	4.872%
24	15.994	15.920	16.049	BB	322668	4072361	47.60%	2.319%
25	16.481	16.407	16.497	BV	302177	4311459	50.39%	2.455%
26	16.517	16.497	16.559	VB	359948	4248729	49.66%	2.419%
27	16.864	16.790	16.900	BV	338237	4204939	49.15%	2.394%
28	16.945	16.900	16.979	VV	281564	3911425	45.71%	2.227%
29	17.836	17.780	17.874	BB	290763	3941116	46.06%	2.244%
30	18.241	18.057	18.256	BV	302211	4553030	53.21%	2.592%
31	18.278	18.256	18.339	VB	323920	4122902	48.19%	2.347%
32	18.498	18.419	18.535	BB	293421	4057439	47.42%	2.310%
33	18.668	18.595	18.719	BV	292093	3963764	46.33%	2.257%
34	19.453	19.400	19.509	BB	286292	4261790	49.81%	2.427%
35	20.195	20.140	20.233	BV	279468	4260697	49.80%	2.426%
36	20.964	20.880	21.014	BB	246569	4469928	52.24%	2.545%

37 21.931 21.840 22.017 BB rteres 178968 4463622 52.17% 2.541%
Sum of corrected areas: 175629493

Aliphatic EPH 071525.M Tue Jul 29 01:48:51 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Freehold	Date Received:	
Client Sample ID:	PB169021BSD	SDG No.:	Q2705
Lab Sample ID:	PB169021BSD	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
07/28/25 09:00	07/28/25 16:46	PB169021

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	28.1		1	1.18	2.00	mg/kg	FC069549.D
Aliphatic C9-C28	Aliphatic C9-C28	63.4		1	0.91	3.99	mg/kg	FC069549.D
Total AliphaticEPH	Total AliphaticEPH	91.5			2.09	5.99	mg/kg	
Total EPH	Total EPH	91.5			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:	G Environmental	Date Collected:	
Project:	Freehold	Date Received:	
Client Sample ID:	PB169021BSD	SDG No.:	Q2705
Lab Sample ID:	PB169021BSD	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
FC069549.D	1	07/28/25	07/28/25	PB169021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	63.4		0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	28.1		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.3		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.5		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169021BSD	Acq On:	28 Jul 2025 16:46
Client Sample ID:	PB169021BSD	Operator:	YP/AJ
Data file:	FC069549.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.602	24866102	178.893	300	ug/ml
Aliphatic C12-C16	6.603	10.006	30943675	214.777	200	ug/ml
Aliphatic C16-C21	10.007	13.376	32746815	240.791	300	ug/ml
Aliphatic C21-C28	13.377	17.043	37824915	317.886	400	ug/ml
Aliphatic C28-C40	17.044	22.029	37917988	421.859	600	ug/ml
Aliphatic EPH	3.303	22.029	164299495	1370		ug/ml
ortho-Terphenyl (SURR)	11.676	11.676	5112813	34.45		ug/ml
1-chlorooctadecane (SURR)	13.111	13.111	3985231	35.26		ug/ml
Aliphatic C9-C28	3.303	17.043	126381507	952.347	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069549.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 16:46
 Operator : YP/AJ
 Sample : PB169021BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB169021BSD

Integration File: sample.E
 Quant Time: Jul 29 01:16:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 12:35:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.676	5112813	34.452 ug/ml
Spiked Amount 50.000		Recovery =	68.90%
12) S 1-chlorooctadecane (S...	13.111	3985231	35.264 ug/ml
Spiked Amount 50.000		Recovery =	70.53%
Target Compounds			
1) T n-Nonane (C9)	3.410	4402803	32.354 ug/ml
2) T n-Decane (C10)	4.480	4760370	34.203 ug/ml
3) T A~Naphthalene (C11.7)	6.074	5534159	36.624 ug/ml
4) T n-Dodecane (C12)	6.504	4976996	35.115 ug/ml
5) T A~2-methylnaphthalene...	7.134	5109023	34.971 ug/ml
6) T n-Tetradecane (C14)	8.304	4919496	34.599 ug/ml
7) T n-Hexadecane (C16)	9.907	4925268	33.743 ug/ml
8) T n-Octadecane (C18)	11.353	4763530	33.115 ug/ml
10) T n-Eicosane (C20)	12.665	4753096	35.405 ug/ml
11) T n-Heneicosane (C21)	13.278	4492029	34.583 ug/ml
13) T n-Docosane (C22)	13.865	4382972	34.509 ug/ml
14) T n-Tetracosane (C24)	14.965	8508980	69.716 ug/ml
15) T n-Hexacosane (C26)	15.993	4050568	34.864 ug/ml
16) T n-Octacosane (C28)	16.945	3898239	35.210 ug/ml
17) T n-Tricontane (C30)	17.835	3934336	35.930 ug/ml
18) T n-Dotriacontane (C32)	18.668	3962034	38.181 ug/ml
19) T n-Tetratriacontane (C34)	19.454	4243501	45.034 ug/ml
20) T n-Hexatriacontane (C36)	20.195	4240633	51.340 ug/ml
21) T n-Octatriacontane (C38)	20.964	4444891	58.521 ug/ml
22) T n-Tetracontane (C40)	21.934	4400217	60.072 ug/ml

(f)=RT Delta > 1/2 Window

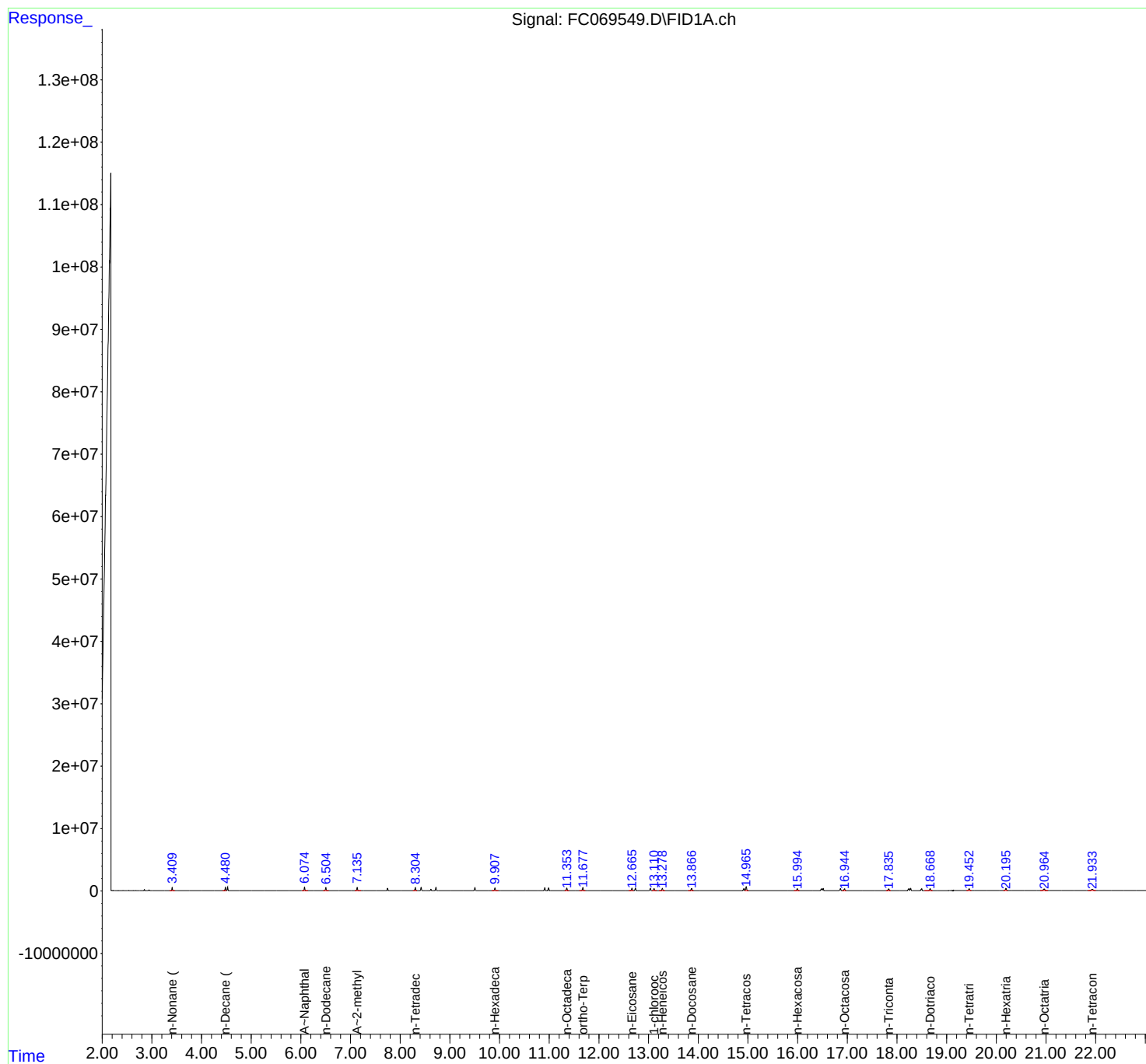
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
Data File : FC069549.D
Signal(s) : FID1A.ch
Acq On : 28 Jul 2025 16:46
Operator : YP/AJ
Sample : PB169021BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169021BSD

Integration File: sample.E
Quant Time: Jul 29 01:16:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 12:35:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069549.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 16:46
 Sample : PB169021BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.410	3.355	3.464	BB	534655	4402803	51.74%	2.539%
2	4.480	4.427	4.502	BV	543713	4760370	55.95%	2.745%
3	4.525	4.502	4.568	VV	603279	5191774	61.02%	2.994%
4	6.074	6.022	6.142	BB	588035	5534159	65.04%	3.192%
5	6.504	6.447	6.560	BB	502087	4976996	58.49%	2.870%
6	7.134	7.084	7.214	BB	534157	5109023	60.04%	2.946%
7	8.304	8.255	8.339	BB	475622	4919496	57.82%	2.837%
8	8.421	8.355	8.474	BB	538007	5368830	63.10%	3.096%
9	8.719	8.682	8.772	BB	545919	5354252	62.92%	3.088%
10	9.504	9.445	9.579	BB	512214	5266806	61.90%	3.037%
11	9.907	9.842	9.977	BB	444891	4925268	57.88%	2.840%
12	10.911	10.832	10.952	BV	462139	4870906	57.24%	2.809%
13	10.987	10.952	11.045	VV	449243	4827966	56.74%	2.784%
14	11.353	11.310	11.399	BB	417616	4763530	55.98%	2.747%
15	11.676	11.607	11.729	BB	464208	5112813	60.09%	2.949%
16	12.665	12.599	12.699	BV	408604	4753096	55.86%	2.741%
17	12.736	12.699	12.799	VB	403112	4531656	53.26%	2.613%
18	13.036	12.964	13.067	BV	407608	4507632	52.98%	2.600%
19	13.111	13.067	13.165	VB	337257	3985231	46.84%	2.298%
20	13.278	13.209	13.332	BB	369763	4492029	52.79%	2.591%
21	13.865	13.795	13.907	BB	356808	4382972	51.51%	2.528%
22	14.919	14.849	14.938	BV	328788	4277846	50.27%	2.467%
23	14.965	14.938	15.015	VB	641465	8508980	100.00%	4.907%
24	15.993	15.925	16.040	BB	319503	4050568	47.60%	2.336%
25	16.480	16.407	16.497	BV	287542	4281762	50.32%	2.469%
26	16.515	16.497	16.560	VB	368043	4238150	49.81%	2.444%
27	16.863	16.785	16.895	BV	322945	4186398	49.20%	2.414%
28	16.945	16.895	16.977	VV	294873	3898239	45.81%	2.248%
29	17.835	17.780	17.875	BB	277350	3934336	46.24%	2.269%
30	18.240	18.165	18.255	BV	303648	4523207	53.16%	2.609%
31	18.277	18.255	18.329	VB	333328	4127647	48.51%	2.380%
32	18.498	18.422	18.542	BB	291167	4041522	47.50%	2.331%
33	18.668	18.554	18.717	BB	284253	3962034	46.56%	2.285%
34	19.454	19.400	19.500	BB	280497	4243501	49.87%	2.447%
35	20.195	20.140	20.229	BB	294536	4240633	49.84%	2.446%
36	20.964	20.884	21.042	BB	239361	4444891	52.24%	2.563%

rters
37 21.934 21.840 22.005 BB 171051 4400217 51.71% 2.538%
Sum of corrected areas: 173397537

Aliphatic EPH 071525.M Tue Jul 29 01:50:17 2025

Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	Freehold		Date Received:		
Client Sample ID:	RT-5417MS		SDG No.:	Q2705	
Lab Sample ID:	Q2706-01MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	92.2	
Sample Wt/Vol:	30.05	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
07/28/25 09:00	07/28/25 19:02	PB169021

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	42.5		1	1.28	2.17	mg/kg	FC069552.D
Aliphatic C9-C28	Aliphatic C9-C28	84.7		1	0.99	4.32	mg/kg	FC069552.D
Total AliphaticEPH	Total AliphaticEPH	127			2.27	6.49	mg/kg	
Total EPH	Total EPH	127			2.27	6.49	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:	G Environmental	Date Collected:	
Project:	Freehold	Date Received:	
Client Sample ID:	RT-5417MS	SDG No.:	Q2705
Lab Sample ID:	Q2706-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.05 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
FC069552.D	1	07/28/25	07/28/25	PB169021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	84.7		0.99	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	42.5		1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.1		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.4		40 - 140	71%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2706-01MS	Acq On:	28 Jul 2025 19:02
Client Sample ID:	RT-5417MS	Operator:	YP/AJ
Data file:	FC069552.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.602	23622062	169.944	300	ug/ml
Aliphatic C12-C16	6.603	10.006	33482574	232.399	200	ug/ml
Aliphatic C16-C21	10.007	13.376	49994136	367.612	300	ug/ml
Aliphatic C21-C28	13.377	17.043	47993099	403.34	400	ug/ml
Aliphatic C28-C40	17.044	22.029	52965934	589.275	600	ug/ml
Aliphatic EPH	3.303	22.029	208057805	1760		ug/ml
ortho-Terphenyl (SURR)	11.676	11.676	5251696	35.39		ug/ml
1-chlorooctadecane (SURR)	13.111	13.111	4195405	37.12		ug/ml
Aliphatic C9-C28	3.303	17.043	155091871	1170	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069552.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 19:02
 Operator : YP/AJ
 Sample : Q2706-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 RT-5417MS

Integration File: sample.E
 Quant Time: Jul 29 01:17:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 12:35:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.676	5251696	35.388 ug/ml
Spiked Amount 50.000		Recovery =	70.78%
12) S 1-chlorooctadecane (S...	13.111	4195405	37.124 ug/ml
Spiked Amount 50.000		Recovery =	74.25%
Target Compounds			
1) T n-Nonane (C9)	3.405	3872076	28.454 ug/ml
2) T n-Decane (C10)	4.478	4390813	31.547 ug/ml
3) T A~Naphthalene (C11.7)	6.073	5262335	34.825 ug/ml
4) T n-Dodecane (C12)	6.502	4704065	33.189 ug/ml
5) T A~2-methylnaphthalene...	7.133	4993412	34.179 ug/ml
6) T n-Tetradecane (C14)	8.303	4901494	34.473 ug/ml
7) T n-Hexadecane (C16)	9.907	5347019	36.633 ug/ml
8) T n-Octadecane (C18)	11.353	5490327	38.168 ug/ml
10) T n-Eicosane (C20)	12.665	5612962	41.810 ug/ml
11) T n-Heneicosane (C21)	13.277	5326329	41.006 ug/ml
13) T n-Docosane (C22)	13.866	5219579	41.096 ug/ml
14) T n-Tetracosane (C24)	14.966	10130558	83.002 ug/ml
15) T n-Hexacosane (C26)	15.994	4848200	41.730 ug/ml
16) T n-Octacosane (C28)	16.944	4643584	41.943 ug/ml
17) T n-Tricontane (C30)	17.834	4559541	41.640 ug/ml
18) T n-Dotriacontane (C32)	18.668	4481465	43.187 ug/ml
19) T n-Tetratriacontane (C34)	19.454	4453562	47.264 ug/ml
20) T n-Hexatriacontane (C36)	20.194	4029493	48.784 ug/ml
21) T n-Octatriacontane (C38)	20.963	3955486	52.077 ug/ml
22) T n-Tetracontane (C40)	21.929	3747290	51.159 ug/ml

(f)=RT Delta > 1/2 Window

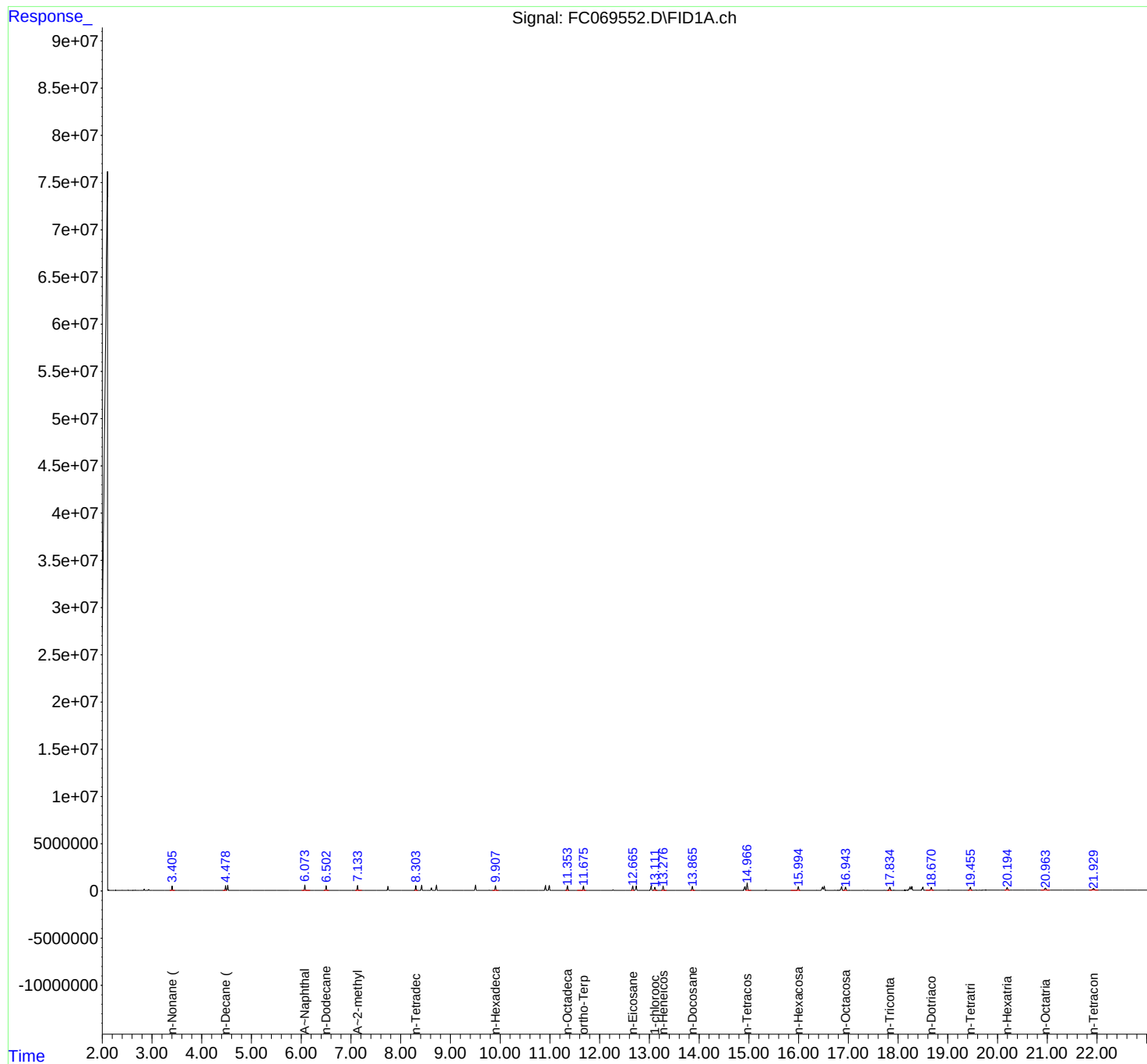
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
Data File : FC069552.D
Signal(s) : FID1A.ch
Acq On : 28 Jul 2025 19:02
Operator : YP/AJ
Sample : Q2706-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
RT-5417MS

Integration File: sample.E
Quant Time: Jul 29 01:17:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 12:35:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069552.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 19:02
 Sample : Q2706-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.230	3.204	3.241	BV	227	3096	0.03%	0.001%
2	3.256	3.241	3.278	VV	474	6370	0.06%	0.003%
3	3.288	3.278	3.314	VV	357	6096	0.06%	0.003%
4	3.327	3.314	3.348	VV	174	1585	0.02%	0.001%
5	3.357	3.348	3.378	PV	60	882	0.01%	0.000%
6	3.405	3.378	3.494	VV	466465	3885761	38.24%	1.867%
7	3.508	3.494	3.516	VV	221	2543	0.03%	0.001%
8	3.553	3.516	3.578	VV	1549	19197	0.19%	0.009%
9	3.584	3.578	3.597	VV	287	2600	0.03%	0.001%
10	3.609	3.597	3.630	VV	325	4022	0.04%	0.002%
11	3.648	3.630	3.661	VV	263	3311	0.03%	0.002%
12	3.696	3.661	3.748	VV	1967	33794	0.33%	0.016%
13	3.755	3.748	3.774	VV	417	5408	0.05%	0.003%
14	3.790	3.774	3.838	VV	3914	36692	0.36%	0.018%
15	3.848	3.838	3.868	VV	309	2505	0.02%	0.001%
16	3.887	3.868	3.938	VV	3184	33273	0.33%	0.016%
17	3.969	3.938	4.024	VV	2865	31927	0.31%	0.015%
18	4.081	4.024	4.093	VV	382	8000	0.08%	0.004%
19	4.105	4.093	4.158	VV	862	14570	0.14%	0.007%
20	4.177	4.158	4.197	VV	377	7079	0.07%	0.003%
21	4.238	4.197	4.349	VV	733	31144	0.31%	0.015%
22	4.370	4.349	4.386	VV	322	5213	0.05%	0.003%
23	4.400	4.386	4.412	VV	307	3286	0.03%	0.002%
24	4.478	4.412	4.500	VV	492676	4402916	43.33%	2.116%
25	4.522	4.500	4.566	VV	530882	4729405	46.55%	2.272%
26	4.583	4.566	4.604	VV	5062	51478	0.51%	0.025%
27	4.629	4.604	4.672	VV	8411	84532	0.83%	0.041%
28	4.693	4.672	4.714	VV	443	8392	0.08%	0.004%
29	4.731	4.714	4.749	VV	495	6231	0.06%	0.003%
30	4.761	4.749	4.787	VV	365	4560	0.04%	0.002%
31	4.812	4.787	4.837	VV	328	5491	0.05%	0.003%
32	4.853	4.837	4.884	VV	204	3831	0.04%	0.002%
33	4.897	4.884	4.924	VV	218	3440	0.03%	0.002%
34	4.955	4.924	5.058	VV	244	10367	0.10%	0.005%
35	5.071	5.058	5.092	VV	158	2679	0.03%	0.001%
36	5.115	5.092	5.148	VV	236	6718	0.07%	0.003%

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37	5.154	5.148	5.184	VV	237	3462	0.03%	0.002%
38	5.195	5.184	5.240	VV	184	4981	0.05%	0.002%
39	5.278	5.240	5.293	VV	126	2222	0.02%	0.001%
40	5.333	5.293	5.353	PV	442	5525	0.05%	0.003%
41	5.368	5.353	5.382	VV	76	1131	0.01%	0.001%
42	5.395	5.382	5.428	VV	148	1879	0.02%	0.001%
43	5.449	5.428	5.492	VV	138	2141	0.02%	0.001%
44	5.516	5.492	5.534	VV	1582	15691	0.15%	0.008%
45	5.545	5.534	5.551	VV	261	1891	0.02%	0.001%
46	5.570	5.551	5.597	VV	336	6031	0.06%	0.003%
47	5.621	5.597	5.671	VV	406	8361	0.08%	0.004%
48	5.701	5.671	5.733	VV	224	5797	0.06%	0.003%
49	5.750	5.733	5.774	VV	285	4879	0.05%	0.002%
50	5.788	5.774	5.798	VV	235	2688	0.03%	0.001%
51	5.816	5.798	5.838	VV	225	4134	0.04%	0.002%
52	5.857	5.838	5.884	VV	251	4004	0.04%	0.002%
53	5.932	5.884	5.941	VV	209	4411	0.04%	0.002%
54	5.966	5.941	5.987	VV	192	4141	0.04%	0.002%
55	5.998	5.987	6.008	VV	192	1947	0.02%	0.001%
56	6.020	6.008	6.030	VV	233	2465	0.02%	0.001%
57	6.073	6.030	6.194	VV	566916	5285445	52.02%	2.540%
58	6.216	6.194	6.237	VV	559	10112	0.10%	0.005%
59	6.247	6.237	6.275	VV	480	5798	0.06%	0.003%
60	6.283	6.275	6.289	VV	239	1868	0.02%	0.001%
61	6.294	6.289	6.301	VV	235	1613	0.02%	0.001%
62	6.311	6.301	6.324	VV	254	3060	0.03%	0.001%
63	6.344	6.324	6.387	VV	882	17126	0.17%	0.008%
64	6.394	6.387	6.401	VV	357	2537	0.02%	0.001%
65	6.415	6.401	6.467	VV	1128	21581	0.21%	0.010%
66	6.502	6.467	6.557	VV	472570	4721067	46.47%	2.268%
67	6.568	6.557	6.614	VV	597	11242	0.11%	0.005%
68	6.621	6.614	6.634	VV	218	2245	0.02%	0.001%
69	6.651	6.634	6.686	VV	473	7515	0.07%	0.004%
70	6.705	6.686	6.730	VV	215	3386	0.03%	0.002%
71	6.778	6.730	6.810	VV	271	7585	0.07%	0.004%
72	6.822	6.810	6.853	VV	281	4396	0.04%	0.002%
73	6.887	6.853	6.905	VV	427	6267	0.06%	0.003%
74	6.920	6.905	6.934	VV	404	4660	0.05%	0.002%
75	6.975	6.934	7.013	VV	5423	65119	0.64%	0.031%
76	7.038	7.013	7.084	VV	11010	112258	1.10%	0.054%
77	7.133	7.084	7.245	VV	519862	5010166	49.31%	2.407%
78	7.268	7.245	7.300	VV	2268	32346	0.32%	0.016%
79	7.322	7.300	7.338	VV	2258	29189	0.29%	0.014%
80	7.347	7.338	7.373	VV	1131	14108	0.14%	0.007%
81	7.398	7.373	7.410	VV	987	13141	0.13%	0.006%
82	7.426	7.410	7.448	VV	1996	21967	0.22%	0.011%
83	7.475	7.448	7.508	VV	410	9582	0.09%	0.005%
84	7.520	7.508	7.554	VV	341	5382	0.05%	0.003%
85	7.567	7.554	7.586	VV	157	2733	0.03%	0.001%
86	7.605	7.586	7.631	VV	605	8158	0.08%	0.004%
87	7.643	7.631	7.693	VV	287	6680	0.07%	0.003%
88	7.851	7.820	7.868	VV	845	16890	0.17%	0.008%
89	7.881	7.868	7.973	VV	1304	24654	0.24%	0.012%

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90	7.995	7.973	8.030	VV	1693	23516	0.23%	0.011%
91	8.052	8.030	8.091	VV	1105	18837	0.19%	0.009%
92	8.129	8.091	8.144	VV	555	13984	0.14%	0.007%
93	8.166	8.144	8.178	VV	575	10201	0.10%	0.005%
94	8.192	8.178	8.201	VV	656	8182	0.08%	0.004%
95	8.229	8.201	8.241	VV	783	15208	0.15%	0.007%
96	8.267	8.241	8.277	VV	12666	137350	1.35%	0.066%
97	8.303	8.277	8.343	VV	482410	4916498	48.39%	2.362%
98	8.361	8.343	8.378	VV	714	10155	0.10%	0.005%
99	8.421	8.378	8.470	VV	559116	5526228	54.39%	2.655%
100	8.488	8.470	8.499	VV	535	8241	0.08%	0.004%
101	8.528	8.499	8.581	VV	614	15643	0.15%	0.008%
102	8.718	8.684	8.754	VV	550212	5597682	55.09%	2.690%
103	8.768	8.754	8.814	VV	1213	25692	0.25%	0.012%
104	8.834	8.814	8.878	VV	530	11682	0.11%	0.006%
105	8.907	8.878	8.941	VV	838	15725	0.15%	0.008%
106	8.955	8.941	8.966	VV	362	4261	0.04%	0.002%
107	8.987	8.966	9.088	VV	1827	45769	0.45%	0.022%
108	9.122	9.088	9.150	VV	1332	20095	0.20%	0.010%
109	9.164	9.150	9.208	VV	377	6654	0.07%	0.003%
110	9.220	9.208	9.241	VV	152	1637	0.02%	0.001%
111	9.248	9.241	9.261	VV	188	1708	0.02%	0.001%
112	9.279	9.261	9.293	VV	248	3565	0.04%	0.002%
113	9.311	9.293	9.328	VV	345	4256	0.04%	0.002%
114	9.360	9.328	9.378	VV	280	5647	0.06%	0.003%
115	9.421	9.378	9.441	VV	484	10196	0.10%	0.005%
116	9.504	9.441	9.562	VV	551697	5741432	56.51%	2.759%
117	9.576	9.562	9.604	VV	695	12995	0.13%	0.006%
118	9.645	9.604	9.664	VV	856	20067	0.20%	0.010%
119	9.682	9.664	9.695	VV	2440	29764	0.29%	0.014%
120	9.714	9.695	9.751	VV	8604	104766	1.03%	0.050%
121	9.775	9.751	9.864	VV	27283	324631	3.20%	0.156%
122	9.907	9.864	9.974	VV	493753	5368918	52.84%	2.580%
123	10.004	9.974	10.044	VV	553	12962	0.13%	0.006%
124	10.051	10.044	10.107	VV	256	3790	0.04%	0.002%
125	10.117	10.107	10.148	VV	123	1480	0.01%	0.001%
126	10.187	10.148	10.204	PV	419	5877	0.06%	0.003%
127	10.249	10.204	10.281	VV	6909	79745	0.78%	0.038%
128	10.294	10.281	10.310	VV	346	4606	0.05%	0.002%
129	10.346	10.310	10.371	VV	588	14165	0.14%	0.007%
130	10.385	10.371	10.408	VV	611	7828	0.08%	0.004%
131	10.425	10.408	10.473	VV	398	7236	0.07%	0.003%
132	10.506	10.473	10.523	PV	626	10319	0.10%	0.005%
133	10.555	10.523	10.581	VV	775	19032	0.19%	0.009%
134	10.598	10.581	10.624	VV	810	12651	0.12%	0.006%
135	10.643	10.624	10.684	VV	842	16470	0.16%	0.008%
136	10.709	10.684	10.733	VV	5475	65553	0.65%	0.031%
137	10.741	10.733	10.771	VV	933	12290	0.12%	0.006%
138	10.780	10.771	10.822	VV	368	7858	0.08%	0.004%
139	10.912	10.822	10.951	VV	503262	5731008	56.41%	2.754%
140	10.988	10.951	11.040	VV	530641	5647561	55.58%	2.714%
141	11.063	11.040	11.129	VV	1652	32023	0.32%	0.015%

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142	11.153	11.129	11.173	VV	1266	16278	0.16%	0.008%
143	11.194	11.173	11.260	VV	2629	34795	0.34%	0.017%
144	11.279	11.260	11.301	VV	575	8304	0.08%	0.004%
145	11.353	11.301	11.394	VV	483472	5506256	54.19%	2.646%
146	11.418	11.394	11.485	VV	1267	35510	0.35%	0.017%
147	11.509	11.485	11.527	VV	707	9730	0.10%	0.005%
148	11.544	11.527	11.575	VV	516	9829	0.10%	0.005%
149	11.595	11.575	11.612	VV	480	6924	0.07%	0.003%
150	11.629	11.612	11.637	VV	471	5933	0.06%	0.003%
151	11.675	11.637	11.726	VV	464415	5285702	52.02%	2.540%
152	11.743	11.726	11.788	VV	1774	37751	0.37%	0.018%
153	11.828	11.788	11.846	VV	2110	43302	0.43%	0.021%
154	11.860	11.846	11.875	VV	1321	15247	0.15%	0.007%
155	11.891	11.875	11.920	VV	1325	18265	0.18%	0.009%
156	11.958	11.920	11.983	PV	573	9200	0.09%	0.004%
157	12.019	11.983	12.054	VV	883	18914	0.19%	0.009%
158	12.072	12.054	12.094	VV	1360	19925	0.20%	0.010%
159	12.118	12.094	12.162	VV	889	28101	0.28%	0.014%
160	12.185	12.162	12.226	VV	1185	25882	0.25%	0.012%
161	12.269	12.226	12.340	VV	53580	645595	6.35%	0.310%
162	12.353	12.340	12.372	VV	1176	18484	0.18%	0.009%
163	12.384	12.372	12.421	VV	962	21815	0.21%	0.010%
164	12.435	12.421	12.448	VV	661	9489	0.09%	0.005%
165	12.455	12.448	12.464	VV	668	5880	0.06%	0.003%
166	12.488	12.464	12.536	VV	1632	33611	0.33%	0.016%
167	12.563	12.536	12.580	VV	931	13625	0.13%	0.007%
168	12.611	12.580	12.627	VV	1371	23485	0.23%	0.011%
169	12.665	12.627	12.698	VV	468610	5621207	55.33%	2.701%
170	12.736	12.698	12.811	VV	481418	5597090	55.09%	2.689%
171	12.828	12.811	12.844	VV	201	2590	0.03%	0.001%
172	12.865	12.844	12.894	VV	394	9515	0.09%	0.005%
173	12.917	12.894	12.991	VV	4757	67098	0.66%	0.032%
174	13.037	12.991	13.071	VV	481883	5543235	54.56%	2.663%
175	13.110	13.071	13.175	VV	335245	4209090	41.43%	2.022%
176	13.218	13.175	13.239	VV	963	21479	0.21%	0.010%
177	13.277	13.239	13.318	VV	429946	5329426	52.45%	2.561%
178	13.326	13.318	13.347	VV	493	6082	0.06%	0.003%
179	13.390	13.347	13.408	VV	553	12182	0.12%	0.006%
180	13.430	13.408	13.448	VV	348	7314	0.07%	0.004%
181	13.506	13.448	13.572	VV	4370	89101	0.88%	0.043%
182	13.617	13.572	13.641	VV	2176	42419	0.42%	0.020%
183	13.653	13.641	13.671	VV	579	8499	0.08%	0.004%
184	13.706	13.671	13.713	VV	1017	17181	0.17%	0.008%
185	13.726	13.713	13.746	VV	1258	17100	0.17%	0.008%
186	13.768	13.746	13.794	VV	1220	17159	0.17%	0.008%
187	13.808	13.794	13.826	VV	884	10848	0.11%	0.005%
188	13.866	13.826	13.918	VV	421437	5232410	51.50%	2.514%
189	13.939	13.918	13.964	VV	813	13296	0.13%	0.006%
190	13.990	13.964	14.023	VV	1632	25028	0.25%	0.012%
191	14.040	14.023	14.061	VV	1224	14905	0.15%	0.007%
192	14.097	14.061	14.134	VV	490	11842	0.12%	0.006%
193	14.148	14.134	14.188	VV	240	4205	0.04%	0.002%
194	14.255	14.188	14.284	PV	2747	48737	0.48%	0.023%

					rteres			
195	14.300	14.284	14.327	VV	1435	24665	0.24%	0.012%
196	14.356	14.327	14.394	VV	1580	31515	0.31%	0.015%
197	14.425	14.394	14.446	VV	1509	24460	0.24%	0.012%
198	14.461	14.446	14.477	VV	722	10188	0.10%	0.005%
199	14.495	14.477	14.508	VV	597	9399	0.09%	0.005%
200	14.532	14.508	14.573	VV	2092	44487	0.44%	0.021%
201	14.598	14.573	14.622	VV	1881	29968	0.29%	0.014%
202	14.657	14.622	14.681	VV	1458	30692	0.30%	0.015%
203	14.695	14.681	14.755	VV	813	22701	0.22%	0.011%
204	14.808	14.755	14.845	VV	1030	33836	0.33%	0.016%
205	14.919	14.845	14.939	VV	382642	5143375	50.62%	2.471%
206	14.966	14.939	15.050	VV	755290	10160326	100.00%	4.882%
207	15.074	15.050	15.128	VV	2140	45271	0.45%	0.022%
208	15.157	15.128	15.190	VV	905	16802	0.17%	0.008%
209	15.215	15.190	15.232	VV	784	12518	0.12%	0.006%
210	15.246	15.232	15.258	VV	597	8499	0.08%	0.004%
211	15.269	15.258	15.304	VV	595	9318	0.09%	0.004%
212	15.346	15.304	15.430	VV	25801	409227	4.03%	0.197%
213	15.444	15.430	15.461	VV	468	6672	0.07%	0.003%
214	15.488	15.461	15.524	VV	1820	39199	0.39%	0.019%
215	15.566	15.524	15.603	VV	2572	63628	0.63%	0.031%
216	15.621	15.603	15.651	VV	1255	17757	0.17%	0.009%
217	15.671	15.651	15.697	VV	343	4970	0.05%	0.002%
218	15.750	15.697	15.780	VV	703	20640	0.20%	0.010%
219	15.822	15.780	15.843	VV	548	11886	0.12%	0.006%
220	15.869	15.843	15.901	PV	940	17564	0.17%	0.008%
221	15.912	15.901	15.927	VV	320	3992	0.04%	0.002%
222	15.994	15.927	16.033	VV	381501	4831848	47.56%	2.322%
223	16.052	16.033	16.076	VV	781	10088	0.10%	0.005%
224	16.088	16.076	16.105	VV	180	2825	0.03%	0.001%
225	16.122	16.105	16.148	VV	205	2931	0.03%	0.001%
226	16.195	16.148	16.240	PV	1422	33852	0.33%	0.016%
227	16.258	16.240	16.270	VV	695	9391	0.09%	0.005%
228	16.297	16.270	16.308	VV	1357	21667	0.21%	0.010%
229	16.326	16.308	16.339	VV	1881	29664	0.29%	0.014%
230	16.362	16.339	16.400	VV	6162	132691	1.31%	0.064%
231	16.418	16.400	16.429	VV	3363	49777	0.49%	0.024%
232	16.481	16.429	16.497	VV	357482	5220112	51.38%	2.508%
233	16.517	16.497	16.540	VV	420622	5009896	49.31%	2.407%
234	16.557	16.540	16.583	VV	14853	231427	2.28%	0.111%
235	16.607	16.583	16.629	VV	4633	111219	1.09%	0.053%
236	16.646	16.629	16.659	VV	4176	66062	0.65%	0.032%
237	16.676	16.659	16.694	VV	4927	85044	0.84%	0.041%
238	16.727	16.694	16.748	VV	6670	143182	1.41%	0.069%
239	16.765	16.748	16.776	VV	4394	67642	0.67%	0.033%
240	16.795	16.776	16.816	VV	6688	113429	1.12%	0.055%
241	16.865	16.816	16.893	VV	375095	5093158	50.13%	2.447%
242	16.944	16.893	16.977	VV	341741	4770935	46.96%	2.292%
243	16.991	16.977	17.004	VV	4272	60170	0.59%	0.029%
244	17.019	17.004	17.047	VV	4956	70308	0.69%	0.034%
245	17.074	17.047	17.101	VV	2605	46824	0.46%	0.022%
246	17.118	17.101	17.163	VV	954	16986	0.17%	0.008%

rteres								
247	17.196	17.163	17.246	PV	1712	35717	0.35%	0.017%
248	17.307	17.246	17.358	VV	8607	158538	1.56%	0.076%
249	17.391	17.358	17.424	VV	5158	81714	0.80%	0.039%
250	17.476	17.424	17.496	VV	1365	23365	0.23%	0.011%
251	17.512	17.496	17.536	VV	607	11752	0.12%	0.006%
252	17.555	17.536	17.592	VV	480	9155	0.09%	0.004%
253	17.628	17.592	17.651	PV	372	7059	0.07%	0.003%
254	17.723	17.651	17.748	PV	4012	62838	0.62%	0.030%
255	17.834	17.748	17.881	VV	324698	4622142	45.49%	2.221%
256	17.921	17.881	17.968	VV	3708	57458	0.57%	0.028%
257	17.992	17.968	18.001	VV	698	8691	0.09%	0.004%
258	18.021	18.001	18.040	VV	946	13984	0.14%	0.007%
259	18.075	18.040	18.108	VV	1020	15718	0.15%	0.008%
260	18.137	18.108	18.147	PV	937	11329	0.11%	0.005%
261	18.241	18.147	18.257	VV	345059	5625138	55.36%	2.703%
262	18.278	18.257	18.306	VV	372046	4757653	46.83%	2.286%
263	18.315	18.306	18.334	VV	1531	21222	0.21%	0.010%
264	18.357	18.334	18.377	VV	1859	32950	0.32%	0.016%
265	18.395	18.377	18.438	VV	1382	24571	0.24%	0.012%
266	18.499	18.438	18.531	PV	326330	4732309	46.58%	2.274%
267	18.550	18.531	18.583	VV	937	23096	0.23%	0.011%
268	18.614	18.583	18.624	VV	1957	32472	0.32%	0.016%
269	18.668	18.624	18.718	VV	293631	4499633	44.29%	2.162%
270	18.764	18.718	18.810	VV	5187	144901	1.43%	0.070%
271	18.831	18.810	18.851	VV	1864	37794	0.37%	0.018%
272	18.877	18.851	18.898	VV	1525	37029	0.36%	0.018%
273	18.964	18.898	18.978	VV	2152	72577	0.71%	0.035%
274	19.021	18.978	19.046	VV	11701	255846	2.52%	0.123%
275	19.062	19.046	19.114	VV	7456	195439	1.92%	0.094%
276	19.160	19.114	19.183	VV	3803	123360	1.21%	0.059%
277	19.205	19.183	19.228	VV	3531	80796	0.80%	0.039%
278	19.264	19.228	19.298	VV	5819	155964	1.54%	0.075%
279	19.315	19.298	19.329	VV	3624	63451	0.62%	0.030%
280	19.340	19.329	19.351	VV	3454	42295	0.42%	0.020%
281	19.365	19.351	19.389	VV	3378	69639	0.69%	0.033%
282	19.454	19.389	19.494	VV	309003	4655989	45.83%	2.237%
283	19.519	19.494	19.537	VV	6041	129284	1.27%	0.062%
284	19.559	19.537	19.594	VV	8171	198502	1.95%	0.095%
285	19.635	19.594	19.661	VV	6505	210463	2.07%	0.101%
286	19.710	19.661	19.725	VV	5986	211353	2.08%	0.102%
287	19.745	19.725	19.764	VV	5731	128326	1.26%	0.062%
288	19.800	19.764	19.844	VV	10458	401861	3.96%	0.193%
289	19.859	19.844	19.899	VV	7431	230280	2.27%	0.111%
290	20.001	19.899	20.034	VV	10789	657057	6.47%	0.316%
291	20.194	20.034	20.243	VV	278914	5220356	51.38%	2.508%
292	20.332	20.243	20.401	VV	12833	1066564	10.50%	0.512%
293	20.435	20.401	20.443	VV	11614	287751	2.83%	0.138%
294	20.461	20.443	20.478	VV	11507	235984	2.32%	0.113%
295	20.490	20.478	20.518	VV	11348	270377	2.66%	0.130%
296	20.549	20.518	20.585	VV	11929	455077	4.48%	0.219%
297	20.597	20.585	20.643	VV	10278	344573	3.39%	0.166%
298	20.661	20.643	20.672	VV	9462	160078	1.58%	0.077%
299	20.682	20.672	20.703	VV	9306	172309	1.70%	0.083%

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300	20.729	20.703	20.780	VV	9233	405858	3.99%	0.195%
301	20.876	20.780	20.901	VV	8542	607532	5.98%	0.292%
302	20.963	20.901	21.058	VV	215146	4674956	46.01%	2.246%
303	21.067	21.058	21.098	VV	7191	164505	1.62%	0.079%
304	21.111	21.098	21.140	VV	6519	161081	1.59%	0.077%
305	21.164	21.140	21.203	VV	6375	237714	2.34%	0.114%
306	21.218	21.203	21.299	VV	6073	322195	3.17%	0.155%
307	21.362	21.299	21.376	VV	5001	232795	2.29%	0.112%
308	21.417	21.376	21.441	VV	6119	202943	2.00%	0.098%
309	21.461	21.441	21.471	VV	4968	88736	0.87%	0.043%
310	21.479	21.471	21.577	VV	4866	264186	2.60%	0.127%
311	21.592	21.577	21.710	VV	3627	243629	2.40%	0.117%
312	21.759	21.710	21.838	VV	3432	216608	2.13%	0.104%
313	21.929	21.838	22.024	VV	157243	3895607	38.34%	1.872%
314	22.088	22.024	22.106	VV	575	28022	0.28%	0.013%
315	22.140	22.106	22.175	VV	674	17619	0.17%	0.008%

Sum of corrected areas: 208119008

Aliphatic EPH 071525.M Tue Jul 29 01:56:38 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Freehold	Date Received:	
Client Sample ID:	RT-5417MSD	SDG No.:	Q2705
Lab Sample ID:	Q2706-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/28/25 09:00	07/28/25 19:46	PB169021

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	44.2	E	1	1.28	2.17	mg/kg	FC069553.D
Aliphatic C9-C28	Aliphatic C9-C28	83.8		1	0.99	4.33	mg/kg	FC069553.D
Total AliphaticEPH	Total AliphaticEPH	128			2.27	6.50	mg/kg	
Total EPH	Total EPH	128			2.27	6.50	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:	G Environmental	Date Collected:	
Project:	Freehold	Date Received:	
Client Sample ID:	RT-5417MSD	SDG No.:	Q2705
Lab Sample ID:	Q2706-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069553.D	1	07/28/25	07/28/25	PB169021

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	83.8		0.99	4.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	44.2	E	1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.0		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.1		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2706-01MSD	Acq On:	28 Jul 2025 19:46
Client Sample ID:	RT-5417MSD	Operator:	YP/AJ
Data file:	FC069553.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.303	6.602	24789350	178.341	300	ug/ml
Aliphatic C12-C16	6.603	10.006	35194892	244.284	200	ug/ml
Aliphatic C16-C21	10.007	13.376	42497727	312.49	300	ug/ml
Aliphatic C21-C28	13.377	17.043	50307736	422.793	400	ug/ml
Aliphatic C28-C40	17.044	22.029	54970151	611.573	600	ug/ml
Aliphatic EPH	3.303	22.029	207759856	1770		ug/ml
ortho-Terphenyl (SURR)	11.676	11.676	5511304	37.14		ug/ml
1-chlorooctadecane (SURR)	13.110	13.110	4406683	38.99		ug/ml
Aliphatic C9-C28	3.303	17.043	152789705	1160	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069553.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 19:46
 Operator : YP/AJ
 Sample : Q2706-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 RT-5417MSD

Integration File: sample.E
 Quant Time: Jul 29 01:18:01 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Quant Title : GC Extractables
 QLast Update : Tue Jul 15 12:35:59 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.676	5511304	37.137 ug/ml
Spiked Amount 50.000		Recovery =	74.27%
12) S 1-chlorooctadecane (S...	13.110	4406683	38.994 ug/ml
Spiked Amount 50.000		Recovery =	77.99%
Target Compounds			
1) T n-Nonane (C9)	3.405	4057702	29.818 ug/ml
2) T n-Decane (C10)	4.478	4612479	33.140 ug/ml
3) T A~Naphthalene (C11.7)	6.073	5509706	36.462 ug/ml
4) T n-Dodecane (C12)	6.502	4947964	34.910 ug/ml
5) T A~2-methylnaphthalene...	7.133	5237219	35.848 ug/ml
6) T n-Tetradecane (C14)	8.303	5162097	36.306 ug/ml
7) T n-Hexadecane (C16)	9.907	5639360	38.636 ug/ml
8) T n-Octadecane (C18)	11.353	5782588	40.199 ug/ml
10) T n-Eicosane (C20)	12.665	5901590	43.960 ug/ml
11) T n-Heneicosane (C21)	13.278	5599520	43.109 ug/ml
13) T n-Docosane (C22)	13.865	5486910	43.201 ug/ml
14) T n-Tetracosane (C24)	14.966	10634886	87.134 ug/ml
15) T n-Hexacosane (C26)	15.995	5060099	43.553 ug/ml
16) T n-Octacosane (C28)	16.944	4886037	44.133 ug/ml
17) T n-Tricontane (C30)	17.835	4798528	43.822 ug/ml
18) T n-Dotriacontane (C32)	18.667	4706328	45.353 ug/ml
19) T n-Tetratriacontane (C34)	19.454	4697993	49.858 ug/ml
20) T n-Hexatriacontane (C36)	20.196	4245643	51.401 ug/ml
21) T n-Octatriacontane (C38)	20.962	4185202	55.102 ug/ml
22) T n-Tetracontane (C40)	21.929	3957491	54.028 ug/ml

(f)=RT Delta > 1/2 Window

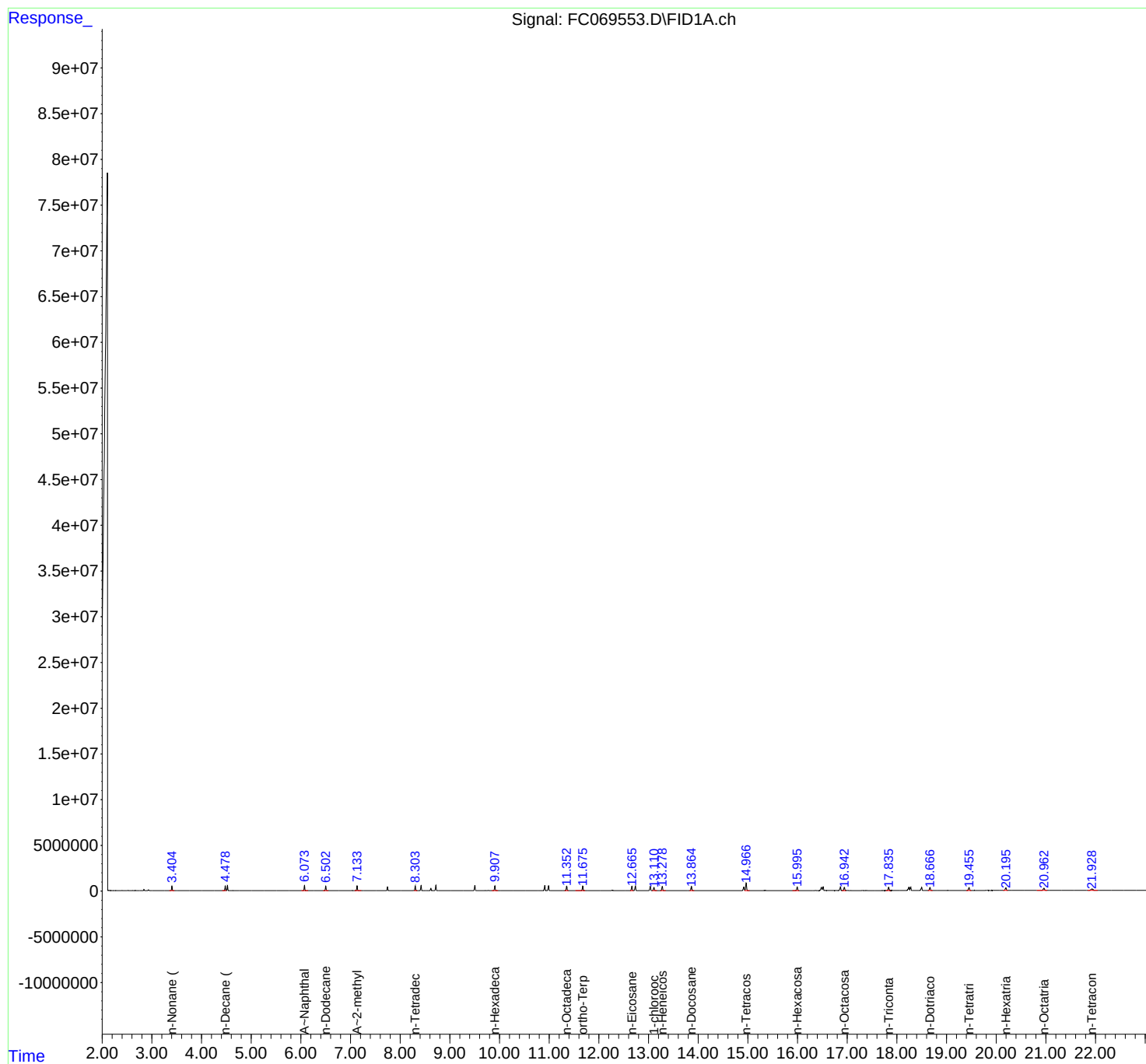
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
Data File : FC069553.D
Signal(s) : FID1A.ch
Acq On : 28 Jul 2025 19:46
Operator : YP/AJ
Sample : Q2706-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
RT-5417MSD

Integration File: sample.E
Quant Time: Jul 29 01:18:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
Quant Title : GC Extractables
QLast Update : Tue Jul 15 12:35:59 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC072825AL\
 Data File : FC069553.D
 Signal(s) : FID1A.ch
 Acq On : 28 Jul 2025 19:46
 Sample : Q2706-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 071525.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.228	3.204	3.240	BV	257	2728	0.03%	0.001%
2	3.255	3.240	3.274	VV	561	6847	0.06%	0.003%
3	3.297	3.274	3.337	VV	420	8296	0.08%	0.004%
4	3.353	3.337	3.374	PV	90	1274	0.01%	0.001%
5	3.405	3.374	3.504	VV	492372	4079496	38.26%	1.874%
6	3.553	3.504	3.573	VV	1449	17886	0.17%	0.008%
7	3.585	3.573	3.624	VV	343	7024	0.07%	0.003%
8	3.695	3.624	3.739	VV	2077	36104	0.34%	0.017%
9	3.756	3.739	3.771	VV	466	5930	0.06%	0.003%
10	3.790	3.771	3.824	VV	3610	32470	0.30%	0.015%
11	3.847	3.824	3.864	VV	227	3197	0.03%	0.001%
12	3.887	3.864	3.936	VV	2956	29842	0.28%	0.014%
13	3.969	3.936	4.041	VV	2533	28576	0.27%	0.013%
14	4.081	4.041	4.093	VV	444	8936	0.08%	0.004%
15	4.104	4.093	4.154	VV	838	15222	0.14%	0.007%
16	4.182	4.154	4.204	VV	358	8310	0.08%	0.004%
17	4.241	4.204	4.254	VV	707	13160	0.12%	0.006%
18	4.263	4.254	4.304	VV	456	9858	0.09%	0.005%
19	4.320	4.304	4.341	VV	333	5478	0.05%	0.003%
20	4.348	4.341	4.360	VV	274	2629	0.02%	0.001%
21	4.398	4.360	4.420	VV	343	9246	0.09%	0.004%
22	4.436	4.420	4.444	VV	376	4354	0.04%	0.002%
23	4.478	4.444	4.499	VV	523928	4621287	43.35%	2.122%
24	4.522	4.499	4.565	VV	564399	4960957	46.53%	2.278%
25	4.583	4.565	4.606	VV	5414	54215	0.51%	0.025%
26	4.629	4.606	4.673	VV	8824	88284	0.83%	0.041%
27	4.694	4.673	4.715	VV	524	8815	0.08%	0.004%
28	4.731	4.715	4.748	VV	528	5917	0.06%	0.003%
29	4.764	4.748	4.781	VV	406	5004	0.05%	0.002%
30	4.809	4.781	4.841	VV	381	7985	0.07%	0.004%
31	4.855	4.841	4.869	VV	265	3334	0.03%	0.002%
32	4.881	4.869	4.920	VV	261	5509	0.05%	0.003%
33	4.951	4.920	5.003	VV	259	8416	0.08%	0.004%
34	5.011	5.003	5.091	VV	173	7759	0.07%	0.004%
35	5.109	5.091	5.142	VV	297	6630	0.06%	0.003%
36	5.152	5.142	5.166	VV	191	2402	0.02%	0.001%

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37	5.201	5.166	5.235	VV	237	6655	0.06%	0.003%
38	5.257	5.235	5.280	VV	151	2910	0.03%	0.001%
39	5.292	5.280	5.306	VV	152	1398	0.01%	0.001%
40	5.332	5.306	5.354	PV	470	6325	0.06%	0.003%
41	5.363	5.354	5.375	VV	122	1283	0.01%	0.001%
42	5.389	5.375	5.414	VV	163	2882	0.03%	0.001%
43	5.419	5.414	5.489	VV	178	4331	0.04%	0.002%
44	5.515	5.489	5.538	VV	1761	18326	0.17%	0.008%
45	5.568	5.538	5.596	VV	366	7365	0.07%	0.003%
46	5.620	5.596	5.664	VV	406	7567	0.07%	0.003%
47	5.672	5.664	5.681	VV	153	1041	0.01%	0.000%
48	5.696	5.681	5.716	VV	216	3056	0.03%	0.001%
49	5.752	5.716	5.776	VV	257	5753	0.05%	0.003%
50	5.813	5.776	5.838	VV	270	7165	0.07%	0.003%
51	5.857	5.838	5.876	VV	347	4600	0.04%	0.002%
52	5.907	5.876	5.948	VV	218	7045	0.07%	0.003%
53	5.958	5.948	5.984	VV	174	3316	0.03%	0.002%
54	6.029	5.984	6.040	VV	226	5289	0.05%	0.002%
55	6.073	6.040	6.191	VV	585445	5542744	51.99%	2.546%
56	6.218	6.191	6.254	VV	479	12170	0.11%	0.006%
57	6.295	6.254	6.305	VV	298	7127	0.07%	0.003%
58	6.311	6.305	6.324	VV	257	2453	0.02%	0.001%
59	6.344	6.324	6.404	VV	889	20940	0.20%	0.010%
60	6.414	6.404	6.471	VV	1220	23618	0.22%	0.011%
61	6.502	6.471	6.556	VV	506647	4967140	46.59%	2.281%
62	6.569	6.556	6.608	VV	649	11345	0.11%	0.005%
63	6.649	6.608	6.678	VV	575	12097	0.11%	0.006%
64	6.687	6.678	6.721	VV	279	4888	0.05%	0.002%
65	6.741	6.721	6.754	VV	222	3254	0.03%	0.001%
66	6.774	6.754	6.807	VV	337	6936	0.07%	0.003%
67	6.827	6.807	6.868	VV	328	6967	0.07%	0.003%
68	6.889	6.868	6.907	VV	474	6498	0.06%	0.003%
69	6.921	6.907	6.934	VV	417	4760	0.04%	0.002%
70	6.975	6.934	7.012	VV	5724	69639	0.65%	0.032%
71	7.037	7.012	7.088	VV	11444	121020	1.14%	0.056%
72	7.133	7.088	7.234	VV	544847	5261698	49.35%	2.416%
73	7.268	7.234	7.304	VV	2442	39931	0.37%	0.018%
74	7.322	7.304	7.338	VV	2310	28756	0.27%	0.013%
75	7.347	7.338	7.371	VV	1268	15773	0.15%	0.007%
76	7.398	7.371	7.409	VV	1064	14482	0.14%	0.007%
77	7.426	7.409	7.450	VV	2097	24290	0.23%	0.011%
78	7.479	7.450	7.511	VV	544	13449	0.13%	0.006%
79	7.518	7.511	7.578	VV	397	8335	0.08%	0.004%
80	7.606	7.578	7.627	VV	673	9985	0.09%	0.005%
81	7.644	7.627	7.674	VV	386	7022	0.07%	0.003%
82	7.683	7.674	7.693	VV	163	1467	0.01%	0.001%
83	7.851	7.801	7.867	VV	990	24877	0.23%	0.011%
84	7.881	7.867	7.908	VV	1430	19576	0.18%	0.009%
85	7.913	7.908	7.968	VV	384	10561	0.10%	0.005%
86	7.995	7.968	8.030	VV	1832	27934	0.26%	0.013%
87	8.052	8.030	8.093	VV	1297	22854	0.21%	0.010%
88	8.126	8.093	8.145	VV	644	15984	0.15%	0.007%
89	8.161	8.145	8.171	VV	617	8899	0.08%	0.004%

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90	8.196	8.171	8.217	VV	801	18429	0.17%	0.008%
91	8.231	8.217	8.241	VV	832	9982	0.09%	0.005%
92	8.267	8.241	8.277	VV	13071	144385	1.35%	0.066%
93	8.303	8.277	8.340	VV	497983	5184584	48.63%	2.381%
94	8.361	8.340	8.374	VV	734	10764	0.10%	0.005%
95	8.420	8.374	8.479	VV	573577	5794848	54.35%	2.661%
96	8.487	8.479	8.498	VV	540	5317	0.05%	0.002%
97	8.529	8.498	8.574	VV	610	15236	0.14%	0.007%
98	8.718	8.681	8.755	VV	592790	5868258	55.04%	2.695%
99	8.769	8.755	8.817	VV	1164	25439	0.24%	0.012%
100	8.834	8.817	8.884	VV	585	11132	0.10%	0.005%
101	8.910	8.884	8.941	VV	979	16321	0.15%	0.007%
102	8.953	8.941	8.966	VV	396	4968	0.05%	0.002%
103	8.987	8.966	9.064	VV	1894	42941	0.40%	0.020%
104	9.070	9.064	9.090	VV	280	3176	0.03%	0.001%
105	9.123	9.090	9.151	VV	1377	20109	0.19%	0.009%
106	9.163	9.151	9.212	VV	366	6331	0.06%	0.003%
107	9.278	9.212	9.294	VV	254	5407	0.05%	0.002%
108	9.309	9.294	9.328	VV	268	3146	0.03%	0.001%
109	9.365	9.328	9.390	PV	303	5960	0.06%	0.003%
110	9.418	9.390	9.441	VV	447	7706	0.07%	0.004%
111	9.504	9.441	9.559	VV	570584	6016414	56.43%	2.763%
112	9.577	9.559	9.608	VV	694	13549	0.13%	0.006%
113	9.646	9.608	9.661	VV	877	18341	0.17%	0.008%
114	9.681	9.661	9.695	VV	2555	31065	0.29%	0.014%
115	9.714	9.695	9.750	VV	9355	108572	1.02%	0.050%
116	9.775	9.750	9.867	VV	29192	339419	3.18%	0.156%
117	9.907	9.867	9.971	VV	526792	5657854	53.07%	2.598%
118	10.006	9.971	10.038	VV	601	13307	0.12%	0.006%
119	10.057	10.038	10.100	VV	126	2682	0.03%	0.001%
120	10.114	10.100	10.160	PV	48	1408	0.01%	0.001%
121	10.187	10.160	10.208	PV	541	6427	0.06%	0.003%
122	10.249	10.208	10.279	VV	7508	83552	0.78%	0.038%
123	10.292	10.279	10.308	VV	362	4700	0.04%	0.002%
124	10.348	10.308	10.371	VV	615	14581	0.14%	0.007%
125	10.384	10.371	10.408	VV	618	8596	0.08%	0.004%
126	10.425	10.408	10.445	VV	465	5961	0.06%	0.003%
127	10.454	10.445	10.478	VV	213	2623	0.02%	0.001%
128	10.505	10.478	10.528	VV	646	12699	0.12%	0.006%
129	10.554	10.528	10.583	VV	894	19498	0.18%	0.009%
130	10.599	10.583	10.624	VV	738	12225	0.11%	0.006%
131	10.643	10.624	10.658	VV	849	11622	0.11%	0.005%
132	10.668	10.658	10.684	VV	427	5756	0.05%	0.003%
133	10.709	10.684	10.818	VV	5652	89228	0.84%	0.041%
134	10.837	10.818	10.851	VV	262	3808	0.04%	0.002%
135	10.911	10.851	10.950	VV	554141	6000023	56.28%	2.756%
136	10.988	10.950	11.041	VV	551774	5915546	55.49%	2.717%
137	11.063	11.041	11.134	VV	1724	31858	0.30%	0.015%
138	11.153	11.134	11.172	VV	1341	16428	0.15%	0.008%
139	11.194	11.172	11.235	VV	2671	35170	0.33%	0.016%
140	11.278	11.235	11.301	VV	718	12215	0.11%	0.006%
141	11.353	11.301	11.390	VV	494644	5798829	54.39%	2.663%

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142	11.420	11.390	11.481	VV	1369	39343	0.37%	0.018%
143	11.509	11.481	11.528	VV	771	11588	0.11%	0.005%
144	11.546	11.528	11.574	VV	606	10102	0.09%	0.005%
145	11.596	11.574	11.608	VV	522	6515	0.06%	0.003%
146	11.623	11.608	11.634	VV	574	7435	0.07%	0.003%
147	11.676	11.634	11.726	VV	508194	5531223	51.88%	2.540%
148	11.742	11.726	11.758	VV	1806	23526	0.22%	0.011%
149	11.766	11.758	11.788	VV	1164	14891	0.14%	0.007%
150	11.827	11.788	11.846	VV	2272	44675	0.42%	0.021%
151	11.861	11.846	11.875	VV	1436	16990	0.16%	0.008%
152	11.890	11.875	11.917	VV	1473	19283	0.18%	0.009%
153	11.955	11.917	11.981	PV	680	10545	0.10%	0.005%
154	12.018	11.981	12.045	VV	897	18088	0.17%	0.008%
155	12.072	12.045	12.095	VV	1452	22947	0.22%	0.011%
156	12.115	12.095	12.158	VV	1012	27275	0.26%	0.013%
157	12.184	12.158	12.219	VV	1183	23612	0.22%	0.011%
158	12.269	12.219	12.337	VV	56061	691411	6.49%	0.318%
159	12.353	12.337	12.371	VV	1126	20232	0.19%	0.009%
160	12.385	12.371	12.418	VV	918	20753	0.19%	0.010%
161	12.452	12.418	12.463	VV	699	16393	0.15%	0.008%
162	12.487	12.463	12.537	VV	1546	35289	0.33%	0.016%
163	12.562	12.537	12.579	VV	968	13176	0.12%	0.006%
164	12.611	12.579	12.627	VV	1453	24499	0.23%	0.011%
165	12.665	12.627	12.697	VV	499622	5911393	55.45%	2.715%
166	12.736	12.697	12.813	VV	524995	5858653	54.95%	2.691%
167	12.832	12.813	12.845	VV	150	1890	0.02%	0.001%
168	12.863	12.845	12.878	VV	425	5635	0.05%	0.003%
169	12.888	12.878	12.893	VV	372	3021	0.03%	0.001%
170	12.917	12.893	12.962	VV	5044	64428	0.60%	0.030%
171	13.037	12.962	13.072	VV	482860	5809086	54.49%	2.668%
172	13.110	13.072	13.144	VV	357476	4410069	41.36%	2.025%
173	13.155	13.144	13.181	VV	392	5106	0.05%	0.002%
174	13.217	13.181	13.240	VV	893	19649	0.18%	0.009%
175	13.278	13.240	13.344	VV	462408	5604863	52.57%	2.574%
176	13.389	13.344	13.410	VV	617	12739	0.12%	0.006%
177	13.424	13.410	13.438	VV	381	4179	0.04%	0.002%
178	13.505	13.438	13.573	VV	4842	96114	0.90%	0.044%
179	13.618	13.573	13.642	VV	2325	41818	0.39%	0.019%
180	13.652	13.642	13.671	VV	611	7924	0.07%	0.004%
181	13.705	13.671	13.713	VV	985	16461	0.15%	0.008%
182	13.725	13.713	13.746	VV	1225	15986	0.15%	0.007%
183	13.767	13.746	13.788	VV	1166	15130	0.14%	0.007%
184	13.807	13.788	13.825	VV	829	11134	0.10%	0.005%
185	13.865	13.825	13.920	VV	447096	5497783	51.57%	2.525%
186	13.937	13.920	13.963	VV	884	11699	0.11%	0.005%
187	13.990	13.963	14.023	VV	1629	23609	0.22%	0.011%
188	14.041	14.023	14.062	VV	1104	13934	0.13%	0.006%
189	14.096	14.062	14.140	VV	504	11776	0.11%	0.005%
190	14.156	14.140	14.169	VV	196	2424	0.02%	0.001%
191	14.175	14.169	14.191	VV	129	1108	0.01%	0.001%
192	14.254	14.191	14.279	VV	2796	47448	0.45%	0.022%
193	14.300	14.279	14.330	VV	1467	27426	0.26%	0.013%
194	14.356	14.330	14.402	VV	1637	30018	0.28%	0.014%

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195	14.425	14.402	14.445	VV	1705	21975	0.21%	0.010%
196	14.458	14.445	14.474	VV	646	8894	0.08%	0.004%
197	14.491	14.474	14.506	VV	546	8745	0.08%	0.004%
198	14.532	14.506	14.574	VV	2157	43812	0.41%	0.020%
199	14.597	14.574	14.618	VV	2036	28309	0.27%	0.013%
200	14.657	14.618	14.678	VV	1532	31303	0.29%	0.014%
201	14.690	14.678	14.748	VV	706	21805	0.20%	0.010%
202	14.808	14.748	14.845	VV	1001	32676	0.31%	0.015%
203	14.866	14.845	14.874	VV	660	8101	0.08%	0.004%
204	14.920	14.874	14.939	VV	403989	5391840	50.57%	2.476%
205	14.966	14.939	15.035	VV	842628	10661373	100.00%	4.896%
206	15.073	15.035	15.125	VV	2095	48867	0.46%	0.022%
207	15.154	15.125	15.190	VV	829	16124	0.15%	0.007%
208	15.216	15.190	15.232	VV	715	11174	0.10%	0.005%
209	15.250	15.232	15.294	VV	563	14822	0.14%	0.007%
210	15.345	15.294	15.428	VV	26703	425131	3.99%	0.195%
211	15.447	15.428	15.463	VV	403	5963	0.06%	0.003%
212	15.486	15.463	15.524	VV	2029	39073	0.37%	0.018%
213	15.566	15.524	15.603	VV	2689	64748	0.61%	0.030%
214	15.621	15.603	15.647	VV	1358	17139	0.16%	0.008%
215	15.668	15.647	15.701	VV	387	5742	0.05%	0.003%
216	15.742	15.701	15.778	VV	703	20608	0.19%	0.009%
217	15.820	15.778	15.844	PV	710	10899	0.10%	0.005%
218	15.868	15.844	15.894	PV	977	15423	0.14%	0.007%
219	15.907	15.894	15.927	VV	344	4252	0.04%	0.002%
220	15.995	15.927	16.034	VV	406886	5070352	47.56%	2.329%
221	16.054	16.034	16.075	VV	745	9286	0.09%	0.004%
222	16.088	16.075	16.104	VV	280	2940	0.03%	0.001%
223	16.124	16.104	16.143	VV	329	4275	0.04%	0.002%
224	16.194	16.143	16.242	PV	1462	35985	0.34%	0.017%
225	16.256	16.242	16.268	VV	633	7525	0.07%	0.003%
226	16.326	16.268	16.338	VV	1991	52121	0.49%	0.024%
227	16.362	16.338	16.399	VV	6601	136668	1.28%	0.063%
228	16.417	16.399	16.428	VV	3424	50626	0.47%	0.023%
229	16.482	16.428	16.498	VV	359224	5488496	51.48%	2.521%
230	16.517	16.498	16.541	VV	420497	5259196	49.33%	2.415%
231	16.557	16.541	16.582	VV	16269	236676	2.22%	0.109%
232	16.606	16.582	16.634	VV	4655	127309	1.19%	0.058%
233	16.644	16.634	16.657	VV	4310	53421	0.50%	0.025%
234	16.676	16.657	16.698	VV	5062	100927	0.95%	0.046%
235	16.726	16.698	16.747	VV	6743	139503	1.31%	0.064%
236	16.793	16.747	16.816	VV	7007	187028	1.75%	0.086%
237	16.866	16.816	16.893	VV	415935	5352676	50.21%	2.458%
238	16.944	16.893	16.976	VV	361846	5008911	46.98%	2.300%
239	16.990	16.976	17.004	VV	4825	63715	0.60%	0.029%
240	17.019	17.004	17.046	VV	5465	72592	0.68%	0.033%
241	17.074	17.046	17.101	VV	2725	48916	0.46%	0.022%
242	17.118	17.101	17.164	VV	1082	16803	0.16%	0.008%
243	17.195	17.164	17.263	PV	1819	38880	0.36%	0.018%
244	17.307	17.263	17.348	VV	8954	155418	1.46%	0.071%
245	17.391	17.348	17.423	VV	5297	92250	0.87%	0.042%
246	17.438	17.423	17.451	VV	323	3862	0.04%	0.002%

					rteres			
247	17.476	17.451	17.497	VV	1307	21033	0.20%	0.010%
248	17.514	17.497	17.534	VV	697	10575	0.10%	0.005%
249	17.558	17.534	17.591	VV	400	8580	0.08%	0.004%
250	17.622	17.591	17.644	PV	482	6632	0.06%	0.003%
251	17.722	17.644	17.745	PV	4165	61961	0.58%	0.028%
252	17.835	17.745	17.872	VV	361015	4858897	45.57%	2.231%
253	17.921	17.872	17.968	VV	3794	59297	0.56%	0.027%
254	18.019	17.968	18.043	VV	924	23504	0.22%	0.011%
255	18.073	18.043	18.108	VV	977	16550	0.16%	0.008%
256	18.135	18.108	18.144	PV	857	11141	0.10%	0.005%
257	18.189	18.144	18.198	VV	14148	192543	1.81%	0.088%
258	18.243	18.198	18.257	VV	385216	5777405	54.19%	2.653%
259	18.279	18.257	18.333	VV	370589	5004528	46.94%	2.298%
260	18.357	18.333	18.377	VV	1991	37151	0.35%	0.017%
261	18.395	18.377	18.443	VV	1445	28634	0.27%	0.013%
262	18.500	18.443	18.584	VV	359706	4999558	46.89%	2.296%
263	18.613	18.584	18.624	VV	2023	30894	0.29%	0.014%
264	18.667	18.624	18.720	VV	340138	4733577	44.40%	2.174%
265	18.764	18.720	18.812	VV	4994	138349	1.30%	0.064%
266	18.830	18.812	18.854	VV	1791	37208	0.35%	0.017%
267	18.874	18.854	18.896	VV	1576	33390	0.31%	0.015%
268	18.919	18.896	18.927	VV	1312	22621	0.21%	0.010%
269	18.964	18.927	18.977	VV	2174	51156	0.48%	0.023%
270	19.020	18.977	19.045	VV	11824	268412	2.52%	0.123%
271	19.063	19.045	19.118	VV	8114	211751	1.99%	0.097%
272	19.159	19.118	19.181	VV	3741	114622	1.08%	0.053%
273	19.203	19.181	19.224	VV	3517	77985	0.73%	0.036%
274	19.264	19.224	19.291	VV	5977	143819	1.35%	0.066%
275	19.313	19.291	19.324	VV	3415	59962	0.56%	0.028%
276	19.334	19.324	19.344	VV	3229	38856	0.36%	0.018%
277	19.363	19.344	19.385	VV	3204	72869	0.68%	0.033%
278	19.454	19.385	19.496	VV	329905	4902878	45.99%	2.252%
279	19.520	19.496	19.535	VV	6374	121194	1.14%	0.056%
280	19.560	19.535	19.592	VV	8158	202206	1.90%	0.093%
281	19.634	19.592	19.659	VV	6288	207715	1.95%	0.095%
282	19.702	19.659	19.724	VV	5761	206214	1.93%	0.095%
283	19.744	19.724	19.762	VV	5507	119971	1.13%	0.055%
284	19.799	19.762	19.844	VV	10652	408833	3.83%	0.188%
285	19.857	19.844	19.898	VV	7172	214065	2.01%	0.098%
286	20.002	19.898	20.035	VV	10590	632786	5.94%	0.291%
287	20.104	20.035	20.121	VV	9295	467750	4.39%	0.215%
288	20.195	20.121	20.234	VV	278245	4880416	45.78%	2.241%
289	20.328	20.234	20.394	VV	13149	1064344	9.98%	0.489%
290	20.498	20.394	20.581	VV	14175	1400675	13.14%	0.643%
291	20.590	20.581	20.651	VV	10137	409176	3.84%	0.188%
292	20.664	20.651	20.707	VV	9306	300224	2.82%	0.138%
293	20.739	20.707	20.777	VV	8624	351056	3.29%	0.161%
294	20.829	20.777	20.841	VV	8028	306464	2.87%	0.141%
295	20.867	20.841	20.881	VV	8216	193387	1.81%	0.089%
296	20.962	20.881	21.031	VV	236824	4842969	45.43%	2.224%
297	21.064	21.031	21.098	VV	6962	274812	2.58%	0.126%
298	21.108	21.098	21.148	VV	6371	178130	1.67%	0.082%
299	21.167	21.148	21.224	VV	5669	245533	2.30%	0.113%

						rters		
300	21.233	21.224	21.251	VV	4951	77973	0.73%	0.036%
301	21.409	21.251	21.439	VV	5566	560280	5.26%	0.257%
302	21.458	21.439	21.578	VV	5188	357785	3.36%	0.164%
303	21.589	21.578	21.700	VV	3385	215445	2.02%	0.099%
304	21.760	21.700	21.830	VV	3233	198046	1.86%	0.091%
305	21.929	21.830	22.060	VV	166540	4120235	38.65%	1.892%
306	22.077	22.060	22.104	VV	522	10110	0.09%	0.005%
307	22.142	22.104	22.177	VV	733	17132	0.16%	0.008%
						Sum of corrected areas:		217746263

Aliphatic EPH 071525.M Tue Jul 29 01:57:28 2025



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

Manual Integration Report

Sequence:

FC071525AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



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

Manual Integration Report

Sequence:

FC072825AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



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

Manual Integration Report

Sequence:

FE072625AL

Instrument

FID_e

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



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

Manual Integration Report

Sequence:

FE072825AL

Instrument

FID_e

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

FE072925AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2700-01DL	FE055060.D	ortho-Terphenyl (SURRE)	yogesh	7/30/2025 7:21:54 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2700-02DL	FE055061.D	ortho-Terphenyl (SURRE)	yogesh	7/30/2025 7:21:55 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01	FE055069.D	1-chlorooctadecane (SURRE)	yogesh	7/30/2025 7:21:57 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01	FE055069.D	ortho-Terphenyl (SURRE)	yogesh	7/30/2025 7:21:57 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01D	FE055070.D	1-chlorooctadecane (SURRE)	yogesh	7/30/2025 7:21:59 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01D	FE055070.D	ortho-Terphenyl (SURRE)	yogesh	7/30/2025 7:21:59 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01MS	FE055071.D	1-chlorooctadecane (SURRE)	yogesh	7/30/2025 7:22:01 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01MS	FE055071.D	n-Docosane (C22)	yogesh	7/30/2025 7:22:01 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01MS	FE055071.D	n-Eicosane (C20)	yogesh	7/30/2025 7:22:01 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01MS	FE055071.D	n-Heneicosane (C21)	yogesh	7/30/2025 7:22:01 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01MS	FE055071.D	n-Octadecane (C18)	yogesh	7/30/2025 7:22:01 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01MS	FE055071.D	ortho-Terphenyl (SURRE)	yogesh	7/30/2025 7:22:01 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01MSD	FE055072.D	n-Heneicosane (C21)	yogesh	7/30/2025 7:22:04 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software

Manual Integration Report

Sequence:

FE072925AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2709-01MSD	FE055072.D	n-Octadecane (C18)	yogesh	7/30/2025 7:22:04 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2709-01MSD	FE055072.D	ortho-Terphenyl (SURR)	yogesh	7/30/2025 7:22:04 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2710-02	FE055074.D	1-chlorooctadecane (SURR)	yogesh	7/30/2025 7:22:05 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
Q2710-02	FE055074.D	ortho-Terphenyl (SURR)	yogesh	7/30/2025 7:22:05 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE055077.D	n-Dotriacontane (C32)	yogesh	7/30/2025 7:22:07 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE055077.D	n-Octatriacontane (C38)	yogesh	7/30/2025 7:22:07 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE055077.D	n-Tetratriacontane (C34)	yogesh	7/30/2025 7:22:07 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE055077.D	n-Tricontane (C30)	yogesh	7/30/2025 7:22:07 AM	mohammad	7/31/2025 1:17:14	Peak Integrated by Software

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC071525AL

Review By	yogesh	Review On	7/15/2025 11:40:50 AM
Supervise By	mohammad	Supervise On	7/17/2025 1:46:10 AM
SubDirectory	FC071525AL	HP Acquire Method	HP Processing Method FC071525AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069446.D	15 Jul 2025 07:39	YP/AJ	Ok
2	I.BLK	FC069447.D	15 Jul 2025 08:20	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC069448.D	15 Jul 2025 09:05	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC069449.D	15 Jul 2025 09:50	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC069450.D	15 Jul 2025 10:35	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC069451.D	15 Jul 2025 11:20	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC069452.D	15 Jul 2025 12:05	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC069453.D	15 Jul 2025 12:52	YP/AJ	Ok
9	I.BLK	FC069454.D	15 Jul 2025 13:39	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069455.D	15 Jul 2025 14:26	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC072825AL

Review By	yogesh	Review On	7/28/2025 1:14:48 PM
Supervise By	mohammad	Supervise On	7/30/2025 2:12:19 AM
SubDirectory	FC072825AL	HP Acquire Method	HP Processing Method FC071525AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069541.D	28 Jul 2025 10:58	YP/AJ	Ok
2	I.BLK	FC069542.D	28 Jul 2025 11:41	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069543.D	28 Jul 2025 12:24	YP/AJ	Ok
4	Q2689-02DL	FC069544.D	28 Jul 2025 13:08	YP/AJ	Ok
5	PB169002BS	FC069545.D	28 Jul 2025 13:51	YP/AJ	Ok
6	PB169002BSD	FC069546.D	28 Jul 2025 14:35	YP/AJ	Ok
7	PB169021BL	FC069547.D	28 Jul 2025 15:18	YP/AJ	Ok
8	PB169021BS	FC069548.D	28 Jul 2025 16:02	YP/AJ	Ok
9	PB169021BSD	FC069549.D	28 Jul 2025 16:46	YP/AJ	Ok
10	Q2706-01	FC069550.D	28 Jul 2025 17:31	YP/AJ	Ok
11	Q2706-01D	FC069551.D	28 Jul 2025 18:17	YP/AJ	Ok
12	Q2706-01MS	FC069552.D	28 Jul 2025 19:02	YP/AJ	Ok
13	Q2706-01MSD	FC069553.D	28 Jul 2025 19:46	YP/AJ	Ok
14	I.BLK	FC069554.D	28 Jul 2025 21:15	YP/AJ	Ok
15	20 PPM ALIPHATIC HC STD	FC069555.D	28 Jul 2025 21:59	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072625AL

Review By	yogesh	Review On	7/25/2025 3:23:49 PM
Supervise By	mohammad	Supervise On	7/29/2025 2:03:12 AM
SubDirectory	FE072625AL	HP Acquire Method	HP Processing Method FE072625AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE055030.D	25 Jul 2025 19:19	YP\AJ	Ok
2	I.BLK	FE055031.D	25 Jul 2025 19:49	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE055032.D	25 Jul 2025 20:19	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE055033.D	25 Jul 2025 20:50	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE055034.D	25 Jul 2025 21:20	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE055035.D	25 Jul 2025 21:50	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE055036.D	25 Jul 2025 22:21	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE055037.D	25 Jul 2025 22:51	YP\AJ	Ok
9	I.BLK	FE055038.D	25 Jul 2025 23:52	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE055039.D	26 Jul 2025 00:22	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072825AL

Review By	yogesh	Review On	7/28/2025 1:13:19 PM
Supervise By	mohammad	Supervise On	7/30/2025 2:12:27 AM
SubDirectory	FE072825AL	HP Acquire Method	HP Processing Method FE072625AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE055040.D	28 Jul 2025 10:45	YP\AJ	Ok
2	I.BLK	FE055041.D	28 Jul 2025 11:16	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE055042.D	28 Jul 2025 11:46	YP\AJ	Ok
4	Q2691-01DL	FE055043.D	28 Jul 2025 12:17	YP\AJ	Ok
5	Q2691-07DL	FE055044.D	28 Jul 2025 12:47	YP\AJ	Ok
6	I.BLK	FE055045.D	28 Jul 2025 13:48	YP\AJ	Ok
7	20 PPM ALIPHATIC HC STD	FE055046.D	28 Jul 2025 14:18	YP\AJ	Ok
8	Q2700-01	FE055047.D	28 Jul 2025 14:49	YP\AJ	Dilution
9	Q2700-02	FE055048.D	28 Jul 2025 15:19	YP\AJ	Dilution
10	Q2703-01	FE055049.D	28 Jul 2025 15:49	YP\AJ	Dilution
11	Q2703-02	FE055050.D	28 Jul 2025 16:20	YP\AJ	Ok
12	Q2705-01	FE055051.D	28 Jul 2025 16:50	YP\AJ	Dilution
13	Q2705-02	FE055052.D	28 Jul 2025 17:21	YP\AJ	Ok
14	Q2706-03	FE055053.D	28 Jul 2025 17:51	YP\AJ	Ok
15	I.BLK	FE055054.D	28 Jul 2025 18:52	YP\AJ	Ok
16	20 PPM ALIPHATIC HC STD	FE055055.D	28 Jul 2025 19:23	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072925AL

Review By	yogesh	Review On	7/29/2025 9:39:46 AM
Supervise By	mohammad	Supervise On	7/31/2025 1:17:14 AM
SubDirectory	FE072925AL	HP Acquire Method	HP Processing Method FE072625AL
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#	Sampleld	Data File Name	Date-Time	Operator	Status
1	MECL2	FE055056.D	29 Jul 2025 07:57	YP\AJ	Ok
2	I.BLK	FE055057.D	29 Jul 2025 08:27	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE055058.D	29 Jul 2025 08:57	YP\AJ	Ok
4	Q2668-06DL	FE055059.D	29 Jul 2025 09:38	YP\AJ	Ok
5	Q2700-01DL	FE055060.D	29 Jul 2025 10:08	YP\AJ	Ok,M
6	Q2700-02DL	FE055061.D	29 Jul 2025 10:38	YP\AJ	Ok,M
7	Q2703-01DL	FE055062.D	29 Jul 2025 11:09	YP\AJ	Ok
8	Q2705-01DL	FE055063.D	29 Jul 2025 11:39	YP\AJ	Ok
9	I.BLK	FE055064.D	29 Jul 2025 12:40	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE055065.D	29 Jul 2025 13:10	YP\AJ	Ok
11	PB169044BL	FE055066.D	29 Jul 2025 13:53	YP\AJ	Ok
12	PB169044BS	FE055067.D	29 Jul 2025 14:24	YP\AJ	Ok
13	PB169044BSD	FE055068.D	29 Jul 2025 14:54	YP\AJ	Ok
14	Q2709-01	FE055069.D	29 Jul 2025 15:24	YP\AJ	Dilution
15	Q2709-01D	FE055070.D	29 Jul 2025 16:25	YP\AJ	Ok,M
16	Q2709-01MS	FE055071.D	29 Jul 2025 16:56	YP\AJ	Ok,M
17	Q2709-01MSD	FE055072.D	29 Jul 2025 17:27	YP\AJ	Ok,M
18	Q2710-01	FE055073.D	29 Jul 2025 17:57	YP\AJ	Dilution
19	Q2710-02	FE055074.D	29 Jul 2025 18:27	YP\AJ	Dilution
20	Q2710-04	FE055075.D	29 Jul 2025 19:28	YP\AJ	Ok
21	I.BLK	FE055076.D	29 Jul 2025 20:29	YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072925AL

Review By	yogesh	Review On	7/29/2025 9:39:46 AM
Supervise By	mohammad	Supervise On	7/31/2025 1:17:14 AM
SubDirectory	FE072925AL	HP Acquire Method	HP Processing Method FE072625AL
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	20 PPM ALIPHATIC HC STD	FE055077.D	29 Jul 2025 21:00	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC071525AL

Review By	yogesh	Review On	7/15/2025 11:40:50 AM
Supervise By	mohammad	Supervise On	7/17/2025 1:46:10 AM
SubDirectory	FC071525AL	HP Acquire Method	HP Processing Method FC071525AL

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	FC069446.D	15 Jul 2025 07:39		YP/AJ	Ok
2	I.BLK	I.BLK	FC069447.D	15 Jul 2025 08:20		YP/AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FC069448.D	15 Jul 2025 09:05		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC069449.D	15 Jul 2025 09:50		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069450.D	15 Jul 2025 10:35		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC069451.D	15 Jul 2025 11:20		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC069452.D	15 Jul 2025 12:05		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069453.D	15 Jul 2025 12:52		YP/AJ	Ok
9	I.BLK	I.BLK	FC069454.D	15 Jul 2025 13:39		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069455.D	15 Jul 2025 14:26		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC072825AL

Review By	yogesh	Review On	7/28/2025 1:14:48 PM
Supervise By	mohammad	Supervise On	7/30/2025 2:12:19 AM
SubDirectory	FC072825AL	HP Acquire Method	HP Processing Method FC071525AL
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			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069541.D	28 Jul 2025 10:58		YP/AJ	Ok
2	I.BLK	I.BLK	FC069542.D	28 Jul 2025 11:41		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069543.D	28 Jul 2025 12:24		YP/AJ	Ok
4	Q2689-02DL	OR-03-07232025-E2DL	FC069544.D	28 Jul 2025 13:08		YP/AJ	Ok
5	PB169002BS	PB169002BS	FC069545.D	28 Jul 2025 13:51		YP/AJ	Ok
6	PB169002BSD	PB169002BSD	FC069546.D	28 Jul 2025 14:35		YP/AJ	Ok
7	PB169021BL	PB169021BL	FC069547.D	28 Jul 2025 15:18		YP/AJ	Ok
8	PB169021BS	PB169021BS	FC069548.D	28 Jul 2025 16:02		YP/AJ	Ok
9	PB169021BSD	PB169021BSD	FC069549.D	28 Jul 2025 16:46		YP/AJ	Ok
10	Q2706-01	RT-5417	FC069550.D	28 Jul 2025 17:31		YP/AJ	Ok
11	Q2706-01D	Q2706-01D	FC069551.D	28 Jul 2025 18:17		YP/AJ	Ok
12	Q2706-01MS	RT-5417MS	FC069552.D	28 Jul 2025 19:02	FC069550.D	YP/AJ	Ok
13	Q2706-01MSD	RT-5417MSD	FC069553.D	28 Jul 2025 19:46	FC069550.D!FC069552.D	YP/AJ	Ok
14	I.BLK	I.BLK	FC069554.D	28 Jul 2025 21:15		YP/AJ	Ok
15	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069555.D	28 Jul 2025 21:59		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072625AL

Review By	yogesh	Review On	7/25/2025 3:23:49 PM
Supervise By	mohammad	Supervise On	7/29/2025 2:03:12 AM
SubDirectory	FE072625AL	HP Acquire Method	HP Processing Method
			FE072625AL
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	FE055030.D	25 Jul 2025 19:19		YP\AJ	Ok
2	I.BLK	I.BLK	FE055031.D	25 Jul 2025 19:49		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FE055032.D	25 Jul 2025 20:19		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE055033.D	25 Jul 2025 20:50		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055034.D	25 Jul 2025 21:20		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE055035.D	25 Jul 2025 21:50		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE055036.D	25 Jul 2025 22:21		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055037.D	25 Jul 2025 22:51		YP\AJ	Ok
9	I.BLK	I.BLK	FE055038.D	25 Jul 2025 23:52		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055039.D	26 Jul 2025 00:22		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072825AL

Review By	yogesh	Review On	7/28/2025 1:13:19 PM
Supervise By	mohammad	Supervise On	7/30/2025 2:12:27 AM
SubDirectory	FE072825AL	HP Acquire Method	HP Processing Method FE072625AL
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			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE055040.D	28 Jul 2025 10:45		YP\AJ	Ok
2	I.BLK	I.BLK	FE055041.D	28 Jul 2025 11:16		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055042.D	28 Jul 2025 11:46		YP\AJ	Ok
4	Q2691-01DL	295DL	FE055043.D	28 Jul 2025 12:17		YP\AJ	Ok
5	Q2691-07DL	299DL	FE055044.D	28 Jul 2025 12:47		YP\AJ	Ok
6	I.BLK	I.BLK	FE055045.D	28 Jul 2025 13:48		YP\AJ	Ok
7	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055046.D	28 Jul 2025 14:18		YP\AJ	Ok
8	Q2700-01	EO-03-072525	FE055047.D	28 Jul 2025 14:49	Need 10X	YP\AJ	Dilution
9	Q2700-02	EO-03-072525-E2	FE055048.D	28 Jul 2025 15:19	Need 10X	YP\AJ	Dilution
10	Q2703-01	TP-4	FE055049.D	28 Jul 2025 15:49	Need 5X	YP\AJ	Dilution
11	Q2703-02	TP-4-EPH	FE055050.D	28 Jul 2025 16:20		YP\AJ	Ok
12	Q2705-01	FG1A	FE055051.D	28 Jul 2025 16:50	Need 2X	YP\AJ	Dilution
13	Q2705-02	FG1B	FE055052.D	28 Jul 2025 17:21		YP\AJ	Ok
14	Q2706-03	ETGI-361	FE055053.D	28 Jul 2025 17:51		YP\AJ	Ok
15	I.BLK	I.BLK	FE055054.D	28 Jul 2025 18:52		YP\AJ	Ok
16	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055055.D	28 Jul 2025 19:23		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072925AL

Review By	yogesh	Review On	7/29/2025 9:39:46 AM
Supervise By	mohammad	Supervise On	7/31/2025 1:17:14 AM
SubDirectory	FE072925AL	HP Acquire Method	HP Processing Method
			FE072625AL

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	FE055056.D	29 Jul 2025 07:57		YP\AJ	Ok
2	I.BLK	I.BLK	FE055057.D	29 Jul 2025 08:27		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055058.D	29 Jul 2025 08:57		YP\AJ	Ok
4	Q2668-06DL	TP-3-EPHDL	FE055059.D	29 Jul 2025 09:38		YP\AJ	Ok
5	Q2700-01DL	EO-03-072525DL	FE055060.D	29 Jul 2025 10:08		YP\AJ	Ok,M
6	Q2700-02DL	EO-03-072525-E2DL	FE055061.D	29 Jul 2025 10:38		YP\AJ	Ok,M
7	Q2703-01DL	TP-4DL	FE055062.D	29 Jul 2025 11:09		YP\AJ	Ok
8	Q2705-01DL	FG1ADL	FE055063.D	29 Jul 2025 11:39		YP\AJ	Ok
9	I.BLK	I.BLK	FE055064.D	29 Jul 2025 12:40		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055065.D	29 Jul 2025 13:10		YP\AJ	Ok
11	PB169044BL	PB169044BL	FE055066.D	29 Jul 2025 13:53		YP\AJ	Ok
12	PB169044BS	PB169044BS	FE055067.D	29 Jul 2025 14:24		YP\AJ	Ok
13	PB169044BSD	PB169044BSD	FE055068.D	29 Jul 2025 14:54		YP\AJ	Ok
14	Q2709-01	7211935-295	FE055069.D	29 Jul 2025 15:24	Need 2X	YP\AJ	Dilution
15	Q2709-01D	Q2709-01D	FE055070.D	29 Jul 2025 16:25		YP\AJ	Ok,M
16	Q2709-01MS	7211935-295MS	FE055071.D	29 Jul 2025 16:56	FE055069.D	YP\AJ	Ok,M
17	Q2709-01MSD	7211935-295MSD	FE055072.D	29 Jul 2025 17:27	FE055069.D!FE055071.D	YP\AJ	Ok,M
18	Q2710-01	JC-03-07282025	FE055073.D	29 Jul 2025 17:57	Need 2X	YP\AJ	Dilution

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE072925AL

Review By	yogesh	Review On	7/29/2025 9:39:46 AM
Supervise By	mohammad	Supervise On	7/31/2025 1:17:14 AM
SubDirectory	FE072925AL	HP Acquire Method	HP Processing Method FE072625AL
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	Q2710-02	JC-03-07282025-E2	FE055074.D	29 Jul 2025 18:27	Need 10X	YP\AJ	Dilution
20	Q2710-04	JC-03-07282025-E3	FE055075.D	29 Jul 2025 19:28		YP\AJ	Ok
21	I.BLK	I.BLK	FE055076.D	29 Jul 2025 20:29		YP\AJ	Ok
22	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055077.D	29 Jul 2025 21:00		YP\AJ	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/28/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:35
In Date: 07/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:14
Out Date: 07/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136620

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
Q2693-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q2693-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q2693-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q2693-08	PCB-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q2693-09	PCB-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q2693-10	SVOC-GPC2-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q2693-11	PEST-GPC2-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q2693-12	PEST-GPC2-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q2693-13	PCB-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q2693-14	PCB-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q2700-01	EO-03-072525	11	1.15	10.40	11.55	11.04	95.1	
Q2700-02	EO-03-072525-E2	12	1.15	10.44	11.59	10.99	94.3	
Q2701-01	PIPE-1	13	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-02	PIPE-2	14	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-03	PIPE-3	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-04	PIPE-4	16	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-05	PIPE-5	17	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-06	PIPE-6	18	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-07	PIPE-7	19	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2701-08	PIPE-8	20	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q2703-01	TP-4	21	1.18	10.76	11.94	7.94	62.8	
Q2703-02	TP-4-EPH	22	1.14	10.51	11.65	8.13	66.5	
Q2703-03	TP-4-VOC	23	1.19	10.68	11.87	7.74	61.3	
Q2705-01	FG1A	24	1.17	10.38	11.55	10.65	91.3	
Q2705-02	FG1B	25	1.18	10.10	11.28	9.86	85.9	
Q2705-03	FG2A	26	1.12	10.14	11.26	11.00	97.4	
Q2705-04	FG2B	27	1.18	10.81	11.99	10.6	87.1	
Q2705-05	FG2C	28	1.13	10.39	11.52	10.00	85.4	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 7/28/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:35
In Date: 07/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:14
Out Date: 07/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB136620

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
Q2706-01	RT-5417	29	1.15	10.60	11.75	10.92	92.2	
Q2706-03	ETGI-361	30	1.19	10.63	11.82	10.3	85.7	
Q2707-01	OILY-SPEEDY-DRY	31	1.14	10.64	11.78	10.84	91.2	
Q2707-02	OILY-DEBRIS	32	1.00	1.00	2.00	2.00	100.0	oily-debris
Q2708-01	OILY-DEBRIS-DRUM	33	1.00	1.00	2.00	2.00	100.0	OILY SONE-DEBRIS

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

WORKLIST(Hardcopy Internal Chain)

13620

WorkList Name : %1-072525 WorkList ID : 190946 Department : Wet-Chemistry Date : 07-25-2025 08:01:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2693-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2693-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D31	07/18/2025	Chemtech -SO
Q2700-01	EO-03-072525	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	07/25/2025	Chemtech -SO
Q2700-02	EO-03-072525-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	07/25/2025	Chemtech -SO
Q2701-01	PIPE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-02	PIPE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-03	PIPE-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-04	PIPE-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-05	PIPE-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-06	PIPE-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-07	PIPE-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2701-08	PIPE-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2703-01	TP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO

Date/Time 07/25/25 15:10:00 Date/Time 07/25/25 17:30
 Raw Sample Received by: JH WOC Raw Sample Received by: JH WOC
 Raw Sample Relinquished by: JH WOC Raw Sample Relinquished by: JH WOC

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-072525 WorkList ID : 190946 Department : Wet-Chemistry Date : 07-25-2025 08:01:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2703-02	TP-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2703-03	TP-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	07/25/2025	Chemtech -SO
Q2705-01	FG1A	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2705-02	FG1B	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2705-03	FG2A	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2705-04	FG2B	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2705-05	FG2C	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	07/25/2025	Chemtech -SO
Q2706-01	RT-5417	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO
Q2706-03	ETGI-361	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO
Q2707-01	OILY-SPEEDY-DRY	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO
Q2707-02	OILY-DEBRIS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO
Q2708-01	OILY-DEBRIS-DRUM	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	07/25/2025	Chemtech -SO

Date/Time 07/25/25 151000
 Raw Sample Received by: 38 WOC
 Raw Sample Relinquished by: CP Sam

Date/Time 07/25/25 171300
 Raw Sample Received by: CP Sam
 Raw Sample Relinquished by: 38 WOC

SOP ID:	MNJDEP-EPH-8		
Clean Up SOP #:	N/A	Extraction Start Date :	07/28/2025
Matrix :	Solid	Extraction Start Time :	09:00
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Extraction End Date :	07/28/2025
Balance ID:	EX-SC-2	Filter By:	RJ
pH Strip Lot#:	N/A	Extraction End Time :	13:15
		Concentration By:	EH
		Supervisor By :	RUPESH
Extraction Method:	☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		

Standarded 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
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
7/28/25	RS (EUA Lab)	Dr. Patel/PCB Lab
13:20	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

Concentration Date: 07/28/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169021BL	PB169021BL	EPH_NF	30.01	N/A	ritesh	Evelyn	2			U6-1
PB169021BS	PB169021BS	EPH_NF	30.03	N/A	ritesh	Evelyn	2			2
PB169021BSD	PB169021BSD	EPH_NF	30.02	N/A	ritesh	Evelyn	2			3
Q2700-01	EO-03-072525	EPH_NF	30.06	N/A	ritesh	Evelyn	2	B		4
Q2700-02	EO-03-072525-E2	EPH_NF	30.05	N/A	ritesh	Evelyn	2			5
Q2703-01	TP-4	EPH_NF	30.05	N/A	ritesh	Evelyn	2	B		6
Q2703-02	TP-4-EPH	EPH_NF	30.08	N/A	ritesh	Evelyn	2			U1-1
Q2705-01	FG1A	EPH_NF	30.06	N/A	ritesh	Evelyn	2			2
Q2705-02	FG1B	EPH_NF	30.04	N/A	ritesh	Evelyn	2			3
Q2706-01	RT-5417	EPH_NF	30.01	N/A	ritesh	Evelyn	2	E		4
Q2706-01DUP	RT-5417DUP	EPH_NF	30.03	N/A	ritesh	Evelyn	2	E		5
Q2706-01MS	RT-5417MS	EPH_NF	30.05	N/A	ritesh	Evelyn	2	E		6
Q2706-01MSD	RT-5417MSD	EPH_NF	30.02	N/A	ritesh	Evelyn	2	E		U2-1
Q2706-03	ETGI-361	EPH_NF	30.07	N/A	ritesh	Evelyn	2	E		2

* Extracts relinquished on the same date as received.

169021
9:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2703 WorkList ID : 190978 Department : Extraction Date : 07-28-2025 08:50:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2700-01	EO-03-072525	Solid	EPH_NF	Cool 4 deg C	PSEG05	D31	07/25/2025	NJEPH
Q2700-02	EO-03-072525-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	D31	07/25/2025	NJEPH
Q2703-01	TP-4	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	07/25/2025	NJEPH
Q2703-02	TP-4-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	07/25/2025	NJEPH
Q2705-01	FG1A	Solid	EPH_NF	Cool 4 deg C	GENV01	D31	07/25/2025	NJEPH
Q2705-02	FG1B	Solid	EPH_NF	Cool 4 deg C	GENV01	D31	07/25/2025	NJEPH
Q2706-01	RT-5417	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	07/25/2025	NJEPH
Q2706-03	ETGI-361	Solid	EPH_NF	Cool 4 deg C	PSEG03	D41	07/25/2025	NJEPH

Date/Time 07/28/25 8:55
Raw Sample Received by: RS (EAT-1ab) CP SR
Raw Sample Relinquished by: CP SR

Date/Time 07/28/25 9:10
Raw Sample Received by: CP SR
Raw Sample Relinquished by: RS (EAT-1ab)

Prep Standard - Chemical Standard Summary

Order ID : Q2705

Test : EPH_NF

Prepbatch ID : PB169021,

Sequence ID/Qc Batch ID: FC072825AL,FE072825AL,FE072925AL,

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



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

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

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

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

Rec'd 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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

RS
7/14/25

E3954

Jamie Croak
Director Quality Operations, Bioscience Production

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

 **avantors**[™]



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on 7/16/25

E3956



Jamie Croak
Director Quality Operations, Bioscience Production



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)

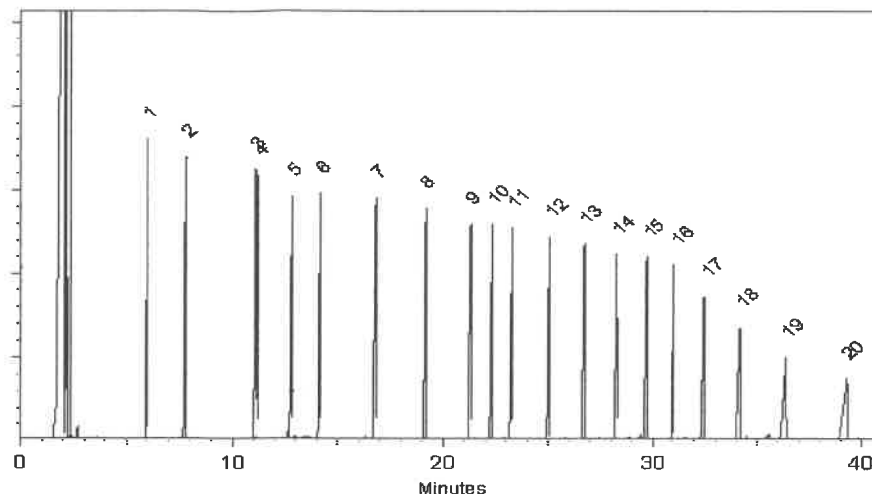
Carrier Gas:
hydrogen-constant pressure 10 psi.

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:

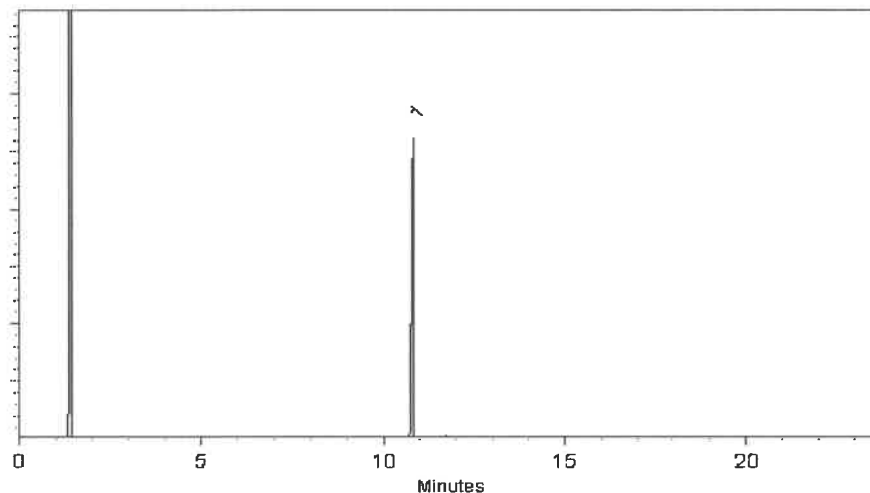
FID

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.



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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:

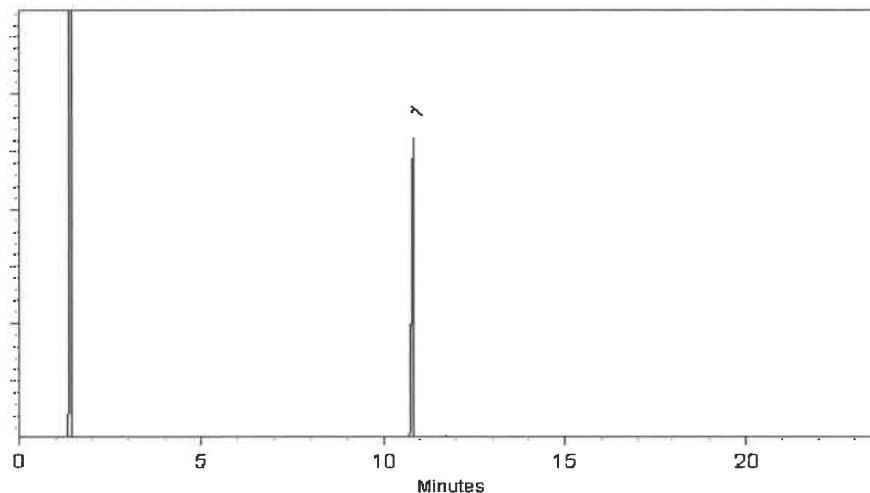
FID

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%.

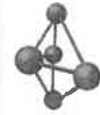
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

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
Y.P.
P13287
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.)	
																OSHA PEL (TWA)	
																CAS#	
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	583-45-3	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	630-06-8	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).



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

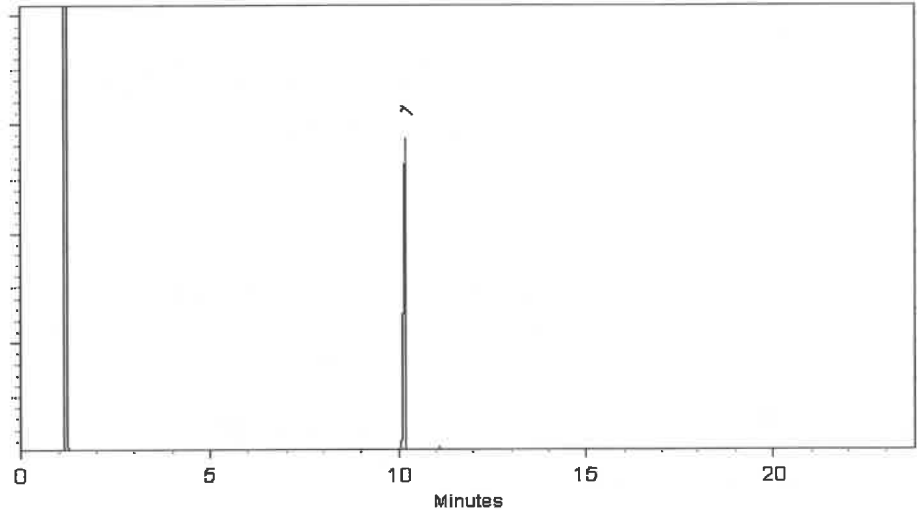
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

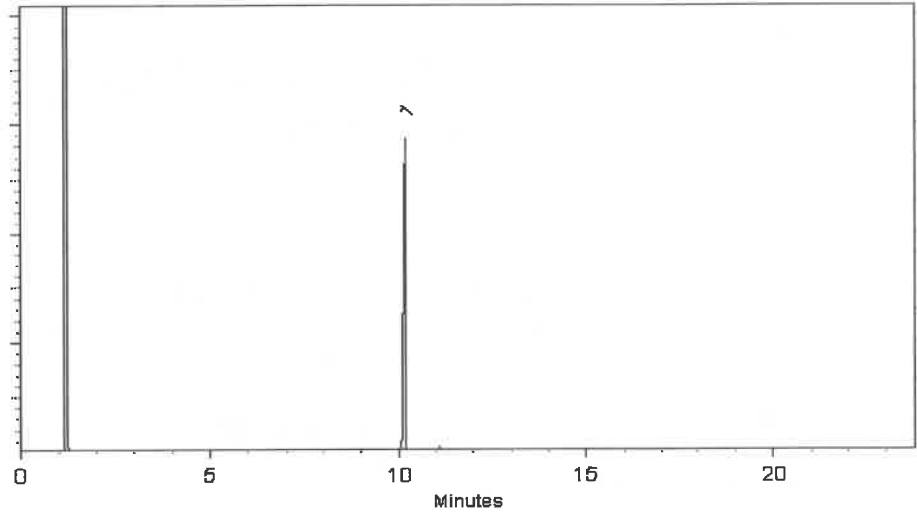
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

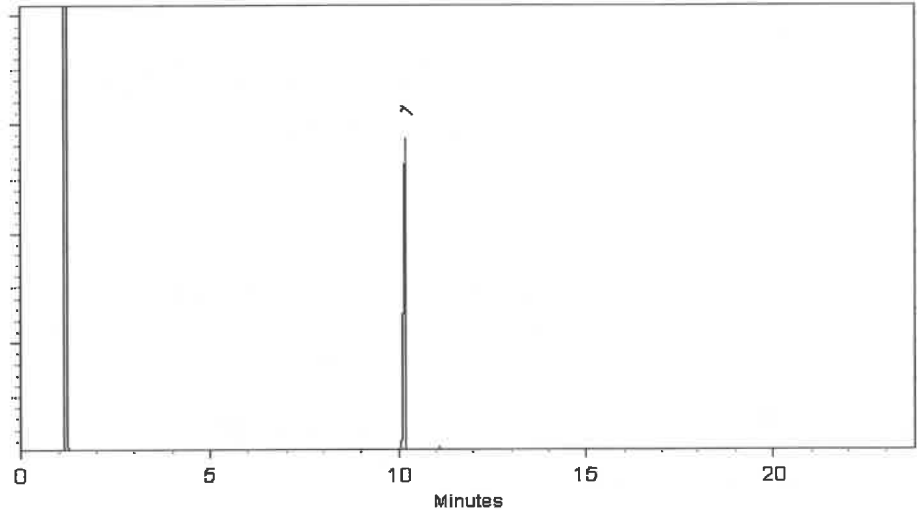
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- 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.

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Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

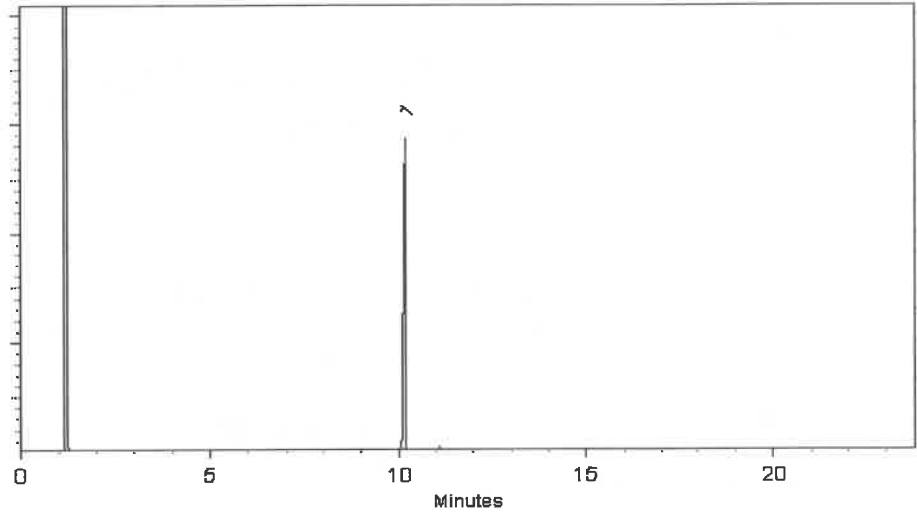
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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

Manufacturing Notes:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

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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:

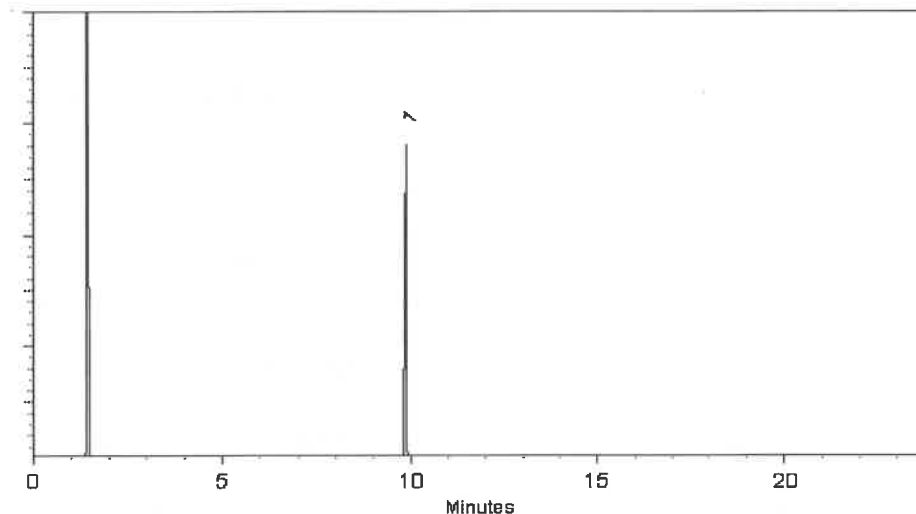
FID

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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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:

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Handling Notes:

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

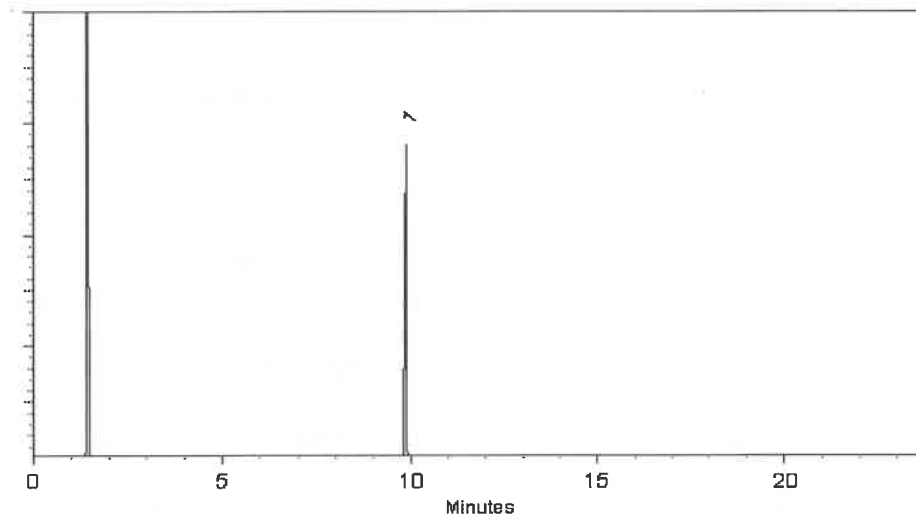
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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Manufacturing Notes:

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Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

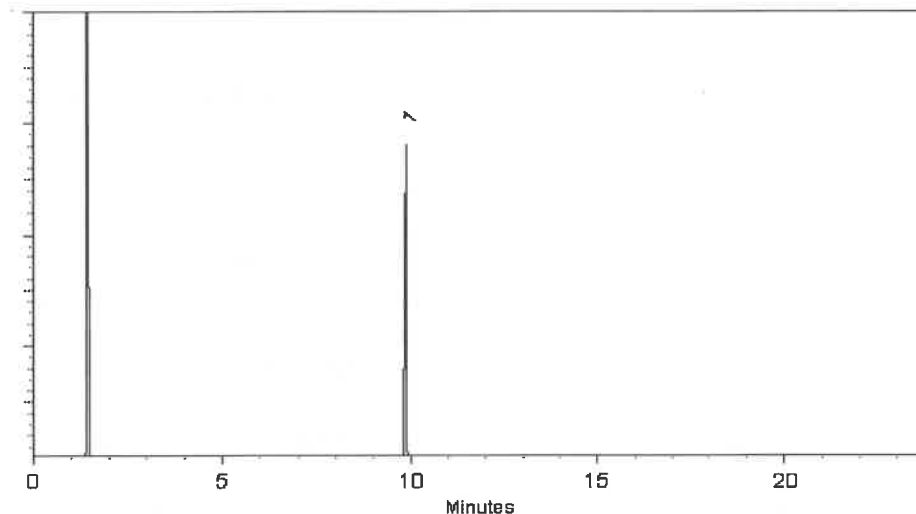
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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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)
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

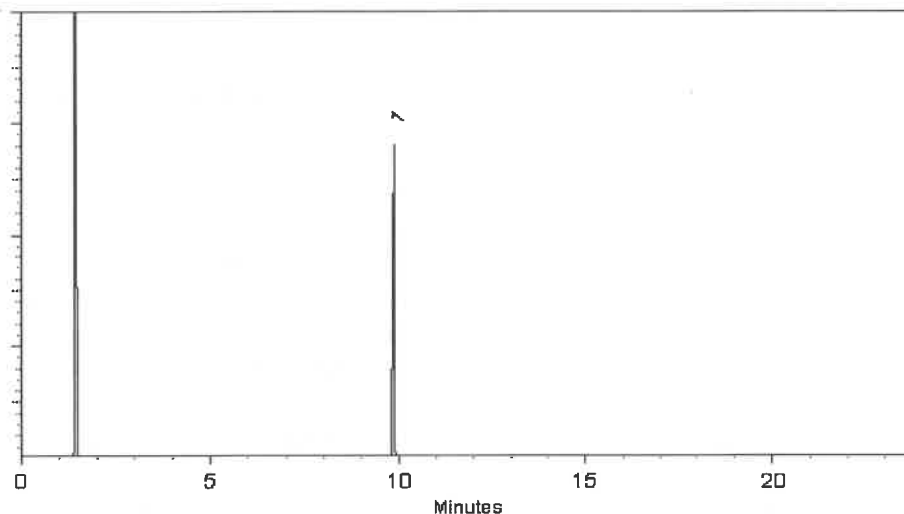
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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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)
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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Rtx-5 (cat.#10223)

Carrier Gas:

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Temp. Program:

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@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

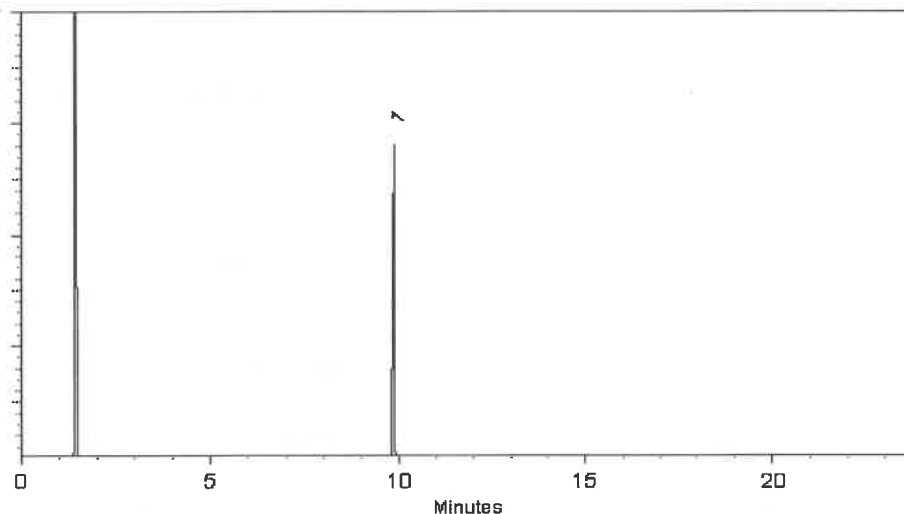
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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Expiration Date : April 30, 2028 **Storage:** 10°C or colder
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P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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Det. Type:

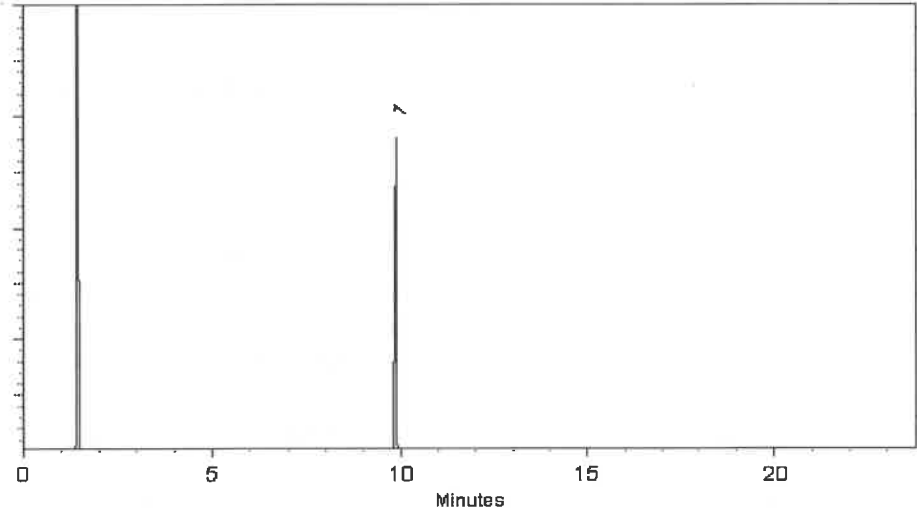
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397

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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

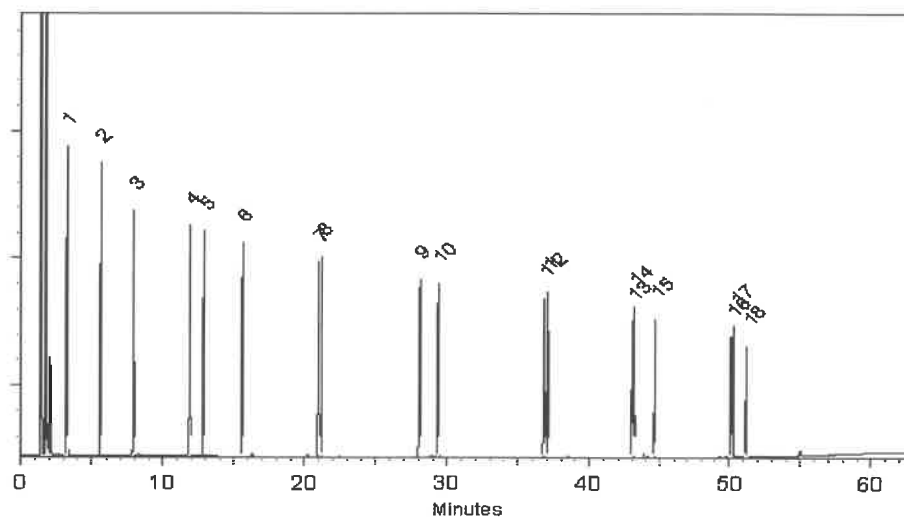
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

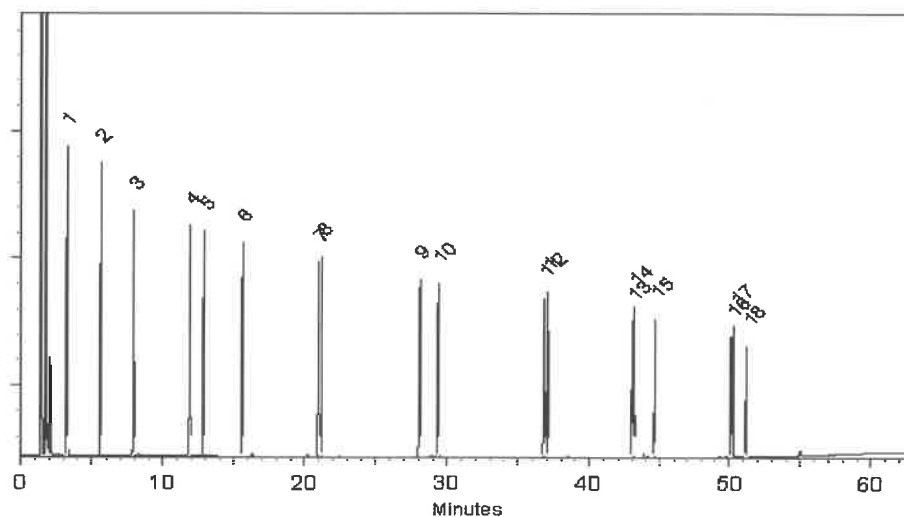
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505


Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

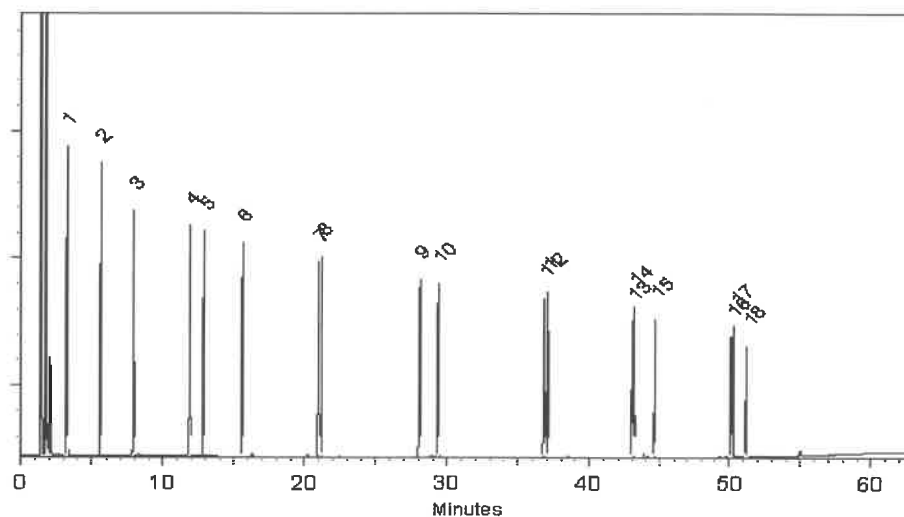
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

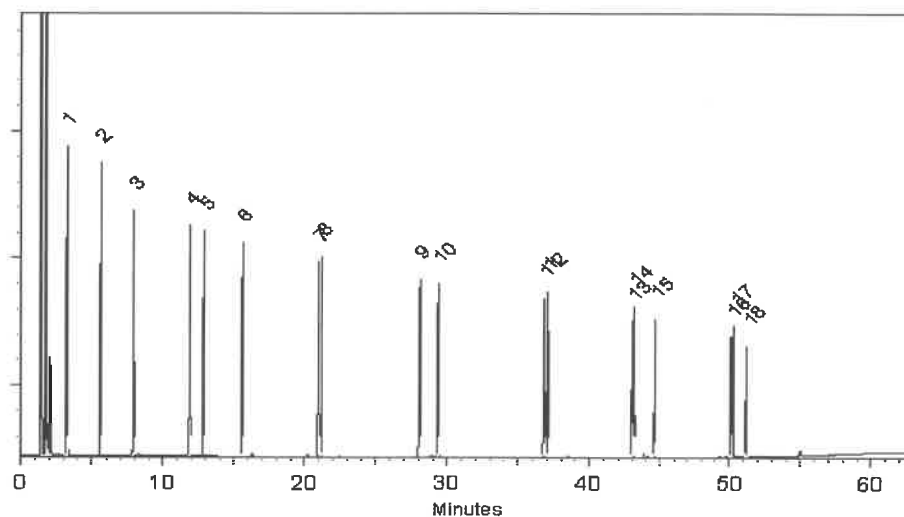
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505


Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13998
↓
P14017

} RC/
5/21/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

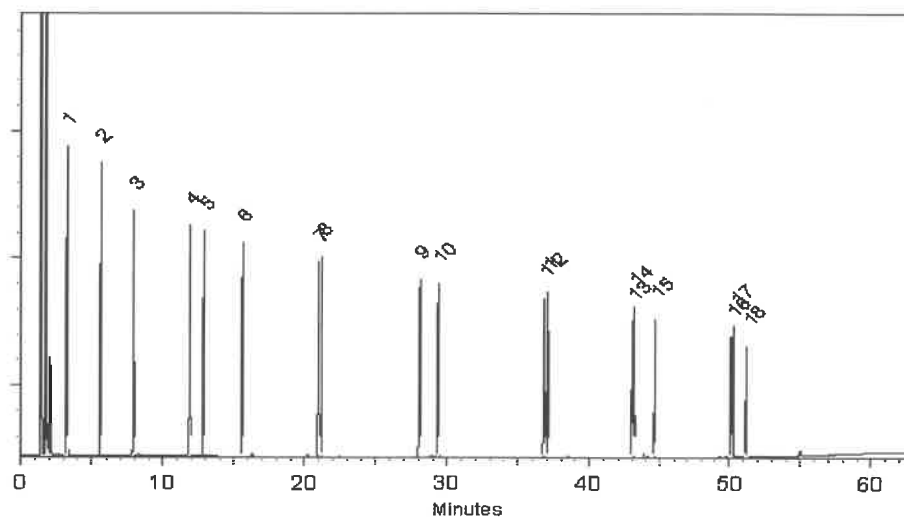
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0220449

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14018 } RC/
↓
P14027 } 5/21/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.3 µg/mL	+/- 5.2012
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.7 µg/mL	+/- 5.2098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	201.3 µg/mL	+/- 5.2012
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1839
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.3 µg/mL	+/- 5.1753
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.0 µg/mL	+/- 5.1926
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.2 µg/mL	+/- 5.1984
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.7 µg/mL	+/- 5.2098
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	201.3 µg/mL	+/- 5.2012
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.7 µg/mL	+/- 5.2098
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	201.6 µg/mL	+/- 5.2081

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

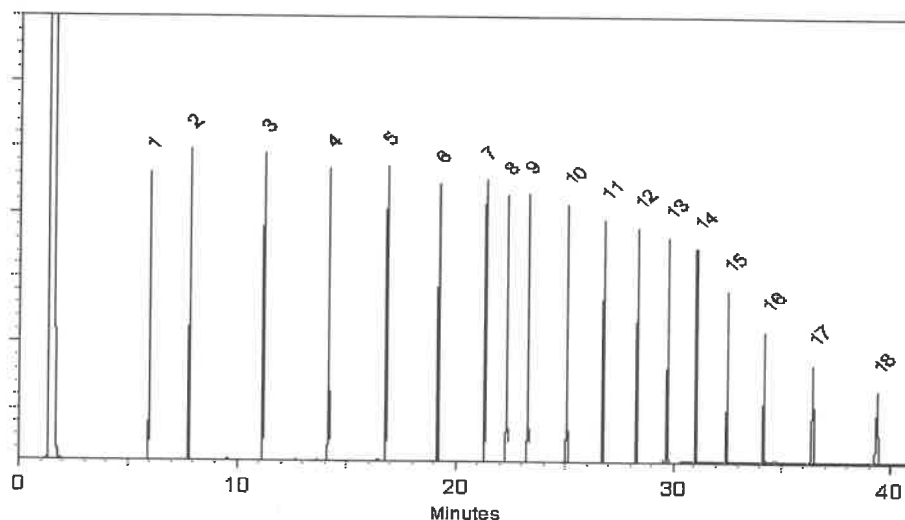
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024

Balance Serial # C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0220449

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14018 } RC/
↓
P14027 } 5/21/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.3 µg/mL	+/- 5.2012
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.7 µg/mL	+/- 5.2098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	201.3 µg/mL	+/- 5.2012
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1839
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.3 µg/mL	+/- 5.1753
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.0 µg/mL	+/- 5.1926
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.2 µg/mL	+/- 5.1984
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.7 µg/mL	+/- 5.2098
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	201.3 µg/mL	+/- 5.2012
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.7 µg/mL	+/- 5.2098
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	201.6 µg/mL	+/- 5.2081

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

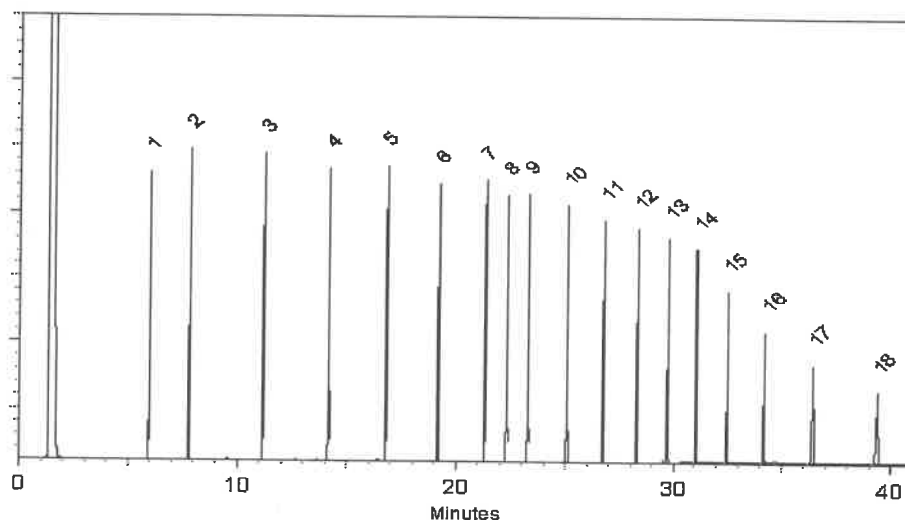
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024

Balance Serial # C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Fax: 1-814-353-1309

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chromatographic plus



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Catalog No. : 30542 **Lot No.:** A0220449

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

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
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11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.0 µg/mL	+/- 5.1926
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
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14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.7 µg/mL	+/- 5.2098
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	201.3 µg/mL	+/- 5.2012
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.7 µg/mL	+/- 5.2098
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	201.6 µg/mL	+/- 5.2081

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

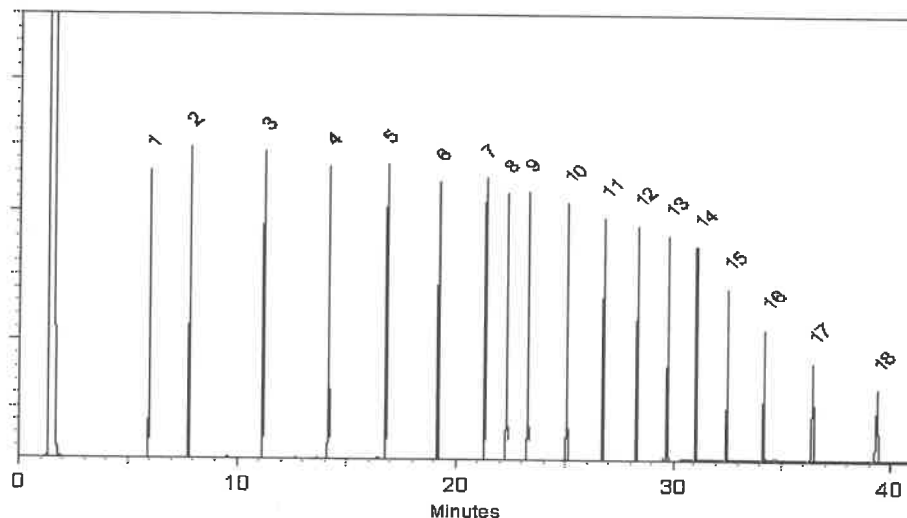
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024

Balance Serial # C322230531

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
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Catalog No. : 30542 **Lot No.:** A0220449

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NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

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)
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4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
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Solvent: n-Pentane
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Purity 99%

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Column:

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Rtx-5 (cat.#10223)

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hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

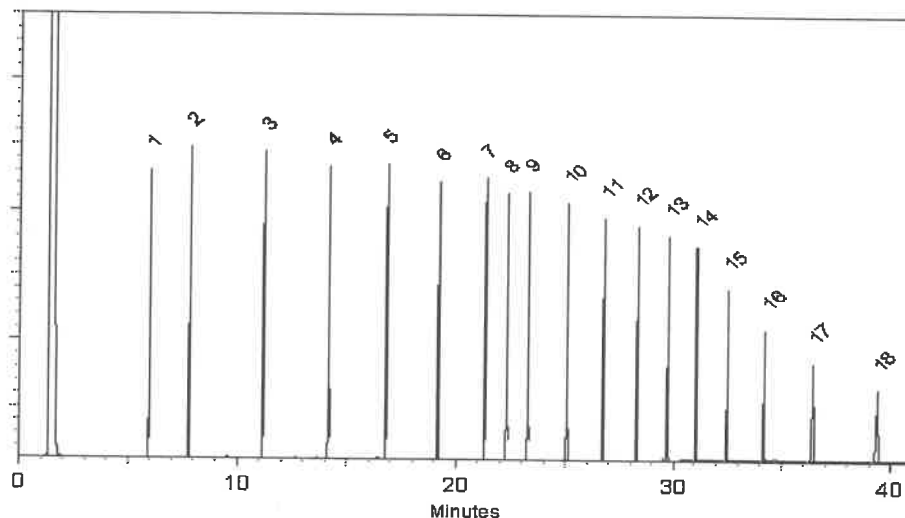
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024

Balance Serial # C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



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P14018 } RC/
↓
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Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
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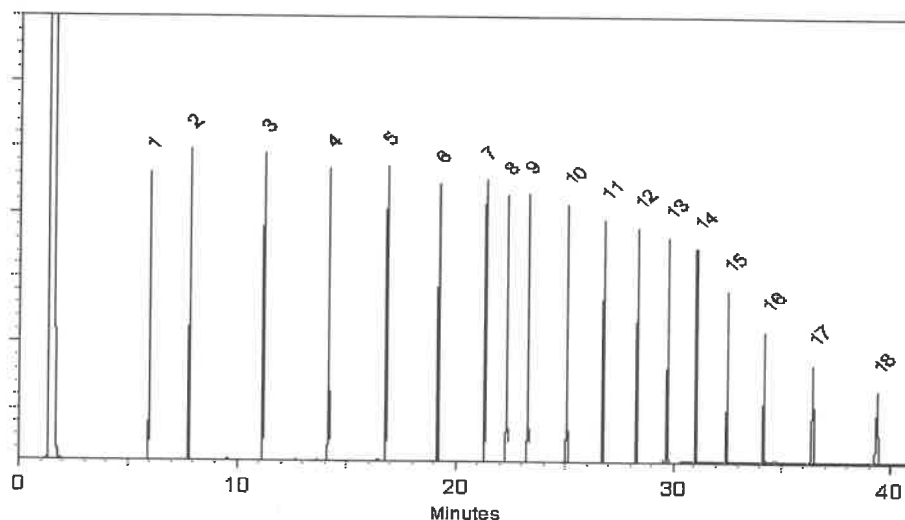
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024

Balance Serial # C322230531

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 27-Dec-2024

Manufactured under Restek's ISO 9001:2015
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0224278

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 } AC
↓
P14058 } 6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Solvent: Hexane
CAS # 110-54-3
Purity 99%

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

avantor™



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

COMPANY: G ENVIRONMENTAL
ADDRESS: 8 CARRAGE
CITY: Succasunna STATE: NJ ZIP: 07886
ATTENTION:
PHONE: FAX:

PROJECT NAME: Freehold
PROJECT NO.: LOCATION:
PROJECT MANAGER: GL
e-mail:
PHONE: FAX:

BILL TO: G ENVIRONMENTAL PO#:
ADDRESS: 8 CARRAGE
CITY: Succasunna STATE: NJ ZIP: 07886
ATTENTION: PHONE:
ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) 5 Day Rush DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ 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 Hardcopy

EPH CAT1
ARSENIC
1 2 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.	FG1A	Soil		X	7/25	0930	1	X										
2.	FG1B			X	7/25	1050	1	X		X								
3.	FG2A			X		1100	1			X								
4.	FG2B			X		1115	1			X								
5.	FG2C	Soil		X	7/25	1130	1			X								
6.																		
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER:	DATE/TIME: <u>1300</u>	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.8</u> °C
1. <u>APL</u>	<u>7/25/25</u>	1. <u>APL</u>	Comments: <u>Free Hold</u>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	<u>Free Hold</u>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3.		3.	<u>Free Hold</u>

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

Laboratory Certification

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