

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: Q3216	OrderDate: 9/26/2025 8:55:00 AM
Client: Sciacca General Contractors, LLC	Project: 256-258 6TH AVE PATERSON
Contact: Rosanne Scirica	Location: J41,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3216-01	WASTE	SOIL	TPH GC	8015D	09/25/25	10/01/25	10/01/25	09/25/25
Q3216-03	1	Solid	EPH_F2	NJEPH	09/25/25	10/02/25	10/02/25	09/25/25
Q3216-04	2	Solid	EPH_F2	NJEPH	09/25/25	10/02/25	10/02/25	09/25/25
Q3216-05	3	Solid	EPH_F2	NJEPH	09/25/25	10/02/25	10/02/25	09/25/25
Q3216-06	4	Solid	EPH_F2	NJEPH	09/25/25	10/02/25	10/02/25	09/25/25
Q3216-07	5	Solid	EPH_F2	NJEPH	09/25/25	10/02/25	10/02/25	09/25/25



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: SCIA01
Lab Code: ACE SDG No.: Q3216
Run Number: FC100325AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB169949BL	55	59		0
PB169949BS	64	66		0
PB169949BSD	62	66		0
1	45	43		0
2	48	45		0
3	49	47		0
4	50	49		0
5	43	43		0
5MS	43	42		0
5MSD	43	42		0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

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

SOIL EPH SURROGATE RECOVERY

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

Column to be used to flag recovery values

* Values outside of contract required QC Limits

D Surrogate diluted out

SOLID EPH_F2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Sciacca General Contractors, LLC</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3216</u>
Sample No :	<u>Q3216-07MS</u>	Datafile:	<u>FC069916.D</u>
		Client ID :	<u>5MS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	33.4	42.7	69.1	79		(40-140)
Aliphatic C9-C28	111.4	17.0	93.8	69		(40-140)

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
n-Nonane (C9)	3.7	0.0000	3.2939	89		(40-140)
n-Decane (C10)	3.7	0.0000	3.3513	91		(40-140)
Naphthalene (C11.7)	3.7	0.0000	3.5074	95		(40-140)
n-Dodecane (C12)	3.7	0.0000	3.4540	93		(40-140)
2-methylnaphthalene (C12.89)	3.7	0.0000	3.4805	94		(40-140)
n-Tetradecane (C14)	3.7	0.0000	3.4796	94		(40-140)
n-Hexadecane (C16)	3.7	0.0000	3.1185	84		(40-140)
n-Octadecane (C18)	3.7	0.0000	2.8719	78		(40-140)
n-Eicosane (C20)	3.7	0.0000	3.1559	85		(40-140)
n-Heneicosane (C21)	3.7	0.0000	2.7464	74		(40-140)
n-Docosane (C22)	3.7	0.0000	2.7918	75		(40-140)
n-Tetracosane (C24)	7.4	0.0000	7.7493	105		(40-140)
n-Hexacosane (C26)	3.7	0.0000	2.4462	66		(40-140)
n-Octacosane (C28)	3.7	0.0000	2.5023	68		(40-140)
n-Tricontane (C30)	3.7	0.0000	2.6247	71		(40-140)
n-Dotriacontane (C32)	3.7	0.0000	2.9826	81		(40-140)
n-Tetratriacontane (C34)	3.7	0.0000	4.2045	114		(40-140)
n-Hexatriacontane (C36)	3.7	0.0000	5.1148	138		(40-140)
n-Octatriacontane (C38)	3.7	0.0000	6.8656	186	*	(40-140)
n-Tetracontane (C40)	3.7	0.0000	5.2606	142	*	(40-140)

SOLID EPH_F2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Sciacca General Contractors, LLC</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3216</u>
Sample No :	<u>Q3216-07MSD</u>	Datafile:	<u>FC069917.D</u>
		Client ID :	<u>5MSD</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	33.4	42.7	69.9	81		2.87 (40-140) 50
Aliphatic C9-C28	111.4	17.0	94.0	69		0.3 (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)	3.7	0.0000	3.2572	88		0 (40-140) 50
n-Decane (C10)	3.7	0.0000	3.3323	90		0 (40-140) 50
Naphthalene (C11.7)	3.7	0.0000	3.4974	95		0 (40-140) 50
n-Dodecane (C12)	3.7	0.0000	3.4622	94		0 (40-140) 50
2-methylnaphthalene (C12.89)	3.7	0.0000	3.4692	94		0 (40-140) 50
n-Tetradecane (C14)	3.7	0.0000	3.4992	95		0 (40-140) 50
n-Hexadecane (C16)	3.7	0.0000	3.1397	85		0 (40-140) 50
n-Octadecane (C18)	3.7	0.0000	2.8906	78		0 (40-140) 50
n-Eicosane (C20)	3.7	0.0000	3.1698	86		0 (40-140) 50
n-Heneicosane (C21)	3.7	0.0000	2.7640	75		0 (40-140) 50
n-Docosane (C22)	3.7	0.0000	2.8044	76		0 (40-140) 50
n-Tetracosane (C24)	7.4	0.0000	7.7755	105		0 (40-140) 50
n-Hexacosane (C26)	3.7	0.0000	2.4609	67		0 (40-140) 50
n-Octacosane (C28)	3.7	0.0000	2.5318	68		0 (40-140) 50
n-Tricontane (C30)	3.7	0.0000	2.6144	71		0 (40-140) 50
n-Dotriacontane (C32)	3.7	0.0000	3.0571	83		0 (40-140) 50
n-Tetratriacontane (C34)	3.7	0.0000	4.1005	111		0 (40-140) 50
n-Hexatriacontane (C36)	3.7	0.0000	4.9785	135		0 (40-140) 50
n-Octatriacontane (C38)	3.7	0.0000	8.6438	234	*	0 (40-140) 50
n-Tetracontane (C40)	3.7	0.0000	5.3657	145	*	0 (40-140) 50

SOLID EPH_F2 LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Sciacca General Contractors, LLC</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3216</u>
Sample No :	<u>PB169949BS</u>	Datafile:	<u>FC069921.D</u>
		Client ID :	<u>PB169949BS</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	30.0	19.8	66		(40-140)
Aliphatic C9-C28	99.9	58.9	61		(40-140)

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS(%)
n-Nonane (C9)	3.3	2.42887	74		(40-140)
n-Decane (C10)	3.3	2.55083	77		(40-140)
Naphthalene (C11.7)	3.3	2.62072	79		(40-140)
n-Dodecane (C12)	3.3	2.59725	79		(40-140)
2-methylnaphthalene (C12.89)	3.3	2.47440	75		(40-140)
n-Tetradecane (C14)	3.3	2.50867	76		(40-140)
n-Hexadecane (C16)	3.3	2.35676	71		(40-140)
n-Octadecane (C18)	3.3	2.17155	66		(40-140)
n-Eicosane (C20)	3.3	2.18398	66		(40-140)
n-Heneicosane (C21)	3.3	2.06876	63		(40-140)
n-Docosane (C22)	3.3	2.00818	61		(40-140)
n-Tetracosane (C24)	6.7	3.71603	55		(40-140)
n-Hexacosane (C26)	3.3	1.85245	56		(40-140)
n-Octacosane (C28)	3.3	1.81381	55		(40-140)
n-Tricontane (C30)	3.3	1.80119	55		(40-140)
n-Dotriacontane (C32)	3.3	1.88123	57		(40-140)
n-Tetratriacontane (C34)	3.3	2.15711	65		(40-140)
n-Hexatriacontane (C36)	3.3	2.32226	70		(40-140)
n-Octatriacontane (C38)	3.3	2.40446	73		(40-140)
n-Tetracontane (C40)	3.3	2.26517	69		(40-140)

SOLID EPH_F2 LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Sciacca General Contractors, LLC</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3216</u>
Sample No :	<u>PB169949BSD</u>	Datafile:	<u>FC069922.D</u>
		Client ID :	<u>PB169949BSD</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%)	QC Limit Of RPD
Aliphatic C28-C40	30.0	19.2	64		3.2 (40-140)	25
Aliphatic C9-C28	100.1	56.1	58		5.2 (40-140)	25

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS(%)	QC Limit Of RPD
n-Nonane (C9)	3.3	2.43094	74		0 (40-140)	25
n-Decane (C10)	3.3	2.56028	78		1.29 (40-140)	25
Naphthalene (C11.7)	3.3	2.65650	81		2.5 (40-140)	25
n-Dodecane (C12)	3.3	2.61378	79		0 (40-140)	25
2-methylnaphthalene (C12.89)	3.3	2.50564	76		1.32 (40-140)	25
n-Tetradecane (C14)	3.3	2.53598	77		1.31 (40-140)	25
n-Hexadecane (C16)	3.3	2.36450	72		1.4 (40-140)	25
n-Octadecane (C18)	3.3	2.16424	66		0 (40-140)	25
n-Eicosane (C20)	3.3	2.15943	65		1.53 (40-140)	25
n-Heneicosane (C21)	3.3	2.03643	62		1.6 (40-140)	25
n-Docosane (C22)	3.3	1.96815	60		1.65 (40-140)	25
n-Tetracosane (C24)	6.7	3.64117	54		1.83 (40-140)	25
n-Hexacosane (C26)	3.3	1.79334	54		3.64 (40-140)	25
n-Octacosane (C28)	3.3	1.77819	54		1.83 (40-140)	25
n-Tricontane (C30)	3.3	1.76168	53		3.7 (40-140)	25
n-Dotriacontane (C32)	3.3	1.84797	56		1.77 (40-140)	25
n-Tetratriacontane (C34)	3.3	2.11187	64		1.55 (40-140)	25
n-Hexatriacontane (C36)	3.3	2.17830	66		5.88 (40-140)	25
n-Octatriacontane (C38)	3.3	2.06570	63		14.71 (40-140)	25
n-Tetracontane (C40)	3.3	1.75709	53		26.23 (40-140)	25

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169949BL

Lab Name: Alliance

Contract: SCIA01

Lab Code: ACE

SDG NO.: Q3216

Instrument ID: FID_C

Lab Sample ID: PB169949BL

Matrix: (soil/water) Solid

Date Extracted: 10/2/2025 8:40:00 A

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB169949BS	PB169949BS
PB169949BSD	PB169949BSD
1	Q3216-03
2	Q3216-04
3	Q3216-05
4	Q3216-06
5	Q3216-07
5MS	Q3216-07MS
5MSD	Q3216-07MSD

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	1	SDG No.:	Q3216
Lab Sample ID:	Q3216-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 13:09	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	17.1		1	1.00	4.41	mg/kg	FC069911.D
Total EPH	Total EPH	17.1			1.00	4.41	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	1	SDG No.:	Q3216
Lab Sample ID:	Q3216-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069911.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	17.1		1.00	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.1		1.30	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.4		40 - 140	45%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	21.7		40 - 140	43%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3216-03	Acq On:	02 Oct 2025 13:09
Client Sample ID:	1	Operator:	YP/AJ
Data file:	FC069911.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	3.286	6.579	781750	5.855	300	ug/ml
Aliphatic C12-C16	6.580	9.978	4587740	29.282	200	ug/ml
Aliphatic C16-C21	9.979	13.344	16608824	92.503	300	ug/ml
Aliphatic C21-C28	13.345	17.006	18965476	104.815	400	ug/ml
Aliphatic C28-C40	17.007	21.955	45613365	354.479	600	ug/ml
Aliphatic EPH	3.286	21.955	86557155	586.935		ug/ml
ortho-Terphenyl (SURR)	11.644	11.644	4064312	21.7		ug/ml
1-chlorooctadecane (SURR)	13.079	13.079	3542911	22.44		ug/ml
Aliphatic C9-C28	3.286	17.006	40943790	232.455	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069911.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 13:09
 Operator : YP/AJ
 Sample : Q3216-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 07:46:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.644	4064312	21.700 ug/ml
Spiked Amount 50.000		Recovery =	43.40%
12) S 1-chlorooctadecane (S...	13.079	3542911	22.435 ug/ml
Spiked Amount 50.000		Recovery =	44.87%

Target Compounds

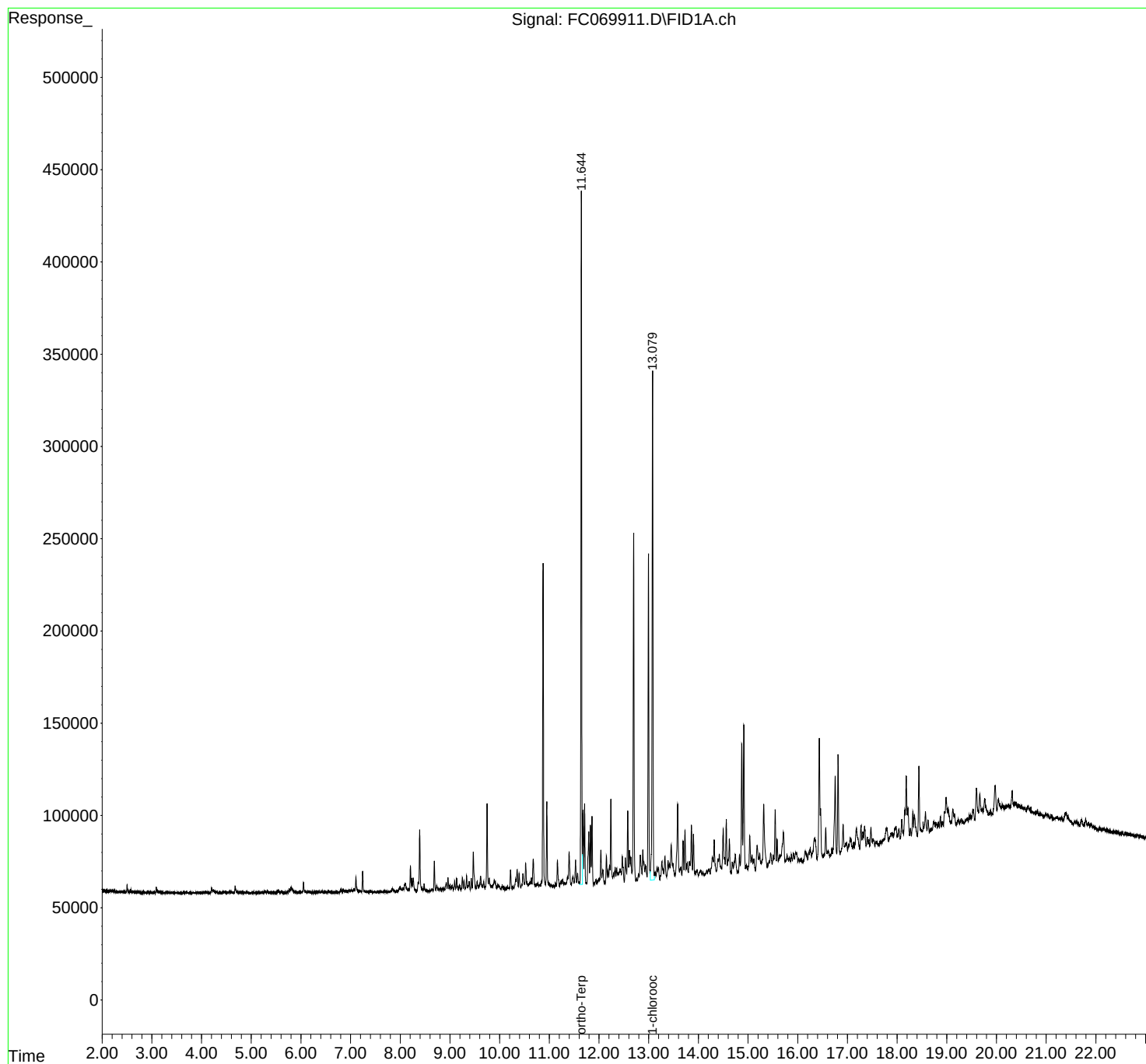
(f)=RT Delta > 1/2 Window

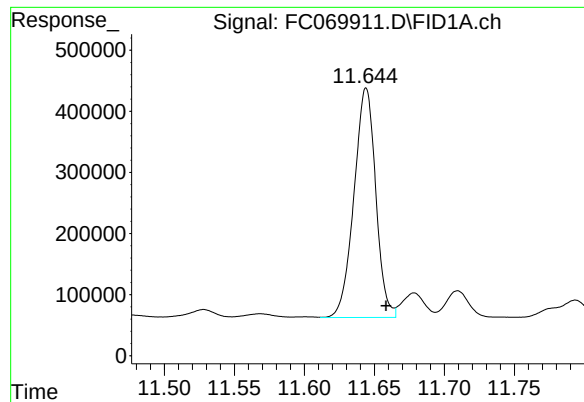
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069911.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 13:09
Operator : YP/AJ
Sample : Q3216-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 07:46:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

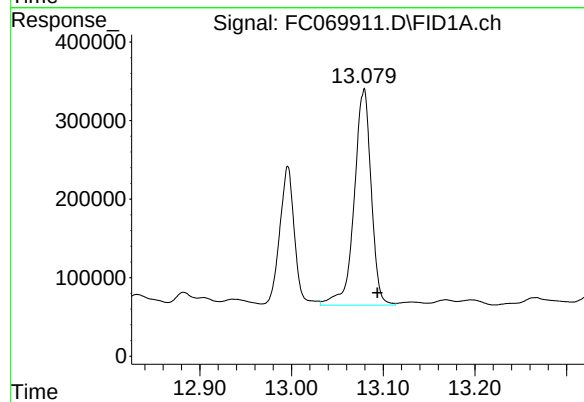
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 11.644 min
Delta R.T.: -0.014 min
Response: 4064312
Conc: 21.70 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.079 min
Delta R.T.: -0.015 min
Response: 3542911
Conc: 22.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069911.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 13:09
 Sample : Q3216-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.289	3.238	3.361	BV	144	3561	0.09%	0.004%
2	3.384	3.361	3.394	PV	116	1082	0.03%	0.001%
3	3.406	3.394	3.474	PV	160	4146	0.10%	0.004%
4	3.482	3.474	3.495	VV	112	1061	0.03%	0.001%
5	3.507	3.495	3.563	VV	152	2800	0.07%	0.003%
6	3.579	3.563	3.599	VV	166	2018	0.05%	0.002%
7	3.608	3.599	3.618	PV	73	787	0.02%	0.001%
8	3.631	3.618	3.649	VV	180	2732	0.07%	0.003%
9	3.654	3.649	3.671	VV	169	1321	0.03%	0.001%
10	3.705	3.671	3.721	VV	382	4870	0.12%	0.005%
11	3.728	3.721	3.740	VV	105	1129	0.03%	0.001%
12	3.784	3.740	3.817	VV	268	8680	0.21%	0.009%
13	3.834	3.817	3.865	VV	143	3214	0.08%	0.003%
14	3.885	3.865	3.921	VV	216	4609	0.11%	0.005%
15	3.963	3.921	4.011	VV	285	7019	0.17%	0.007%
16	4.078	4.011	4.141	VV	508	22077	0.54%	0.023%
17	4.149	4.141	4.178	VV	281	4911	0.12%	0.005%
18	4.204	4.178	4.227	VV	2692	42189	1.03%	0.044%
19	4.241	4.227	4.288	VV	1619	34470	0.84%	0.036%
20	4.299	4.288	4.374	VV	461	16469	0.40%	0.017%
21	4.383	4.374	4.413	VV	302	5283	0.13%	0.006%
22	4.457	4.413	4.491	VV	511	17720	0.43%	0.019%
23	4.504	4.491	4.518	VV	470	5673	0.14%	0.006%
24	4.532	4.518	4.548	VV	344	5291	0.13%	0.006%
25	4.563	4.548	4.592	VV	1323	17016	0.42%	0.018%
26	4.605	4.592	4.654	VV	527	10180	0.25%	0.011%
27	4.676	4.654	4.778	VV	3784	71176	1.74%	0.075%
28	4.805	4.778	4.857	VV	495	15295	0.37%	0.016%
29	4.873	4.857	4.888	VV	262	3467	0.08%	0.004%
30	4.915	4.888	4.981	VV	350	10573	0.26%	0.011%
31	4.991	4.981	5.034	PV	118	2817	0.07%	0.003%

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32	5.048	5.034	5.077	VV	294	3869	0.09%	0.004%
33	5.099	5.077	5.111	VV	175	2291	0.06%	0.002%
34	5.116	5.111	5.124	VV	145	845	0.02%	0.001%
35	5.152	5.124	5.164	VV	369	5905	0.14%	0.006%
36	5.178	5.164	5.201	VV	336	4987	0.12%	0.005%
37	5.232	5.201	5.247	VV	310	4986	0.12%	0.005%
38	5.266	5.247	5.301	VV	1056	17204	0.42%	0.018%
39	5.320	5.301	5.370	VV	768	15863	0.39%	0.017%
40	5.381	5.370	5.403	VV	332	4179	0.10%	0.004%
41	5.419	5.403	5.432	VV	346	4250	0.10%	0.004%
42	5.447	5.432	5.474	VV	318	4884	0.12%	0.005%
43	5.500	5.474	5.514	PV	348	5030	0.12%	0.005%
44	5.550	5.514	5.584	VV	1341	27885	0.68%	0.029%
45	5.601	5.584	5.646	VV	821	14541	0.36%	0.015%
46	5.694	5.646	5.708	VV	207	5355	0.13%	0.006%
47	5.722	5.708	5.740	VV	260	4261	0.10%	0.004%
48	5.766	5.740	5.782	VV	2155	29684	0.73%	0.031%
49	5.802	5.782	5.818	VV	3179	47128	1.15%	0.050%
50	5.826	5.818	5.883	VV	1736	38910	0.95%	0.041%
51	5.895	5.883	5.941	VV	557	13778	0.34%	0.015%
52	5.960	5.941	5.976	VV	368	6587	0.16%	0.007%
53	6.007	5.976	6.026	VV	568	13587	0.33%	0.014%
54	6.052	6.026	6.089	VV	5643	71935	1.76%	0.076%
55	6.098	6.089	6.125	VV	643	11399	0.28%	0.012%
56	6.140	6.125	6.168	VV	613	11264	0.28%	0.012%
57	6.192	6.168	6.213	VV	394	7972	0.20%	0.008%
58	6.233	6.213	6.246	VV	265	3793	0.09%	0.004%
59	6.265	6.246	6.308	VV	276	7421	0.18%	0.008%
60	6.326	6.308	6.336	VV	349	5039	0.12%	0.005%
61	6.349	6.336	6.388	VV	493	10002	0.25%	0.011%
62	6.433	6.388	6.464	VV	666	17359	0.43%	0.018%
63	6.480	6.464	6.531	VV	496	10932	0.27%	0.012%
64	6.555	6.531	6.611	VV	694	14989	0.37%	0.016%
65	6.629	6.611	6.661	VV	255	5300	0.13%	0.006%
66	6.678	6.661	6.711	VV	361	6256	0.15%	0.007%
67	6.727	6.711	6.738	VV	194	1981	0.05%	0.002%
68	6.759	6.738	6.776	VV	286	2776	0.07%	0.003%
69	6.804	6.776	6.838	PV	1402	25631	0.63%	0.027%
70	6.854	6.838	6.873	VV	1269	18777	0.46%	0.020%
71	6.886	6.873	6.902	VV	927	12472	0.31%	0.013%
72	6.918	6.902	6.943	VV	911	17388	0.43%	0.018%
73	6.968	6.943	6.991	VV	1135	26068	0.64%	0.027%
74	7.015	6.991	7.041	VV	1370	33100	0.81%	0.035%
75	7.061	7.041	7.074	VV	1374	23222	0.57%	0.024%
76	7.108	7.074	7.171	VV	8189	131072	3.21%	0.138%
77	7.203	7.171	7.220	VV	860	19229	0.47%	0.020%
78	7.243	7.220	7.292	VV	11427	132190	3.24%	0.139%
79	7.306	7.292	7.323	VV	454	6924	0.17%	0.007%

80	7.338	7.323	7.351	VV	397	5543	0.14%	0.006%
81	7.370	7.351	7.383	VV	394	6302	0.15%	0.007%
82	7.405	7.383	7.438	VV	555	11422	0.28%	0.012%
83	7.469	7.438	7.561	VV	363	13534	0.33%	0.014%
84	7.585	7.561	7.611	VV	290	5875	0.14%	0.006%
85	7.620	7.611	7.647	VV	288	4843	0.12%	0.005%
86	7.661	7.647	7.670	VV	249	2414	0.06%	0.003%
87	7.693	7.670	7.722	VV	724	10416	0.26%	0.011%
88	7.744	7.722	7.764	PV	169	2718	0.07%	0.003%
89	7.799	7.764	7.811	VV	291	5002	0.12%	0.005%
90	7.836	7.811	7.913	VV	1955	51662	1.27%	0.054%
91	7.934	7.913	7.952	VV	840	11529	0.28%	0.012%
92	7.994	7.952	8.041	VV	2729	79152	1.94%	0.083%
93	8.059	8.041	8.069	VV	1756	24034	0.59%	0.025%
94	8.103	8.069	8.146	VV	4515	123639	3.03%	0.130%
95	8.160	8.146	8.178	VV	1337	20995	0.51%	0.022%
96	8.205	8.178	8.221	VV	13766	160543	3.93%	0.169%
97	8.233	8.221	8.247	VV	7169	77328	1.89%	0.082%
98	8.261	8.247	8.328	VV	7400	120525	2.95%	0.127%
99	8.391	8.328	8.434	VV	33318	491556	12.05%	0.518%
100	8.442	8.434	8.460	VV	1547	19156	0.47%	0.020%
101	8.480	8.460	8.510	VV	4150	51774	1.27%	0.055%
102	8.528	8.510	8.578	VV	597	10613	0.26%	0.011%
103	8.598	8.578	8.608	PV	247	2989	0.07%	0.003%
104	8.638	8.608	8.664	VV	1207	21723	0.53%	0.023%
105	8.685	8.664	8.714	VV	16264	179732	4.40%	0.190%
106	8.733	8.714	8.785	VV	2798	61943	1.52%	0.065%
107	8.804	8.785	8.832	VV	1369	27205	0.67%	0.029%
108	8.848	8.832	8.863	VV	1391	18450	0.45%	0.019%
109	8.876	8.863	8.891	VV	1122	15781	0.39%	0.017%
110	8.924	8.891	8.942	VV	4350	76476	1.87%	0.081%
111	8.960	8.942	8.982	VV	7103	90673	2.22%	0.096%
112	8.998	8.982	9.018	VV	2986	45627	1.12%	0.048%
113	9.047	9.018	9.066	VV	2397	51339	1.26%	0.054%
114	9.095	9.066	9.114	VV	5328	71386	1.75%	0.075%
115	9.135	9.114	9.174	VV	6668	100622	2.47%	0.106%
116	9.192	9.174	9.221	VV	2981	44838	1.10%	0.047%
117	9.250	9.221	9.268	VV	6958	89869	2.20%	0.095%
118	9.283	9.268	9.302	VV	5156	58770	1.44%	0.062%
119	9.335	9.302	9.356	VV	7911	107524	2.63%	0.113%
120	9.387	9.356	9.409	VV	4859	79874	1.96%	0.084%
121	9.429	9.409	9.448	VV	6436	76452	1.87%	0.081%
122	9.471	9.448	9.527	VV	20581	331310	8.12%	0.349%
123	9.549	9.527	9.578	VV	4831	77329	1.89%	0.082%
124	9.617	9.578	9.641	VV	7430	148995	3.65%	0.157%
125	9.650	9.641	9.662	VV	2259	24795	0.61%	0.026%
126	9.680	9.662	9.703	VV	4648	66967	1.64%	0.071%

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127	9.748	9.703	9.774	VV	46774	568673	13.94%	0.600%
128	9.791	9.774	9.826	VV	6316	112648	2.76%	0.119%
129	9.843	9.826	9.859	VV	2407	36867	0.90%	0.039%
130	9.892	9.859	9.905	VV	5117	94525	2.32%	0.100%
131	9.914	9.905	9.937	VV	4693	55392	1.36%	0.058%
132	9.970	9.937	10.022	VV	2267	76005	1.86%	0.080%
133	10.051	10.022	10.076	VV	1687	31300	0.77%	0.033%
134	10.090	10.076	10.111	VV	1050	12830	0.31%	0.014%
135	10.163	10.111	10.195	PV	1144	31170	0.76%	0.033%
136	10.220	10.195	10.249	VV	10345	132709	3.25%	0.140%
137	10.266	10.249	10.284	VV	1330	18806	0.46%	0.020%
138	10.325	10.284	10.335	VV	5264	82688	2.03%	0.087%
139	10.353	10.335	10.375	VV	10510	145829	3.57%	0.154%
140	10.393	10.375	10.428	VV	8158	114199	2.80%	0.120%
141	10.470	10.428	10.501	VV	8106	160111	3.92%	0.169%
142	10.524	10.501	10.574	VV	13608	230665	5.65%	0.243%
143	10.611	10.574	10.621	VV	3305	69429	1.70%	0.073%
144	10.640	10.621	10.653	VV	5621	73031	1.79%	0.077%
145	10.677	10.653	10.730	VV	15819	267908	6.57%	0.282%
146	10.747	10.730	10.759	VV	2306	32450	0.80%	0.034%
147	10.771	10.759	10.788	VV	2630	33183	0.81%	0.035%
148	10.803	10.788	10.825	VV	1713	31250	0.77%	0.033%
149	10.875	10.825	10.920	VV	174959	2023674	49.59%	2.134%
150	10.950	10.920	11.018	VV	45982	589859	14.45%	0.622%
151	11.031	11.018	11.071	VV	1309	29697	0.73%	0.031%
152	11.084	11.071	11.103	VV	932	10999	0.27%	0.012%
153	11.123	11.103	11.141	PV	2212	26717	0.65%	0.028%
154	11.164	11.141	11.205	VV	14357	207275	5.08%	0.219%
155	11.236	11.205	11.251	VV	2900	53902	1.32%	0.057%
156	11.268	11.251	11.290	VV	3763	60540	1.48%	0.064%
157	11.301	11.290	11.332	VV	1811	40577	0.99%	0.043%
158	11.399	11.332	11.442	VV	18382	383819	9.41%	0.405%
159	11.474	11.442	11.498	VV	4890	96872	2.37%	0.102%
160	11.528	11.498	11.548	VV	13763	189928	4.65%	0.200%
161	11.568	11.548	11.591	VV	6668	98489	2.41%	0.104%
162	11.601	11.591	11.611	VV	1600	15993	0.39%	0.017%
163	11.644	11.611	11.665	VV	377240	4080748	100.00%	4.303%
164	11.678	11.665	11.694	VV	40723	450392	11.04%	0.475%
165	11.710	11.694	11.751	VV	44037	507627	12.44%	0.535%
166	11.793	11.751	11.810	VV	28803	466642	11.44%	0.492%
167	11.827	11.810	11.842	VV	31922	376304	9.22%	0.397%
168	11.859	11.842	11.888	VV	36878	442573	10.85%	0.467%
169	11.901	11.888	11.913	VV	902	7261	0.18%	0.008%
170	11.936	11.913	11.955	VV	2362	31723	0.78%	0.033%
171	11.997	11.955	12.011	VV	2463	54877	1.34%	0.058%
172	12.037	12.011	12.057	VV	18372	231971	5.68%	0.245%
173	12.078	12.057	12.122	VV	7455	129893	3.18%	0.137%
174	12.149	12.122	12.167	VV	14969	185121	4.54%	0.195%

175	12.180	12.167	12.194	VV	7096	83802	2.05%	0.088%
176	12.212	12.194	12.220	VV	9692	110680	2.71%	0.117%
177	12.239	12.220	12.275	VV	45640	563279	13.80%	0.594%
178	12.296	12.275	12.308	VV	5031	78155	1.92%	0.082%
179	12.325	12.308	12.341	VV	8198	117836	2.89%	0.124%
180	12.356	12.341	12.390	VV	7799	161063	3.95%	0.170%
181	12.424	12.390	12.451	VV	7373	209927	5.14%	0.221%
182	12.469	12.451	12.508	VV	14086	243345	5.96%	0.257%
183	12.531	12.508	12.558	VV	12920	199510	4.89%	0.210%
184	12.579	12.558	12.598	VV	38256	491544	12.05%	0.518%
185	12.614	12.598	12.631	VV	16937	256144	6.28%	0.270%
186	12.642	12.631	12.661	VV	13130	170035	4.17%	0.179%
187	12.697	12.661	12.742	VV	189083	2261818	55.43%	2.385%
188	12.759	12.742	12.773	VV	1036	12063	0.30%	0.013%
189	12.795	12.773	12.807	VV	3847	46783	1.15%	0.049%
190	12.832	12.807	12.864	VV	14117	278507	6.82%	0.294%
191	12.882	12.864	12.922	VV	16816	330335	8.09%	0.348%
192	12.937	12.922	12.967	VV	7699	147600	3.62%	0.156%
193	12.996	12.967	13.031	VV	175117	1978683	48.49%	2.086%
194	13.079	13.031	13.114	VV	272067	3546176	86.90%	3.739%
195	13.131	13.114	13.148	VV	3807	64169	1.57%	0.068%
196	13.168	13.148	13.181	VV	6676	95478	2.34%	0.101%
197	13.196	13.181	13.222	VV	6427	98587	2.42%	0.104%
198	13.266	13.222	13.305	PV	9146	223195	5.47%	0.235%
199	13.327	13.305	13.361	VV	12334	206003	5.05%	0.217%
200	13.391	13.361	13.405	VV	9819	147401	3.61%	0.155%
201	13.419	13.405	13.432	VV	7944	109425	2.68%	0.115%
202	13.454	13.432	13.478	VV	18183	330974	8.11%	0.349%
203	13.487	13.478	13.529	VV	8170	146705	3.60%	0.155%
204	13.583	13.529	13.619	VV	39981	751112	18.41%	0.792%
205	13.642	13.619	13.668	VV	5042	117512	2.88%	0.124%
206	13.693	13.668	13.711	VV	19683	271070	6.64%	0.286%
207	13.731	13.711	13.755	VV	25376	344818	8.45%	0.364%
208	13.773	13.755	13.796	VV	7353	134270	3.29%	0.142%
209	13.818	13.796	13.834	VV	8172	138753	3.40%	0.146%
210	13.861	13.834	13.882	VV	27975	404693	9.92%	0.427%
211	13.902	13.882	13.940	VV	22933	300399	7.36%	0.317%
212	13.974	13.940	14.000	VV	3290	72585	1.78%	0.077%
213	14.050	14.000	14.077	VV	2964	82745	2.03%	0.087%
214	14.092	14.077	14.126	VV	1575	25514	0.63%	0.027%
215	14.169	14.126	14.184	VV	2788	45438	1.11%	0.048%
216	14.204	14.184	14.237	VV	3010	71811	1.76%	0.076%
217	14.282	14.237	14.300	VV	9372	215487	5.28%	0.227%
218	14.319	14.300	14.360	VV	18867	305872	7.50%	0.323%
219	14.396	14.360	14.407	VV	8401	143979	3.53%	0.152%
220	14.421	14.407	14.468	VV	10782	214676	5.26%	0.226%
221	14.499	14.468	14.540	VV	24026	478567	11.73%	0.505%

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222	14.562	14.540	14.584	VV	28899	399679	9.79%	0.421%
223	14.624	14.584	14.658	VV	18428	346411	8.49%	0.365%
224	14.684	14.658	14.701	VV	5887	83830	2.05%	0.088%
225	14.743	14.701	14.791	VV	9987	240223	5.89%	0.253%
226	14.828	14.791	14.844	PV	9523	119423	2.93%	0.126%
227	14.873	14.844	14.892	VV	70174	897857	22.00%	0.947%
228	14.915	14.892	14.949	VV	79287	1072145	26.27%	1.131%
229	14.964	14.949	14.994	VV	3319	66059	1.62%	0.070%
230	15.034	14.994	15.064	VV	19198	340382	8.34%	0.359%
231	15.079	15.064	15.097	VV	8687	126464	3.10%	0.133%
232	15.115	15.097	15.146	VV	6509	114873	2.81%	0.121%
233	15.182	15.146	15.211	VV	13551	293044	7.18%	0.309%
234	15.234	15.211	15.266	VV	9151	202336	4.96%	0.213%
235	15.315	15.266	15.395	VV	35452	861357	21.11%	0.908%
236	15.455	15.395	15.486	VV	8615	255837	6.27%	0.270%
237	15.505	15.486	15.519	VV	7579	111057	2.72%	0.117%
238	15.546	15.519	15.568	VV	31652	450243	11.03%	0.475%
239	15.585	15.568	15.613	VV	15834	244547	5.99%	0.258%
240	15.631	15.613	15.641	VV	6576	91888	2.25%	0.097%
241	15.711	15.641	15.744	VV	19332	652167	15.98%	0.688%
242	15.785	15.744	15.815	VV	6591	192386	4.71%	0.203%
243	15.831	15.815	15.851	VV	5412	94781	2.32%	0.100%
244	15.872	15.851	15.891	VV	6936	115717	2.84%	0.122%
245	15.912	15.891	15.935	VV	7093	147615	3.62%	0.156%
246	15.958	15.935	16.002	VV	7767	242490	5.94%	0.256%
247	16.018	16.002	16.032	VV	4158	63004	1.54%	0.066%
248	16.048	16.032	16.061	VV	3291	54660	1.34%	0.058%
249	16.077	16.061	16.101	VV	3702	69559	1.70%	0.073%
250	16.148	16.101	16.178	VV	7800	232123	5.69%	0.245%
251	16.184	16.178	16.201	VV	6117	68608	1.68%	0.072%
252	16.251	16.201	16.281	VV	8964	312421	7.66%	0.329%
253	16.334	16.281	16.387	VV	14097	601110	14.73%	0.634%
254	16.434	16.387	16.502	VV	68238	1499560	36.75%	1.581%
255	16.564	16.502	16.589	VV	19169	423358	10.37%	0.446%
256	16.617	16.589	16.645	VV	6677	190753	4.67%	0.201%
257	16.685	16.645	16.699	VV	7482	169054	4.14%	0.178%
258	16.754	16.699	16.784	VV	47172	952740	23.35%	1.005%
259	16.812	16.784	16.848	VV	58438	838486	20.55%	0.884%
260	16.914	16.848	16.944	VV	20101	565520	13.86%	0.596%
261	16.973	16.944	17.003	VV	10111	307903	7.55%	0.325%
262	17.022	17.003	17.033	VV	9051	142820	3.50%	0.151%
263	17.064	17.033	17.104	VV	12169	417820	10.24%	0.441%
264	17.122	17.104	17.138	VV	9605	169388	4.15%	0.179%
265	17.179	17.138	17.251	VV	17187	762653	18.69%	0.804%
266	17.273	17.251	17.291	VV	18244	321163	7.87%	0.339%
267	17.312	17.291	17.326	VV	15059	276752	6.78%	0.292%
268	17.345	17.326	17.377	VV	17940	406887	9.97%	0.429%
269	17.400	17.377	17.417	VV	12029	235002	5.76%	0.248%

270	17.431	17.417	17.447	VV	rteres 10559	168919	4.14%	0.178%
271	17.473	17.447	17.500	VV	16729	376273	9.22%	0.397%
272	17.515	17.500	17.526	VV	10731	155422	3.81%	0.164%
273	17.531	17.526	17.553	VV	10175	145133	3.56%	0.153%
274	17.595	17.553	17.635	VV	9152	398640	9.77%	0.420%
275	17.656	17.635	17.687	VV	9091	257793	6.32%	0.272%
276	17.796	17.687	17.830	VV	16027	971652	23.81%	1.025%
277	17.876	17.830	17.896	VV	12865	445462	10.92%	0.470%
278	17.909	17.896	17.926	VV	12851	218033	5.34%	0.230%
279	17.979	17.926	18.014	VV	16253	715132	17.52%	0.754%
280	18.037	18.014	18.064	VV	14734	359856	8.82%	0.379%
281	18.094	18.064	18.130	VV	20067	562559	13.79%	0.593%
282	18.155	18.130	18.164	VV	24605	404652	9.92%	0.427%
283	18.184	18.164	18.204	VV	43055	753154	18.46%	0.794%
284	18.218	18.204	18.251	VV	25079	535272	13.12%	0.564%
285	18.269	18.251	18.288	VV	14337	274574	6.73%	0.290%
286	18.316	18.288	18.333	VV	23528	465620	11.41%	0.491%
287	18.349	18.333	18.405	VV	21178	681259	16.69%	0.718%
288	18.438	18.405	18.504	VV	47649	1183600	29.00%	1.248%
289	18.524	18.504	18.541	VV	14618	305932	7.50%	0.323%
290	18.570	18.541	18.600	VV	22607	596289	14.61%	0.629%
291	18.622	18.600	18.648	VV	17950	431308	10.57%	0.455%
292	18.668	18.648	18.679	VV	12911	227578	5.58%	0.240%
293	18.735	18.679	18.768	VV	16606	761804	18.67%	0.803%
294	18.785	18.768	18.809	VV	15794	374805	9.18%	0.395%
295	18.831	18.809	18.851	VV	16060	365678	8.96%	0.386%
296	18.871	18.851	18.891	VV	18810	393336	9.64%	0.415%
297	18.909	18.891	18.931	VV	15888	367599	9.01%	0.388%
298	18.985	18.931	19.016	VV	28957	1150228	28.19%	1.213%
299	19.027	19.016	19.074	VV	22817	673753	16.51%	0.710%
300	19.085	19.074	19.096	VV	15639	202965	4.97%	0.214%
301	19.123	19.096	19.148	VV	22571	604978	14.83%	0.638%
302	19.155	19.148	19.188	VV	19704	406638	9.96%	0.429%
303	19.196	19.188	19.207	VV	14922	167682	4.11%	0.177%
304	19.229	19.207	19.255	VV	16726	454983	11.15%	0.480%
305	19.294	19.255	19.348	VV	16931	844605	20.70%	0.891%
306	19.416	19.348	19.431	VV	16660	781297	19.15%	0.824%
307	19.452	19.431	19.466	VV	18708	361268	8.85%	0.381%
308	19.481	19.466	19.496	VV	18305	310278	7.60%	0.327%
309	19.531	19.496	19.560	VV	21360	712119	17.45%	0.751%
310	19.598	19.560	19.641	VV	32542	1129414	27.68%	1.191%
311	19.664	19.641	19.698	VV	29313	823409	20.18%	0.868%
312	19.713	19.698	19.733	VV	21199	434008	10.64%	0.458%
313	19.763	19.733	19.836	VV	26182	1330760	32.61%	1.403%
314	19.852	19.836	19.863	VV	18420	288423	7.07%	0.304%
315	19.879	19.863	19.904	VV	19715	468049	11.47%	0.494%
316	19.972	19.904	20.011	VV	32851	1497281	36.69%	1.579%

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317	20.038	20.011	20.094	VV	25452	1126394	27.60%	1.188%
318	20.117	20.094	20.138	VV	22687	560622	13.74%	0.591%
319	20.147	20.138	20.163	VV	21357	310310	7.60%	0.327%
320	20.178	20.163	20.194	VV	21578	377404	9.25%	0.398%
321	20.212	20.194	20.220	VV	21194	329430	8.07%	0.347%
322	20.241	20.220	20.259	VV	22125	504137	12.35%	0.532%
323	20.271	20.259	20.283	VV	21769	296664	7.27%	0.313%
324	20.317	20.283	20.351	VV	29279	982134	24.07%	1.036%
325	20.362	20.351	20.374	VV	22174	300942	7.37%	0.317%
326	20.385	20.374	20.391	VV	22396	226019	5.54%	0.238%
327	20.400	20.391	20.424	VV	22746	426453	10.45%	0.450%
328	20.436	20.424	20.488	VV	21046	780925	19.14%	0.823%
329	20.506	20.488	20.529	VV	20681	493126	12.08%	0.520%
330	20.538	20.529	20.561	VV	19629	364680	8.94%	0.385%
331	20.573	20.561	20.598	VV	19658	413659	10.14%	0.436%
332	20.641	20.598	20.668	VV	20259	787671	19.30%	0.831%
333	20.679	20.668	20.788	VV	18916	1218162	29.85%	1.285%
334	20.823	20.788	20.851	VV	16570	600892	14.73%	0.634%
335	20.877	20.851	20.888	VV	15463	339522	8.32%	0.358%
336	20.897	20.888	20.948	VV	15305	518065	12.70%	0.546%
337	20.994	20.948	21.018	VV	15060	592034	14.51%	0.624%
338	21.026	21.018	21.074	VV	14433	458734	11.24%	0.484%
339	21.096	21.074	21.144	VV	13927	540928	13.26%	0.570%
340	21.230	21.144	21.267	VV	12919	882846	21.63%	0.931%
341	21.279	21.267	21.292	VV	12009	171473	4.20%	0.181%
342	21.309	21.292	21.333	VV	12319	285704	7.00%	0.301%
343	21.404	21.333	21.429	VV	14427	727060	17.82%	0.767%
344	21.438	21.429	21.546	VV	11994	686581	16.82%	0.724%
345	21.575	21.546	21.592	VV	9395	238611	5.85%	0.252%
346	21.617	21.592	21.682	VV	9306	427508	10.48%	0.451%
347	21.713	21.682	21.764	VV	9954	395019	9.68%	0.417%
348	21.794	21.764	21.827	VV	9893	300165	7.36%	0.317%
349	21.852	21.827	21.880	VV	7715	216020	5.29%	0.228%
350	21.904	21.880	21.948	VV	7196	244490	5.99%	0.258%
351	21.955	21.948	22.028	VV	5445	217024	5.32%	0.229%
352	22.038	22.028	22.050	VV	4034	46345	1.14%	0.049%
353	22.082	22.050	22.118	VV	4316	154497	3.79%	0.163%
354	22.128	22.118	22.139	VV	3703	45074	1.10%	0.048%
355	22.169	22.139	22.201	VV	4022	123155	3.02%	0.130%
356	22.215	22.201	22.258	VV	3147	87280	2.14%	0.092%
357	22.272	22.258	22.302	VV	2617	57576	1.41%	0.061%
358	22.309	22.302	22.317	VV	1909	14869	0.36%	0.016%
359	22.326	22.317	22.338	VV	1745	19638	0.48%	0.021%
360	22.363	22.338	22.488	VV	1866	99250	2.43%	0.105%
361	22.495	22.488	22.514	VV	573	3317	0.08%	0.003%
Sum of corrected areas:						94835083		

Aliphatic EPH 092325.M Fri Oct 03 08:35:39 2025 rteres

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	2	SDG No.:	Q3216
Lab Sample ID:	Q3216-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 13:52	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	14.0		1	1.00	4.41	mg/kg	FC069912.D
Total EPH	Total EPH	14.0			1.00	4.41	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	2	SDG No.:	Q3216
Lab Sample ID:	Q3216-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069912.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	14.0		1.00	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.1		1.30	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	23.9		40 - 140	48%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.6		40 - 140	45%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3216-04	Acq On:	02 Oct 2025 13:52
Client Sample ID:	2	Operator:	YP/AJ
Data file:	FC069912.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	3.286	6.579	642861	4.815	300	ug/ml
Aliphatic C12-C16	6.580	9.978	3176398	20.274	200	ug/ml
Aliphatic C16-C21	9.979	13.344	16437081	91.547	300	ug/ml
Aliphatic C21-C28	13.345	17.006	13283596	73.414	400	ug/ml
Aliphatic C28-C40	17.007	21.955	36860886	286.46	600	ug/ml
Aliphatic EPH	3.286	21.955	70400822	476.509		ug/ml
ortho-Terphenyl (SURR)	11.645	11.645	4239723	22.64		ug/ml
1-chlorooctadecane (SURR)	13.080	13.080	3769765	23.87		ug/ml
Aliphatic C9-C28	3.286	17.006	33539936	190.05	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069912.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 13:52
Operator : YP/AJ
Sample : Q3216-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 07:52:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 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)	11.645	4239723	22.636 ug/ml
Spiked Amount 50.000		Recovery =	45.27%
12) S 1-chlorooctadecane (S...	13.080	3769765	23.872 ug/ml
Spiked Amount 50.000		Recovery =	47.74%

Target Compounds

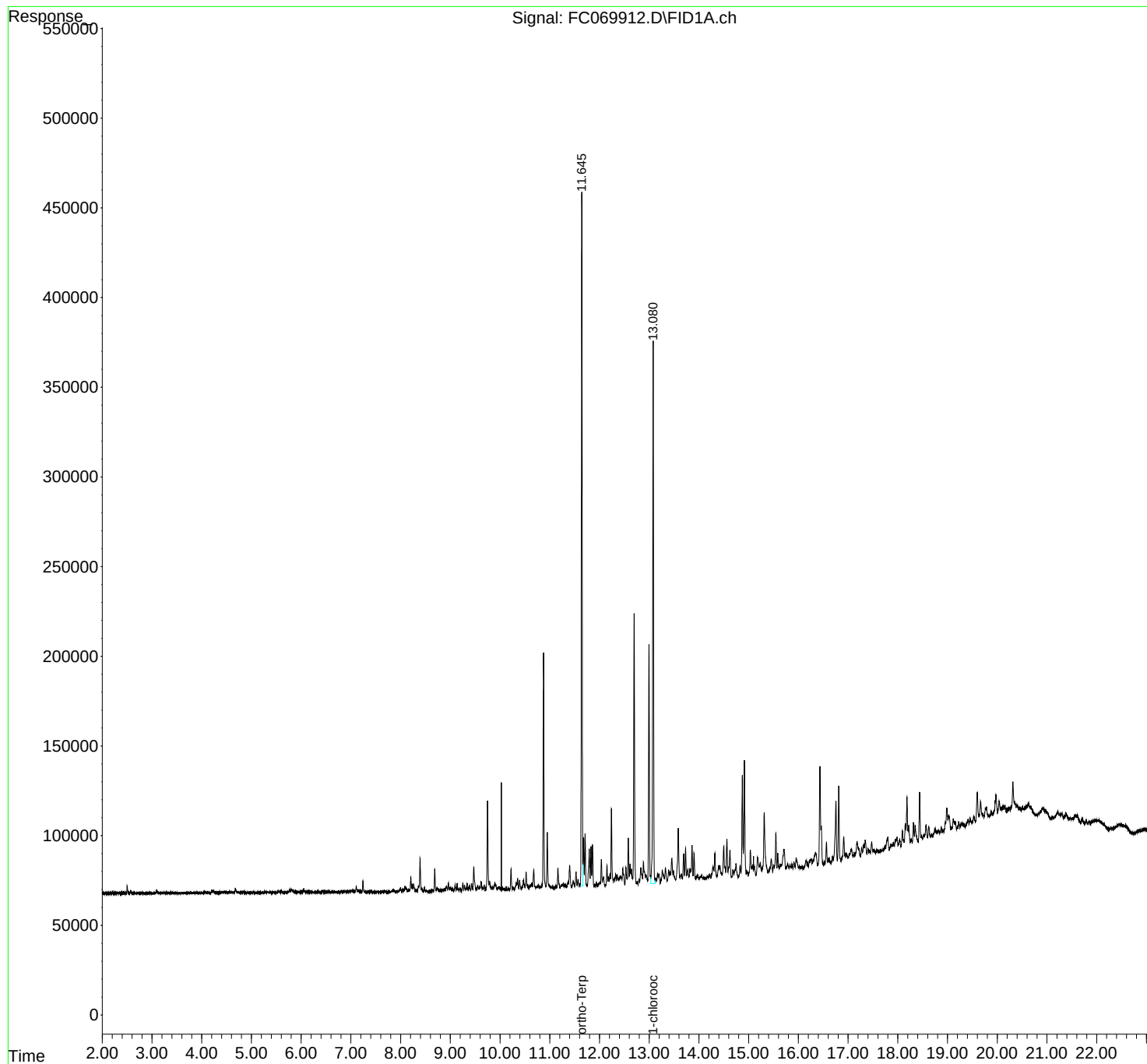
(f)=RT Delta > 1/2 Window

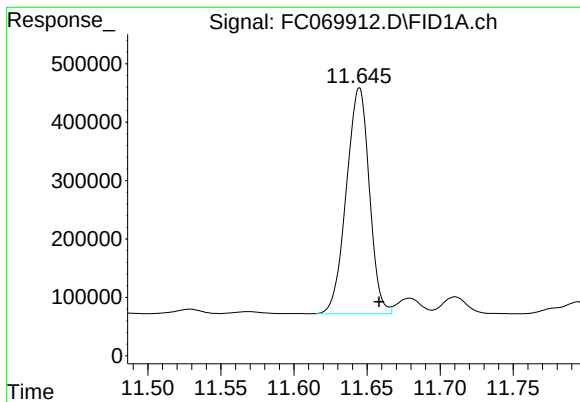
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069912.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 13:52
Operator : YP/AJ
Sample : Q3216-04
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 07:52:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

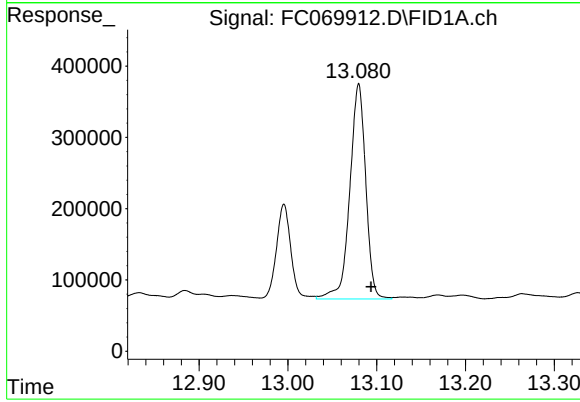
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 11.645 min
Delta R.T.: -0.014 min
Response: 4239723
Conc: 22.64 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.080 min
Delta R.T.: -0.014 min
Response: 3769765
Conc: 23.87 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069912.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 13:52
 Sample : Q3216-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.286	3.204	3.348	BV	220	5907	0.14%	0.008%
2	3.357	3.348	3.392	PV	115	1305	0.03%	0.002%
3	3.408	3.392	3.468	VV	200	3685	0.09%	0.005%
4	3.478	3.468	3.531	VV	97	2084	0.05%	0.003%
5	3.545	3.531	3.560	PV	84	962	0.02%	0.001%
6	3.596	3.560	3.611	VV	123	2344	0.05%	0.003%
7	3.630	3.611	3.641	VV	181	2009	0.05%	0.003%
8	3.661	3.641	3.698	VV	172	3947	0.09%	0.005%
9	3.775	3.698	3.804	VV	257	9400	0.22%	0.013%
10	3.820	3.804	3.847	VV	188	2646	0.06%	0.004%
11	3.884	3.847	3.911	PV	156	4098	0.10%	0.005%
12	3.929	3.911	3.952	VV	175	3195	0.07%	0.004%
13	3.968	3.952	3.979	VV	209	2327	0.05%	0.003%
14	3.999	3.979	4.028	VV	191	3167	0.07%	0.004%
15	4.085	4.028	4.141	VV	404	19431	0.46%	0.026%
16	4.148	4.141	4.180	VV	250	4885	0.11%	0.007%
17	4.204	4.180	4.226	VV	1517	23967	0.56%	0.032%
18	4.240	4.226	4.291	VV	969	23608	0.55%	0.031%
19	4.298	4.291	4.348	VV	398	9542	0.22%	0.013%
20	4.461	4.348	4.543	VV	602	42745	1.00%	0.057%
21	4.564	4.543	4.588	VV	761	12477	0.29%	0.017%
22	4.604	4.588	4.633	VV	467	9250	0.22%	0.012%
23	4.677	4.633	4.778	VV	2626	56475	1.32%	0.075%
24	4.795	4.778	4.804	VV	338	4345	0.10%	0.006%
25	4.816	4.804	4.855	VV	334	7702	0.18%	0.010%
26	4.871	4.855	4.892	VV	252	4272	0.10%	0.006%
27	4.911	4.892	4.984	VV	301	9516	0.22%	0.013%
28	4.999	4.984	5.010	VV	126	1684	0.04%	0.002%
29	5.051	5.010	5.074	VV	306	6236	0.15%	0.008%
30	5.100	5.074	5.124	VV	219	4177	0.10%	0.006%
31	5.153	5.124	5.165	VV	291	5106	0.12%	0.007%

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32	5.176	5.165	5.191	VV	225	2926	0.07%	0.004%
33	5.205	5.191	5.223	VV	224	3544	0.08%	0.005%
34	5.267	5.223	5.298	VV	674	13596	0.32%	0.018%
35	5.319	5.298	5.364	VV	648	13027	0.31%	0.017%
36	5.380	5.364	5.403	VV	318	4845	0.11%	0.006%
37	5.418	5.403	5.431	VV	226	3090	0.07%	0.004%
38	5.447	5.431	5.485	VV	289	5496	0.13%	0.007%
39	5.503	5.485	5.518	PV	312	4339	0.10%	0.006%
40	5.549	5.518	5.579	VV	964	20546	0.48%	0.027%
41	5.600	5.579	5.676	VV	1292	25890	0.61%	0.035%
42	5.685	5.676	5.707	VV	373	3902	0.09%	0.005%
43	5.723	5.707	5.743	VV	433	6785	0.16%	0.009%
44	5.766	5.743	5.783	VV	1575	23176	0.54%	0.031%
45	5.803	5.783	5.819	VV	2118	31944	0.75%	0.043%
46	5.829	5.819	5.876	VV	1212	25779	0.60%	0.034%
47	5.887	5.876	5.918	VV	407	8454	0.20%	0.011%
48	5.932	5.918	5.963	VV	299	7235	0.17%	0.010%
49	6.010	5.963	6.024	VV	500	12908	0.30%	0.017%
50	6.053	6.024	6.093	VV	2224	36652	0.86%	0.049%
51	6.111	6.093	6.122	VV	399	6418	0.15%	0.009%
52	6.138	6.122	6.173	VV	482	10775	0.25%	0.014%
53	6.197	6.173	6.217	VV	388	8134	0.19%	0.011%
54	6.229	6.217	6.284	VV	287	9184	0.22%	0.012%
55	6.300	6.284	6.310	VV	256	3675	0.09%	0.005%
56	6.326	6.310	6.364	VV	420	10825	0.25%	0.014%
57	6.373	6.364	6.391	VV	303	3918	0.09%	0.005%
58	6.432	6.391	6.468	VV	572	15973	0.37%	0.021%
59	6.479	6.468	6.533	VV	430	10046	0.24%	0.013%
60	6.556	6.533	6.611	VV	728	17285	0.41%	0.023%
61	6.630	6.611	6.648	VV	291	4878	0.11%	0.007%
62	6.682	6.648	6.730	VV	308	9534	0.22%	0.013%
63	6.757	6.730	6.771	VV	199	3538	0.08%	0.005%
64	6.805	6.771	6.833	VV	868	15935	0.37%	0.021%
65	6.854	6.833	6.871	VV	791	12303	0.29%	0.016%
66	6.886	6.871	6.906	VV	599	9813	0.23%	0.013%
67	6.925	6.906	6.941	VV	613	10221	0.24%	0.014%
68	6.976	6.941	6.994	VV	732	19677	0.46%	0.026%
69	7.015	6.994	7.038	VV	780	17688	0.41%	0.024%
70	7.109	7.038	7.143	VV	3378	73807	1.73%	0.098%
71	7.155	7.143	7.172	VV	856	12640	0.30%	0.017%
72	7.180	7.172	7.189	VV	687	6347	0.15%	0.008%
73	7.200	7.189	7.224	VV	666	10505	0.25%	0.014%
74	7.244	7.224	7.289	VV	6436	74338	1.74%	0.099%
75	7.302	7.289	7.318	VV	435	5630	0.13%	0.008%
76	7.343	7.318	7.374	VV	380	9262	0.22%	0.012%
77	7.378	7.374	7.386	VV	272	1779	0.04%	0.002%
78	7.405	7.386	7.441	VV	359	8263	0.19%	0.011%
79	7.464	7.441	7.494	PV	208	4535	0.11%	0.006%

80	7.507	7.494	7.568	VV	184	5879	0.14%	0.008%
81	7.590	7.568	7.614	VV	177	3822	0.09%	0.005%
82	7.628	7.614	7.641	VV	212	2566	0.06%	0.003%
83	7.659	7.641	7.668	VV	212	2460	0.06%	0.003%
84	7.692	7.668	7.729	VV	587	10536	0.25%	0.014%
85	7.743	7.729	7.761	PV	179	2514	0.06%	0.003%
86	7.837	7.761	7.847	VV	949	17315	0.41%	0.023%
87	7.856	7.847	7.918	VV	969	19730	0.46%	0.026%
88	7.934	7.918	7.954	VV	418	6782	0.16%	0.009%
89	7.999	7.954	8.025	VV	1535	39988	0.94%	0.053%
90	8.058	8.025	8.069	VV	1127	22806	0.53%	0.030%
91	8.104	8.069	8.148	VV	2614	71262	1.67%	0.095%
92	8.167	8.148	8.184	VV	1000	18137	0.43%	0.024%
93	8.205	8.184	8.222	VV	8278	94935	2.23%	0.127%
94	8.234	8.222	8.248	VV	4123	45991	1.08%	0.061%
95	8.263	8.248	8.334	VV	4087	75029	1.76%	0.100%
96	8.391	8.334	8.461	VV	18444	294523	6.91%	0.393%
97	8.480	8.461	8.518	VV	2288	29214	0.69%	0.039%
98	8.527	8.518	8.548	VV	389	3899	0.09%	0.005%
99	8.558	8.548	8.574	VV	114	1240	0.03%	0.002%
100	8.640	8.574	8.661	VV	834	15128	0.35%	0.020%
101	8.686	8.661	8.717	VV	12392	136712	3.21%	0.182%
102	8.737	8.717	8.784	VV	1773	39325	0.92%	0.052%
103	8.805	8.784	8.832	VV	813	15490	0.36%	0.021%
104	8.850	8.832	8.862	VV	936	11294	0.26%	0.015%
105	8.880	8.862	8.896	VV	1170	16202	0.38%	0.022%
106	8.925	8.896	8.943	VV	2629	45703	1.07%	0.061%
107	8.961	8.943	8.983	VV	4622	59854	1.40%	0.080%
108	8.998	8.983	9.023	VV	2015	33114	0.78%	0.044%
109	9.046	9.023	9.068	VV	1178	25376	0.60%	0.034%
110	9.096	9.068	9.118	VV	3452	45433	1.07%	0.061%
111	9.136	9.118	9.176	VV	4159	57466	1.35%	0.077%
112	9.195	9.176	9.223	VV	1521	23114	0.54%	0.031%
113	9.251	9.223	9.269	VV	4280	52957	1.24%	0.071%
114	9.284	9.269	9.303	VV	3050	35670	0.84%	0.048%
115	9.337	9.303	9.356	VV	4136	58583	1.37%	0.078%
116	9.387	9.356	9.410	VV	2837	46769	1.10%	0.062%
117	9.431	9.410	9.449	VV	4002	47127	1.11%	0.063%
118	9.472	9.449	9.528	VV	13385	215379	5.05%	0.287%
119	9.550	9.528	9.578	VV	3069	47851	1.12%	0.064%
120	9.620	9.578	9.642	VV	4830	94689	2.22%	0.126%
121	9.650	9.642	9.663	VV	1394	15542	0.36%	0.021%
122	9.682	9.663	9.703	VV	2961	40946	0.96%	0.055%
123	9.749	9.703	9.778	VV	49970	624506	14.65%	0.833%
124	9.791	9.778	9.830	VV	4576	86196	2.02%	0.115%
125	9.843	9.830	9.859	VV	1530	21550	0.51%	0.029%
126	9.895	9.859	9.939	VV	3597	104007	2.44%	0.139%

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127	9.970	9.939	10.034	VV	1574	81094	1.90%	0.108%
128	10.052	10.034	10.078	VV	1017	16391	0.38%	0.022%
129	10.092	10.078	10.118	VV	554	7395	0.17%	0.010%
130	10.125	10.118	10.194	PV	816	17345	0.41%	0.023%
131	10.221	10.194	10.251	VV	11522	135743	3.18%	0.181%
132	10.266	10.251	10.284	VV	970	12917	0.30%	0.017%
133	10.326	10.284	10.336	VV	3434	55308	1.30%	0.074%
134	10.354	10.336	10.376	VV	6302	88450	2.07%	0.118%
135	10.394	10.376	10.430	VV	5159	71687	1.68%	0.096%
136	10.471	10.430	10.504	VV	5127	101427	2.38%	0.135%
137	10.525	10.504	10.575	VV	9718	154734	3.63%	0.206%
138	10.612	10.575	10.624	VV	2276	49026	1.15%	0.065%
139	10.640	10.624	10.654	VV	3590	46454	1.09%	0.062%
140	10.678	10.654	10.730	VV	10733	181074	4.25%	0.241%
141	10.747	10.730	10.761	VV	1535	23226	0.54%	0.031%
142	10.771	10.761	10.789	VV	1925	22670	0.53%	0.030%
143	10.810	10.789	10.826	VV	1209	22008	0.52%	0.029%
144	10.843	10.826	10.849	VV	2374	23006	0.54%	0.031%
145	10.876	10.849	10.922	VV	129966	1467453	34.41%	1.956%
146	10.951	10.922	11.018	VV	31381	407231	9.55%	0.543%
147	11.032	11.018	11.073	VV	997	22792	0.53%	0.030%
148	11.085	11.073	11.103	VV	618	6446	0.15%	0.009%
149	11.125	11.103	11.144	PV	1569	20541	0.48%	0.027%
150	11.165	11.144	11.207	VV	11175	152316	3.57%	0.203%
151	11.238	11.207	11.253	VV	1660	33788	0.79%	0.045%
152	11.269	11.253	11.294	VV	2267	39311	0.92%	0.052%
153	11.317	11.294	11.336	VV	1384	28049	0.66%	0.037%
154	11.400	11.336	11.444	VV	12336	253289	5.94%	0.338%
155	11.475	11.444	11.499	VV	3149	63642	1.49%	0.085%
156	11.529	11.499	11.549	VV	8686	121368	2.85%	0.162%
157	11.569	11.549	11.610	VV	4449	77477	1.82%	0.103%
158	11.644	11.610	11.667	VV	388066	4264092	100.00%	5.685%
159	11.679	11.667	11.694	VV	27138	305434	7.16%	0.407%
160	11.710	11.694	11.753	VV	29700	357394	8.38%	0.476%
161	11.794	11.753	11.811	VV	21056	328644	7.71%	0.438%
162	11.828	11.811	11.843	VV	22478	254156	5.96%	0.339%
163	11.859	11.843	11.889	VV	23211	289197	6.78%	0.386%
164	11.902	11.889	11.918	VV	617	7489	0.18%	0.010%
165	11.937	11.918	11.957	VV	1786	23310	0.55%	0.031%
166	11.997	11.957	12.010	VV	1860	38547	0.90%	0.051%
167	12.038	12.010	12.059	VV	14931	189235	4.44%	0.252%
168	12.080	12.059	12.124	VV	5112	89519	2.10%	0.119%
169	12.150	12.124	12.168	VV	11428	134825	3.16%	0.180%
170	12.181	12.168	12.195	VV	4826	57729	1.35%	0.077%
171	12.212	12.195	12.221	VV	6567	75847	1.78%	0.101%
172	12.240	12.221	12.278	VV	42826	526913	12.36%	0.702%
173	12.295	12.278	12.308	VV	3875	58245	1.37%	0.078%
174	12.326	12.308	12.342	VV	5917	91434	2.14%	0.122%

175	12.357	12.342	12.390	VV	rteres 5241	113045	2.65%	0.151%
176	12.403	12.390	12.409	VV	4028	39453	0.93%	0.053%
177	12.426	12.409	12.451	VV	4965	108407	2.54%	0.145%
178	12.469	12.451	12.508	VV	9514	169045	3.96%	0.225%
179	12.531	12.508	12.558	VV	9815	145940	3.42%	0.195%
180	12.579	12.558	12.599	VV	26047	332388	7.80%	0.443%
181	12.615	12.599	12.631	VV	11497	166332	3.90%	0.222%
182	12.642	12.631	12.664	VV	8551	119667	2.81%	0.160%
183	12.697	12.664	12.744	VV	150900	1820579	42.70%	2.427%
184	12.759	12.744	12.775	VV	1035	13829	0.32%	0.018%
185	12.794	12.775	12.808	VV	2468	31553	0.74%	0.042%
186	12.832	12.808	12.866	VV	9172	185114	4.34%	0.247%
187	12.884	12.866	12.924	VV	12201	244800	5.74%	0.326%
188	12.938	12.924	12.967	VV	5067	97753	2.29%	0.130%
189	12.996	12.967	13.034	VV	132765	1517373	35.58%	2.023%
190	13.080	13.034	13.117	VV	302432	3765170	88.30%	5.019%
191	13.130	13.117	13.149	VV	2582	42738	1.00%	0.057%
192	13.169	13.149	13.181	VV	5530	73754	1.73%	0.098%
193	13.196	13.181	13.222	VV	5242	81230	1.90%	0.108%
194	13.265	13.222	13.306	PV	7131	173650	4.07%	0.231%
195	13.327	13.306	13.363	VV	8351	145857	3.42%	0.194%
196	13.392	13.363	13.407	VV	7082	109336	2.56%	0.146%
197	13.420	13.407	13.431	VV	5239	68841	1.61%	0.092%
198	13.455	13.431	13.478	VV	13376	236377	5.54%	0.315%
199	13.488	13.478	13.534	VV	5705	109680	2.57%	0.146%
200	13.585	13.534	13.620	VV	29796	543110	12.74%	0.724%
201	13.647	13.620	13.668	VV	3868	86489	2.03%	0.115%
202	13.693	13.668	13.712	VV	15303	210594	4.94%	0.281%
203	13.732	13.712	13.755	VV	18325	244132	5.73%	0.325%
204	13.776	13.755	13.798	VV	6475	117754	2.76%	0.157%
205	13.821	13.798	13.841	VV	5850	123983	2.91%	0.165%
206	13.862	13.841	13.883	VV	19578	262532	6.16%	0.350%
207	13.903	13.883	13.936	VV	15218	209327	4.91%	0.279%
208	13.961	13.936	14.001	VV	2648	73526	1.72%	0.098%
209	14.052	14.001	14.078	VV	2156	69209	1.62%	0.092%
210	14.093	14.078	14.114	VV	1418	21209	0.50%	0.028%
211	14.120	14.114	14.134	VV	774	7073	0.17%	0.009%
212	14.171	14.134	14.186	VV	1688	33024	0.77%	0.044%
213	14.220	14.186	14.238	VV	2563	57095	1.34%	0.076%
214	14.288	14.238	14.301	VV	6493	155167	3.64%	0.207%
215	14.320	14.301	14.361	VV	14432	229434	5.38%	0.306%
216	14.398	14.361	14.411	VV	7298	130348	3.06%	0.174%
217	14.423	14.411	14.468	VV	6976	141666	3.32%	0.189%
218	14.500	14.468	14.540	VV	17959	348280	8.17%	0.464%
219	14.563	14.540	14.584	VV	21673	295384	6.93%	0.394%
220	14.624	14.584	14.661	VV	15525	281173	6.59%	0.375%
221	14.685	14.661	14.702	VV	4169	59129	1.39%	0.079%

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222	14.746	14.702	14.795	VV	7526	179855	4.22%	0.240%
223	14.828	14.795	14.845	PV	6508	85473	2.00%	0.114%
224	14.874	14.845	14.893	VV	56707	720604	16.90%	0.961%
225	14.915	14.893	14.951	VV	64311	880409	20.65%	1.174%
226	14.965	14.951	14.995	VV	2674	45110	1.06%	0.060%
227	15.035	14.995	15.068	VV	14297	249544	5.85%	0.333%
228	15.080	15.068	15.094	VV	5913	73864	1.73%	0.098%
229	15.098	15.094	15.147	VV	5353	93897	2.20%	0.125%
230	15.181	15.147	15.212	PV	9810	208475	4.89%	0.278%
231	15.234	15.212	15.261	VV	6771	132738	3.11%	0.177%
232	15.313	15.261	15.393	VV	34061	730396	17.13%	0.974%
233	15.454	15.393	15.484	VV	7946	185473	4.35%	0.247%
234	15.504	15.484	15.515	VV	4184	56682	1.33%	0.076%
235	15.548	15.515	15.569	VV	21728	319712	7.50%	0.426%
236	15.585	15.569	15.614	VV	10605	152543	3.58%	0.203%
237	15.632	15.614	15.644	VV	4371	63280	1.48%	0.084%
238	15.655	15.644	15.661	VV	3826	36108	0.85%	0.048%
239	15.711	15.661	15.750	VV	12510	370111	8.68%	0.493%
240	15.785	15.750	15.815	VV	4141	101510	2.38%	0.135%
241	15.832	15.815	15.853	VV	3083	52880	1.24%	0.070%
242	15.871	15.853	15.891	VV	3515	54953	1.29%	0.073%
243	15.912	15.891	15.931	VV	4203	68503	1.61%	0.091%
244	15.957	15.931	16.001	VV	6655	160727	3.77%	0.214%
245	16.016	16.001	16.034	VV	1656	24471	0.57%	0.033%
246	16.049	16.034	16.060	VV	1134	14990	0.35%	0.020%
247	16.077	16.060	16.098	VV	1757	23999	0.56%	0.032%
248	16.154	16.098	16.174	VV	4349	102972	2.41%	0.137%
249	16.184	16.174	16.201	VV	3259	40060	0.94%	0.053%
250	16.221	16.201	16.234	VV	4225	60009	1.41%	0.080%
251	16.255	16.234	16.281	VV	5244	114134	2.68%	0.152%
252	16.341	16.281	16.388	VV	7734	323883	7.60%	0.432%
253	16.434	16.388	16.503	VV	55887	1129152	26.48%	1.505%
254	16.519	16.503	16.528	VV	2168	25646	0.60%	0.034%
255	16.565	16.528	16.589	VV	13096	205556	4.82%	0.274%
256	16.620	16.589	16.644	VV	3835	94258	2.21%	0.126%
257	16.655	16.644	16.663	VV	2087	20483	0.48%	0.027%
258	16.684	16.663	16.700	VV	4221	70092	1.64%	0.093%
259	16.755	16.700	16.783	VV	35485	674911	15.83%	0.900%
260	16.813	16.783	16.856	VV	43260	612332	14.36%	0.816%
261	16.913	16.856	16.944	VV	14989	348256	8.17%	0.464%
262	16.964	16.944	17.003	VV	5555	151673	3.56%	0.202%
263	17.023	17.003	17.033	VV	5139	78509	1.84%	0.105%
264	17.060	17.033	17.101	VV	7276	230662	5.41%	0.308%
265	17.120	17.101	17.137	VV	5369	95100	2.23%	0.127%
266	17.179	17.137	17.248	VV	11351	455205	10.68%	0.607%
267	17.274	17.248	17.291	VV	7635	143745	3.37%	0.192%
268	17.314	17.291	17.326	VV	9086	156805	3.68%	0.209%
269	17.347	17.326	17.381	VV	11609	262719	6.16%	0.350%

270	17.400	17.381	17.416	VV	rteres 6605	118231	2.77%	0.158%
271	17.427	17.416	17.447	VV	5526	92658	2.17%	0.124%
272	17.475	17.447	17.500	VV	10161	221352	5.19%	0.295%
273	17.515	17.500	17.553	VV	5836	157713	3.70%	0.210%
274	17.577	17.553	17.634	VV	5330	222349	5.21%	0.296%
275	17.658	17.634	17.674	VV	5293	108066	2.53%	0.144%
276	17.796	17.674	17.828	VV	11509	631000	14.80%	0.841%
277	17.870	17.828	17.894	VV	7377	256245	6.01%	0.342%
278	17.911	17.894	17.929	VV	8270	150774	3.54%	0.201%
279	17.955	17.929	17.968	VV	9934	204618	4.80%	0.273%
280	17.983	17.968	18.011	VV	10509	226282	5.31%	0.302%
281	18.036	18.011	18.061	VV	9370	233719	5.48%	0.312%
282	18.093	18.061	18.129	VV	14284	386136	9.06%	0.515%
283	18.152	18.129	18.164	VV	17986	294516	6.91%	0.393%
284	18.185	18.164	18.205	VV	32485	551195	12.93%	0.735%
285	18.218	18.205	18.252	VV	16491	350417	8.22%	0.467%
286	18.272	18.252	18.290	VV	9044	186968	4.38%	0.249%
287	18.315	18.290	18.332	VV	18106	314984	7.39%	0.420%
288	18.349	18.332	18.408	VV	16304	494459	11.60%	0.659%
289	18.439	18.408	18.466	VV	34437	611584	14.34%	0.815%
290	18.478	18.466	18.498	VV	10139	176465	4.14%	0.235%
291	18.526	18.498	18.541	VV	10110	246089	5.77%	0.328%
292	18.570	18.541	18.601	VV	15943	429442	10.07%	0.573%
293	18.623	18.601	18.653	VV	14331	358116	8.40%	0.477%
294	18.686	18.653	18.705	VV	9825	291773	6.84%	0.389%
295	18.750	18.705	18.770	VV	13133	434388	10.19%	0.579%
296	18.786	18.770	18.804	VV	11741	230620	5.41%	0.307%
297	18.822	18.804	18.848	VV	11645	285075	6.69%	0.380%
298	18.872	18.848	18.894	VV	13600	327964	7.69%	0.437%
299	18.917	18.894	18.928	VV	11781	229775	5.39%	0.306%
300	18.987	18.928	19.010	VV	23478	836370	19.61%	1.115%
301	19.025	19.010	19.066	VV	19345	558971	13.11%	0.745%
302	19.115	19.066	19.148	VV	16842	688828	16.15%	0.918%
303	19.159	19.148	19.182	VV	15290	272292	6.39%	0.363%
304	19.226	19.182	19.244	VV	14889	485707	11.39%	0.648%
305	19.293	19.244	19.321	VV	14022	617777	14.49%	0.824%
306	19.330	19.321	19.355	VV	13284	252225	5.92%	0.336%
307	19.412	19.355	19.431	VV	15566	634295	14.88%	0.846%
308	19.452	19.431	19.482	VV	16643	451610	10.59%	0.602%
309	19.495	19.482	19.504	VV	14359	182745	4.29%	0.244%
310	19.528	19.504	19.558	VV	17106	506343	11.87%	0.675%
311	19.598	19.558	19.631	VV	30131	911848	21.38%	1.216%
312	19.665	19.631	19.732	VV	24851	1155512	27.10%	1.540%
313	19.766	19.732	19.773	VV	20709	457935	10.74%	0.610%
314	19.783	19.773	19.837	VV	21552	688548	16.15%	0.918%
315	19.876	19.837	19.918	VV	18442	845397	19.83%	1.127%
316	19.973	19.918	20.004	VV	27498	1102200	25.85%	1.469%

					rteres			
317	20.039	20.004	20.081	VV	23856	941574	22.08%	1.255%
318	20.088	20.081	20.098	VV	19538	194589	4.56%	0.259%
319	20.117	20.098	20.133	VV	21002	424143	9.95%	0.565%
320	20.155	20.133	20.184	VV	21059	589764	13.83%	0.786%
321	20.196	20.184	20.208	VV	18482	259646	6.09%	0.346%
322	20.242	20.208	20.262	VV	19369	607165	14.24%	0.809%
323	20.315	20.262	20.341	VV	33586	1121163	26.29%	1.495%
324	20.350	20.341	20.379	VV	22400	477486	11.20%	0.637%
325	20.391	20.379	20.445	VV	20367	765141	17.94%	1.020%
326	20.456	20.445	20.484	VV	18532	428749	10.05%	0.572%
327	20.506	20.484	20.526	VV	19064	445236	10.44%	0.594%
328	20.630	20.526	20.767	VV	20440	2518598	59.07%	3.358%
329	20.784	20.767	20.798	VV	13717	243775	5.72%	0.325%
330	20.831	20.798	20.849	VV	14302	432060	10.13%	0.576%
331	20.901	20.849	20.914	VV	16746	589388	13.82%	0.786%
332	20.931	20.914	21.084	VV	16788	1390108	32.60%	1.853%
333	21.112	21.084	21.131	VV	11246	300904	7.06%	0.401%
334	21.219	21.131	21.252	VV	13604	873459	20.48%	1.164%
335	21.285	21.252	21.333	VV	12141	558182	13.09%	0.744%
336	21.382	21.333	21.448	VV	11611	706977	16.58%	0.942%
337	21.471	21.448	21.492	VV	9319	241362	5.66%	0.322%
338	21.514	21.492	21.530	VV	9166	200585	4.70%	0.267%
339	21.568	21.530	21.587	VV	10789	336393	7.89%	0.448%
340	21.602	21.587	21.672	VV	10305	434301	10.19%	0.579%
341	21.707	21.672	21.764	VV	8319	356769	8.37%	0.476%
342	21.793	21.764	21.824	VV	6872	207540	4.87%	0.277%
343	21.850	21.824	21.878	VV	5810	170172	3.99%	0.227%
344	21.902	21.878	21.924	VV	5833	151336	3.55%	0.202%
345	22.001	21.924	22.145	VV	6392	701635	16.45%	0.935%
346	22.153	22.145	22.261	VV	3162	96475	2.26%	0.129%
347	22.285	22.261	22.298	PV	755	9979	0.23%	0.013%
348	22.302	22.298	22.311	VV	580	3593	0.08%	0.005%
349	22.321	22.311	22.334	PV	415	3841	0.09%	0.005%
350	22.434	22.334	22.471	PV	812	29621	0.69%	0.039%

Sum of corrected areas: 75011136

Aliphatic EPH 092325.M Fri Oct 03 08:40:14 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	3	SDG No.:	Q3216
Lab Sample ID:	Q3216-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.3
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_F2

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 14:35	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	26.8		1	1.01	4.43	mg/kg	FC069913.D
Total EPH	Total EPH	26.8			1.01	4.43	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC		Date Collected:	09/25/25	
Project:	256-258 6TH AVE PATERSON		Date Received:	09/25/25	
Client Sample ID:	3		SDG No.:	Q3216	
Lab Sample ID:	Q3216-05		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	90.3	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_F2	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069913.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	26.8		1.01	4.43	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	58.2	E	1.30	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	24.7		40 - 140	49%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.4		40 - 140	47%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3216-05	Acq On:	02 Oct 2025 14:35
Client Sample ID:	3	Operator:	YP/AJ
Data file:	FC069913.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	3.286	6.579	1235695	9.255	300	ug/ml
Aliphatic C12-C16	6.580	9.978	8060951	51.451	200	ug/ml
Aliphatic C16-C21	9.979	13.344	25242784	140.59	300	ug/ml
Aliphatic C21-C28	13.345	17.006	29300906	161.936	400	ug/ml
Aliphatic C28-C40	17.007	21.955	101707618	790.41	600	ug/ml
Aliphatic EPH	3.286	21.955	165547954	1150		ug/ml
ortho-Terphenyl (SURR)	11.646	11.646	4389417	23.44		ug/ml
1-chlorooctadecane (SURR)	13.082	13.082	3895801	24.67		ug/ml
Aliphatic C9-C28	3.286	17.006	63840336	363.232	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069913.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 14:35
 Operator : YP/AJ
 Sample : Q3216-05
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 07:53:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.646	4389417	23.435 ug/ml
Spiked Amount 50.000		Recovery =	46.87%
12) S 1-chlorooctadecane (S...	13.082	3895801	24.670 ug/ml
Spiked Amount 50.000		Recovery =	49.34%

Target Compounds

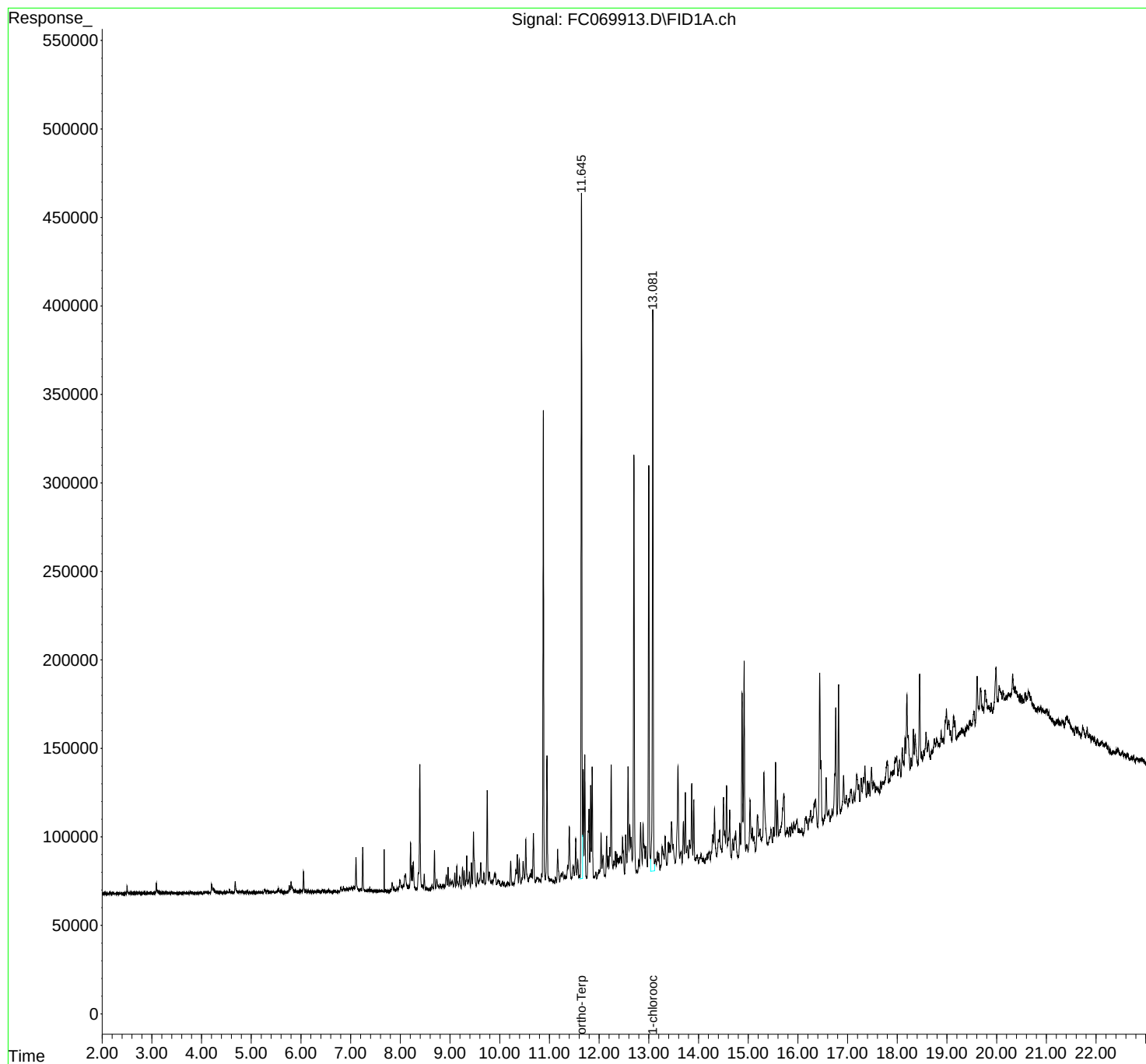
(f)=RT Delta > 1/2 Window

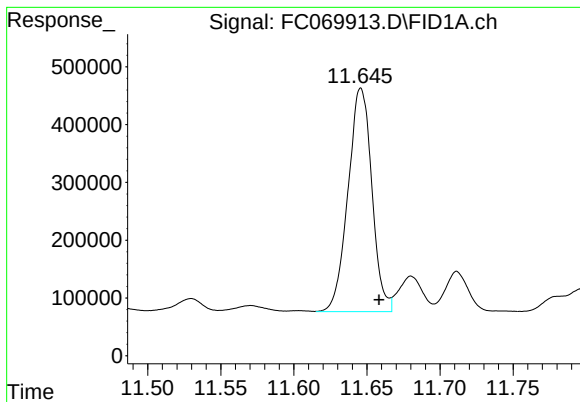
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069913.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 14:35
Operator : YP/AJ
Sample : Q3216-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 07:53:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

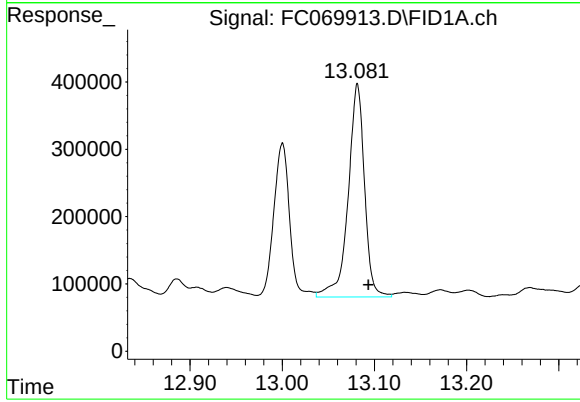
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 11.646 min
Delta R.T.: -0.012 min
Response: 4389417
Conc: 23.44 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.082 min
Delta R.T.: -0.012 min
Response: 3895801
Conc: 24.67 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069913.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 14:35
 Sample : Q3216-05
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.265	3.204	3.281	BV	115	1248	0.03%	0.001%
2	3.291	3.281	3.306	VV	263	1964	0.04%	0.001%
3	3.313	3.306	3.348	VV	106	1546	0.04%	0.001%
4	3.358	3.348	3.374	PV	122	1211	0.03%	0.001%
5	3.389	3.374	3.444	VV	652	11621	0.26%	0.007%
6	3.454	3.444	3.473	VV	188	1826	0.04%	0.001%
7	3.488	3.473	3.521	VV	157	2430	0.06%	0.001%
8	3.535	3.521	3.548	PV	105	655	0.01%	0.000%
9	3.552	3.548	3.564	VV	88	517	0.01%	0.000%
10	3.573	3.564	3.611	PV	139	2055	0.05%	0.001%
11	3.628	3.611	3.648	VV	343	4229	0.10%	0.002%
12	3.662	3.648	3.671	VV	193	2558	0.06%	0.001%
13	3.690	3.671	3.737	VV	265	6763	0.15%	0.004%
14	3.773	3.737	3.828	VV	735	17111	0.39%	0.010%
15	3.831	3.828	3.867	VV	223	2468	0.06%	0.001%
16	3.883	3.867	3.921	PV	239	4375	0.10%	0.002%
17	3.965	3.921	3.999	VV	353	7886	0.18%	0.004%
18	4.019	3.999	4.031	VV	99	1054	0.02%	0.001%
19	4.079	4.031	4.139	PV	848	29643	0.67%	0.017%
20	4.151	4.139	4.181	VV	392	6018	0.14%	0.003%
21	4.203	4.181	4.227	VV	5000	73847	1.67%	0.042%
22	4.239	4.227	4.395	VV	2890	83803	1.90%	0.048%
23	4.460	4.395	4.481	VV	562	18083	0.41%	0.010%
24	4.501	4.481	4.520	VV	730	11056	0.25%	0.006%
25	4.530	4.520	4.545	VV	479	5755	0.13%	0.003%
26	4.564	4.545	4.593	VV	2002	25147	0.57%	0.014%
27	4.608	4.593	4.647	VV	696	12400	0.28%	0.007%
28	4.677	4.647	4.778	VV	6466	116242	2.63%	0.066%
29	4.794	4.778	4.858	VV	969	26629	0.60%	0.015%
30	4.871	4.858	4.894	VV	310	4916	0.11%	0.003%
31	4.917	4.894	4.991	VV	735	19354	0.44%	0.011%

					rteres			
32	5.021	4.991	5.038	VV	225	3730	0.08%	0.002%
33	5.050	5.038	5.071	VV	383	4023	0.09%	0.002%
34	5.090	5.071	5.122	VV	196	4043	0.09%	0.002%
35	5.151	5.122	5.169	VV	737	11275	0.26%	0.006%
36	5.181	5.169	5.191	VV	369	3812	0.09%	0.002%
37	5.204	5.191	5.218	VV	456	4792	0.11%	0.003%
38	5.231	5.218	5.246	VV	410	4976	0.11%	0.003%
39	5.267	5.246	5.304	VV	1904	32878	0.74%	0.019%
40	5.320	5.304	5.362	VV	1318	23591	0.53%	0.013%
41	5.380	5.362	5.403	VV	506	7564	0.17%	0.004%
42	5.419	5.403	5.434	VV	760	8129	0.18%	0.005%
43	5.447	5.434	5.477	VV	634	7783	0.18%	0.004%
44	5.505	5.477	5.518	VV	638	9090	0.21%	0.005%
45	5.550	5.518	5.580	VV	2479	44416	1.01%	0.025%
46	5.599	5.580	5.664	VV	1597	24675	0.56%	0.014%
47	5.688	5.664	5.703	PV	289	3454	0.08%	0.002%
48	5.725	5.703	5.740	VV	470	5871	0.13%	0.003%
49	5.766	5.740	5.782	VV	3982	50503	1.14%	0.029%
50	5.801	5.782	5.878	VV	6090	144587	3.27%	0.082%
51	5.892	5.878	5.918	VV	1047	18445	0.42%	0.010%
52	5.929	5.918	5.944	VV	505	7251	0.16%	0.004%
53	5.958	5.944	5.972	VV	474	6907	0.16%	0.004%
54	6.003	5.972	6.024	VV	1022	24672	0.56%	0.014%
55	6.052	6.024	6.090	VV	11868	135557	3.07%	0.077%
56	6.101	6.090	6.121	VV	989	13148	0.30%	0.007%
57	6.142	6.121	6.170	VV	969	16198	0.37%	0.009%
58	6.195	6.170	6.218	VV	476	8717	0.20%	0.005%
59	6.231	6.218	6.247	VV	422	5116	0.12%	0.003%
60	6.298	6.247	6.308	VV	370	11222	0.25%	0.006%
61	6.325	6.308	6.338	VV	763	9353	0.21%	0.005%
62	6.349	6.338	6.388	VV	736	10789	0.24%	0.006%
63	6.432	6.388	6.468	VV	1178	30717	0.70%	0.017%
64	6.483	6.468	6.508	VV	830	12104	0.27%	0.007%
65	6.519	6.508	6.533	VV	253	2694	0.06%	0.002%
66	6.553	6.533	6.613	VV	1068	20451	0.46%	0.012%
67	6.631	6.613	6.652	VV	324	3674	0.08%	0.002%
68	6.681	6.652	6.721	PV	608	11115	0.25%	0.006%
69	6.728	6.721	6.739	VV	232	1578	0.04%	0.001%
70	6.759	6.739	6.775	VV	406	4068	0.09%	0.002%
71	6.803	6.775	6.834	VV	2711	47060	1.07%	0.027%
72	6.854	6.834	6.874	VV	3076	43608	0.99%	0.025%
73	6.888	6.874	6.902	VV	1721	22243	0.50%	0.013%
74	6.920	6.902	6.942	VV	1969	35459	0.80%	0.020%
75	6.977	6.942	6.993	VV	1985	50048	1.13%	0.028%
76	7.016	6.993	7.039	VV	2528	54395	1.23%	0.031%
77	7.061	7.039	7.076	VV	2788	48234	1.09%	0.027%
78	7.109	7.076	7.183	VV	19521	283587	6.42%	0.161%
79	7.204	7.183	7.221	VV	1883	27746	0.63%	0.016%

80	7.244	7.221	7.292	VV	rteres 25069	269764	6.11%	0.153%
81	7.304	7.292	7.324	VV	561	9546	0.22%	0.005%
82	7.337	7.324	7.351	VV	824	10578	0.24%	0.006%
83	7.363	7.351	7.394	VV	743	16109	0.36%	0.009%
84	7.417	7.394	7.443	VV	877	18092	0.41%	0.010%
85	7.471	7.443	7.494	VV	461	10627	0.24%	0.006%
86	7.531	7.494	7.568	VV	398	11173	0.25%	0.006%
87	7.583	7.568	7.605	VV	458	7831	0.18%	0.004%
88	7.621	7.605	7.645	VV	498	8519	0.19%	0.005%
89	7.658	7.645	7.666	VV	362	3044	0.07%	0.002%
90	7.675	7.666	7.724	VV	4571	26115	0.59%	0.015%
91	7.740	7.724	7.757	PV	159	1909	0.04%	0.001%
92	7.835	7.757	7.914	PV	4879	113747	2.58%	0.065%
93	7.934	7.914	7.951	VV	1887	23894	0.54%	0.014%
94	7.994	7.951	8.044	VV	5901	162708	3.68%	0.092%
95	8.061	8.044	8.070	VV	3544	43832	0.99%	0.025%
96	8.104	8.070	8.146	VV	9698	250095	5.66%	0.142%
97	8.161	8.146	8.177	VV	2640	37920	0.86%	0.022%
98	8.206	8.177	8.222	VV	26881	307411	6.96%	0.175%
99	8.235	8.222	8.248	VV	14088	151355	3.43%	0.086%
100	8.261	8.248	8.331	VV	16102	232988	5.28%	0.132%
101	8.392	8.331	8.432	VV	70983	987359	22.36%	0.561%
102	8.444	8.432	8.462	VV	2701	39204	0.89%	0.022%
103	8.481	8.462	8.514	VV	9100	108169	2.45%	0.061%
104	8.529	8.514	8.554	VV	946	13067	0.30%	0.007%
105	8.564	8.554	8.578	VV	288	2188	0.05%	0.001%
106	8.598	8.578	8.612	PV	385	4556	0.10%	0.003%
107	8.639	8.612	8.664	VV	2183	34778	0.79%	0.020%
108	8.687	8.664	8.713	VV	22225	235830	5.34%	0.134%
109	8.734	8.713	8.782	VV	5720	113800	2.58%	0.065%
110	8.803	8.782	8.832	VV	2640	51849	1.17%	0.029%
111	8.849	8.832	8.864	VV	2595	33491	0.76%	0.019%
112	8.878	8.864	8.894	VV	2238	32469	0.74%	0.018%
113	8.925	8.894	8.943	VV	7855	134846	3.05%	0.077%
114	8.960	8.943	8.983	VV	12273	145939	3.31%	0.083%
115	9.000	8.983	9.022	VV	5522	82571	1.87%	0.047%
116	9.050	9.022	9.068	VV	4375	88006	1.99%	0.050%
117	9.096	9.068	9.115	VV	8950	123064	2.79%	0.070%
118	9.136	9.115	9.174	VV	12656	179387	4.06%	0.102%
119	9.194	9.174	9.223	VV	6713	93890	2.13%	0.053%
120	9.251	9.223	9.269	VV	11905	157499	3.57%	0.090%
121	9.284	9.269	9.302	VV	9946	109660	2.48%	0.062%
122	9.337	9.302	9.357	VV	18374	236105	5.35%	0.134%
123	9.389	9.357	9.410	VV	8977	150546	3.41%	0.086%
124	9.431	9.410	9.450	VV	14364	165393	3.75%	0.094%
125	9.473	9.450	9.528	VV	31622	539294	12.21%	0.307%
126	9.551	9.528	9.581	VV	8524	137370	3.11%	0.078%

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127	9.618	9.581	9.642	VV	14268	259918	5.89%	0.148%
128	9.651	9.642	9.664	VV	4059	44482	1.01%	0.025%
129	9.682	9.664	9.704	VV	8385	115118	2.61%	0.065%
130	9.749	9.704	9.773	VV	54636	707516	16.02%	0.402%
131	9.793	9.773	9.824	VV	8584	164242	3.72%	0.093%
132	9.845	9.824	9.860	VV	4230	64816	1.47%	0.037%
133	9.894	9.860	9.905	VV	7485	138282	3.13%	0.079%
134	9.915	9.905	9.939	VV	7688	95416	2.16%	0.054%
135	9.970	9.939	10.022	VV	4105	120759	2.73%	0.069%
136	10.052	10.022	10.077	VV	2723	51720	1.17%	0.029%
137	10.092	10.077	10.113	VV	2201	26787	0.61%	0.015%
138	10.138	10.113	10.147	PV	1473	18789	0.43%	0.011%
139	10.164	10.147	10.197	VV	2348	47494	1.08%	0.027%
140	10.222	10.197	10.251	VV	14284	184555	4.18%	0.105%
141	10.267	10.251	10.284	VV	1927	25921	0.59%	0.015%
142	10.327	10.284	10.337	VV	8984	149763	3.39%	0.085%
143	10.354	10.337	10.376	VV	17757	244000	5.53%	0.139%
144	10.394	10.376	10.428	VV	14666	196237	4.44%	0.112%
145	10.472	10.428	10.502	VV	13655	281160	6.37%	0.160%
146	10.525	10.502	10.578	VV	25920	426613	9.66%	0.242%
147	10.613	10.578	10.624	VV	6258	129247	2.93%	0.073%
148	10.641	10.624	10.654	VV	8758	115249	2.61%	0.066%
149	10.679	10.654	10.718	VV	28828	436081	9.88%	0.248%
150	10.749	10.718	10.761	VV	3893	72485	1.64%	0.041%
151	10.772	10.761	10.788	VV	3911	48055	1.09%	0.027%
152	10.802	10.788	10.826	VV	2962	51488	1.17%	0.029%
153	10.878	10.826	10.918	VV	267472	2883483	65.30%	1.639%
154	10.951	10.918	10.994	VV	72287	922138	20.88%	0.524%
155	11.004	10.994	11.018	VV	2667	32575	0.74%	0.019%
156	11.031	11.018	11.071	VV	2269	54379	1.23%	0.031%
157	11.084	11.071	11.103	VV	1729	20188	0.46%	0.011%
158	11.124	11.103	11.143	PV	2966	37744	0.85%	0.021%
159	11.166	11.143	11.207	VV	18960	283464	6.42%	0.161%
160	11.239	11.207	11.254	VV	4826	98407	2.23%	0.056%
161	11.270	11.254	11.292	VV	5892	94825	2.15%	0.054%
162	11.305	11.292	11.335	VV	3296	70307	1.59%	0.040%
163	11.369	11.335	11.377	VV	9202	145563	3.30%	0.083%
164	11.400	11.377	11.443	VV	30848	510439	11.56%	0.290%
165	11.478	11.443	11.500	VV	8527	178470	4.04%	0.101%
166	11.529	11.500	11.549	VV	23677	329950	7.47%	0.188%
167	11.570	11.549	11.595	VV	11695	181941	4.12%	0.103%
168	11.603	11.595	11.613	VV	2753	24800	0.56%	0.014%
169	11.646	11.613	11.667	VV	389186	4415646	100.00%	2.510%
170	11.680	11.667	11.696	VV	62074	701834	15.89%	0.399%
171	11.712	11.696	11.754	VV	70121	790471	17.90%	0.449%
172	11.796	11.754	11.812	VV	39121	707808	16.03%	0.402%
173	11.830	11.812	11.844	VV	53068	603412	13.67%	0.343%
174	11.861	11.844	11.889	VV	63393	735833	16.66%	0.418%

175	11.901	11.889	11.912	VV	rteres 1322	13146	0.30%	0.007%
176	11.935	11.912	11.957	VV	3477	50819	1.15%	0.029%
177	12.040	11.957	12.058	PV	25100	408967	9.26%	0.232%
178	12.080	12.058	12.108	VV	12419	218932	4.96%	0.124%
179	12.119	12.108	12.124	VV	1038	8617	0.20%	0.005%
180	12.151	12.124	12.169	VV	22911	284674	6.45%	0.162%
181	12.183	12.169	12.197	VV	11824	139200	3.15%	0.079%
182	12.215	12.197	12.223	VV	16501	187791	4.25%	0.107%
183	12.243	12.223	12.281	VV	63545	820534	18.58%	0.466%
184	12.297	12.281	12.309	VV	8510	114917	2.60%	0.065%
185	12.328	12.309	12.344	VV	13974	207349	4.70%	0.118%
186	12.360	12.344	12.393	VV	11922	260186	5.89%	0.148%
187	12.404	12.393	12.413	VV	9592	109109	2.47%	0.062%
188	12.429	12.413	12.454	VV	11004	229482	5.20%	0.130%
189	12.472	12.454	12.511	VV	21418	386852	8.76%	0.220%
190	12.534	12.511	12.559	VV	22236	330490	7.48%	0.188%
191	12.583	12.559	12.601	VV	60557	788875	17.87%	0.448%
192	12.617	12.601	12.635	VV	27820	433798	9.82%	0.247%
193	12.646	12.635	12.666	VV	20921	274375	6.21%	0.156%
194	12.701	12.666	12.753	VV	236049	2877452	65.16%	1.636%
195	12.764	12.753	12.775	VV	1047	10353	0.23%	0.006%
196	12.798	12.775	12.811	VV	7348	88551	2.01%	0.050%
197	12.835	12.811	12.867	VV	28495	497885	11.28%	0.283%
198	12.886	12.867	12.924	VV	27641	517907	11.73%	0.294%
199	12.940	12.924	12.971	VV	14572	264681	5.99%	0.150%
200	13.000	12.971	13.037	VV	229398	2738569	62.02%	1.557%
201	13.082	13.037	13.117	VV	316144	3895708	88.23%	2.214%
202	13.134	13.117	13.153	VV	6636	112355	2.54%	0.064%
203	13.172	13.153	13.187	VV	10390	148579	3.36%	0.084%
204	13.202	13.187	13.224	VV	9720	131979	2.99%	0.075%
205	13.269	13.224	13.309	PV	13167	350021	7.93%	0.199%
206	13.330	13.309	13.366	VV	18948	322664	7.31%	0.183%
207	13.392	13.366	13.407	VV	15011	224880	5.09%	0.128%
208	13.422	13.407	13.436	VV	13247	203281	4.60%	0.116%
209	13.458	13.436	13.483	VV	26223	503725	11.41%	0.286%
210	13.491	13.483	13.532	VV	13438	233103	5.28%	0.132%
211	13.588	13.532	13.623	VV	57202	1130354	25.60%	0.642%
212	13.652	13.623	13.672	VV	8382	196904	4.46%	0.112%
213	13.697	13.672	13.716	VV	25565	372244	8.43%	0.212%
214	13.736	13.716	13.758	VV	41810	546293	12.37%	0.311%
215	13.777	13.758	13.799	VV	11489	207410	4.70%	0.118%
216	13.819	13.799	13.836	VV	14442	229019	5.19%	0.130%
217	13.865	13.836	13.885	VV	46091	654699	14.83%	0.372%
218	13.905	13.885	13.934	VV	36520	471972	10.69%	0.268%
219	13.975	13.934	14.004	VV	4742	134349	3.04%	0.076%
220	14.052	14.004	14.079	VV	4972	140151	3.17%	0.080%
221	14.096	14.079	14.129	VV	2895	45535	1.03%	0.026%

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222	14.172	14.129	14.186	PV	4525	78164	1.77%	0.044%
223	14.213	14.186	14.240	VV	5691	128730	2.92%	0.073%
224	14.288	14.240	14.304	VV	15148	334732	7.58%	0.190%
225	14.323	14.304	14.364	VV	29606	479584	10.86%	0.273%
226	14.426	14.364	14.471	VV	16792	565382	12.80%	0.321%
227	14.502	14.471	14.543	VV	35197	753752	17.07%	0.428%
228	14.565	14.543	14.587	VV	41754	599789	13.58%	0.341%
229	14.627	14.587	14.661	VV	27537	518456	11.74%	0.295%
230	14.688	14.661	14.707	VV	10556	163709	3.71%	0.093%
231	14.748	14.707	14.801	VV	15259	386890	8.76%	0.220%
232	14.831	14.801	14.848	PV	18969	239272	5.42%	0.136%
233	14.877	14.848	14.896	VV	92522	1232153	27.90%	0.700%
234	14.918	14.896	14.950	VV	109277	1418433	32.12%	0.806%
235	14.966	14.950	14.997	VV	5780	121320	2.75%	0.069%
236	15.038	14.997	15.066	VV	30528	542617	12.29%	0.308%
237	15.084	15.066	15.102	VV	14570	228895	5.18%	0.130%
238	15.117	15.102	15.150	VV	9526	170159	3.85%	0.097%
239	15.186	15.150	15.214	VV	21265	457648	10.36%	0.260%
240	15.237	15.214	15.268	VV	12888	298432	6.76%	0.170%
241	15.316	15.268	15.400	VV	44115	1203158	27.25%	0.684%
242	15.460	15.400	15.488	VV	10847	344457	7.80%	0.196%
243	15.508	15.488	15.522	VV	11677	160137	3.63%	0.091%
244	15.551	15.522	15.572	VV	48080	702566	15.91%	0.399%
245	15.589	15.572	15.616	VV	25963	379769	8.60%	0.216%
246	15.635	15.616	15.643	VV	9296	129126	2.92%	0.073%
247	15.717	15.643	15.748	VV	29014	1041147	23.58%	0.592%
248	15.788	15.748	15.813	VV	9177	271332	6.14%	0.154%
249	15.834	15.813	15.858	VV	9497	183279	4.15%	0.104%
250	15.875	15.858	15.898	VV	10655	188093	4.26%	0.107%
251	15.917	15.898	15.934	VV	11104	201007	4.55%	0.114%
252	15.981	15.934	16.007	VV	11773	408189	9.24%	0.232%
253	16.020	16.007	16.068	VV	6776	200565	4.54%	0.114%
254	16.080	16.068	16.100	VV	6637	98286	2.23%	0.056%
255	16.164	16.100	16.205	VV	12954	508551	11.52%	0.289%
256	16.256	16.205	16.283	VV	15653	517382	11.72%	0.294%
257	16.328	16.283	16.336	VV	19058	435439	9.86%	0.248%
258	16.354	16.336	16.394	VV	20838	525068	11.89%	0.298%
259	16.440	16.394	16.510	VV	90371	2111714	47.82%	1.200%
260	16.569	16.510	16.600	VV	31415	769258	17.42%	0.437%
261	16.623	16.600	16.647	VV	12612	301982	6.84%	0.172%
262	16.689	16.647	16.704	VV	13127	333054	7.54%	0.189%
263	16.762	16.704	16.789	VV	69136	1470698	33.31%	0.836%
264	16.819	16.789	16.856	VV	82222	1272696	28.82%	0.723%
265	16.920	16.856	16.953	VV	30444	985919	22.33%	0.560%
266	16.975	16.953	17.012	VV	18613	545998	12.37%	0.310%
267	17.029	17.012	17.040	VV	15875	247637	5.61%	0.141%
268	17.077	17.040	17.108	VV	21512	731340	16.56%	0.416%
269	17.128	17.108	17.146	VV	19252	375771	8.51%	0.214%

270	17.185	17.146	17.212	VV	rteres 28845	905110	20.50%	0.514%
271	17.226	17.212	17.250	VV	22779	426224	9.65%	0.242%
272	17.275	17.250	17.295	VV	25866	575634	13.04%	0.327%
273	17.318	17.295	17.332	VV	26186	507606	11.50%	0.289%
274	17.349	17.332	17.380	VV	32411	701602	15.89%	0.399%
275	17.404	17.380	17.420	VV	23483	455773	10.32%	0.259%
276	17.433	17.420	17.453	VV	22028	362969	8.22%	0.206%
277	17.482	17.453	17.506	VV	30370	737135	16.69%	0.419%
278	17.522	17.506	17.561	VV	21768	651314	14.75%	0.370%
279	17.575	17.561	17.593	VV	19101	342286	7.75%	0.195%
280	17.609	17.593	17.644	VV	18715	525679	11.90%	0.299%
281	17.665	17.644	17.678	VV	20728	374030	8.47%	0.213%
282	17.801	17.678	17.828	VV	31850	2075682	47.01%	1.180%
283	17.866	17.828	17.901	VV	24770	999188	22.63%	0.568%
284	17.918	17.901	17.934	VV	25448	477840	10.82%	0.272%
285	17.958	17.934	17.971	VV	31935	659958	14.95%	0.375%
286	17.990	17.971	18.018	VV	33344	805815	18.25%	0.458%
287	18.047	18.018	18.074	VV	30002	886816	20.08%	0.504%
288	18.101	18.074	18.133	VV	36969	1048116	23.74%	0.596%
289	18.156	18.133	18.171	VV	41934	820271	18.58%	0.466%
290	18.194	18.171	18.258	VV	66666	2192366	49.65%	1.246%
291	18.275	18.258	18.294	VV	29947	599937	13.59%	0.341%
292	18.324	18.294	18.342	VV	46142	1017201	23.04%	0.578%
293	18.360	18.342	18.414	VV	42011	1457977	33.02%	0.829%
294	18.449	18.414	18.478	VV	76106	1712830	38.79%	0.974%
295	18.487	18.478	18.508	VV	31736	523541	11.86%	0.298%
296	18.532	18.508	18.545	VV	32069	669630	15.16%	0.381%
297	18.578	18.545	18.605	VV	42259	1256080	28.45%	0.714%
298	18.628	18.605	18.668	VV	37330	1212865	27.47%	0.689%
299	18.748	18.668	18.771	VV	37586	1990878	45.09%	1.132%
300	18.791	18.771	18.857	VV	36865	1769720	40.08%	1.006%
301	18.883	18.857	18.921	VV	40713	1382528	31.31%	0.786%
302	18.928	18.921	18.938	VV	35884	353255	8.00%	0.201%
303	18.989	18.938	19.014	VV	52736	2017036	45.68%	1.146%
304	19.038	19.014	19.068	VV	45740	1342132	30.39%	0.763%
305	19.076	19.068	19.098	VV	39223	658234	14.91%	0.374%
306	19.133	19.098	19.151	VV	47489	1335221	30.24%	0.759%
307	19.162	19.151	19.198	VV	44173	1068986	24.21%	0.608%
308	19.239	19.198	19.251	VV	36993	1140761	25.83%	0.648%
309	19.258	19.251	19.271	VV	37181	441221	9.99%	0.251%
310	19.294	19.271	19.304	VV	39460	751528	17.02%	0.427%
311	19.322	19.304	19.360	VV	38307	1225947	27.76%	0.697%
312	19.378	19.360	19.388	VV	38399	618757	14.01%	0.352%
313	19.408	19.388	19.433	VV	39281	1046927	23.71%	0.595%
314	19.465	19.433	19.484	VV	42340	1267146	28.70%	0.720%
315	19.491	19.484	19.502	VV	40525	426739	9.66%	0.243%
316	19.544	19.502	19.568	VV	47007	1693088	38.34%	0.962%

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317	19.608	19.568	19.648	VV	66317	2450586	55.50%	1.393%
318	19.674	19.648	19.714	VV	58864	2073593	46.96%	1.179%
319	19.728	19.714	19.741	VV	47967	780243	17.67%	0.443%
320	19.769	19.741	19.824	VV	56989	2551827	57.79%	1.450%
321	19.845	19.824	19.872	VV	47887	1331409	30.15%	0.757%
322	19.891	19.872	19.917	VV	48875	1239153	28.06%	0.704%
323	19.987	19.917	20.030	VV	68953	3604532	81.63%	2.049%
324	20.051	20.030	20.109	VV	57491	2549634	57.74%	1.449%
325	20.128	20.109	20.175	VV	54097	2016379	45.66%	1.146%
326	20.193	20.175	20.208	VV	50828	982409	22.25%	0.558%
327	20.242	20.208	20.277	VV	51584	2108455	47.75%	1.198%
328	20.288	20.277	20.294	VV	51653	530248	12.01%	0.301%
329	20.322	20.294	20.355	VV	61346	2026675	45.90%	1.152%
330	20.372	20.355	20.426	VV	53960	2194085	49.69%	1.247%
331	20.435	20.426	20.460	VV	49543	975623	22.09%	0.555%
332	20.470	20.460	20.494	VV	49013	977508	22.14%	0.556%
333	20.502	20.494	20.547	VV	48442	1440399	32.62%	0.819%
334	20.574	20.547	20.592	VV	48728	1297904	29.39%	0.738%
335	20.602	20.592	20.615	VV	47263	639816	14.49%	0.364%
336	20.637	20.615	20.684	VV	50398	1987292	45.01%	1.130%
337	20.692	20.684	20.791	VV	46866	2660779	60.26%	1.512%
338	20.799	20.791	20.814	VV	39314	534889	12.11%	0.304%
339	20.831	20.814	20.874	VV	39542	1362736	30.86%	0.775%
340	20.887	20.874	20.918	VV	39438	1001857	22.69%	0.569%
341	20.928	20.918	20.973	VV	38200	1207453	27.34%	0.686%
342	21.011	20.973	21.034	VV	37368	1315787	29.80%	0.748%
343	21.047	21.034	21.077	VV	34930	875929	19.84%	0.498%
344	21.087	21.077	21.111	VV	32505	633385	14.34%	0.360%
345	21.126	21.111	21.159	VV	30928	842312	19.08%	0.479%
346	21.172	21.159	21.187	VV	28768	482281	10.92%	0.274%
347	21.204	21.187	21.219	VV	29486	536812	12.16%	0.305%
348	21.232	21.219	21.261	VV	29521	724461	16.41%	0.412%
349	21.271	21.261	21.298	VV	28331	599605	13.58%	0.341%
350	21.317	21.298	21.358	VV	28408	992691	22.48%	0.564%
351	21.425	21.358	21.531	VV	29903	2708561	61.34%	1.540%
352	21.540	21.531	21.565	VV	21966	423748	9.60%	0.241%
353	21.590	21.565	21.610	VV	22900	568454	12.87%	0.323%
354	21.630	21.610	21.694	VV	22291	981888	22.24%	0.558%
355	21.730	21.694	21.788	VV	22834	1052975	23.85%	0.599%
356	21.822	21.788	21.851	VV	20606	656717	14.87%	0.373%
357	21.871	21.851	21.901	VV	16549	459530	10.41%	0.261%
358	21.927	21.901	21.958	VV	15074	460671	10.43%	0.262%
359	21.968	21.958	21.998	VV	14329	288969	6.54%	0.164%
360	22.028	21.998	22.048	VV	12826	330298	7.48%	0.188%
361	22.058	22.048	22.064	VV	9628	91282	2.07%	0.052%
362	22.121	22.064	22.148	VV	10558	484727	10.98%	0.276%
363	22.160	22.148	22.172	VV	8555	116853	2.65%	0.066%
364	22.192	22.172	22.204	VV	9068	165100	3.74%	0.094%

365	22.207	22.204	22.222	VV	rteres 8606	78451	1.78%	0.045%
366	22.230	22.222	22.270	VV	6995	157720	3.57%	0.090%
367	22.282	22.270	22.313	VV	5449	90469	2.05%	0.051%
368	22.338	22.313	22.364	VV	3973	88373	2.00%	0.050%
369	22.374	22.364	22.408	VV	2629	60135	1.36%	0.034%
370	22.449	22.408	22.494	VV	3934	118692	2.69%	0.067%

Sum of corrected areas: 175931625

Aliphatic EPH 092325.M Fri Oct 03 08:41:15 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	4	SDG No.:	Q3216
Lab Sample ID:	Q3216-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 15:18	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	15.4		1	1.00	4.40	mg/kg	FC069914.D
Total EPH	Total EPH	15.4			1.00	4.40	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	4	SDG No.:	Q3216
Lab Sample ID:	Q3216-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069914.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	15.4		1.00	4.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	41.7		1.30	2.20	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	25.1		40 - 140	50%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.4		40 - 140	49%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3216-06	Acq On:	02 Oct 2025 15:18
Client Sample ID:	4	Operator:	YP/AJ
Data file:	FC069914.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.286	6.579	808953	6.059	300	ug/ml
Aliphatic C12-C16	6.580	9.978	4373360	27.914	200	ug/ml
Aliphatic C16-C21	9.979	13.344	15079511	83.986	300	ug/ml
Aliphatic C21-C28	13.345	17.006	16571602	91.585	400	ug/ml
Aliphatic C28-C40	17.007	21.955	73180224	568.712	600	ug/ml
Aliphatic EPH	3.286	21.955	110013650	778.256		ug/ml
ortho-Terphenyl (SURR)	11.647	11.647	4564667	24.37		ug/ml
1-chlorooctadecane (SURR)	13.082	13.082	3970689	25.14		ug/ml
Aliphatic C9-C28	3.286	17.006	36833426	209.544	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069914.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 15:18
 Operator : YP/AJ
 Sample : Q3216-06
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 07:54:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.647	4564667	24.371 ug/ml
Spiked Amount 50.000		Recovery =	48.74%
12) S 1-chlorooctadecane (S...	13.082	3970689	25.144 ug/ml
Spiked Amount 50.000		Recovery =	50.29%

Target Compounds

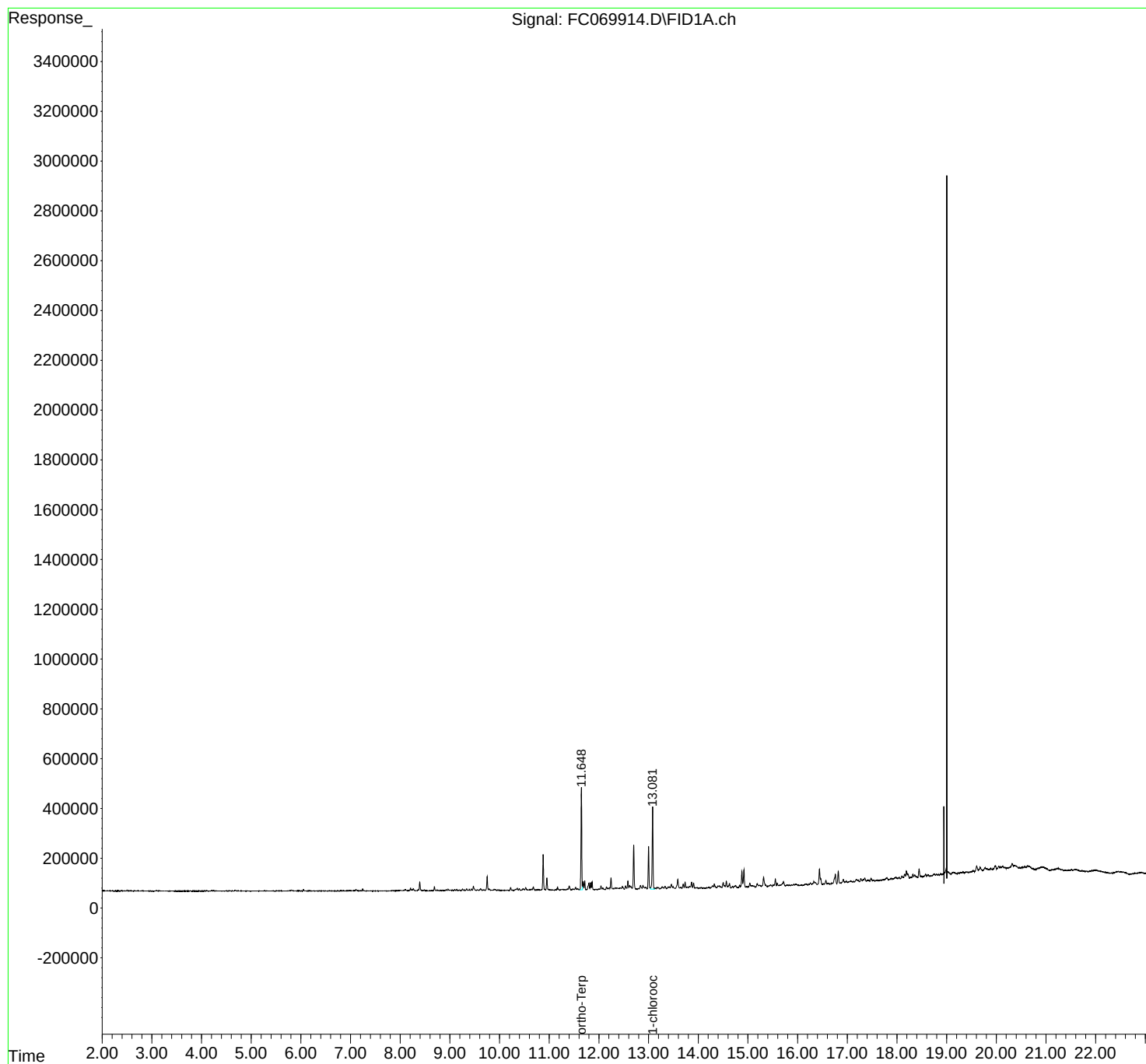
(f)=RT Delta > 1/2 Window

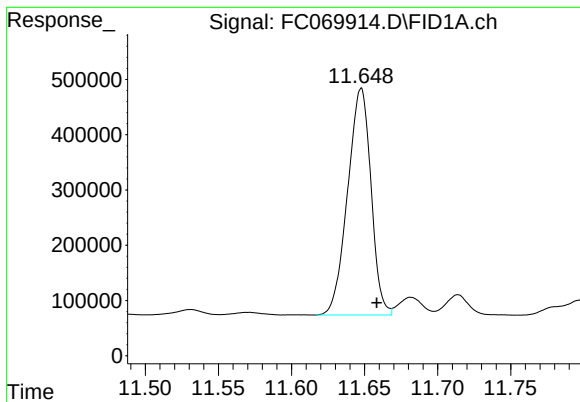
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069914.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 15:18
Operator : YP/AJ
Sample : Q3216-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 07:54:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

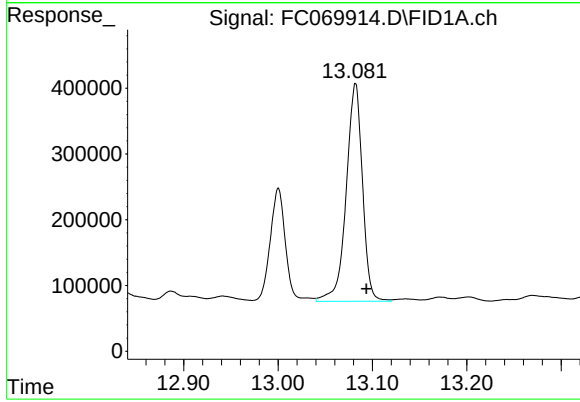
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 11.647 min
Delta R.T.: -0.011 min
Response: 4564667
Conc: 24.37 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.082 min
Delta R.T.: -0.012 min
Response: 3970689
Conc: 25.14 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069914.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 15:18
 Sample : Q3216-06
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.295	3.238	3.347	BV	210	5017	0.11%	0.004%
2	3.397	3.347	3.438	PV	327	7887	0.17%	0.007%
3	3.452	3.438	3.469	VV	180	1920	0.04%	0.002%
4	3.489	3.469	3.508	VV	137	1533	0.03%	0.001%
5	3.542	3.508	3.568	PV	146	2272	0.05%	0.002%
6	3.577	3.568	3.618	VV	141	1478	0.03%	0.001%
7	3.630	3.618	3.651	PV	135	1879	0.04%	0.002%
8	3.659	3.651	3.674	VV	64	826	0.02%	0.001%
9	3.689	3.674	3.723	VV	237	3876	0.08%	0.003%
10	3.773	3.723	3.824	PV	465	11649	0.25%	0.010%
11	3.831	3.824	3.865	VV	159	2400	0.05%	0.002%
12	3.884	3.865	3.942	PV	262	6203	0.13%	0.005%
13	3.965	3.942	4.014	VV	298	5745	0.13%	0.005%
14	4.047	4.014	4.073	VV	936	15235	0.33%	0.013%
15	4.084	4.073	4.144	VV	735	18058	0.39%	0.015%
16	4.154	4.144	4.184	VV	312	4803	0.10%	0.004%
17	4.205	4.184	4.227	VV	2521	37893	0.82%	0.031%
18	4.240	4.227	4.316	VV	1548	39078	0.85%	0.032%
19	4.324	4.316	4.348	VV	383	4983	0.11%	0.004%
20	4.408	4.380	4.421	VV	223	4659	0.10%	0.004%
21	4.459	4.421	4.480	VV	465	10363	0.23%	0.009%
22	4.528	4.480	4.545	VV	721	18830	0.41%	0.016%
23	4.564	4.545	4.594	VV	2016	24922	0.54%	0.021%
24	4.605	4.594	4.651	VV	625	10806	0.24%	0.009%
25	4.677	4.651	4.776	VV	4550	82399	1.79%	0.068%
26	4.797	4.776	4.855	VV	486	15476	0.34%	0.013%
27	4.867	4.855	4.891	VV	288	3799	0.08%	0.003%
28	4.915	4.891	5.004	VV	432	12813	0.28%	0.011%
29	5.049	5.004	5.074	VV	322	5473	0.12%	0.005%
30	5.099	5.074	5.121	VV	228	4559	0.10%	0.004%
31	5.152	5.121	5.167	VV	517	7606	0.17%	0.006%

					rteres			
32	5.180	5.167	5.191	VV	341	3566	0.08%	0.003%
33	5.206	5.191	5.251	VV	280	6708	0.15%	0.006%
34	5.268	5.251	5.302	VV	969	15934	0.35%	0.013%
35	5.320	5.302	5.368	VV	847	14855	0.32%	0.012%
36	5.385	5.368	5.404	VV	255	3714	0.08%	0.003%
37	5.418	5.404	5.434	VV	401	3956	0.09%	0.003%
38	5.447	5.434	5.469	VV	370	4479	0.10%	0.004%
39	5.503	5.469	5.514	VV	345	4978	0.11%	0.004%
40	5.551	5.514	5.581	VV	1359	28186	0.61%	0.023%
41	5.600	5.581	5.645	VV	1118	17555	0.38%	0.015%
42	5.659	5.645	5.678	VV	146	1777	0.04%	0.001%
43	5.689	5.678	5.708	VV	236	2812	0.06%	0.002%
44	5.729	5.708	5.741	VV	332	5198	0.11%	0.004%
45	5.766	5.741	5.782	VV	2297	29786	0.65%	0.025%
46	5.803	5.782	5.922	VV	3039	93501	2.03%	0.077%
47	5.931	5.922	5.944	VV	420	4948	0.11%	0.004%
48	5.952	5.944	5.978	VV	386	6443	0.14%	0.005%
49	6.008	5.978	6.028	VV	606	14570	0.32%	0.012%
50	6.053	6.028	6.092	VV	5336	64145	1.40%	0.053%
51	6.106	6.092	6.134	VV	592	11933	0.26%	0.010%
52	6.142	6.134	6.170	VV	494	8199	0.18%	0.007%
53	6.194	6.170	6.216	VV	482	9628	0.21%	0.008%
54	6.227	6.216	6.241	VV	282	3475	0.08%	0.003%
55	6.268	6.241	6.281	VV	275	4979	0.11%	0.004%
56	6.290	6.281	6.304	VV	246	2748	0.06%	0.002%
57	6.326	6.304	6.361	VV	613	12323	0.27%	0.010%
58	6.370	6.361	6.391	VV	278	3860	0.08%	0.003%
59	6.433	6.391	6.467	VV	640	19233	0.42%	0.016%
60	6.483	6.467	6.524	VV	657	11204	0.24%	0.009%
61	6.554	6.524	6.607	VV	1088	19820	0.43%	0.016%
62	6.627	6.607	6.652	VV	367	5857	0.13%	0.005%
63	6.679	6.652	6.712	PV	472	8849	0.19%	0.007%
64	6.727	6.712	6.744	VV	218	2802	0.06%	0.002%
65	6.761	6.744	6.776	VV	251	3089	0.07%	0.003%
66	6.805	6.776	6.838	VV	1416	26140	0.57%	0.022%
67	6.855	6.838	6.874	VV	1257	17823	0.39%	0.015%
68	6.888	6.874	6.905	VV	958	13256	0.29%	0.011%
69	6.922	6.905	6.939	VV	806	14327	0.31%	0.012%
70	6.971	6.939	6.998	VV	1164	34198	0.74%	0.028%
71	7.016	6.998	7.048	VV	1292	31636	0.69%	0.026%
72	7.062	7.048	7.078	VV	1252	20067	0.44%	0.017%
73	7.110	7.078	7.168	VV	6400	104038	2.26%	0.086%
74	7.205	7.168	7.221	VV	727	17581	0.38%	0.015%
75	7.245	7.221	7.295	VV	8769	98964	2.15%	0.082%
76	7.305	7.295	7.321	VV	347	4067	0.09%	0.003%
77	7.337	7.321	7.384	VV	397	9775	0.21%	0.008%
78	7.406	7.384	7.453	VV	559	10649	0.23%	0.009%
79	7.475	7.453	7.508	VV	244	5413	0.12%	0.004%

80	7.541	7.508	7.564	VV	rteres 230	4833	0.11%	0.004%
81	7.585	7.564	7.607	VV	269	4660	0.10%	0.004%
82	7.621	7.607	7.651	VV	271	3961	0.09%	0.003%
83	7.695	7.651	7.724	VV	642	10813	0.24%	0.009%
84	7.740	7.724	7.759	PV	162	2022	0.04%	0.002%
85	7.837	7.759	7.918	VV	1766	57952	1.26%	0.048%
86	7.935	7.918	7.954	VV	669	10279	0.22%	0.009%
87	7.995	7.954	8.040	VV	2412	70777	1.54%	0.059%
88	8.062	8.040	8.072	VV	1539	23935	0.52%	0.020%
89	8.106	8.072	8.148	VV	3929	104844	2.28%	0.087%
90	8.164	8.148	8.184	VV	1355	24816	0.54%	0.021%
91	8.207	8.184	8.224	VV	10820	125922	2.74%	0.104%
92	8.235	8.224	8.248	VV	5492	58631	1.28%	0.049%
93	8.264	8.248	8.338	VV	8019	138705	3.02%	0.115%
94	8.393	8.338	8.435	VV	35073	503502	10.96%	0.417%
95	8.444	8.435	8.464	VV	1632	22961	0.50%	0.019%
96	8.482	8.464	8.514	VV	3115	39773	0.87%	0.033%
97	8.530	8.514	8.577	VV	499	9440	0.21%	0.008%
98	8.599	8.577	8.612	VV	268	4334	0.09%	0.004%
99	8.640	8.612	8.663	VV	1247	20929	0.46%	0.017%
100	8.688	8.663	8.716	VV	16397	177912	3.87%	0.147%
101	8.738	8.716	8.784	VV	2398	52111	1.13%	0.043%
102	8.808	8.784	8.834	VV	1146	24875	0.54%	0.021%
103	8.850	8.834	8.868	VV	1352	18575	0.40%	0.015%
104	8.881	8.868	8.898	VV	1160	17220	0.37%	0.014%
105	8.927	8.898	8.945	VV	3559	62614	1.36%	0.052%
106	8.962	8.945	8.984	VV	6705	81069	1.76%	0.067%
107	9.001	8.984	9.022	VV	2783	42737	0.93%	0.035%
108	9.051	9.022	9.069	VV	1881	41207	0.90%	0.034%
109	9.098	9.069	9.118	VV	4824	64374	1.40%	0.053%
110	9.138	9.118	9.174	VV	5620	79642	1.73%	0.066%
111	9.195	9.174	9.224	VV	3138	46685	1.02%	0.039%
112	9.252	9.224	9.270	VV	5847	75592	1.64%	0.063%
113	9.285	9.270	9.304	VV	4598	51026	1.11%	0.042%
114	9.338	9.304	9.359	VV	7750	108985	2.37%	0.090%
115	9.390	9.359	9.411	VV	4026	63738	1.39%	0.053%
116	9.432	9.411	9.451	VV	6777	81442	1.77%	0.067%
117	9.474	9.451	9.530	VV	17472	293118	6.38%	0.243%
118	9.552	9.530	9.579	VV	3971	62836	1.37%	0.052%
119	9.619	9.579	9.644	VV	7736	143130	3.11%	0.118%
120	9.653	9.644	9.666	VV	1969	21362	0.46%	0.018%
121	9.683	9.666	9.706	VV	3804	53643	1.17%	0.044%
122	9.751	9.706	9.777	VV	56323	690405	15.02%	0.572%
123	9.792	9.777	9.830	VV	6016	112825	2.46%	0.093%
124	9.846	9.830	9.860	VV	1971	29356	0.64%	0.024%
125	9.895	9.860	9.907	VV	4407	86140	1.87%	0.071%
126	9.917	9.907	9.941	VV	4342	53194	1.16%	0.044%

					rteres			
127	9.970	9.941	10.028	VV	2281	65927	1.43%	0.055%
128	10.053	10.028	10.078	VV	1444	22919	0.50%	0.019%
129	10.095	10.078	10.114	VV	912	11454	0.25%	0.009%
130	10.135	10.114	10.143	PV	555	5735	0.12%	0.005%
131	10.164	10.143	10.197	VV	1013	20098	0.44%	0.017%
132	10.223	10.197	10.252	VV	12124	147209	3.20%	0.122%
133	10.269	10.252	10.286	VV	1206	16222	0.35%	0.013%
134	10.327	10.286	10.338	VV	4642	76565	1.67%	0.063%
135	10.356	10.338	10.378	VV	8455	118158	2.57%	0.098%
136	10.397	10.378	10.431	VV	6517	94768	2.06%	0.078%
137	10.474	10.431	10.504	VV	7037	144542	3.15%	0.120%
138	10.527	10.504	10.581	VV	12162	207776	4.52%	0.172%
139	10.616	10.581	10.626	VV	3406	68746	1.50%	0.057%
140	10.643	10.626	10.657	VV	4869	66496	1.45%	0.055%
141	10.681	10.657	10.731	VV	13025	216764	4.72%	0.179%
142	10.753	10.731	10.761	VV	2181	30630	0.67%	0.025%
143	10.773	10.761	10.790	VV	2292	31163	0.68%	0.026%
144	10.804	10.790	10.828	VV	1583	26977	0.59%	0.022%
145	10.878	10.828	10.922	VV	142857	1599935	34.81%	1.324%
146	10.953	10.922	11.020	VV	49065	650818	14.16%	0.539%
147	11.032	11.020	11.073	VV	1171	25828	0.56%	0.021%
148	11.086	11.073	11.105	VV	835	10029	0.22%	0.008%
149	11.126	11.105	11.145	PV	2086	24361	0.53%	0.020%
150	11.168	11.145	11.209	VV	12496	171108	3.72%	0.142%
151	11.241	11.209	11.258	VV	2558	48038	1.05%	0.040%
152	11.272	11.258	11.293	VV	3131	49239	1.07%	0.041%
153	11.304	11.293	11.338	VV	1877	42886	0.93%	0.035%
154	11.370	11.338	11.380	VV	4617	74212	1.61%	0.061%
155	11.403	11.380	11.447	VV	15575	260972	5.68%	0.216%
156	11.477	11.447	11.500	VV	4309	80195	1.75%	0.066%
157	11.531	11.500	11.551	VV	11016	159750	3.48%	0.132%
158	11.570	11.551	11.613	VV	5817	101596	2.21%	0.084%
159	11.647	11.613	11.669	VV	412794	4595607	100.00%	3.804%
160	11.682	11.669	11.698	VV	32950	367941	8.01%	0.305%
161	11.714	11.698	11.754	VV	37602	415786	9.05%	0.344%
162	11.797	11.754	11.814	VV	27465	462658	10.07%	0.383%
163	11.832	11.814	11.846	VV	28617	323701	7.04%	0.268%
164	11.862	11.846	11.890	VV	32340	372540	8.11%	0.308%
165	11.904	11.890	11.914	PV	578	4962	0.11%	0.004%
166	11.940	11.914	11.961	VV	2036	29610	0.64%	0.025%
167	11.999	11.961	12.010	VV	1966	42429	0.92%	0.035%
168	12.041	12.010	12.061	VV	15039	197740	4.30%	0.164%
169	12.082	12.061	12.126	VV	6505	115997	2.52%	0.096%
170	12.153	12.126	12.171	VV	10909	140017	3.05%	0.116%
171	12.184	12.171	12.198	VV	6000	72399	1.58%	0.060%
172	12.216	12.198	12.223	VV	8425	95877	2.09%	0.079%
173	12.243	12.223	12.279	VV	47140	598670	13.03%	0.496%
174	12.299	12.279	12.309	VV	4322	65750	1.43%	0.054%

175	12.329	12.309	12.345	VV	7798	116898	2.54%	0.097%
176	12.361	12.345	12.394	VV	7090	147241	3.20%	0.122%
177	12.429	12.394	12.454	VV	6413	178467	3.88%	0.148%
178	12.472	12.454	12.511	VV	12685	216663	4.71%	0.179%
179	12.535	12.511	12.560	VV	14503	210474	4.58%	0.174%
180	12.583	12.560	12.602	VV	34052	442940	9.64%	0.367%
181	12.619	12.602	12.636	VV	15958	242185	5.27%	0.200%
182	12.645	12.636	12.667	VV	11129	149029	3.24%	0.123%
183	12.701	12.667	12.745	VV	177304	2128207	46.31%	1.762%
184	12.763	12.745	12.778	VV	1021	14765	0.32%	0.012%
185	12.798	12.778	12.811	VV	3642	41833	0.91%	0.035%
186	12.836	12.811	12.868	VV	15473	275375	5.99%	0.228%
187	12.887	12.868	12.925	VV	15685	292982	6.38%	0.243%
188	12.942	12.925	12.971	VV	8267	144919	3.15%	0.120%
189	13.000	12.971	13.037	VV	172336	1935625	42.12%	1.602%
190	13.082	13.037	13.118	VV	329762	3974729	86.49%	3.290%
191	13.135	13.118	13.152	VV	3466	54141	1.18%	0.045%
192	13.172	13.152	13.186	VV	6105	84604	1.84%	0.070%
193	13.202	13.186	13.225	VV	6292	86619	1.88%	0.072%
194	13.270	13.225	13.310	PV	8280	217166	4.73%	0.180%
195	13.332	13.310	13.367	VV	10830	188112	4.09%	0.156%
196	13.395	13.367	13.409	VV	8662	130444	2.84%	0.108%
197	13.423	13.409	13.436	VV	7081	104587	2.28%	0.087%
198	13.459	13.436	13.482	VV	17619	301402	6.56%	0.249%
199	13.492	13.482	13.533	VV	7436	131090	2.85%	0.109%
200	13.588	13.533	13.623	VV	37154	697059	15.17%	0.577%
201	13.649	13.623	13.672	VV	4757	109143	2.37%	0.090%
202	13.697	13.672	13.716	VV	18585	257791	5.61%	0.213%
203	13.736	13.716	13.761	VV	25986	335736	7.31%	0.278%
204	13.779	13.761	13.800	VV	6895	118622	2.58%	0.098%
205	13.821	13.800	13.839	VV	9032	154952	3.37%	0.128%
206	13.866	13.839	13.887	VV	26285	386455	8.41%	0.320%
207	13.907	13.887	13.933	VV	21786	284207	6.18%	0.235%
208	13.978	13.933	14.006	VV	3115	94670	2.06%	0.078%
209	14.025	14.006	14.033	VV	1733	20466	0.45%	0.017%
210	14.053	14.033	14.082	VV	3165	59636	1.30%	0.049%
211	14.096	14.082	14.129	VV	1765	24605	0.54%	0.020%
212	14.175	14.129	14.189	PV	2437	42491	0.92%	0.035%
213	14.218	14.189	14.242	VV	4268	81667	1.78%	0.068%
214	14.288	14.242	14.306	VV	8455	200547	4.36%	0.166%
215	14.324	14.306	14.365	VV	17014	284416	6.19%	0.235%
216	14.399	14.365	14.412	VV	8181	148187	3.22%	0.123%
217	14.426	14.412	14.473	VV	9440	207772	4.52%	0.172%
218	14.502	14.473	14.544	VV	21587	446559	9.72%	0.370%
219	14.566	14.544	14.588	VV	26528	375199	8.16%	0.311%
220	14.629	14.588	14.658	VV	17783	322527	7.02%	0.267%
221	14.689	14.658	14.708	VV	5782	89584	1.95%	0.074%

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222	14.750	14.708	14.803	VV	9811	239681	5.22%	0.198%
223	14.833	14.803	14.849	PV	10019	126014	2.74%	0.104%
224	14.878	14.849	14.897	VV	66372	843048	18.34%	0.698%
225	14.919	14.897	14.954	VV	71302	992611	21.60%	0.822%
226	14.970	14.954	14.998	VV	3095	58840	1.28%	0.049%
227	15.039	14.998	15.068	VV	17675	309433	6.73%	0.256%
228	15.085	15.068	15.102	VV	7762	120443	2.62%	0.100%
229	15.119	15.102	15.150	VV	5399	94441	2.06%	0.078%
230	15.186	15.150	15.219	PV	12348	269060	5.85%	0.223%
231	15.238	15.219	15.260	VV	8039	142931	3.11%	0.118%
232	15.315	15.260	15.388	VV	38566	870442	18.94%	0.721%
233	15.458	15.388	15.488	VV	7281	216992	4.72%	0.180%
234	15.509	15.488	15.523	VV	6431	85671	1.86%	0.071%
235	15.552	15.523	15.572	VV	30005	400741	8.72%	0.332%
236	15.590	15.572	15.618	VV	12611	192633	4.19%	0.159%
237	15.635	15.618	15.646	VV	5109	67440	1.47%	0.056%
238	15.716	15.646	15.748	VV	16387	516917	11.25%	0.428%
239	15.791	15.748	15.816	VV	5155	123637	2.69%	0.102%
240	15.834	15.816	15.855	VV	4101	66158	1.44%	0.055%
241	15.876	15.855	15.901	VV	4379	77167	1.68%	0.064%
242	15.920	15.901	15.938	VV	5562	89481	1.95%	0.074%
243	15.958	15.938	15.969	VV	5564	86731	1.89%	0.072%
244	15.979	15.969	16.004	VV	5269	78758	1.71%	0.065%
245	16.021	16.004	16.040	VV	2728	35736	0.78%	0.030%
246	16.083	16.040	16.101	VV	1727	46155	1.00%	0.038%
247	16.159	16.101	16.180	PV	5639	140199	3.05%	0.116%
248	16.190	16.180	16.207	VV	4451	48238	1.05%	0.040%
249	16.258	16.207	16.288	VV	7957	235218	5.12%	0.195%
250	16.329	16.288	16.393	VV	14270	482248	10.49%	0.399%
251	16.440	16.393	16.508	VV	62142	1221145	26.57%	1.011%
252	16.570	16.508	16.593	VV	17154	308902	6.72%	0.256%
253	16.621	16.593	16.648	VV	5224	118385	2.58%	0.098%
254	16.689	16.648	16.706	VV	5888	116158	2.53%	0.096%
255	16.760	16.706	16.789	VV	39907	854716	18.60%	0.708%
256	16.819	16.789	16.854	VV	51356	734445	15.98%	0.608%
257	16.921	16.854	16.952	VV	18434	496752	10.81%	0.411%
258	16.979	16.952	17.009	VV	9314	254221	5.53%	0.210%
259	17.031	17.009	17.041	VV	7521	124449	2.71%	0.103%
260	17.065	17.041	17.110	VV	10827	346666	7.54%	0.287%
261	17.127	17.110	17.144	VV	7839	140316	3.05%	0.116%
262	17.190	17.144	17.248	VV	14958	664524	14.46%	0.550%
263	17.274	17.248	17.299	VV	18575	392330	8.54%	0.325%
264	17.320	17.299	17.330	VV	14051	225086	4.90%	0.186%
265	17.352	17.330	17.382	VV	20033	439276	9.56%	0.364%
266	17.404	17.382	17.421	VV	11558	220400	4.80%	0.182%
267	17.433	17.421	17.453	VV	10443	170733	3.72%	0.141%
268	17.480	17.453	17.508	VV	17082	393830	8.57%	0.326%
269	17.524	17.508	17.558	VV	10581	266155	5.79%	0.220%

270	17.592	17.558	17.644	VV	rteres 8900	413468	9.00%	0.342%
271	17.665	17.644	17.680	VV	9422	182805	3.98%	0.151%
272	17.713	17.680	17.723	VV	10071	245338	5.34%	0.203%
273	17.797	17.723	17.834	VV	17553	837180	18.22%	0.693%
274	17.883	17.834	17.901	VV	15563	478291	10.41%	0.396%
275	17.919	17.901	17.931	VV	14023	238175	5.18%	0.197%
276	17.986	17.931	18.011	VV	17208	735541	16.01%	0.609%
277	18.045	18.011	18.069	VV	16923	499603	10.87%	0.414%
278	18.099	18.069	18.131	VV	22584	624570	13.59%	0.517%
279	18.155	18.131	18.171	VV	29100	564593	12.29%	0.467%
280	18.191	18.171	18.208	VV	41969	699029	15.21%	0.579%
281	18.221	18.208	18.256	VV	29512	624773	13.60%	0.517%
282	18.277	18.256	18.298	VV	16654	381429	8.30%	0.316%
283	18.321	18.298	18.339	VV	27684	523884	11.40%	0.434%
284	18.358	18.339	18.417	VV	25149	875867	19.06%	0.725%
285	18.446	18.417	18.472	VV	47468	916938	19.95%	0.759%
286	18.484	18.472	18.514	VV	18894	444500	9.67%	0.368%
287	18.528	18.514	18.544	VV	18562	317541	6.91%	0.263%
288	18.579	18.544	18.601	VV	26104	720109	15.67%	0.596%
289	18.626	18.601	18.651	VV	23520	608903	13.25%	0.504%
290	18.666	18.651	18.680	VV	17914	307015	6.68%	0.254%
291	18.748	18.680	18.775	VV	24795	1193893	25.98%	0.988%
292	18.792	18.775	18.816	VV	24385	547821	11.92%	0.453%
293	18.837	18.816	18.857	VV	22768	514181	11.19%	0.426%
294	18.879	18.857	18.899	VV	25412	581777	12.66%	0.482%
295	18.915	18.899	18.935	VV	23634	485427	10.56%	0.402%
296	18.944	18.935	19.001	VV	99208	1349974	29.38%	1.117%
297	19.004	19.001	19.091	VV	944352	3173166	69.05%	2.627%
298	19.126	19.091	19.201	VV	28837	1711726	37.25%	1.417%
299	19.233	19.201	19.251	VV	26120	715136	15.56%	0.592%
300	19.285	19.251	19.311	VV	27622	947522	20.62%	0.784%
301	19.329	19.311	19.354	VV	27520	685504	14.92%	0.567%
302	19.393	19.354	19.438	VV	28550	1345162	29.27%	1.113%
303	19.451	19.438	19.471	VV	28206	536531	11.67%	0.444%
304	19.489	19.471	19.504	VV	28994	558011	12.14%	0.462%
305	19.537	19.504	19.564	VV	32029	1078152	23.46%	0.892%
306	19.605	19.564	19.635	VV	50567	1631418	35.50%	1.350%
307	19.675	19.635	19.718	VV	43877	1858227	40.43%	1.538%
308	19.772	19.718	19.834	VV	41510	2555683	55.61%	2.116%
309	19.888	19.834	19.918	VV	39186	1776326	38.65%	1.470%
310	19.986	19.918	20.016	VV	47778	2364347	51.45%	1.957%
311	20.050	20.016	20.080	VV	46488	1603022	34.88%	1.327%
312	20.093	20.080	20.104	VV	42899	592790	12.90%	0.491%
313	20.129	20.104	20.167	VV	46400	1630319	35.48%	1.350%
314	20.183	20.167	20.198	VV	40285	718003	15.62%	0.594%
315	20.209	20.198	20.241	VV	38876	982616	21.38%	0.813%
316	20.324	20.241	20.350	VV	54184	2888707	62.86%	2.391%

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317	20.369	20.350	20.462	VV	46021	2834745	61.68%	2.347%	
318	20.514	20.462	20.550	VV	38250	1946814	42.36%	1.612%	
319	20.575	20.550	20.591	VV	40287	965058	21.00%	0.799%	
320	20.630	20.591	20.721	VV	42824	3015935	65.63%	2.497%	
321	20.734	20.721	20.774	VV	31481	952706	20.73%	0.789%	
322	20.790	20.774	20.801	VV	28635	448357	9.76%	0.371%	
323	20.858	20.801	20.871	VV	32478	1291967	28.11%	1.069%	
324	20.919	20.871	20.929	VV	36770	1224711	26.65%	1.014%	
325	20.935	20.929	20.975	VV	36522	942362	20.51%	0.780%	
326	20.985	20.975	21.054	VV	32484	1342418	29.21%	1.111%	
327	21.065	21.054	21.086	VV	22914	413859	9.01%	0.343%	
328	21.118	21.086	21.127	VV	24378	572284	12.45%	0.474%	
329	21.135	21.127	21.147	VV	24057	273839	5.96%	0.227%	
330	21.237	21.147	21.318	VV	28769	2577348	56.08%	2.133%	
331	21.331	21.318	21.357	VV	22633	490970	10.68%	0.406%	
332	21.388	21.357	21.400	VV	19412	473912	10.31%	0.392%	
333	21.428	21.400	21.440	VV	19024	448340	9.76%	0.371%	
334	21.489	21.440	21.501	VV	19692	694639	15.12%	0.575%	
335	21.515	21.501	21.542	VV	20656	483178	10.51%	0.400%	
336	21.587	21.542	21.704	VV	21631	1768878	38.49%	1.464%	
337	21.730	21.704	21.791	VV	16121	693342	15.09%	0.574%	
338	21.811	21.791	21.848	VV	12906	390691	8.50%	0.323%	
339	21.881	21.848	21.891	VV	12516	285113	6.20%	0.236%	
340	21.968	21.891	21.977	VV	15629	697760	15.18%	0.578%	
341	22.009	21.977	22.089	VV	15430	879748	19.14%	0.728%	
342	22.097	22.089	22.169	VV	9978	380326	8.28%	0.315%	
343	22.178	22.169	22.221	VV	6000	145196	3.16%	0.120%	
344	22.237	22.221	22.289	VV	3084	83653	1.82%	0.069%	
345	22.317	22.289	22.331	VV	1522	18759	0.41%	0.016%	
346	22.356	22.331	22.378	PV	1273	16327	0.36%	0.014%	
					Sum of corrected areas:	120805744			

Aliphatic EPH 092325.M Fri Oct 03 08:42:35 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	5	SDG No.:	Q3216
Lab Sample ID:	Q3216-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 16:01	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	17.0		1	1.01	4.47	mg/kg	FC069915.D
Total EPH	Total EPH	17.0			1.01	4.47	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	09/25/25
Project:	256-258 6TH AVE PATERSON	Date Received:	09/25/25
Client Sample ID:	5	SDG No.:	Q3216
Lab Sample ID:	Q3216-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.6
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069915.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	17.0		1.01	4.47	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	42.7		1.32	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	21.5		40 - 140	43%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	21.4		40 - 140	43%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3216-07	Acq On:	02 Oct 2025 16:01
Client Sample ID:	5	Operator:	YP/AJ
Data file:	FC069915.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.286	6.579	950580	7.119	300	ug/ml
Aliphatic C12-C16	6.580	9.978	5380987	34.345	200	ug/ml
Aliphatic C16-C21	9.979	13.344	16473472	91.749	300	ug/ml
Aliphatic C21-C28	13.345	17.006	17302134	95.623	400	ug/ml
Aliphatic C28-C40	17.007	21.955	73968264	574.837	600	ug/ml
Aliphatic EPH	3.286	21.955	114075437	803.673		ug/ml
ortho-Terphenyl (SURR)	11.649	11.649	4010342	21.41		ug/ml
1-chlorooctadecane (SURR)	13.084	13.084	3393676	21.49		ug/ml
Aliphatic C9-C28	3.286	17.006	40107173	228.836	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069915.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 16:01
 Operator : YP/AJ
 Sample : Q3216-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 07:55:01 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.649	4010342	21.411 ug/ml
Spiked Amount 50.000		Recovery =	42.82%
12) S 1-chlorooctadecane (S...	13.084	3393676	21.490 ug/ml
Spiked Amount 50.000		Recovery =	42.98%

Target Compounds

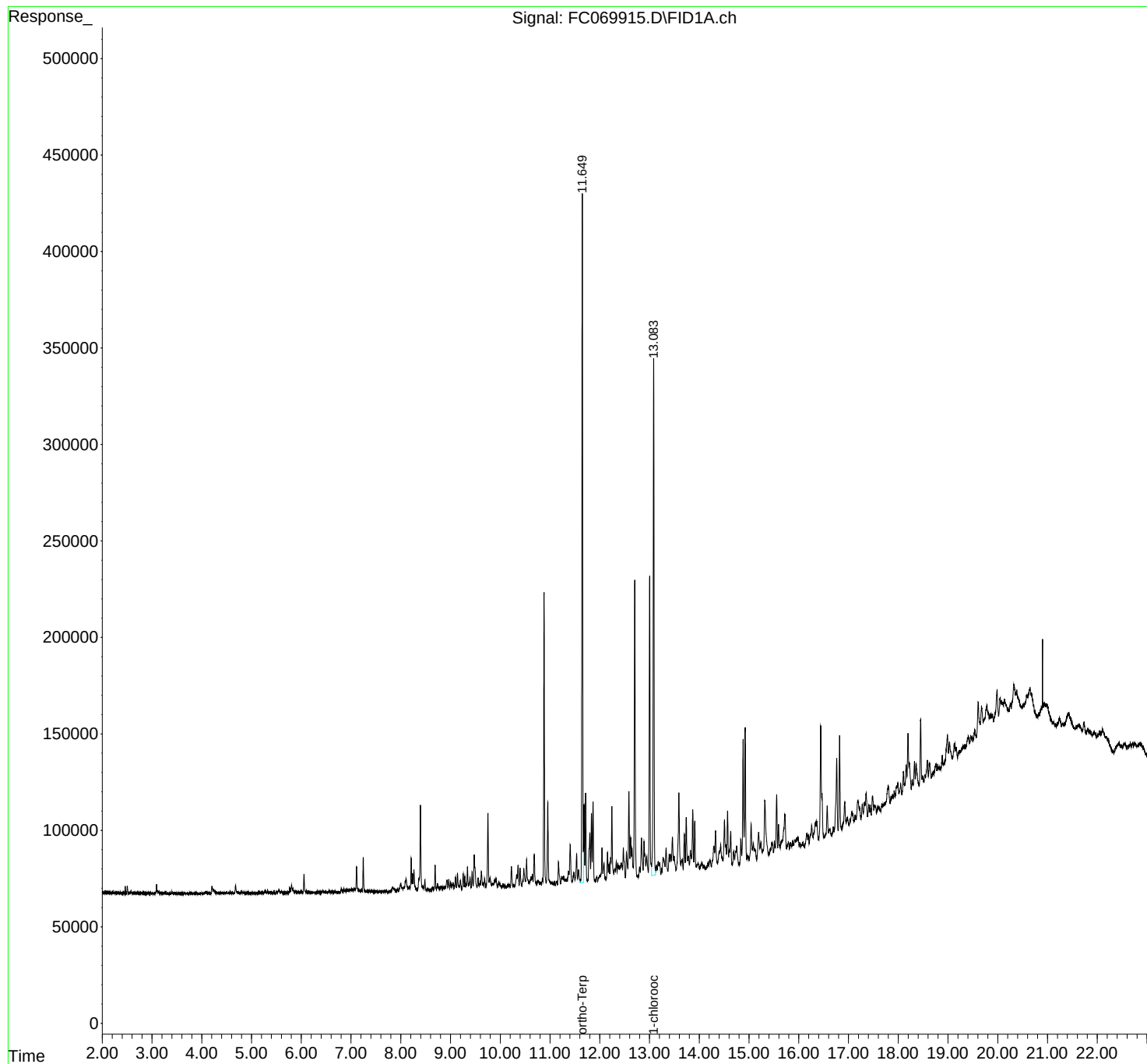
(f)=RT Delta > 1/2 Window

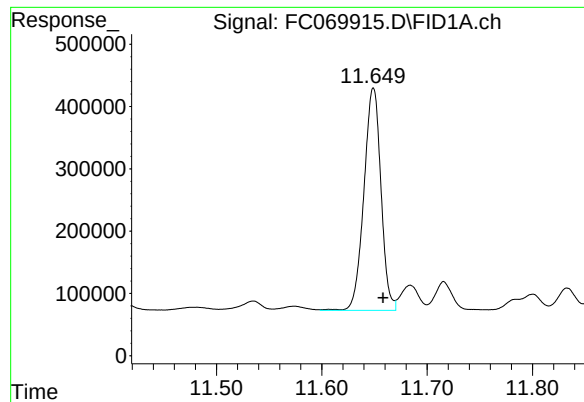
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069915.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 16:01
Operator : YP/AJ
Sample : Q3216-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 07:55:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

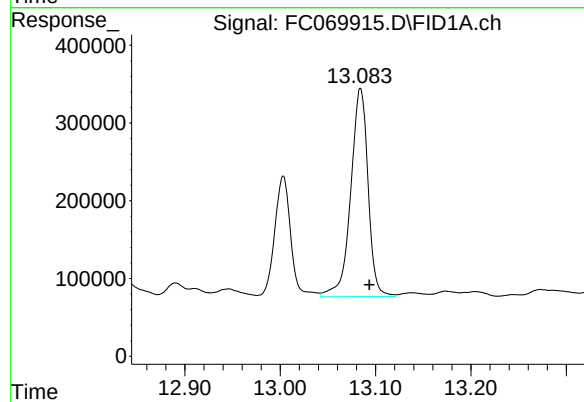
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 11.649 min
Delta R.T.: -0.009 min
Response: 4010342
Conc: 21.41 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.084 min
Delta R.T.: -0.009 min
Response: 3393676
Conc: 21.49 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069915.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 16:01
 Sample : Q3216-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.258	3.204	3.348	BV	167	5812	0.10%	0.005%
2	3.360	3.348	3.374	PV	116	1037	0.02%	0.001%
3	3.401	3.374	3.441	PV	541	8217	0.14%	0.007%
4	3.452	3.441	3.469	VV	191	1932	0.03%	0.002%
5	3.487	3.469	3.507	VV	144	1934	0.03%	0.002%
6	3.522	3.507	3.527	VV	96	643	0.01%	0.001%
7	3.536	3.527	3.551	VV	102	784	0.01%	0.001%
8	3.571	3.551	3.588	PV	111	1289	0.02%	0.001%
9	3.632	3.588	3.676	VV	196	6331	0.11%	0.005%
10	3.686	3.676	3.737	VV	217	4003	0.07%	0.003%
11	3.775	3.737	3.821	VV	514	10897	0.19%	0.009%
12	3.836	3.821	3.864	VV	199	2360	0.04%	0.002%
13	3.887	3.864	3.924	PV	291	5547	0.09%	0.004%
14	3.968	3.924	4.031	VV	297	8770	0.15%	0.007%
15	4.087	4.031	4.145	VV	780	26931	0.46%	0.022%
16	4.157	4.145	4.184	VV	343	4546	0.08%	0.004%
17	4.206	4.184	4.230	VV	3871	56556	0.96%	0.046%
18	4.242	4.230	4.288	VV	2250	41094	0.70%	0.033%
19	4.300	4.288	4.325	VV	551	9850	0.17%	0.008%
20	4.333	4.325	4.381	VV	362	7579	0.13%	0.006%
21	4.436	4.381	4.447	VV	389	10180	0.17%	0.008%
22	4.460	4.447	4.488	VV	434	8221	0.14%	0.007%
23	4.504	4.488	4.524	VV	666	9304	0.16%	0.008%
24	4.531	4.524	4.545	VV	341	3319	0.06%	0.003%
25	4.567	4.545	4.593	VV	1181	15227	0.26%	0.012%
26	4.608	4.593	4.648	VV	612	8929	0.15%	0.007%
27	4.679	4.648	4.776	VV	4343	75611	1.29%	0.061%
28	4.797	4.776	4.861	VV	730	21995	0.37%	0.018%
29	4.874	4.861	4.894	VV	271	4200	0.07%	0.003%
30	4.916	4.894	4.981	VV	636	15725	0.27%	0.013%
31	4.987	4.981	4.995	VV	118	621	0.01%	0.001%

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32	5.005	4.995	5.041	VV	109	3013	0.05%	0.002%
33	5.053	5.041	5.078	VV	286	3334	0.06%	0.003%
34	5.092	5.078	5.124	VV	193	3886	0.07%	0.003%
35	5.136	5.124	5.140	VV	250	1731	0.03%	0.001%
36	5.154	5.140	5.169	VV	628	6353	0.11%	0.005%
37	5.182	5.169	5.198	VV	318	4445	0.08%	0.004%
38	5.210	5.198	5.222	VV	339	3592	0.06%	0.003%
39	5.234	5.222	5.249	VV	373	4343	0.07%	0.004%
40	5.269	5.249	5.304	VV	1548	25367	0.43%	0.021%
41	5.322	5.304	5.364	VV	1102	19840	0.34%	0.016%
42	5.381	5.364	5.401	VV	394	6489	0.11%	0.005%
43	5.421	5.401	5.438	VV	707	8054	0.14%	0.007%
44	5.450	5.438	5.478	VV	794	9645	0.16%	0.008%
45	5.506	5.478	5.518	PV	626	7895	0.13%	0.006%
46	5.553	5.518	5.586	VV	1996	39422	0.67%	0.032%
47	5.603	5.586	5.648	VV	1088	16794	0.29%	0.014%
48	5.693	5.648	5.714	VV	292	5602	0.10%	0.005%
49	5.731	5.714	5.748	VV	406	5138	0.09%	0.004%
50	5.769	5.748	5.784	VV	2616	33321	0.57%	0.027%
51	5.805	5.784	5.871	VV	4221	99982	1.70%	0.081%
52	5.893	5.871	5.941	VV	823	22088	0.38%	0.018%
53	5.961	5.941	5.975	VV	408	6682	0.11%	0.005%
54	6.009	5.975	6.031	VV	778	17772	0.30%	0.014%
55	6.055	6.031	6.090	VV	9759	110366	1.88%	0.089%
56	6.102	6.090	6.127	VV	762	12197	0.21%	0.010%
57	6.143	6.127	6.171	VV	660	11167	0.19%	0.009%
58	6.197	6.171	6.218	VV	472	7028	0.12%	0.006%
59	6.233	6.218	6.249	VV	280	3469	0.06%	0.003%
60	6.268	6.249	6.281	VV	308	3904	0.07%	0.003%
61	6.293	6.281	6.314	VV	283	4383	0.07%	0.004%
62	6.328	6.314	6.342	VV	615	6922	0.12%	0.006%
63	6.350	6.342	6.387	VV	457	6593	0.11%	0.005%
64	6.436	6.387	6.469	VV	1005	25161	0.43%	0.020%
65	6.487	6.469	6.514	VV	665	10867	0.18%	0.009%
66	6.522	6.514	6.528	VV	212	1316	0.02%	0.001%
67	6.555	6.528	6.610	VV	972	18787	0.32%	0.015%
68	6.632	6.610	6.654	VV	331	5496	0.09%	0.004%
69	6.683	6.654	6.714	VV	570	9110	0.16%	0.007%
70	6.731	6.714	6.741	VV	150	1721	0.03%	0.001%
71	6.763	6.741	6.780	VV	293	3692	0.06%	0.003%
72	6.806	6.780	6.836	PV	1832	31460	0.54%	0.025%
73	6.858	6.836	6.876	VV	2056	29960	0.51%	0.024%
74	6.891	6.876	6.904	VV	1237	16136	0.27%	0.013%
75	6.923	6.904	6.948	VV	1439	26877	0.46%	0.022%
76	6.983	6.948	6.996	VV	1284	32765	0.56%	0.027%
77	7.018	6.996	7.044	VV	1837	40982	0.70%	0.033%
78	7.064	7.044	7.079	VV	1897	32340	0.55%	0.026%
79	7.112	7.079	7.171	VV	13317	189915	3.23%	0.154%

80	7.207	7.171	7.224	VV	1306	26953	0.46%	0.022%
81	7.247	7.224	7.294	VV	17730	186923	3.18%	0.151%
82	7.308	7.294	7.325	VV	481	7123	0.12%	0.006%
83	7.341	7.325	7.357	VV	545	7978	0.14%	0.006%
84	7.367	7.357	7.389	VV	521	7509	0.13%	0.006%
85	7.408	7.389	7.442	VV	678	14365	0.24%	0.012%
86	7.478	7.442	7.509	VV	376	9794	0.17%	0.008%
87	7.540	7.509	7.560	VV	291	5578	0.09%	0.005%
88	7.590	7.560	7.614	PV	266	5060	0.09%	0.004%
89	7.624	7.614	7.653	VV	260	4331	0.07%	0.004%
90	7.665	7.653	7.674	VV	195	1761	0.03%	0.001%
91	7.697	7.674	7.735	VV	763	11182	0.19%	0.009%
92	7.745	7.735	7.765	PV	129	1055	0.02%	0.001%
93	7.838	7.765	7.911	VV	2354	70559	1.20%	0.057%
94	7.938	7.911	7.954	VV	1302	16913	0.29%	0.014%
95	7.997	7.954	8.046	VV	3970	111569	1.90%	0.090%
96	8.065	8.046	8.073	VV	2405	31299	0.53%	0.025%
97	8.107	8.073	8.148	VV	6283	163368	2.78%	0.132%
98	8.165	8.148	8.184	VV	1871	33915	0.58%	0.027%
99	8.210	8.184	8.226	VV	17209	196729	3.35%	0.159%
100	8.238	8.226	8.251	VV	9024	96976	1.65%	0.079%
101	8.265	8.251	8.336	VV	10923	172603	2.94%	0.140%
102	8.395	8.336	8.434	VV	44392	639549	10.89%	0.518%
103	8.447	8.434	8.466	VV	2278	34432	0.59%	0.028%
104	8.485	8.466	8.514	VV	5634	64035	1.09%	0.052%
105	8.533	8.514	8.583	VV	712	14018	0.24%	0.011%
106	8.643	8.583	8.664	PV	1376	26363	0.45%	0.021%
107	8.691	8.664	8.717	VV	13083	143051	2.44%	0.116%
108	8.739	8.717	8.791	VV	3392	75261	1.28%	0.061%
109	8.808	8.791	8.837	VV	1846	34297	0.58%	0.028%
110	8.852	8.837	8.866	VV	1790	21748	0.37%	0.018%
111	8.880	8.866	8.897	VV	1571	22547	0.38%	0.018%
112	8.929	8.897	8.948	VV	5098	91850	1.56%	0.074%
113	8.965	8.948	8.988	VV	5401	72033	1.23%	0.058%
114	9.004	8.988	9.025	VV	3966	59745	1.02%	0.048%
115	9.052	9.025	9.071	VV	2923	62405	1.06%	0.051%
116	9.100	9.071	9.119	VV	6412	88294	1.50%	0.072%
117	9.141	9.119	9.177	VV	8496	121976	2.08%	0.099%
118	9.197	9.177	9.225	VV	4741	67156	1.14%	0.054%
119	9.255	9.225	9.273	VV	8103	108837	1.85%	0.088%
120	9.288	9.273	9.306	VV	6785	73299	1.25%	0.059%
121	9.341	9.306	9.360	VV	11502	155385	2.65%	0.126%
122	9.393	9.360	9.413	VV	6014	99804	1.70%	0.081%
123	9.435	9.413	9.454	VV	9019	107561	1.83%	0.087%
124	9.477	9.454	9.532	VV	17627	336313	5.72%	0.273%
125	9.554	9.532	9.574	VV	5709	77892	1.33%	0.063%
126	9.622	9.574	9.645	VV	8677	175152	2.98%	0.142%

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127	9.656	9.645	9.668	VV	2777	32681	0.56%	0.026%
128	9.685	9.668	9.707	VV	5354	71954	1.22%	0.058%
129	9.753	9.707	9.778	VV	38681	502789	8.56%	0.407%
130	9.796	9.778	9.834	VV	5549	118100	2.01%	0.096%
131	9.848	9.834	9.863	VV	2715	37814	0.64%	0.031%
132	9.897	9.863	9.908	VV	4413	93729	1.60%	0.076%
133	9.919	9.908	9.941	VV	4777	60526	1.03%	0.049%
134	9.974	9.941	10.027	VV	2726	86394	1.47%	0.070%
135	10.055	10.027	10.081	VV	2123	36615	0.62%	0.030%
136	10.096	10.081	10.116	VV	1470	17825	0.30%	0.014%
137	10.142	10.116	10.151	PV	1069	13618	0.23%	0.011%
138	10.167	10.151	10.200	VV	1721	31241	0.53%	0.025%
139	10.225	10.200	10.254	VV	10847	144014	2.45%	0.117%
140	10.270	10.254	10.284	VV	1566	18828	0.32%	0.015%
141	10.330	10.284	10.341	VV	6552	108005	1.84%	0.088%
142	10.358	10.341	10.380	VV	11398	159476	2.71%	0.129%
143	10.399	10.380	10.432	VV	9882	133170	2.27%	0.108%
144	10.475	10.432	10.507	VV	9537	195879	3.33%	0.159%
145	10.530	10.507	10.581	VV	14209	247958	4.22%	0.201%
146	10.617	10.581	10.628	VV	4802	94574	1.61%	0.077%
147	10.644	10.628	10.659	VV	6196	83714	1.43%	0.068%
148	10.683	10.659	10.721	VV	16648	254161	4.33%	0.206%
149	10.754	10.721	10.791	VV	2860	82343	1.40%	0.067%
150	10.806	10.791	10.830	VV	1926	35209	0.60%	0.029%
151	10.881	10.830	10.922	VV	151357	1667342	28.38%	1.351%
152	10.956	10.922	11.001	VV	43004	557876	9.50%	0.452%
153	11.007	11.001	11.024	VV	1972	20862	0.36%	0.017%
154	11.036	11.024	11.076	VV	1417	32326	0.55%	0.026%
155	11.091	11.076	11.107	VV	1240	11231	0.19%	0.009%
156	11.129	11.107	11.147	PV	1882	24178	0.41%	0.020%
157	11.171	11.147	11.211	VV	11679	182260	3.10%	0.148%
158	11.242	11.211	11.259	VV	3718	77305	1.32%	0.063%
159	11.274	11.259	11.295	VV	4206	66312	1.13%	0.054%
160	11.309	11.295	11.339	VV	2368	52865	0.90%	0.043%
161	11.371	11.339	11.384	VV	6543	110118	1.87%	0.089%
162	11.406	11.384	11.451	VV	20313	322239	5.49%	0.261%
163	11.479	11.451	11.503	VV	5355	108468	1.85%	0.088%
164	11.535	11.503	11.554	VV	15162	217234	3.70%	0.176%
165	11.574	11.554	11.598	VV	6795	103933	1.77%	0.084%
166	11.608	11.598	11.616	VV	1599	15073	0.26%	0.012%
167	11.649	11.616	11.671	VV	357111	3997976	68.06%	3.240%
168	11.684	11.671	11.700	VV	40300	467983	7.97%	0.379%
169	11.716	11.700	11.756	VV	45610	515868	8.78%	0.418%
170	11.800	11.756	11.815	VV	25811	453719	7.72%	0.368%
171	11.833	11.815	11.848	VV	35383	414741	7.06%	0.336%
172	11.865	11.848	11.894	VV	41336	489342	8.33%	0.397%
173	11.940	11.894	11.958	VV	2286	34311	0.58%	0.028%
174	11.999	11.958	12.010	PV	2584	52941	0.90%	0.043%

175	12.045	12.010	12.063	VV	rteres 16925	227450	3.87%	0.184%
176	12.084	12.063	12.112	VV	8869	143991	2.45%	0.117%
177	12.120	12.112	12.129	VV	741	6504	0.11%	0.005%
178	12.155	12.129	12.173	VV	14122	180929	3.08%	0.147%
179	12.186	12.173	12.201	VV	8231	95316	1.62%	0.077%
180	12.219	12.201	12.226	VV	11468	121467	2.07%	0.098%
181	12.243	12.226	12.283	VV	37394	488153	8.31%	0.396%
182	12.302	12.283	12.313	VV	5486	83776	1.43%	0.068%
183	12.332	12.313	12.348	VV	8986	132482	2.26%	0.107%
184	12.363	12.348	12.375	VV	7988	101168	1.72%	0.082%
185	12.385	12.375	12.397	VV	6533	75034	1.28%	0.061%
186	12.408	12.397	12.416	VV	6502	68939	1.17%	0.056%
187	12.434	12.416	12.457	VV	7888	164945	2.81%	0.134%
188	12.475	12.457	12.515	VV	15665	271616	4.62%	0.220%
189	12.538	12.515	12.562	VV	13239	205429	3.50%	0.166%
190	12.586	12.562	12.605	VV	44921	576278	9.81%	0.467%
191	12.622	12.605	12.638	VV	20708	312618	5.32%	0.253%
192	12.649	12.638	12.672	VV	14872	205397	3.50%	0.166%
193	12.703	12.672	12.775	VV	154249	1893901	32.24%	1.535%
194	12.801	12.775	12.814	PV	4960	58148	0.99%	0.047%
195	12.839	12.814	12.871	VV	19944	347255	5.91%	0.281%
196	12.890	12.871	12.927	VV	17970	346497	5.90%	0.281%
197	12.945	12.927	12.975	VV	10098	183328	3.12%	0.149%
198	13.003	12.975	13.041	VV	155518	1815134	30.90%	1.471%
199	13.084	13.041	13.121	VV	268502	3391909	57.74%	2.749%
200	13.138	13.121	13.156	VV	4605	74725	1.27%	0.061%
201	13.174	13.156	13.189	VV	6576	96637	1.65%	0.078%
202	13.205	13.189	13.229	VV	5993	92607	1.58%	0.075%
203	13.274	13.229	13.313	PV	8423	230848	3.93%	0.187%
204	13.334	13.313	13.368	VV	13181	217743	3.71%	0.176%
205	13.397	13.368	13.410	VV	10147	147632	2.51%	0.120%
206	13.426	13.410	13.440	VV	9715	145696	2.48%	0.118%
207	13.461	13.440	13.484	VV	18556	314383	5.35%	0.255%
208	13.495	13.484	13.538	VV	8544	160417	2.73%	0.130%
209	13.591	13.538	13.629	VV	41227	786665	13.39%	0.637%
210	13.656	13.629	13.676	VV	5834	129456	2.20%	0.105%
211	13.700	13.676	13.719	VV	19328	261949	4.46%	0.212%
212	13.739	13.719	13.762	VV	28033	374569	6.38%	0.304%
213	13.780	13.762	13.802	VV	7733	143790	2.45%	0.117%
214	13.824	13.802	13.841	VV	10601	174184	2.97%	0.141%
215	13.869	13.841	13.890	VV	31578	450860	7.67%	0.365%
216	13.910	13.890	13.938	VV	25659	320235	5.45%	0.259%
217	13.977	13.938	14.006	VV	3203	94804	1.61%	0.077%
218	14.057	14.006	14.083	VV	3758	96457	1.64%	0.078%
219	14.099	14.083	14.131	VV	2085	28914	0.49%	0.023%
220	14.151	14.131	14.160	PV	1647	15829	0.27%	0.013%
221	14.178	14.160	14.191	VV	3069	40960	0.70%	0.033%

					rteres			
222	14.215	14.191	14.243	VV	4239	89631	1.53%	0.073%
223	14.294	14.243	14.309	VV	11168	246821	4.20%	0.200%
224	14.327	14.309	14.371	VV	19418	324198	5.52%	0.263%
225	14.402	14.371	14.413	VV	8430	152885	2.60%	0.124%
226	14.430	14.413	14.478	VV	11849	268144	4.56%	0.217%
227	14.507	14.478	14.547	VV	24425	513756	8.75%	0.416%
228	14.569	14.547	14.591	VV	28498	405138	6.90%	0.328%
229	14.631	14.591	14.662	VV	17577	345301	5.88%	0.280%
230	14.692	14.662	14.711	VV	6809	107938	1.84%	0.087%
231	14.752	14.711	14.802	VV	9769	257237	4.38%	0.208%
232	14.836	14.802	14.853	PV	12821	161664	2.75%	0.131%
233	14.881	14.853	14.901	VV	64269	817697	13.92%	0.663%
234	14.922	14.901	14.954	VV	70453	948403	16.14%	0.769%
235	14.971	14.954	15.001	VV	3373	69575	1.18%	0.056%
236	15.042	15.001	15.069	VV	19346	339514	5.78%	0.275%
237	15.086	15.069	15.153	VV	9118	258594	4.40%	0.210%
238	15.192	15.153	15.224	PV	13919	307045	5.23%	0.249%
239	15.240	15.224	15.261	VV	8202	136048	2.32%	0.110%
240	15.319	15.261	15.404	VV	29436	794181	13.52%	0.644%
241	15.462	15.404	15.492	VV	6385	198659	3.38%	0.161%
242	15.512	15.492	15.528	VV	7065	91098	1.55%	0.074%
243	15.556	15.528	15.576	VV	30405	438120	7.46%	0.355%
244	15.593	15.576	15.625	VV	15212	227570	3.87%	0.184%
245	15.721	15.625	15.753	VV	19473	674162	11.48%	0.546%
246	15.792	15.753	15.814	VV	4520	108360	1.84%	0.088%
247	15.837	15.814	15.858	VV	4150	70593	1.20%	0.057%
248	15.879	15.858	15.898	VV	4357	75459	1.28%	0.061%
249	15.922	15.898	15.938	VV	4818	90442	1.54%	0.073%
250	15.960	15.938	15.973	VV	5405	98361	1.67%	0.080%
251	15.985	15.973	16.010	VV	5469	88270	1.50%	0.072%
252	16.022	16.010	16.039	VV	2608	28793	0.49%	0.023%
253	16.085	16.039	16.104	VV	2069	45784	0.78%	0.037%
254	16.162	16.104	16.180	PV	6247	129249	2.20%	0.105%
255	16.193	16.180	16.209	VV	5113	59938	1.02%	0.049%
256	16.259	16.209	16.290	VV	9569	252649	4.30%	0.205%
257	16.332	16.290	16.343	VV	10341	229045	3.90%	0.186%
258	16.360	16.343	16.396	VV	11154	227317	3.87%	0.184%
259	16.442	16.396	16.518	VV	60284	1224887	20.85%	0.993%
260	16.572	16.518	16.599	VV	17227	316772	5.39%	0.257%
261	16.622	16.599	16.652	VV	4929	119965	2.04%	0.097%
262	16.694	16.652	16.708	VV	5585	102565	1.75%	0.083%
263	16.764	16.708	16.791	VV	40672	791772	13.48%	0.642%
264	16.822	16.791	16.863	VV	51550	723173	12.31%	0.586%
265	16.925	16.863	16.952	VV	16537	442274	7.53%	0.358%
266	16.974	16.952	17.008	VV	8338	216287	3.68%	0.175%
267	17.031	17.008	17.041	VV	6859	112326	1.91%	0.091%
268	17.064	17.041	17.111	VV	10190	336340	5.73%	0.273%
269	17.130	17.111	17.147	VV	8185	145182	2.47%	0.118%

270	17.186	17.147	17.216	VV	rteres 15268	465827	7.93%	0.377%
271	17.223	17.216	17.248	VV	11215	169924	2.89%	0.138%
272	17.277	17.248	17.297	VV	12301	267536	4.55%	0.217%
273	17.322	17.297	17.333	VV	13216	234176	3.99%	0.190%
274	17.355	17.333	17.384	VV	17747	388138	6.61%	0.315%
275	17.408	17.384	17.425	VV	11356	213689	3.64%	0.173%
276	17.438	17.425	17.458	VV	11043	166545	2.84%	0.135%
277	17.483	17.458	17.509	VV	15031	350612	5.97%	0.284%
278	17.538	17.509	17.564	VV	10071	293440	5.00%	0.238%
279	17.584	17.564	17.598	VV	8755	159546	2.72%	0.129%
280	17.616	17.598	17.632	VV	8788	164846	2.81%	0.134%
281	17.669	17.632	17.688	VV	9990	268433	4.57%	0.218%
282	17.796	17.688	17.836	VV	17747	1052079	17.91%	0.853%
283	17.883	17.836	17.904	VV	12689	464479	7.91%	0.376%
284	17.919	17.904	17.938	VV	14458	261697	4.45%	0.212%
285	17.990	17.938	18.014	VV	17962	703357	11.97%	0.570%
286	18.049	18.014	18.074	VV	17369	509025	8.67%	0.412%
287	18.104	18.074	18.124	VV	22832	524532	8.93%	0.425%
288	18.158	18.124	18.174	VV	26329	613677	10.45%	0.497%
289	18.195	18.174	18.215	VV	42151	788705	13.43%	0.639%
290	18.223	18.215	18.262	VV	26824	565785	9.63%	0.458%
291	18.281	18.262	18.298	VV	17532	338600	5.76%	0.274%
292	18.326	18.298	18.342	VV	26599	541807	9.22%	0.439%
293	18.359	18.342	18.413	VV	25244	821756	13.99%	0.666%
294	18.450	18.413	18.476	VV	47548	969937	16.51%	0.786%
295	18.487	18.476	18.508	VV	17878	319911	5.45%	0.259%
296	18.537	18.508	18.548	VV	18054	399944	6.81%	0.324%
297	18.584	18.548	18.604	VV	25254	691433	11.77%	0.560%
298	18.628	18.604	18.670	VV	23114	763854	13.00%	0.619%
299	18.759	18.670	18.776	VV	21938	1194281	20.33%	0.968%
300	18.791	18.776	18.830	VV	21581	648065	11.03%	0.525%
301	18.845	18.830	18.859	VV	19466	336688	5.73%	0.273%
302	18.884	18.859	18.904	VV	25459	595772	10.14%	0.483%
303	18.989	18.904	19.010	VV	34864	1655831	28.19%	1.342%
304	19.030	19.010	19.088	VV	31096	1235325	21.03%	1.001%
305	19.135	19.088	19.158	VV	29608	1103767	18.79%	0.894%
306	19.167	19.158	19.192	VV	27337	517701	8.81%	0.420%
307	19.228	19.192	19.243	VV	25075	731990	12.46%	0.593%
308	19.253	19.243	19.263	VV	24979	300958	5.12%	0.244%
309	19.307	19.263	19.326	VV	26956	972302	16.55%	0.788%
310	19.342	19.326	19.353	VV	27606	428215	7.29%	0.347%
311	19.409	19.353	19.430	VV	31397	1338063	22.78%	1.084%
312	19.460	19.430	19.471	VV	30275	713219	12.14%	0.578%
313	19.484	19.471	19.501	VV	30671	525503	8.95%	0.426%
314	19.538	19.501	19.574	VV	33554	1365010	23.24%	1.106%
315	19.607	19.574	19.644	VV	47399	1630160	27.75%	1.321%
316	19.675	19.644	19.708	VV	44719	1515383	25.80%	1.228%

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317	19.783	19.708	19.828	VV	44192	2877423	48.98%	2.332%
318	19.845	19.828	19.856	VV	39132	658678	11.21%	0.534%
319	19.869	19.856	19.882	VV	38777	592847	10.09%	0.480%
320	19.896	19.882	19.918	VV	39001	794107	13.52%	0.643%
321	19.986	19.918	20.018	VV	50354	2492628	42.43%	2.020%
322	20.048	20.018	20.064	VV	45973	1169034	19.90%	0.947%
323	20.077	20.064	20.114	VV	44221	1299276	22.12%	1.053%
324	20.135	20.114	20.197	VV	44627	2079974	35.41%	1.685%
325	20.207	20.197	20.228	VV	39119	733202	12.48%	0.594%
326	20.255	20.228	20.271	VV	41393	1018493	17.34%	0.825%
327	20.326	20.271	20.373	VV	50841	2804041	47.73%	2.272%
328	20.383	20.373	20.494	VV	47417	3023576	51.47%	2.450%
329	20.508	20.494	20.534	VV	39082	923214	15.72%	0.748%
330	20.646	20.534	20.779	VV	46434	5874489	100.00%	4.760%
331	20.788	20.779	20.804	VV	31799	474832	8.08%	0.385%
332	20.828	20.804	20.839	VV	32122	646614	11.01%	0.524%
333	20.901	20.839	20.930	VV	43749	1910312	32.52%	1.548%
334	20.942	20.930	20.964	VV	36701	727330	12.38%	0.589%
335	20.977	20.964	21.151	VV	35503	3236803	55.10%	2.623%
336	21.159	21.151	21.181	VV	24176	418088	7.12%	0.339%
337	21.199	21.181	21.207	VV	24480	373542	6.36%	0.303%
338	21.238	21.207	21.278	VV	26250	1035222	17.62%	0.839%
339	21.298	21.278	21.318	VV	23133	547155	9.31%	0.443%
340	21.333	21.318	21.350	VV	22464	420936	7.17%	0.341%
341	21.426	21.350	21.554	VV	27484	2843937	48.41%	2.304%
342	21.568	21.554	21.578	VV	19366	267988	4.56%	0.217%
343	21.589	21.578	21.598	VV	19589	236598	4.03%	0.192%
344	21.633	21.598	21.644	VV	20307	537468	9.15%	0.436%
345	21.654	21.644	21.699	VV	19259	574970	9.79%	0.466%
346	21.734	21.699	21.780	VV	20597	838508	14.27%	0.679%
347	21.809	21.780	21.828	VV	16134	441787	7.52%	0.358%
348	21.837	21.828	21.853	VV	15249	219675	3.74%	0.178%
349	21.865	21.853	21.898	VV	14406	368751	6.28%	0.299%
350	21.914	21.898	21.981	VV	13685	631395	10.75%	0.512%
351	22.005	21.981	22.016	VV	12041	236806	4.03%	0.192%
352	22.045	22.016	22.060	VV	13152	312962	5.33%	0.254%
353	22.070	22.060	22.080	VV	12563	146362	2.49%	0.119%
354	22.104	22.080	22.171	VV	14011	625384	10.65%	0.507%
355	22.180	22.171	22.307	VV	9462	440507	7.50%	0.357%
356	22.318	22.307	22.329	VV	1182	8669	0.15%	0.007%
357	22.371	22.329	22.380	PV	2326	28759	0.49%	0.023%
358	22.433	22.380	22.473	VV	3327	122586	2.09%	0.099%
359	22.484	22.473	22.513	VV	1104	15242	0.26%	0.012%
Sum of corrected areas:						123408416		

Aliphatic EPH 092325.M Fri Oct 03 08:43:34 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC092325AL

AreaCount

Parameter Range	FC069825.D	FC069826.D	FC069827.D	FC069828.D	FC069829.D	
Aliphatic C9-C12	36481160.000	19239018.000	8479995.000	3992675.000	2149948.000	
Aliphatic C12-C16	28357328.000	15079775.000	6707361.000	3059370.000	1701298.000	
Aliphatic C16-C21	46795550.000	25342238.000	11726291.000	5161303.000	3079937.000	
Aliphatic C21-C28	60973856.000	33612759.000	16071763.000	6886243.000	4223143.000	
Aliphatic C28-C40	63667378.000	35651403.000	17018918.000	7609564.000	4493535.000	
Aliphatic EPH	236275272.000	128925193.000	60004328.000	26709155.000	15647861.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	133523.2539996	6.773				
Aliphatic C12-C16	156673.343	7.634				
Aliphatic C16-C21	179548.8339996	11.281				
Aliphatic C21-C28	180941.7395	13.444				
Aliphatic C28-C40	128677.0379996	13.615				
Aliphatic EPH	152688.4519996	11.395				

Concentration

Parameter Range	FC069825.D	FC069826.D	FC069827.D	FC069828.D	FC069829.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	FC069825.D	FC069826.D	FC069827.D	FC069828.D	FC069829.D	
Aliphatic C9-C12	121603.866666	128260.120000	141333.250000	133089.166666	143329.866666	
Aliphatic C12-C16	141786.640000	150797.750000	167684.025000	152968.500000	170129.800000	
Aliphatic C16-C21	155985.166666	168948.253333	195438.183333	172043.433333	205329.133333	

Initial Calibration Report for SequenceID : FC092325AL

Aliphatic C21-C28	152434.640000	168063.795000	200897.037500	172156.075000	211157.150000	
Aliphatic C28-C40	106112.296666	118838.010000	141824.316666	126826.066666	149784.500000	
Aliphatic EPH	131264.040000	143250.214444	166678.688888	148384.194444	173865.122222	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069825.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 10:31
 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: Sep 23 12:42:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 12:38:37 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	16923747	91.704 ug/ml
Spiked Amount 50.000		Recovery =	183.41%
12) S 1-chlorooctadecane (S...	13.106	13748454	88.747 ug/ml
Spiked Amount 50.000		Recovery =	177.49%
Target Compounds			
1) T n-Nonane (C9)	3.406	11645434	92.785 ug/ml
2) T n-Decane (C10)	4.479	12074558	92.369 ug/ml
3) T A~Naphthalene (C11.7)	6.074	13540149	92.730 ug/ml
4) T n-Dodecane (C12)	6.502	12761168	92.355 ug/ml
5) T A~2-methylnaphthalene...	7.133	13632065	93.327 ug/ml
6) T n-Tetradecane (C14)	8.300	13524594	92.132 ug/ml
7) T n-Hexadecane (C16)	9.904	14832734	91.181 ug/ml
8) T n-Octadecane (C18)	11.351	15683416	89.705 ug/ml
10) T n-Eicosane (C20)	12.660	15587488	88.548 ug/ml
11) T n-Heneicosane (C21)	13.273	15524646	88.075 ug/ml
13) T n-Docosane (C22)	13.860	15568351	87.640 ug/ml
14) T n-Tetracosane (C24)	14.964	15594950	86.702 ug/ml
15) T n-Hexacosane (C26)	15.985	15226883	85.849 ug/ml
16) T n-Octacosane (C28)	16.936	14583672	84.893 ug/ml
17) T n-Tricontane (C30)	17.824	14231420	84.228 ug/ml
18) T n-Dotriacontane (C32)	18.656	13051710	83.851 ug/ml
19) T n-Tetratriacontane (C34)	19.440	11470497	84.662 ug/ml
20) T n-Hexatriacontane (C36)	20.178	9384313	85.995 ug/ml
21) T n-Octatriacontane (C38)	20.942	8180165	88.372 ug/ml
22) T n-Tetracontane (C40)	21.900	7349273	89.608 ug/ml

(f)=RT Delta > 1/2 Window

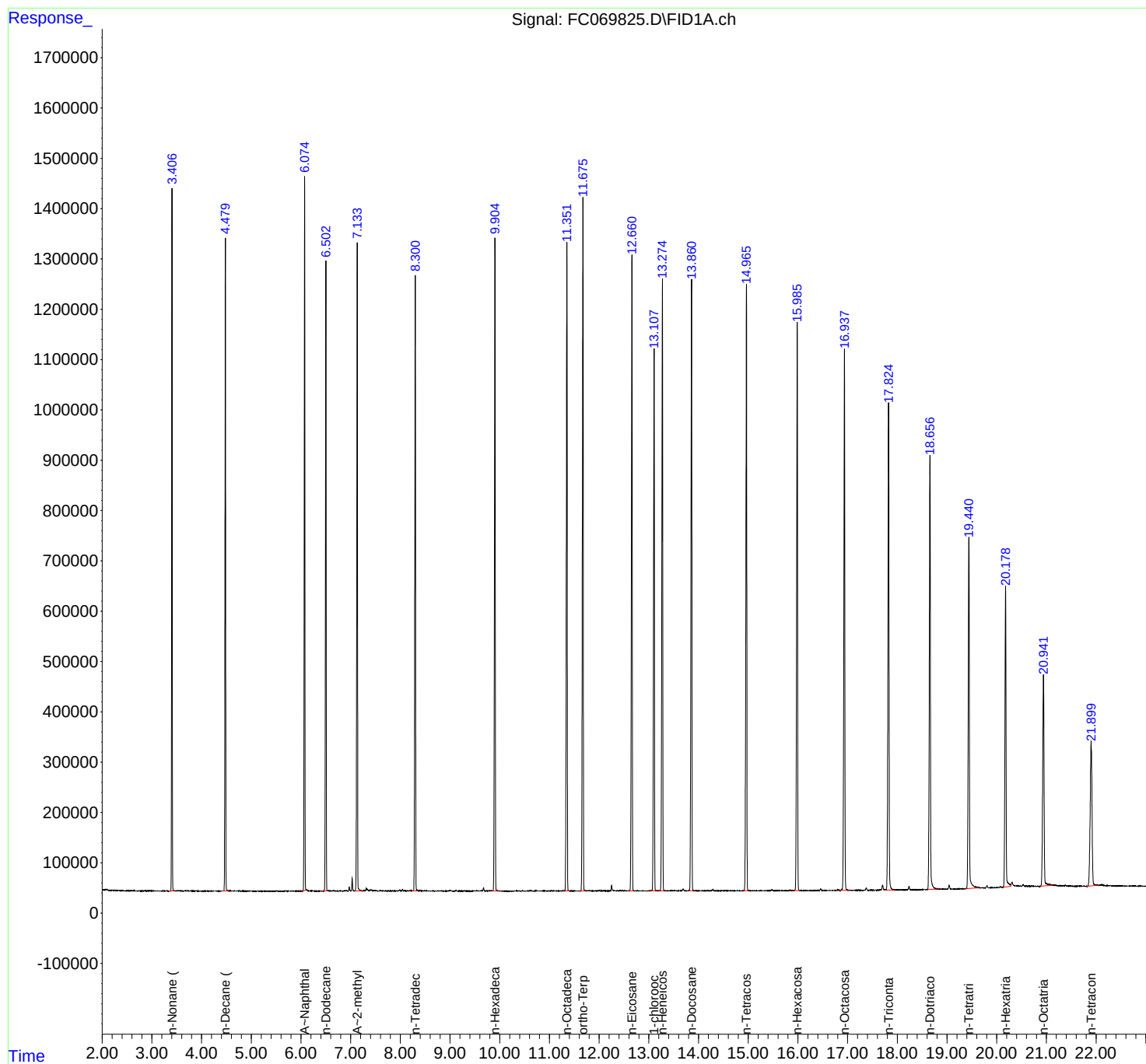
(m)=manual int.

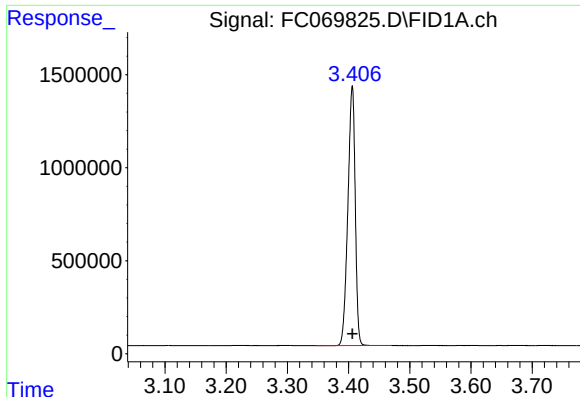
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069825.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 10:31
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 23 12:42:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

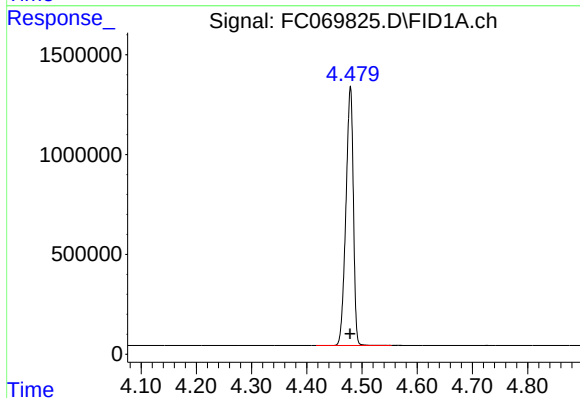




#1 n-Nonane (C9)

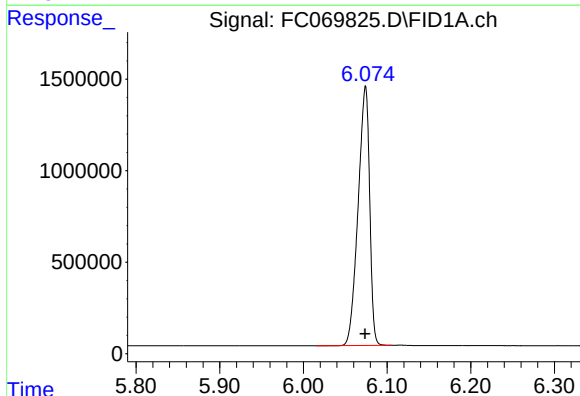
R.T.: 3.406 min
Delta R.T.: 0.000 min
Response: 11645434
Conc: 92.78 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



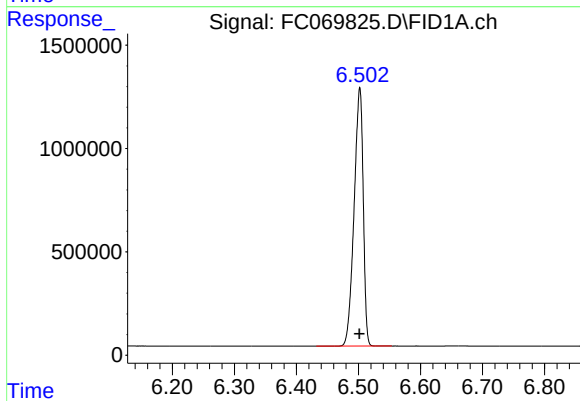
#2 n-Decane (C10)

R.T.: 4.479 min
Delta R.T.: 0.000 min
Response: 12074558
Conc: 92.37 ug/ml



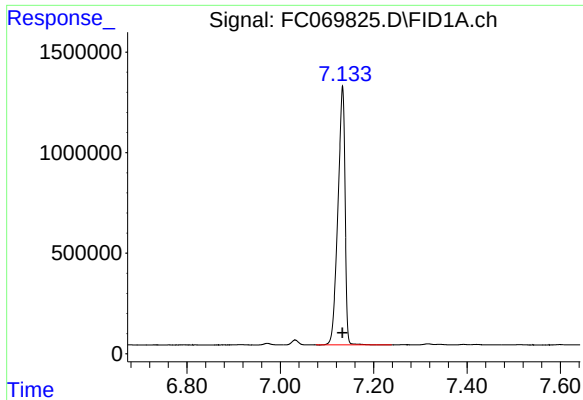
#3 A~Naphthalene (C11.7)

R.T.: 6.074 min
Delta R.T.: 0.000 min
Response: 13540149
Conc: 92.73 ug/ml



#4 n-Dodecane (C12)

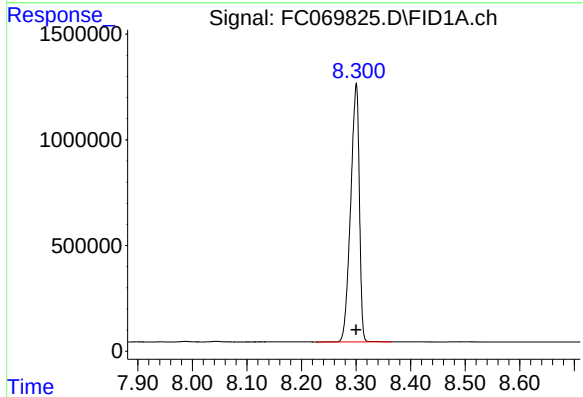
R.T.: 6.502 min
Delta R.T.: 0.000 min
Response: 12761168
Conc: 92.36 ug/ml



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

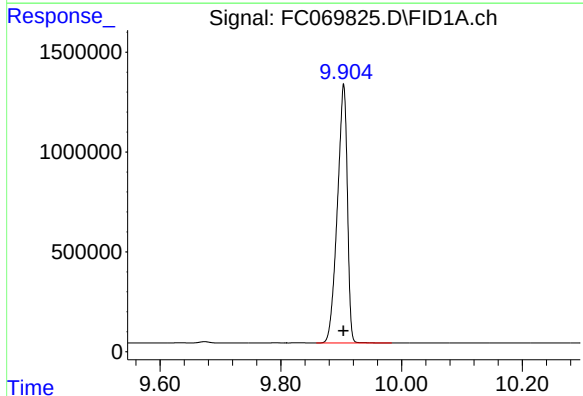
R.T.: 7.133 min
Delta R.T.: 0.000 min
Response: 13632065
Conc: 93.33 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



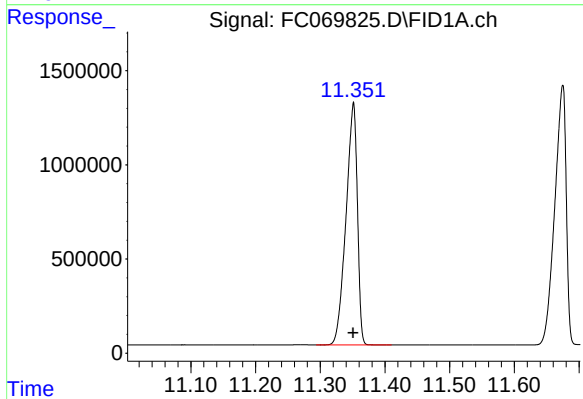
#6 n-Tetradecane (C14)

R.T.: 8.300 min
Delta R.T.: 0.000 min
Response: 13524594
Conc: 92.13 ug/ml



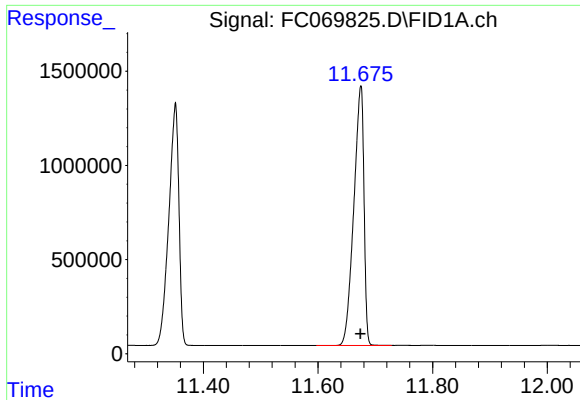
#7 n-Hexadecane (C16)

R.T.: 9.904 min
Delta R.T.: 0.000 min
Response: 14832734
Conc: 91.18 ug/ml



#8 n-Octadecane (C18)

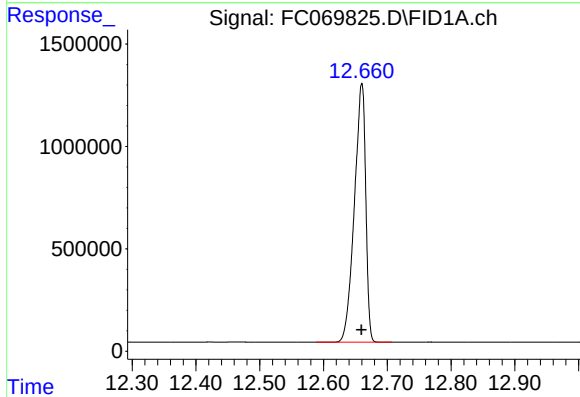
R.T.: 11.351 min
Delta R.T.: 0.000 min
Response: 15683416
Conc: 89.70 ug/ml



#9 ortho-Terphenyl (SURR)

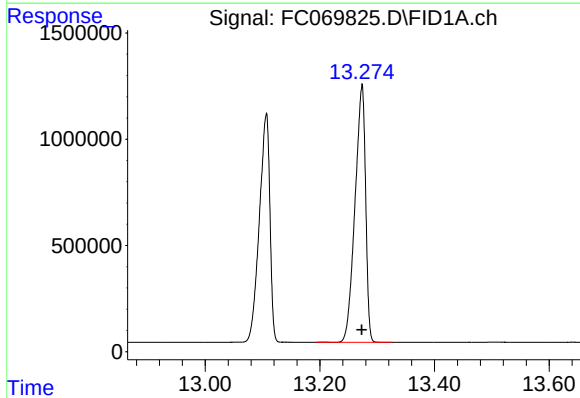
R.T.: 11.674 min
Delta R.T.: 0.000 min
Response: 16923747
Conc: 91.70 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



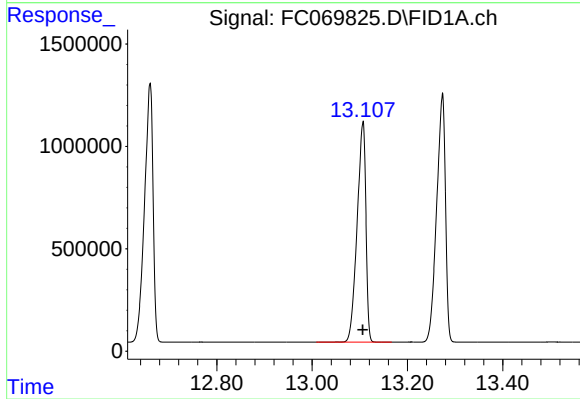
#10 n-Eicosane (C20)

R.T.: 12.660 min
Delta R.T.: 0.000 min
Response: 15587488
Conc: 88.55 ug/ml



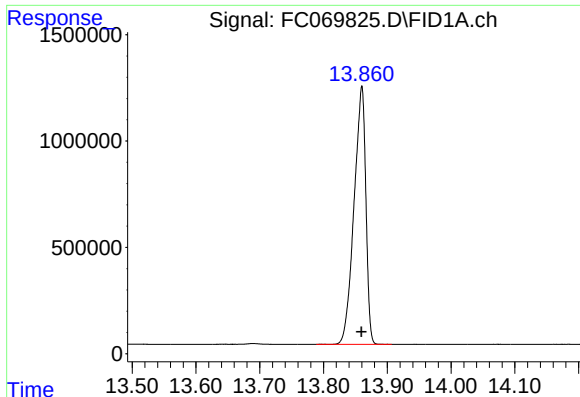
#11 n-Heneicosane (C21)

R.T.: 13.273 min
Delta R.T.: 0.000 min
Response: 15524646
Conc: 88.07 ug/ml



#12 1-chlorooctadecane (SURR)

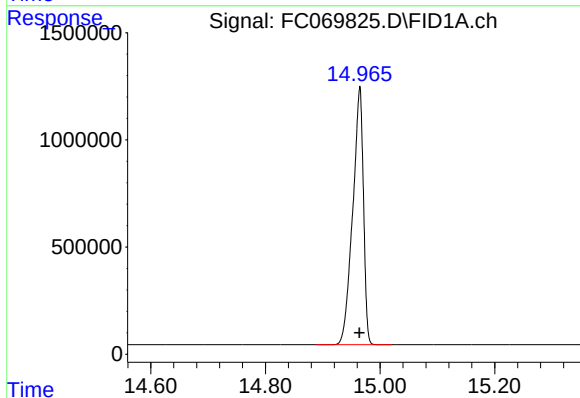
R.T.: 13.106 min
Delta R.T.: 0.000 min
Response: 13748454
Conc: 88.75 ug/ml



#13 n-Docosane (C22)

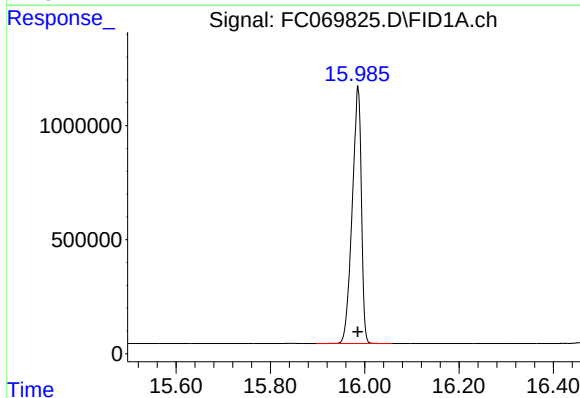
R.T.: 13.860 min
Delta R.T.: 0.000 min
Response: 15568351
Conc: 87.64 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



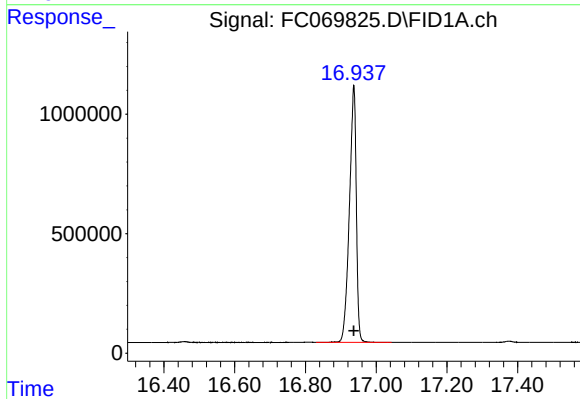
#14 n-Tetracosane (C24)

R.T.: 14.964 min
Delta R.T.: 0.000 min
Response: 15594950
Conc: 86.70 ug/ml



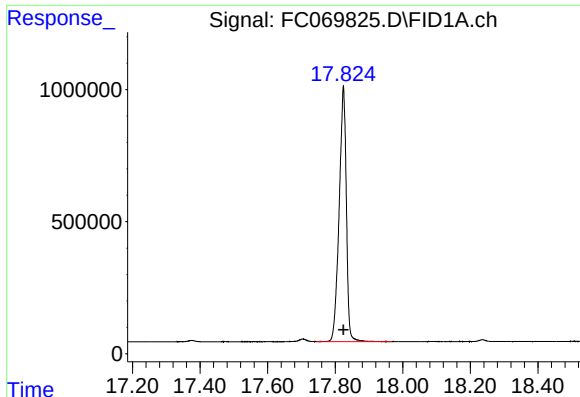
#15 n-Hexacosane (C26)

R.T.: 15.985 min
Delta R.T.: 0.000 min
Response: 15226883
Conc: 85.85 ug/ml



#16 n-Octacosane (C28)

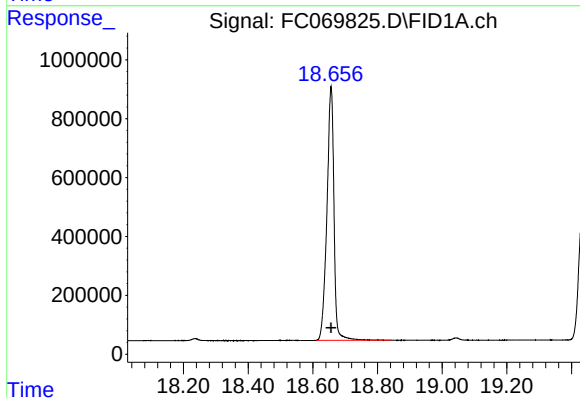
R.T.: 16.936 min
Delta R.T.: 0.000 min
Response: 14583672
Conc: 84.89 ug/ml



#17 n-Tricontane (C30)

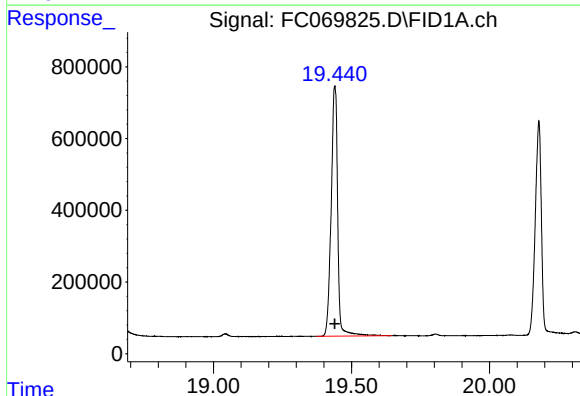
R.T.: 17.824 min
Delta R.T.: 0.000 min
Response: 14231420
Conc: 84.23 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



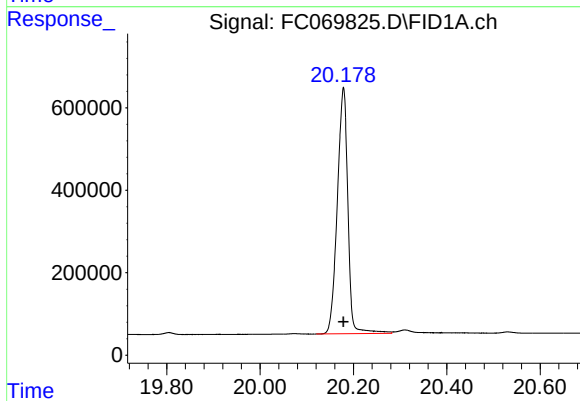
#18 n-Dotriacontane (C32)

R.T.: 18.656 min
Delta R.T.: 0.000 min
Response: 13051710
Conc: 83.85 ug/ml



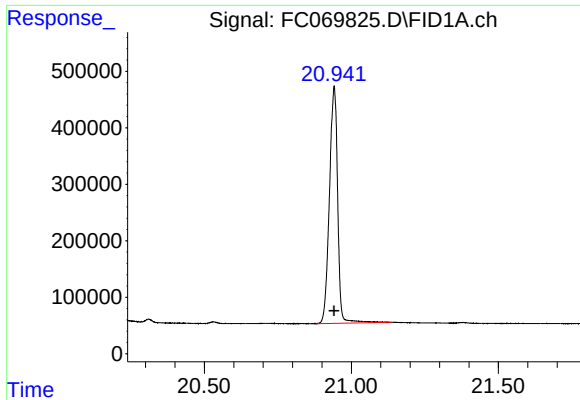
#19 n-Tetratriacontane (C34)

R.T.: 19.440 min
Delta R.T.: 0.000 min
Response: 11470497
Conc: 84.66 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.178 min
Delta R.T.: 0.000 min
Response: 9384313
Conc: 85.99 ug/ml



#21 n-Octatriacontane (C38)

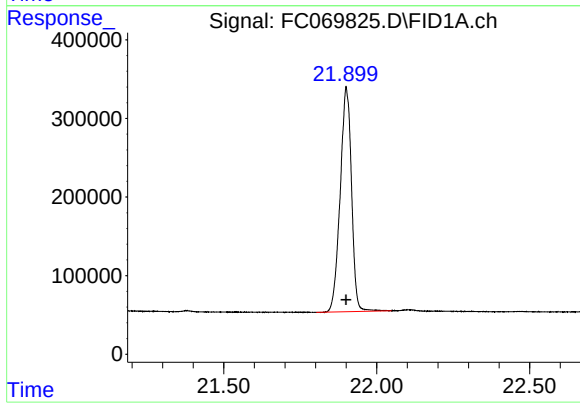
R.T.: 20.942 min
Delta R.T.: 0.000 min
Response: 8180165
Conc: 88.37 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 7349273
Conc: 89.61 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069825.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 10:31
 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 092325.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.406	3.347	3.470	BB	1388469	11645434	68.81%	3.959%
2	4.479	4.417	4.554	BB	1296834	12074558	71.35%	4.105%
3	6.074	6.015	6.105	BV	1413198	13540149	80.01%	4.604%
4	6.502	6.432	6.554	BB	1254435	12761168	75.40%	4.339%
5	7.133	7.077	7.239	BB	1296551	13632065	80.55%	4.635%
6	8.300	8.227	8.365	BB	1226085	13524594	79.91%	4.598%
7	9.904	9.859	9.984	BB	1297853	14832734	87.64%	5.043%
8	11.351	11.294	11.410	BB	1272818	15683416	92.67%	5.332%
9	11.674	11.597	11.729	BB	1371178	16923747	100.00%	5.754%
10	12.660	12.589	12.707	BB	1266293	15587488	92.10%	5.300%
11	13.106	13.009	13.167	BB	1066658	13748454	81.24%	4.674%
12	13.273	13.194	13.325	BB	1217295	15524646	91.73%	5.278%
13	13.860	13.789	13.907	BB	1221304	15568351	91.99%	5.293%
14	14.964	14.889	15.020	BB	1190857	15594950	92.15%	5.302%
15	15.985	15.897	16.057	BB	1128033	15226883	89.97%	5.177%
16	16.936	16.830	17.044	BB	1078876	14583672	86.17%	4.958%
17	17.824	17.744	17.967	VB	967028	14231420	84.09%	4.839%
18	18.656	18.610	18.844	BB	861293	13051710	77.12%	4.438%
19	19.440	19.372	19.645	BB	698627	11470497	67.78%	3.900%
20	20.178	20.120	20.282	BV	598676	9384313	55.45%	3.191%
21	20.942	20.880	21.137	BB	420473	8180165	48.34%	2.781%
22	21.900	21.802	22.049	BB	286095	7349273	43.43%	2.499%
Sum of corrected areas:						294119687		

Aliphatic EPH 092325.M Tue Sep 23 15:05:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069826.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 11:16
 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: Sep 23 12:46:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 12:38:37 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.667	8965638	49.045 ug/ml
Spiked Amount 50.000		Recovery =	98.09%
12) S 1-chlorooctadecane (S...	13.100	7425577	48.602 ug/ml
Spiked Amount 50.000		Recovery =	97.20%
Target Compounds			
1) T n-Nonane (C9)	3.403	6152543	49.343 ug/ml
2) T n-Decane (C10)	4.475	6373820	49.166 ug/ml
3) T A~Naphthalene (C11.7)	6.069	7155979	49.334 ug/ml
4) T n-Dodecane (C12)	6.498	6712655	49.045 ug/ml
5) T A~2-methylnaphthalene...	7.128	7133568	49.219 ug/ml
6) T n-Tetradecane (C14)	8.295	7146968	49.116 ug/ml
7) T n-Hexadecane (C16)	9.899	7932807	49.170 ug/ml
8) T n-Octadecane (C18)	11.344	8462910	48.926 ug/ml
10) T n-Eicosane (C20)	12.654	8449007	48.646 ug/ml
11) T n-Heneicosane (C21)	13.266	8430321	48.530 ug/ml
13) T n-Docosane (C22)	13.853	8470750	48.432 ug/ml
14) T n-Tetracosane (C24)	14.957	8543618	48.305 ug/ml
15) T n-Hexacosane (C26)	15.980	8419910	48.285 ug/ml
16) T n-Octacosane (C28)	16.929	8178481	48.379 ug/ml
17) T n-Tricontane (C30)	17.819	8058251	48.438 ug/ml
18) T n-Dotriacontane (C32)	18.651	7444649	48.531 ug/ml
19) T n-Tetratriacontane (C34)	19.436	6495279	48.608 ug/ml
20) T n-Hexatriacontane (C36)	20.174	5232913	48.616 ug/ml
21) T n-Octatriacontane (C38)	20.935	4446700	48.675 ug/ml
22) T n-Tetracontane (C40)	21.896	3973611	48.955 ug/ml

(f)=RT Delta > 1/2 Window

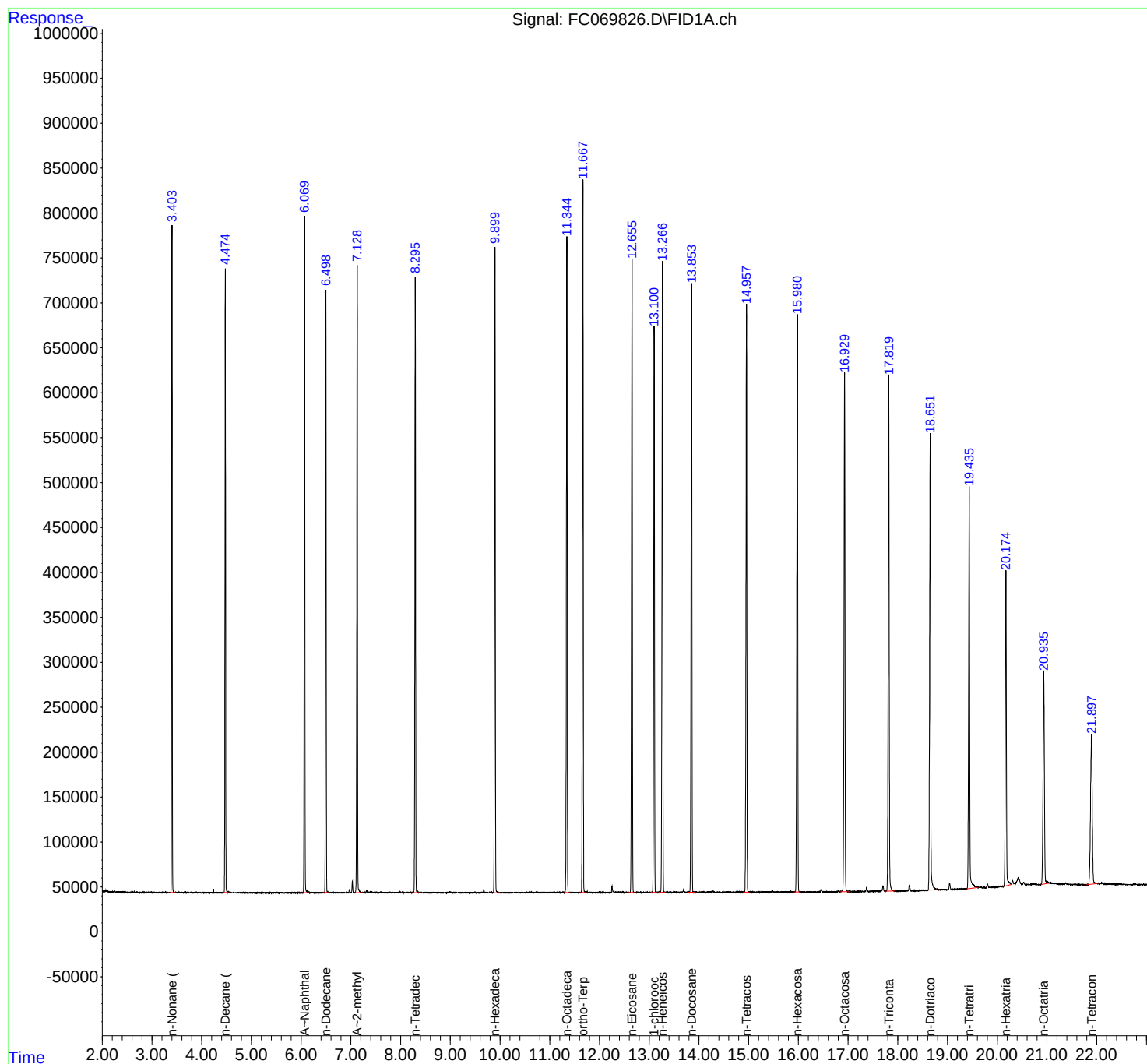
(m)=manual int.

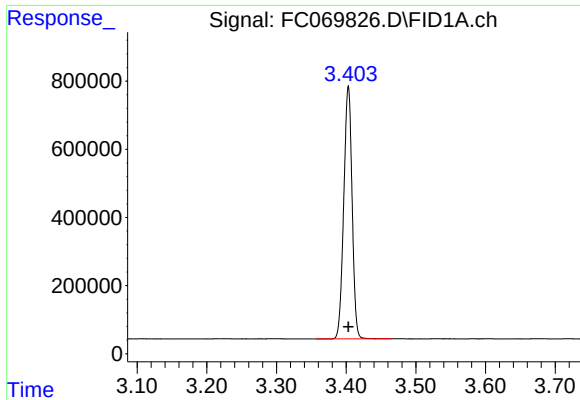
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069826.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 11:16
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 23 12:46:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

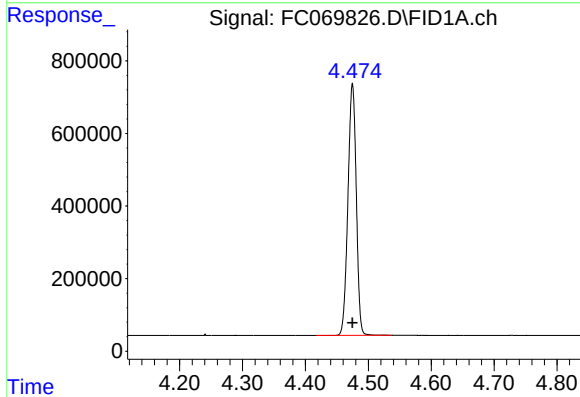




#1 n-Nonane (C9)

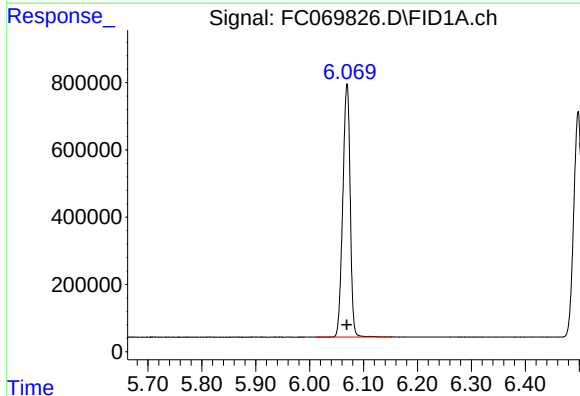
R.T.: 3.403 min
Delta R.T.: 0.000 min
Response: 6152543
Conc: 49.34 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



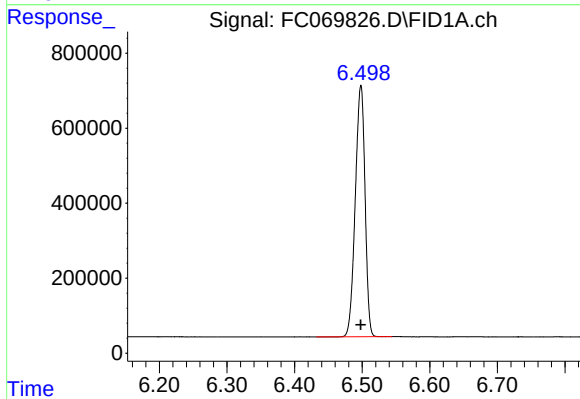
#2 n-Decane (C10)

R.T.: 4.475 min
Delta R.T.: 0.000 min
Response: 6373820
Conc: 49.17 ug/ml



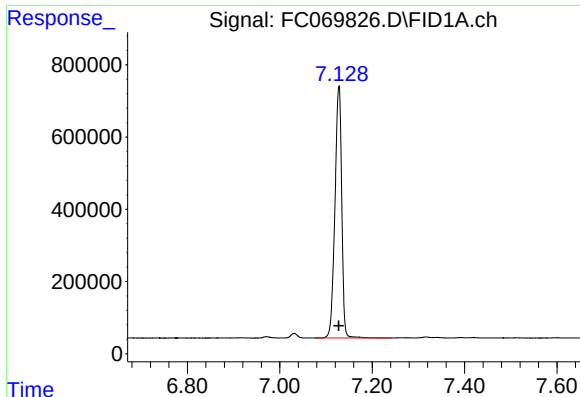
#3 A~Naphthalene (C11.7)

R.T.: 6.069 min
Delta R.T.: 0.000 min
Response: 7155979
Conc: 49.33 ug/ml



#4 n-Dodecane (C12)

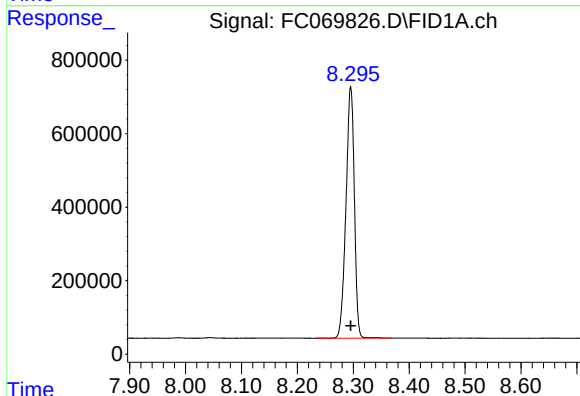
R.T.: 6.498 min
Delta R.T.: 0.000 min
Response: 6712655
Conc: 49.04 ug/ml



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

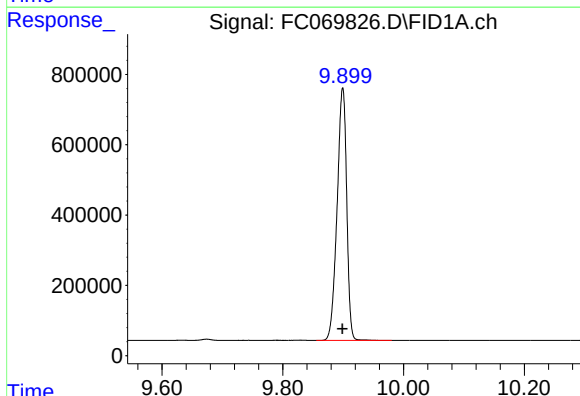
R.T.: 7.128 min
Delta R.T.: 0.000 min
Response: 7133568
Conc: 49.22 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



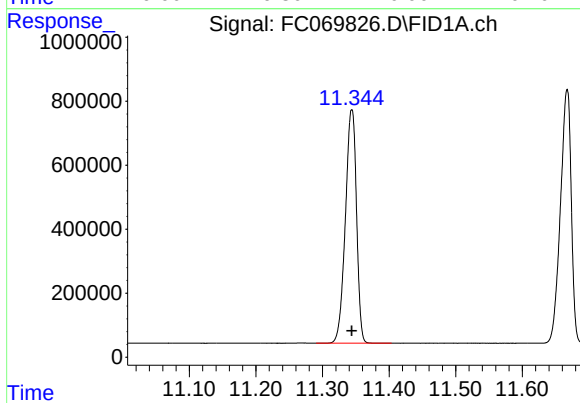
#6 n-Tetradecane (C14)

R.T.: 8.295 min
Delta R.T.: 0.000 min
Response: 7146968
Conc: 49.12 ug/ml



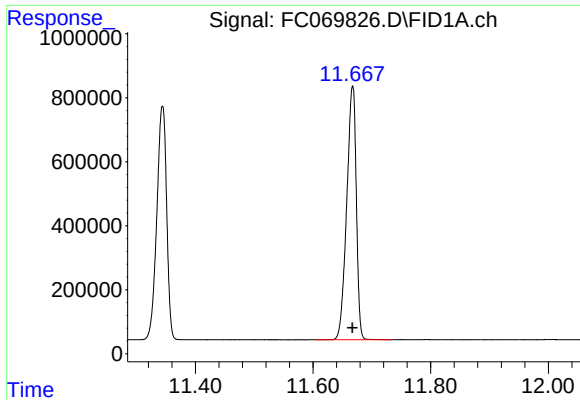
#7 n-Hexadecane (C16)

R.T.: 9.899 min
Delta R.T.: 0.000 min
Response: 7932807
Conc: 49.17 ug/ml



#8 n-Octadecane (C18)

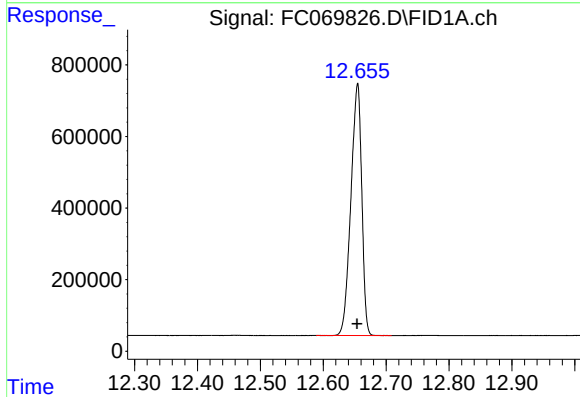
R.T.: 11.344 min
Delta R.T.: 0.000 min
Response: 8462910
Conc: 48.93 ug/ml



#9 ortho-Terphenyl (SURR)

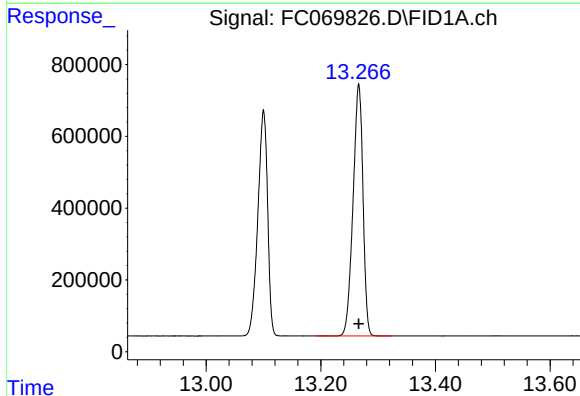
R.T.: 11.667 min
Delta R.T.: 0.000 min
Response: 8965638
Conc: 49.05 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



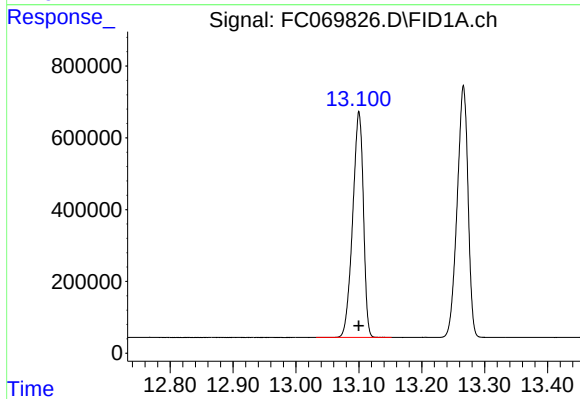
#10 n-Eicosane (C20)

R.T.: 12.654 min
Delta R.T.: 0.000 min
Response: 8449007
Conc: 48.65 ug/ml



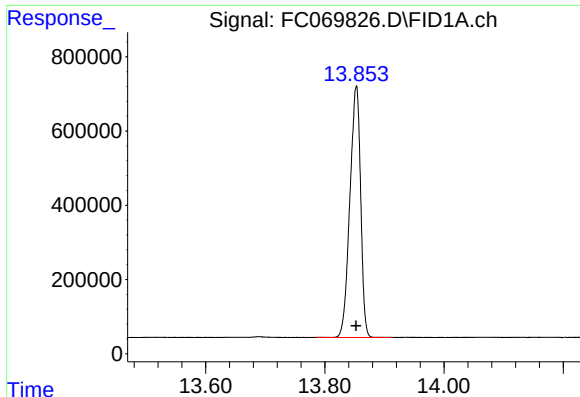
#11 n-Heneicosane (C21)

R.T.: 13.266 min
Delta R.T.: 0.000 min
Response: 8430321
Conc: 48.53 ug/ml



#12 1-chlorooctadecane (SURR)

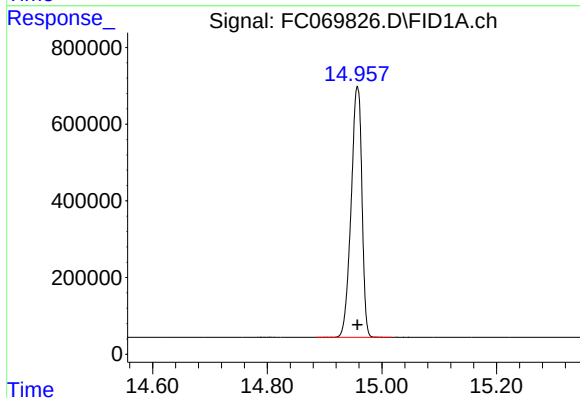
R.T.: 13.100 min
Delta R.T.: 0.000 min
Response: 7425577
Conc: 48.60 ug/ml



#13 n-Docosane (C22)

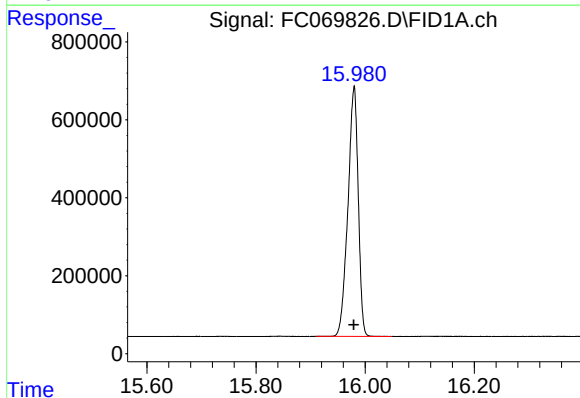
R.T.: 13.853 min
Delta R.T.: 0.000 min
Response: 8470750
Conc: 48.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



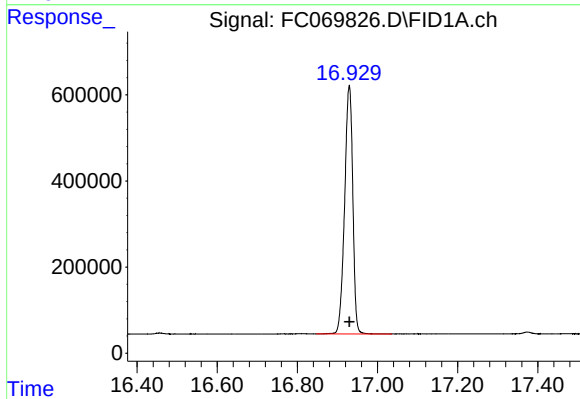
#14 n-Tetracosane (C24)

R.T.: 14.957 min
Delta R.T.: 0.000 min
Response: 8543618
Conc: 48.30 ug/ml



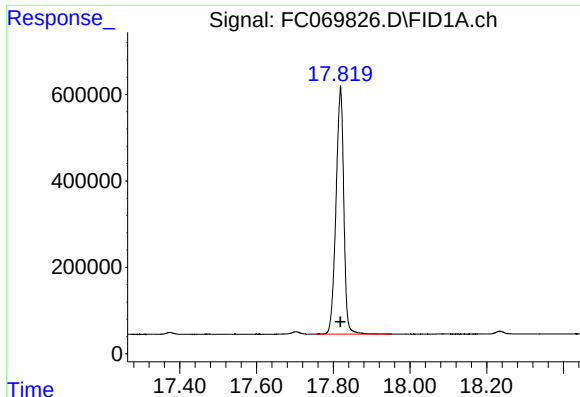
#15 n-Hexacosane (C26)

R.T.: 15.980 min
Delta R.T.: 0.000 min
Response: 8419910
Conc: 48.29 ug/ml



#16 n-Octacosane (C28)

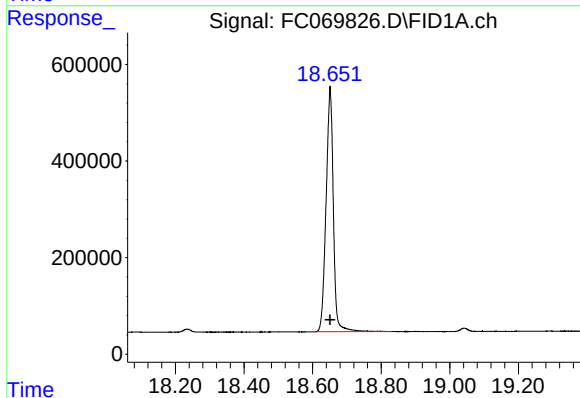
R.T.: 16.929 min
Delta R.T.: 0.000 min
Response: 8178481
Conc: 48.38 ug/ml



#17 n-Tricontane (C30)

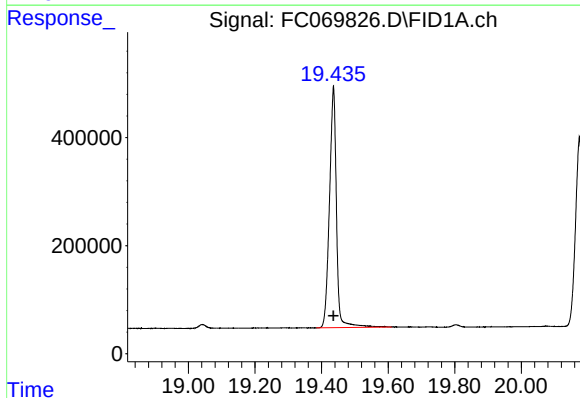
R.T.: 17.819 min
Delta R.T.: 0.000 min
Response: 8058251
Conc: 48.44 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



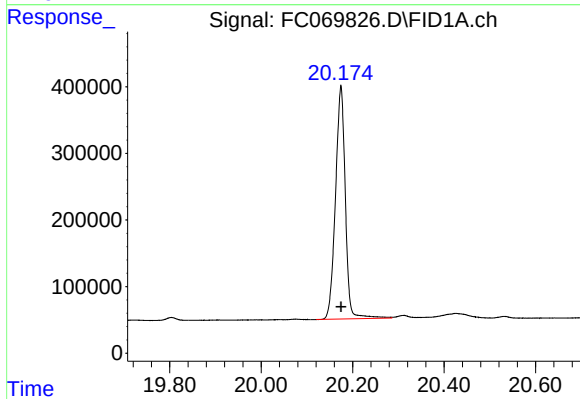
#18 n-Dotriacontane (C32)

R.T.: 18.651 min
Delta R.T.: 0.000 min
Response: 7444649
Conc: 48.53 ug/ml



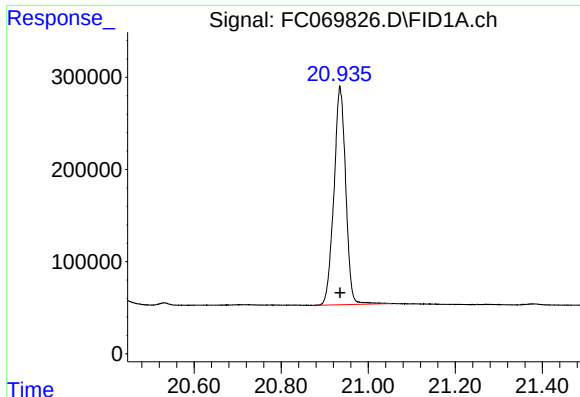
#19 n-Tetratriacontane (C34)

R.T.: 19.436 min
Delta R.T.: 0.000 min
Response: 6495279
Conc: 48.61 ug/ml



#20 n-Hexatriacontane (C36)

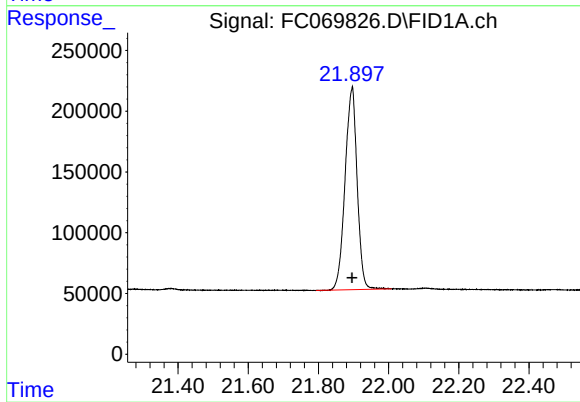
R.T.: 20.174 min
Delta R.T.: 0.000 min
Response: 5232913
Conc: 48.62 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.935 min
Delta R.T.: 0.000 min
Response: 4446700
Conc: 48.67 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.896 min
Delta R.T.: 0.000 min
Response: 3973611
Conc: 48.96 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069826.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 11:16
 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 092325.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	3.357	3.465	BB	745051	6152543	68.62%	3.855%
2	4.475	4.417	4.537	BB	693786	6373820	71.09%	3.993%
3	6.069	6.012	6.152	BB	751105	7155979	79.82%	4.484%
4	6.498	6.432	6.544	BB	674503	6712655	74.87%	4.206%
5	7.128	7.079	7.242	BB	695935	7133568	79.57%	4.469%
6	8.295	8.234	8.369	BB	685059	7146968	79.72%	4.478%
7	9.899	9.855	9.980	BB	719336	7932807	88.48%	4.970%
8	11.344	11.290	11.404	BB	730677	8462910	94.39%	5.302%
9	11.667	11.605	11.734	BB	794180	8965638	100.00%	5.617%
10	12.654	12.589	12.709	BB	701289	8449007	94.24%	5.294%
11	13.100	13.032	13.152	BB	629941	7425577	82.82%	4.652%
12	13.266	13.192	13.324	BB	702135	8430321	94.03%	5.282%
13	13.853	13.785	13.912	BB	675901	8470750	94.48%	5.307%
14	14.957	14.885	15.017	BB	654442	8543618	95.29%	5.353%
15	15.980	15.910	16.049	BB	646597	8419910	93.91%	5.275%
16	16.929	16.847	17.035	BB	574977	8178481	91.22%	5.124%
17	17.819	17.755	17.952	BB	572820	8058251	89.88%	5.049%
18	18.651	18.610	18.830	BB	506372	7444649	83.04%	4.664%
19	19.436	19.384	19.610	BB	446121	6495279	72.45%	4.070%
20	20.174	20.120	20.285	BV	348797	5232913	58.37%	3.279%
21	20.935	20.880	21.054	BB	236642	4446700	49.60%	2.786%
22	21.896	21.794	22.009	BB	165691	3973611	44.32%	2.490%
Sum of corrected areas:						159605955		

Aliphatic EPH 092325.M Tue Sep 23 15:04:15 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069827.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 12:02
 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: Sep 23 12:38:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 12:38:37 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)	11.661	3997190	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.095	3447033	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.401	2691320	20.000 ug/ml
2) T n-Decane (C10)	4.472	2813927	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.066	3132652	20.000 ug/ml
4) T n-Dodecane (C12)	6.495	2974748	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.124	3116315	20.000 ug/ml
6) T n-Tetradecane (C14)	8.292	3166933	20.000 ug/ml
7) T n-Hexadecane (C16)	9.895	3540428	20.000 ug/ml
8) T n-Octadecane (C18)	11.339	3856654	20.000 ug/ml
10) T n-Eicosane (C20)	12.649	3923913	20.000 ug/ml
11) T n-Heneicosane (C21)	13.262	3945724	20.000 ug/ml
13) T n-Docosane (C22)	13.849	3991937	20.000 ug/ml
14) T n-Tetracosane (C24)	14.953	4075708	20.000 ug/ml
15) T n-Hexacosane (C26)	15.975	4049330	20.000 ug/ml
16) T n-Octacosane (C28)	16.925	3954788	20.000 ug/ml
17) T n-Tricontane (C30)	17.814	3912238	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.647	3615771	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.430	3125338	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.171	2488192	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.931	2066589	20.000 ug/ml
22) T n-Tetracontane (C40)	21.893	1810790	20.000 ug/ml

(f)=RT Delta > 1/2 Window

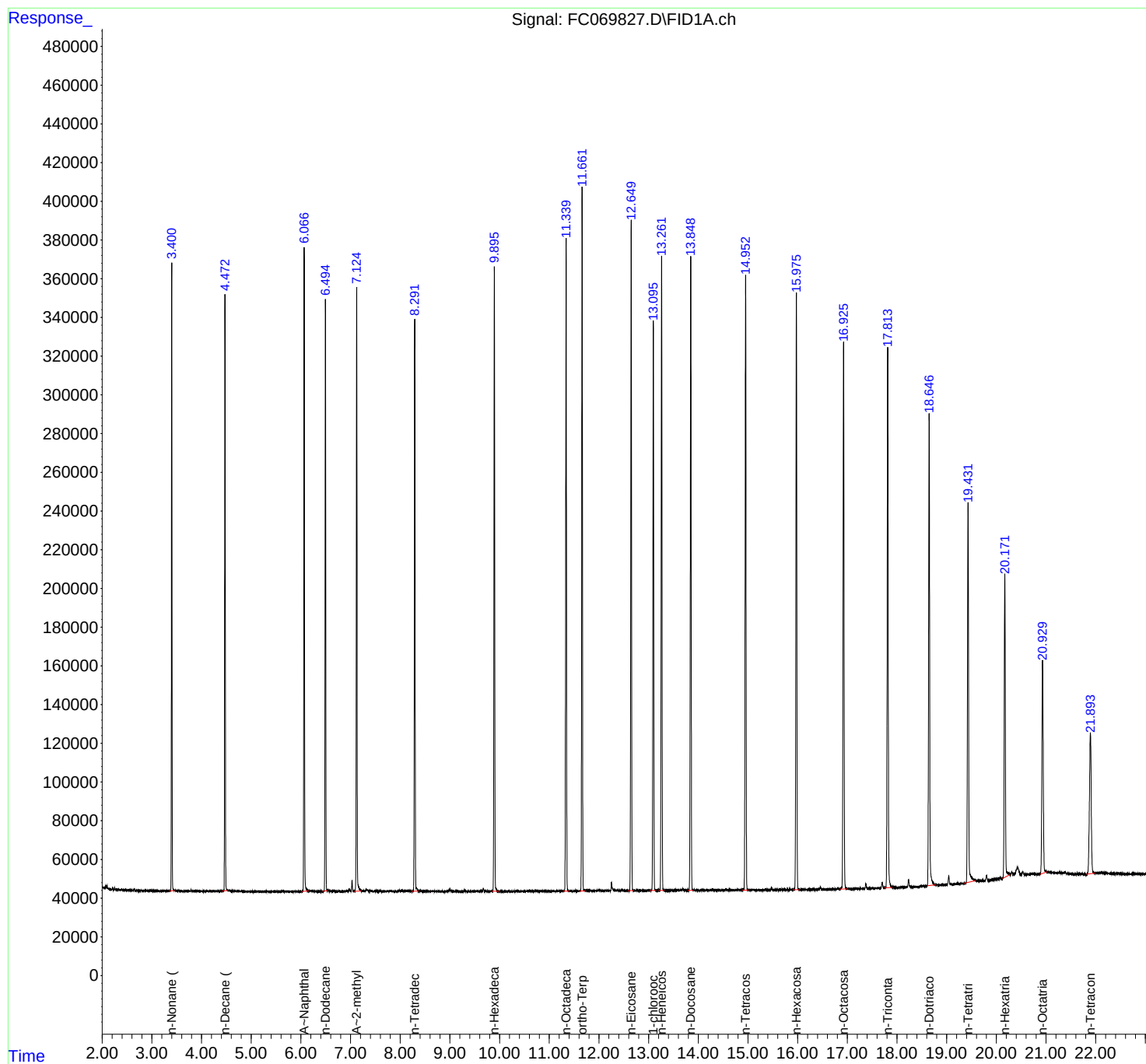
(m)=manual int.

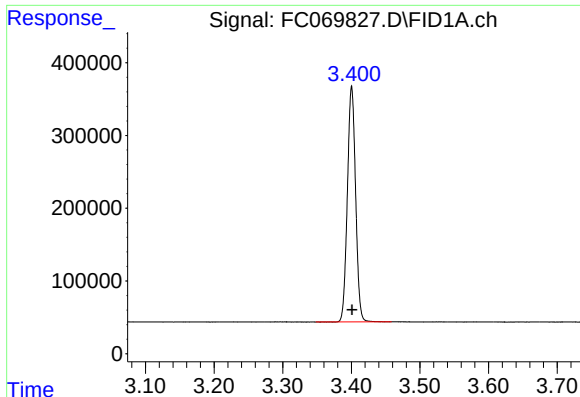
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069827.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:02
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 23 12:38:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

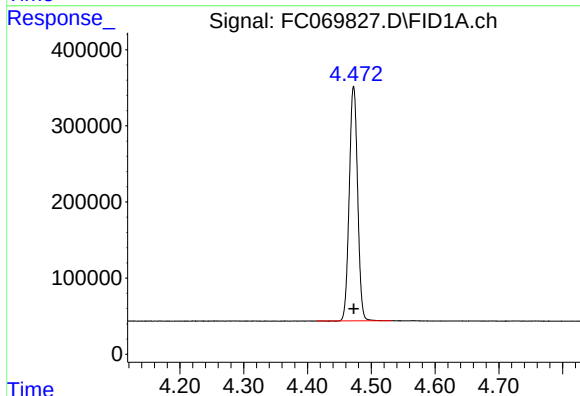




#1 n-Nonane (C9)

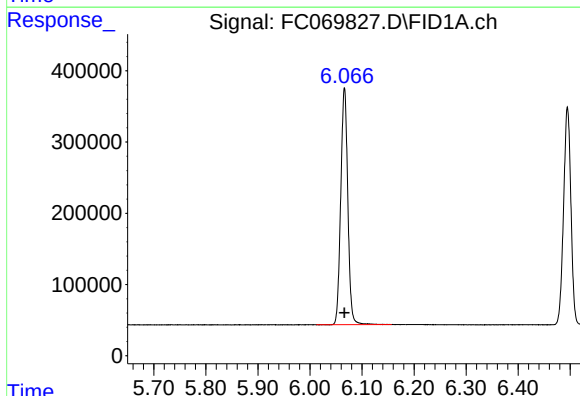
R.T.: 3.401 min
Delta R.T.: 0.000 min
Response: 2691320
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



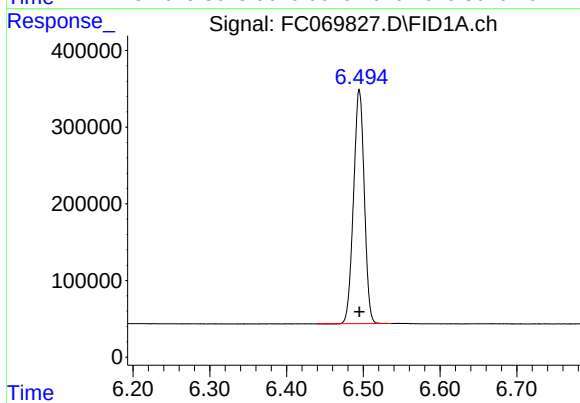
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 2813927
Conc: 20.00 ug/ml



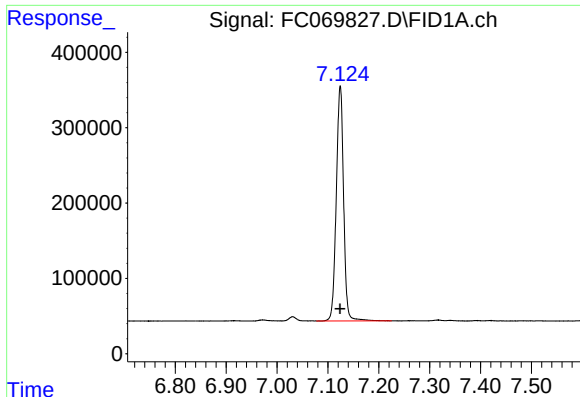
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 3132652
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

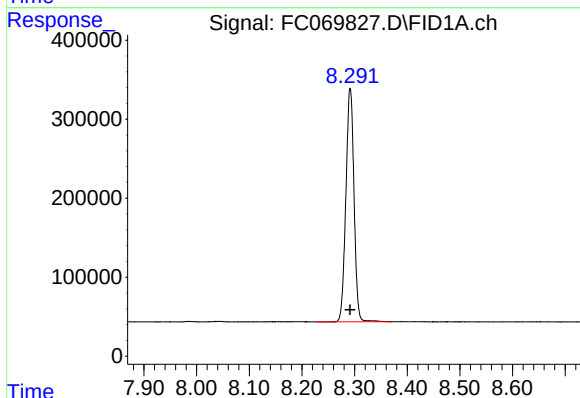
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 2974748
Conc: 20.00 ug/ml



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

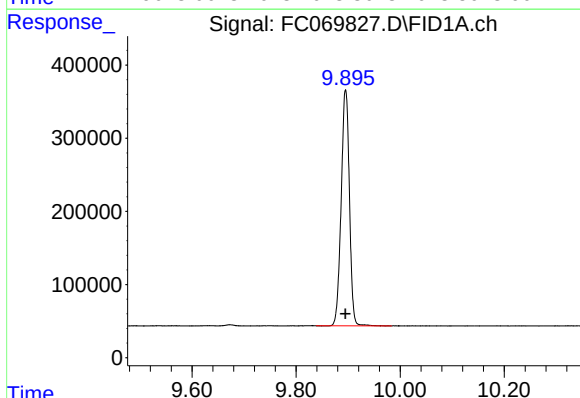
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 3116315
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



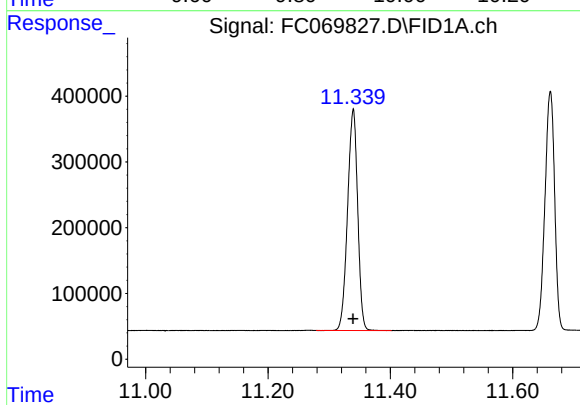
#6 n-Tetradecane (C14)

R.T.: 8.292 min
Delta R.T.: 0.000 min
Response: 3166933
Conc: 20.00 ug/ml



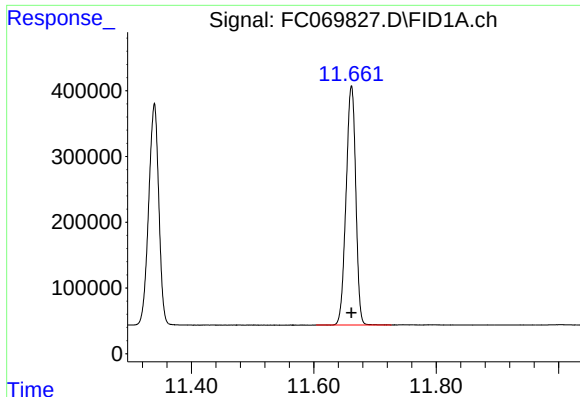
#7 n-Hexadecane (C16)

R.T.: 9.895 min
Delta R.T.: 0.000 min
Response: 3540428
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

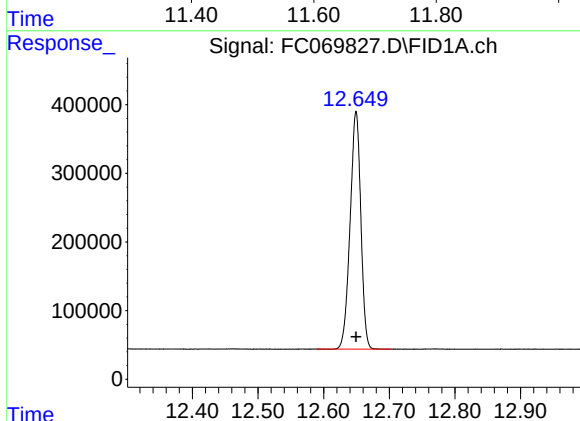
R.T.: 11.339 min
Delta R.T.: 0.000 min
Response: 3856654
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

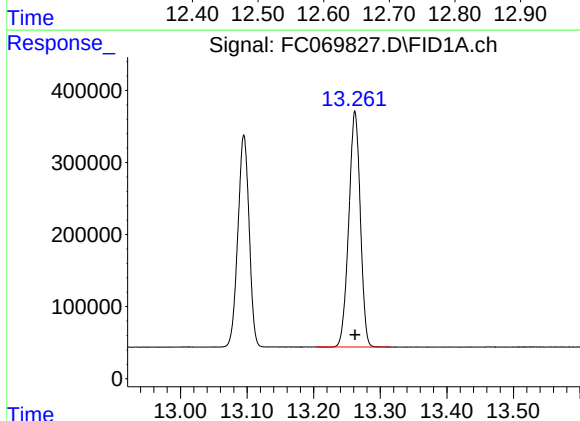
R.T.: 11.661 min
Delta R.T.: 0.000 min
Response: 3997190
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



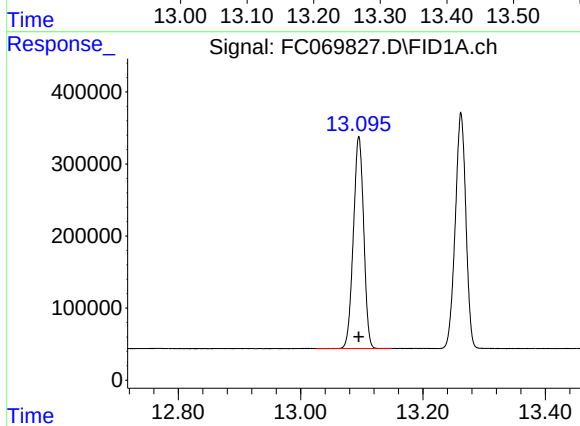
#10 n-Eicosane (C20)

R.T.: 12.649 min
Delta R.T.: 0.000 min
Response: 3923913
Conc: 20.00 ug/ml



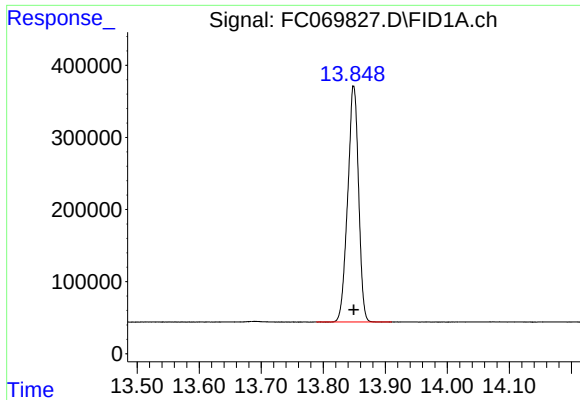
#11 n-Heneicosane (C21)

R.T.: 13.262 min
Delta R.T.: 0.000 min
Response: 3945724
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

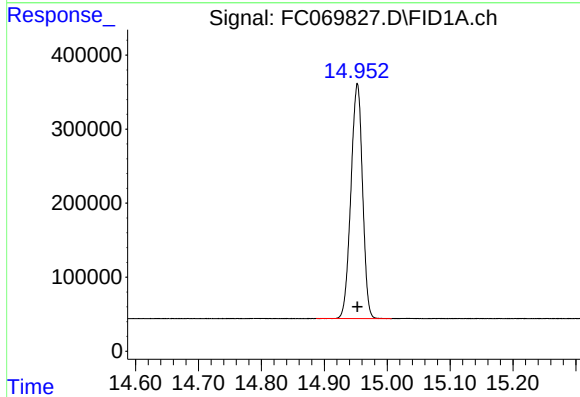
R.T.: 13.095 min
Delta R.T.: 0.000 min
Response: 3447033
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

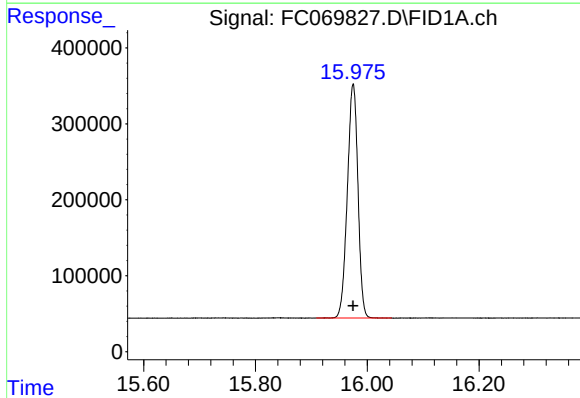
R.T.: 13.849 min
Delta R.T.: 0.000 min
Response: 3991937
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



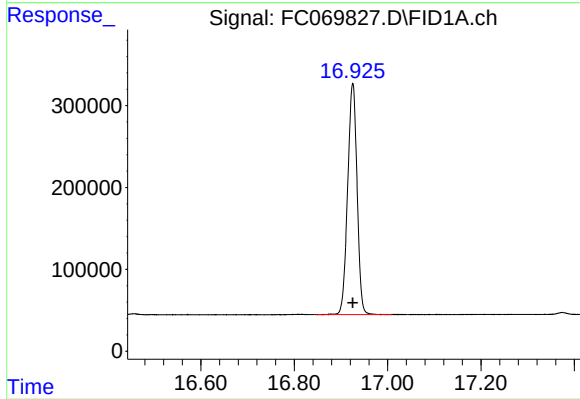
#14 n-Tetracosane (C24)

R.T.: 14.953 min
Delta R.T.: 0.000 min
Response: 4075708
Conc: 20.00 ug/ml



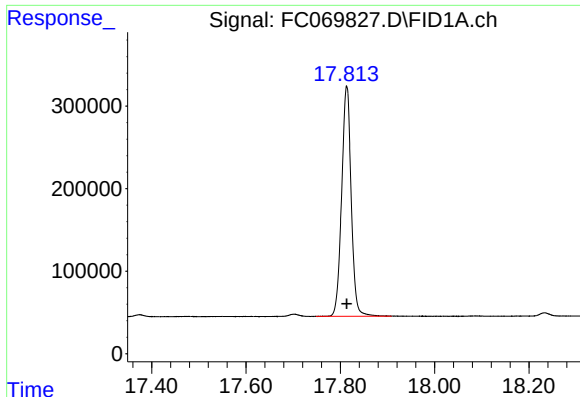
#15 n-Hexacosane (C26)

R.T.: 15.975 min
Delta R.T.: 0.000 min
Response: 4049330
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

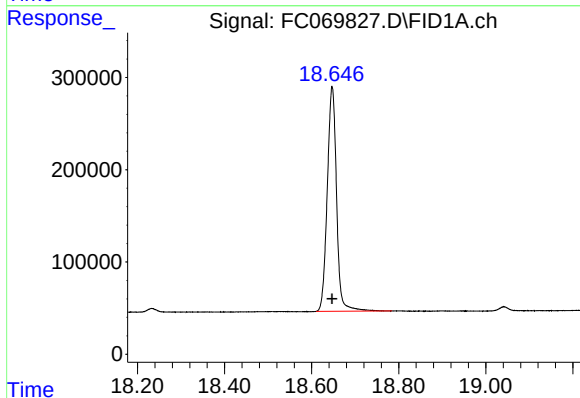
R.T.: 16.925 min
Delta R.T.: 0.000 min
Response: 3954788
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

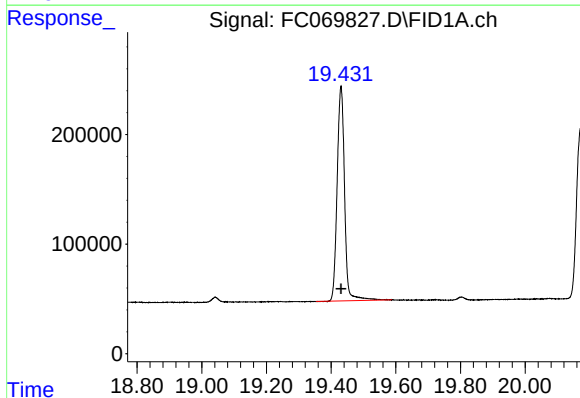
R.T.: 17.814 min
Delta R.T.: 0.000 min
Response: 3912238
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



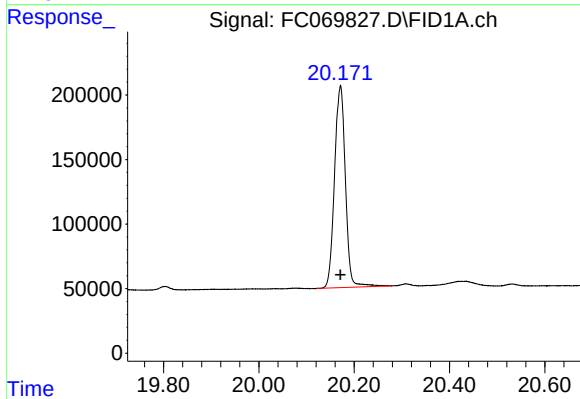
#18 n-Dotriacontane (C32)

R.T.: 18.647 min
Delta R.T.: 0.000 min
Response: 3615771
Conc: 20.00 ug/ml



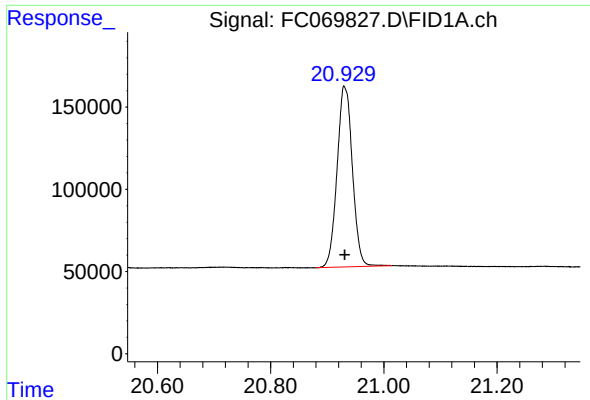
#19 n-Tetratriacontane (C34)

R.T.: 19.430 min
Delta R.T.: 0.000 min
Response: 3125338
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

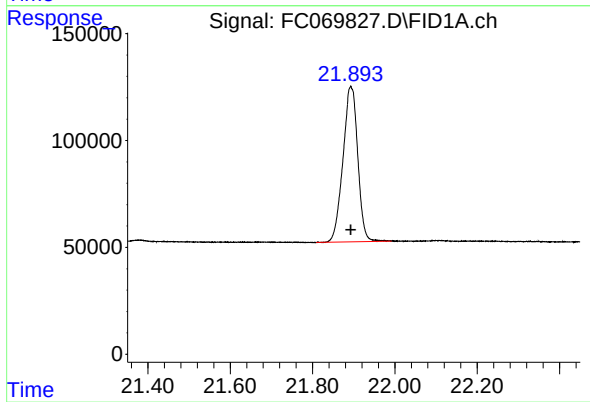
R.T.: 20.171 min
Delta R.T.: 0.000 min
Response: 2488192
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.931 min
Delta R.T.: 0.000 min
Response: 2066589
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.893 min
Delta R.T.: 0.000 min
Response: 1810790
Conc: 20.00 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069827.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 12:02
 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 092325.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.401	3.349	3.459	BB	323368	2691320	66.03%	3.652%
2	4.472	4.414	4.532	BB	307981	2813927	69.04%	3.818%
3	6.066	6.012	6.157	BB	333281	3132652	76.86%	4.251%
4	6.495	6.439	6.537	BB	304189	2974748	72.99%	4.036%
5	7.124	7.077	7.225	BB	312463	3116315	76.46%	4.229%
6	8.292	8.227	8.370	BB	295532	3166933	77.70%	4.297%
7	9.895	9.839	9.984	BB	322443	3540428	86.87%	4.804%
8	11.339	11.279	11.402	BB	335701	3856654	94.63%	5.233%
9	11.661	11.604	11.727	BB	364997	3997190	98.07%	5.424%
10	12.649	12.589	12.704	BB	345435	3923913	96.28%	5.324%
11	13.095	13.025	13.149	BB	294191	3447033	84.58%	4.677%
12	13.262	13.204	13.317	BB	327597	3945724	96.81%	5.354%
13	13.849	13.789	13.910	BB	327535	3991937	97.94%	5.417%
14	14.953	14.887	15.007	BB	317817	4075708	100.00%	5.530%
15	15.975	15.909	16.044	BB	308627	4049330	99.35%	5.495%
16	16.925	16.847	17.009	BB	282583	3954788	97.03%	5.366%
17	17.814	17.749	17.909	BB	279045	3912238	95.99%	5.309%
18	18.647	18.610	18.784	BB	243782	3615771	88.72%	4.906%
19	19.430	19.354	19.587	BB	195856	3125338	76.68%	4.241%
20	20.171	20.120	20.279	BB	155921	2488192	61.05%	3.376%
21	20.931	20.880	21.014	BB	109494	2066589	50.71%	2.804%
22	21.893	21.809	21.992	BB	72741	1810790	44.43%	2.457%
Sum of corrected areas:							73697515	

Aliphatic EPH 092325.M Tue Sep 23 15:03:39 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069828.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 12:47
 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: Sep 23 13:19:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 13:19:13 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.659	1827092	9.996 ug/ml
Spiked Amount 50.000		Recovery =	19.99%
12) S 1-chlorooctadecane (S...	13.094	1510608	9.915 ug/ml
Spiked Amount 50.000		Recovery =	19.83%
Target Compounds			
1) T n-Nonane (C9)	3.400	1287588	10.243 ug/ml
2) T n-Decane (C10)	4.472	1326423	10.173 ug/ml
3) T A~Naphthalene (C11.7)	6.066	1492245	10.214 ug/ml
4) T n-Dodecane (C12)	6.495	1378664	10.055 ug/ml
5) T A~2-methylnaphthalene...	7.124	1473925	10.127 ug/ml
6) T n-Tetradecane (C14)	8.291	1453833	9.993 ug/ml
7) T n-Hexadecane (C16)	9.894	1605537	9.964 ug/ml
8) T n-Octadecane (C18)	11.337	1715153	9.937 ug/ml
10) T n-Eicosane (C20)	12.648	1724242	9.946 ug/ml
11) T n-Heneicosane (C21)	13.261	1721908	9.934 ug/ml
13) T n-Docosane (C22)	13.847	1730466	9.920 ug/ml
14) T n-Tetracosane (C24)	14.951	1747122	9.908 ug/ml
15) T n-Hexacosane (C26)	15.973	1725760	9.922 ug/ml
16) T n-Octacosane (C28)	16.923	1682895	9.966 ug/ml
17) T n-Tricontane (C30)	17.812	1680498	10.076 ug/ml
18) T n-Dotriacontane (C32)	18.646	1566941	10.160 ug/ml
19) T n-Tetratriacontane (C34)	19.429	1350605	10.080 ug/ml
20) T n-Hexatriacontane (C36)	20.169	1124746	10.333 ug/ml
21) T n-Octatriacontane (C38)	20.929	982164	10.553 ug/ml
22) T n-Tetracontane (C40)	21.889	904610	10.835 ug/ml

(f)=RT Delta > 1/2 Window

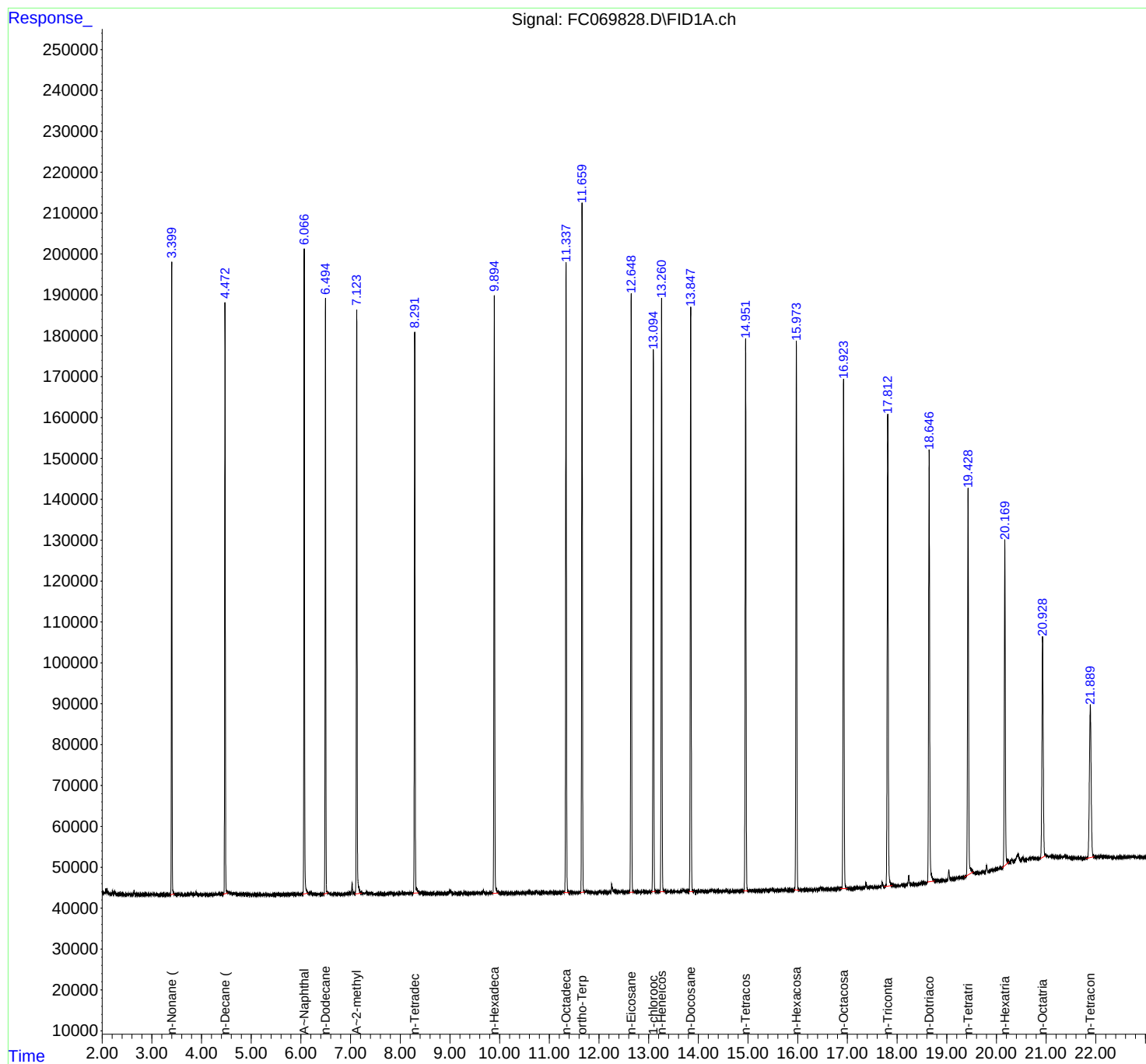
(m)=manual int.

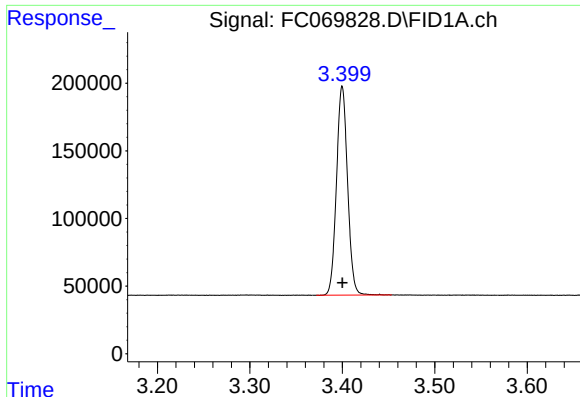
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069828.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:47
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 23 13:19:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 13:19:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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

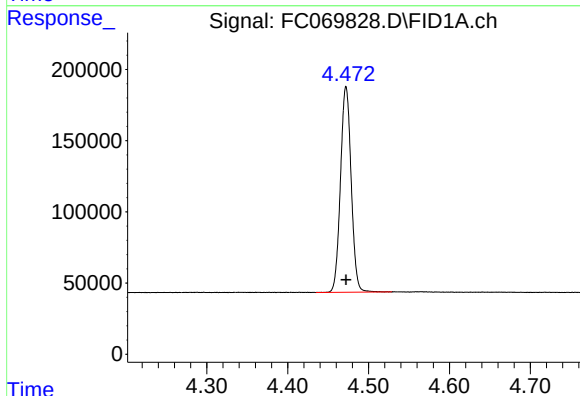




#1 n-Nonane (C9)

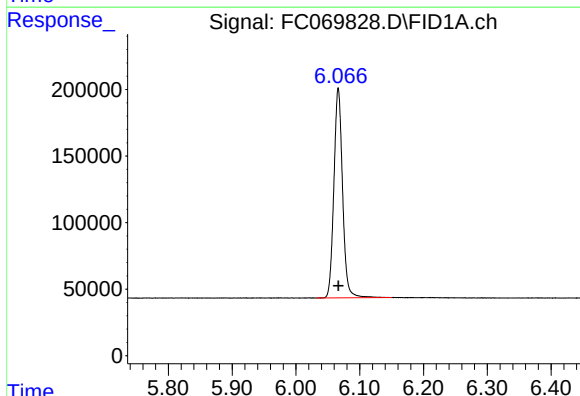
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 1287588
Conc: 10.24 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



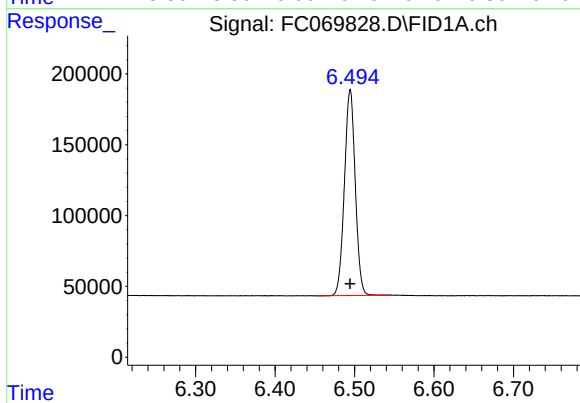
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 1326423
Conc: 10.17 ug/ml



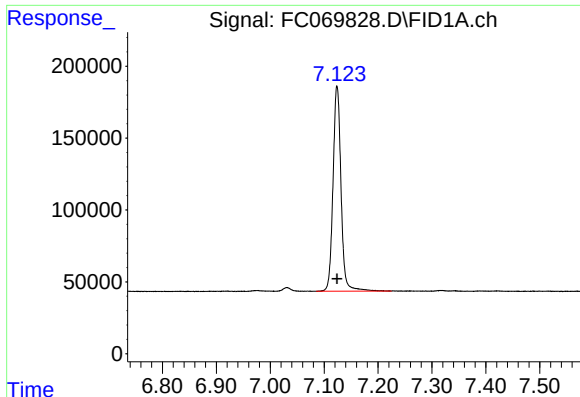
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 1492245
Conc: 10.21 ug/ml



#4 n-Dodecane (C12)

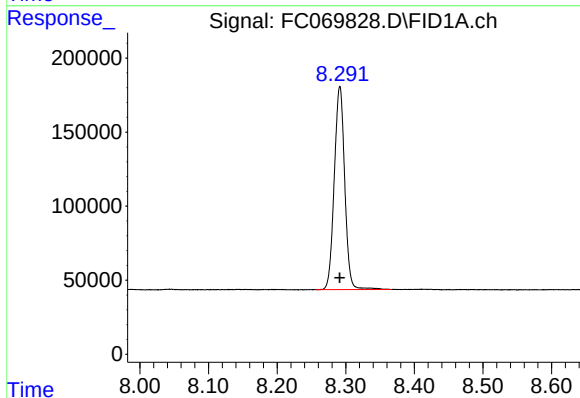
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 1378664
Conc: 10.05 ug/ml



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

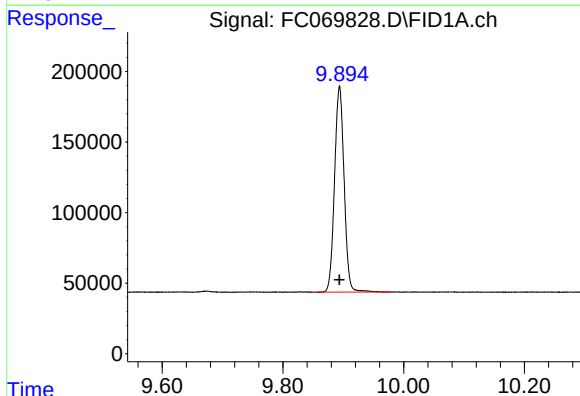
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 1473925
Conc: 10.13 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



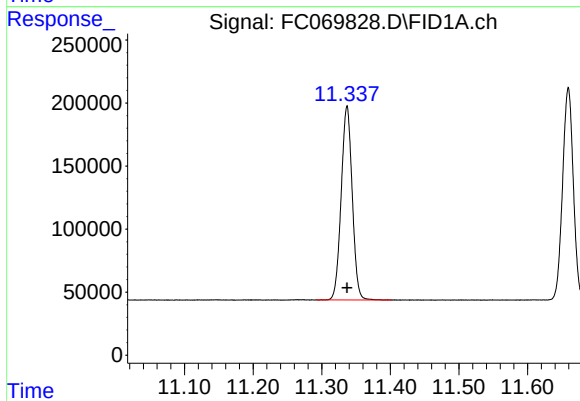
#6 n-Tetradecane (C14)

R.T.: 8.291 min
Delta R.T.: 0.000 min
Response: 1453833
Conc: 9.99 ug/ml



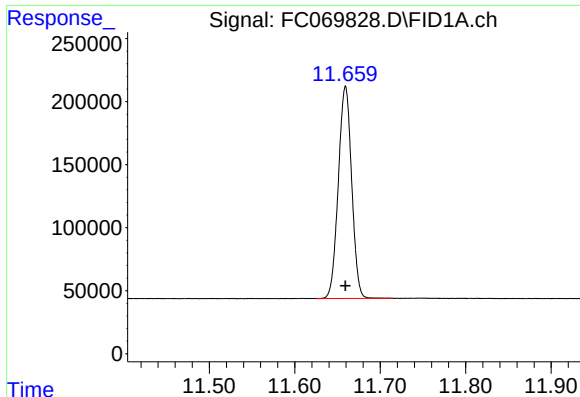
#7 n-Hexadecane (C16)

R.T.: 9.894 min
Delta R.T.: 0.000 min
Response: 1605537
Conc: 9.96 ug/ml



#8 n-Octadecane (C18)

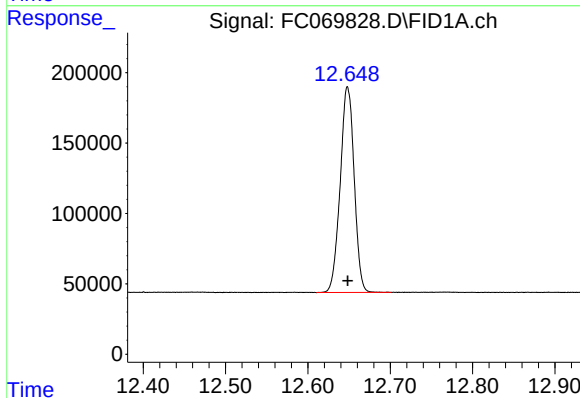
R.T.: 11.337 min
Delta R.T.: 0.000 min
Response: 1715153
Conc: 9.94 ug/ml



#9 ortho-Terphenyl (SURR)

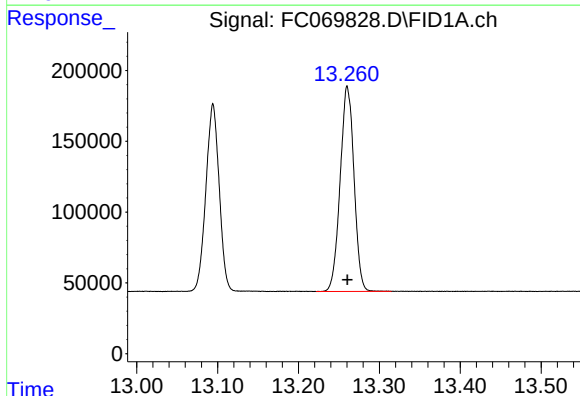
R.T.: 11.659 min
Delta R.T.: 0.000 min
Response: 1827092
Conc: 10.00 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



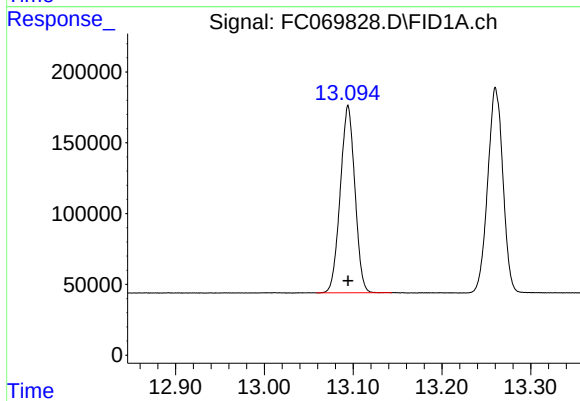
#10 n-Eicosane (C20)

R.T.: 12.648 min
Delta R.T.: 0.000 min
Response: 1724242
Conc: 9.95 ug/ml



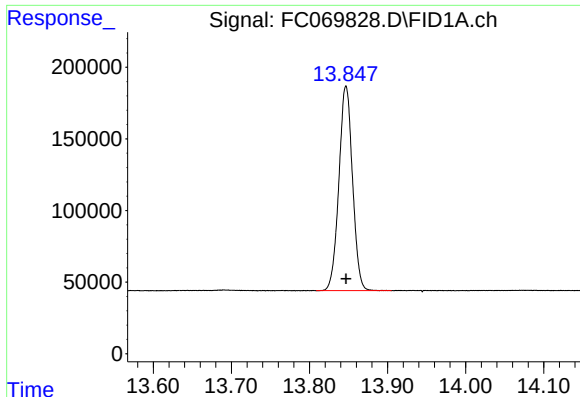
#11 n-Heneicosane (C21)

R.T.: 13.261 min
Delta R.T.: 0.000 min
Response: 1721908
Conc: 9.93 ug/ml



#12 1-chlorooctadecane (SURR)

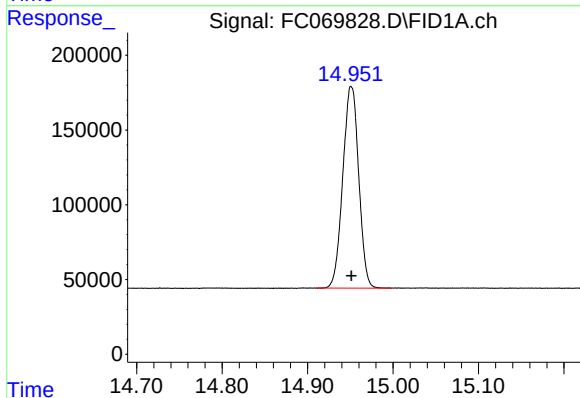
R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 1510608
Conc: 9.92 ug/ml



#13 n-Docosane (C22)

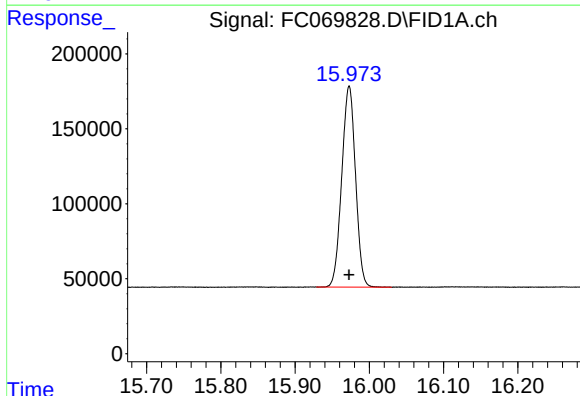
R.T.: 13.847 min
Delta R.T.: 0.000 min
Response: 1730466
Conc: 9.92 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



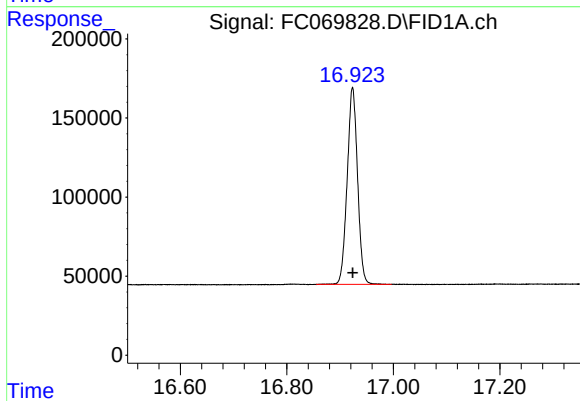
#14 n-Tetracosane (C24)

R.T.: 14.951 min
Delta R.T.: 0.000 min
Response: 1747122
Conc: 9.91 ug/ml



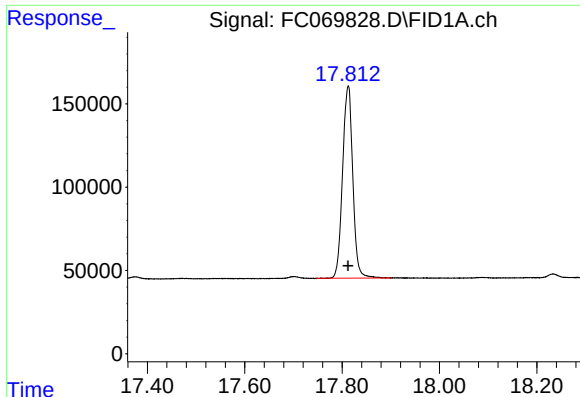
#15 n-Hexacosane (C26)

R.T.: 15.973 min
Delta R.T.: 0.000 min
Response: 1725760
Conc: 9.92 ug/ml



#16 n-Octacosane (C28)

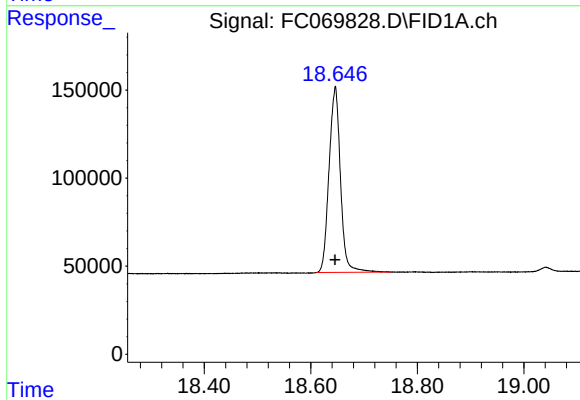
R.T.: 16.923 min
Delta R.T.: 0.000 min
Response: 1682895
Conc: 9.97 ug/ml



#17 n-Tricontane (C30)

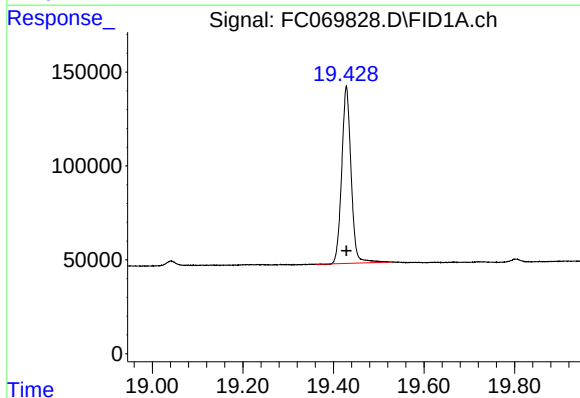
R.T.: 17.812 min
Delta R.T.: 0.000 min
Response: 1680498
Conc: 10.08 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



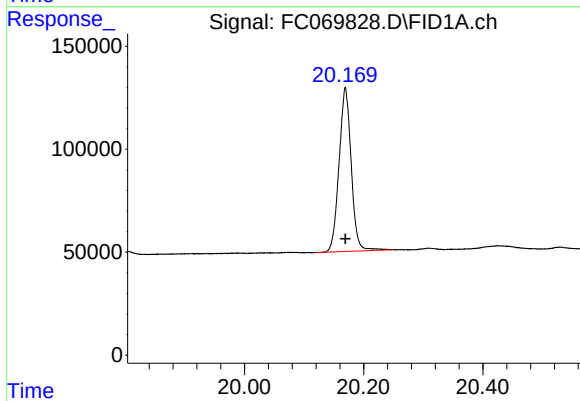
#18 n-Dotriacontane (C32)

R.T.: 18.646 min
Delta R.T.: 0.000 min
Response: 1566941
Conc: 10.16 ug/ml



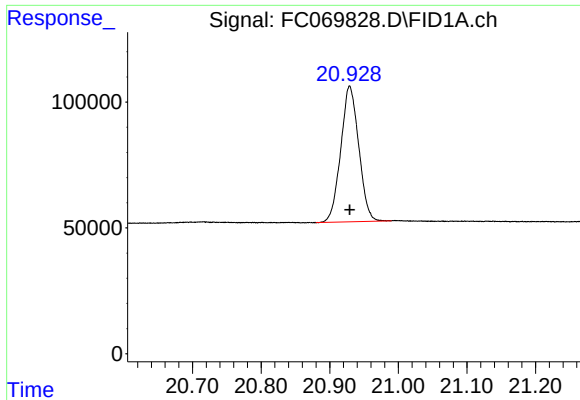
#19 n-Tetratriacontane (C34)

R.T.: 19.429 min
Delta R.T.: 0.000 min
Response: 1350605
Conc: 10.08 ug/ml



#20 n-Hexatriacontane (C36)

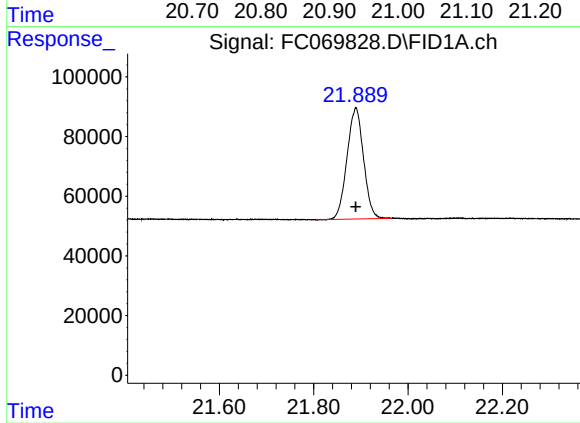
R.T.: 20.169 min
Delta R.T.: 0.000 min
Response: 1124746
Conc: 10.33 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.929 min
Delta R.T.: 0.000 min
Response: 982164
Conc: 10.55 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.889 min
Delta R.T.: 0.000 min
Response: 904610
Conc: 10.83 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069828.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 12:47
 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 092325.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.400	3.372	3.453	BB	154553	1287588	70.47%	3.900%
2	4.472	4.435	4.528	BB	144409	1326423	72.60%	4.018%
3	6.066	6.032	6.150	BB	157369	1492245	81.67%	4.520%
4	6.495	6.452	6.547	BB	146009	1378664	75.46%	4.176%
5	7.124	7.085	7.225	BB	143041	1473925	80.67%	4.465%
6	8.291	8.257	8.367	BB	137646	1453833	79.57%	4.404%
7	9.894	9.855	9.980	BB	146021	1605537	87.87%	4.863%
8	11.337	11.292	11.402	BB	154003	1715153	93.87%	5.195%
9	11.659	11.625	11.713	BB	168825	1827092	100.00%	5.534%
10	12.648	12.610	12.702	BB	145826	1724242	94.37%	5.223%
11	13.094	13.058	13.143	BB	132328	1510608	82.68%	4.576%
12	13.261	13.222	13.315	BB	144607	1721908	94.24%	5.216%
13	13.847	13.808	13.905	BB	142806	1730466	94.71%	5.242%
14	14.951	14.910	14.998	BB	134538	1747122	95.62%	5.292%
15	15.973	15.928	16.030	BB	134472	1725760	94.45%	5.228%
16	16.923	16.855	16.997	BB	124447	1682895	92.11%	5.098%
17	17.812	17.747	17.902	BB	115227	1680498	91.98%	5.090%
18	18.646	18.610	18.752	BB	104813	1566941	85.76%	4.746%
19	19.429	19.362	19.528	BB	94297	1350605	73.92%	4.091%
20	20.169	20.120	20.247	BB	79555	1124746	61.56%	3.407%
21	20.929	20.880	20.990	BB	53970	982164	53.76%	2.975%
22	21.889	21.805	21.965	BB	37448	904610	49.51%	2.740%
Sum of corrected areas:							33013024	

Aliphatic EPH 092325.M Tue Sep 23 15:03:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069829.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 13:33
 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: Sep 23 14:55:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:55:28 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)	11.658	1026900	5.483 ug/ml
Spiked Amount 50.000		Recovery =	10.97%
12) S 1-chlorooctadecane (S...	13.094	900913	5.705 ug/ml
Spiked Amount 50.000		Recovery =	11.41%
Target Compounds			
1) T n-Nonane (C9)	3.400	690670	5.388 ug/ml
2) T n-Decane (C10)	4.472	714177	5.375 ug/ml
3) T A~Naphthalene (C11.7)	6.067	789322	5.317 ug/ml
4) T n-Dodecane (C12)	6.494	745101	5.341 ug/ml
5) T A~2-methylnaphthalene...	7.124	780078	5.284 ug/ml
6) T n-Tetradecane (C14)	8.291	798401	5.383 ug/ml
7) T n-Hexadecane (C16)	9.894	902897	5.471 ug/ml
8) T n-Octadecane (C18)	11.336	1003305	5.630 ug/ml
10) T n-Eicosane (C20)	12.647	1035429	5.749 ug/ml
11) T n-Heneicosane (C21)	13.259	1041203	5.774 ug/ml
13) T n-Docosane (C22)	13.846	1053142	5.797 ug/ml
14) T n-Tetracosane (C24)	14.950	1073474	5.834 ug/ml
15) T n-Hexacosane (C26)	15.972	1060487	5.841 ug/ml
16) T n-Octacosane (C28)	16.923	1036040	5.869 ug/ml
17) T n-Tricontane (C30)	17.811	1040062	5.942 ug/ml
18) T n-Dotriacontane (C32)	18.644	960150	5.935 ug/ml
19) T n-Tetratriacontane (C34)	19.428	814137	5.826 ug/ml
20) T n-Hexatriacontane (C36)	20.168	645568	5.718 ug/ml
21) T n-Octatriacontane (C38)	20.930	550260	5.704 ug/ml
22) T n-Tetracontane (C40)	21.888	483358	5.612 ug/ml

(f)=RT Delta > 1/2 Window

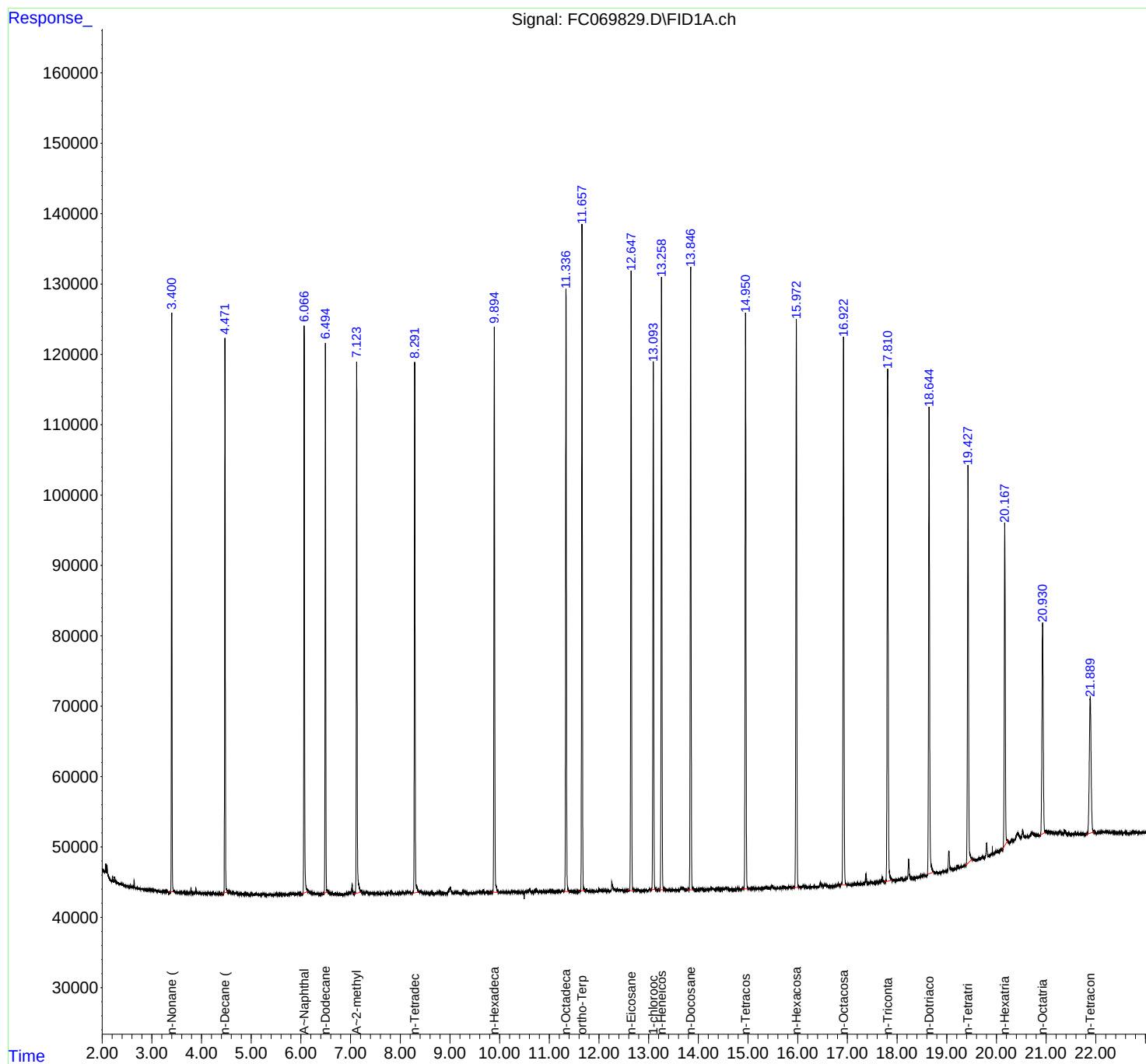
(m)=manual int.

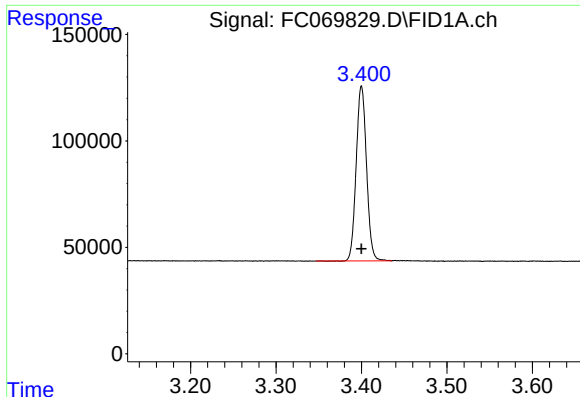
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069829.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 13:33
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 23 14:55:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:55:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

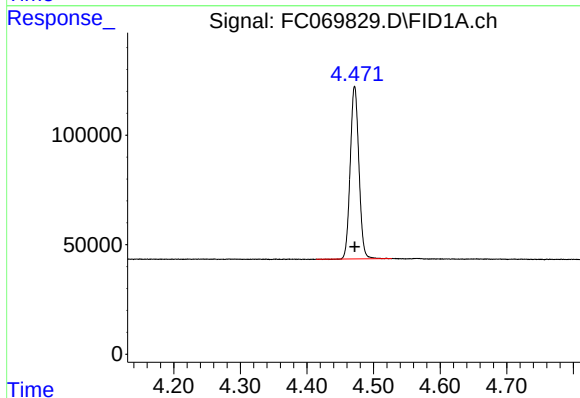




#1 n-Nonane (C9)

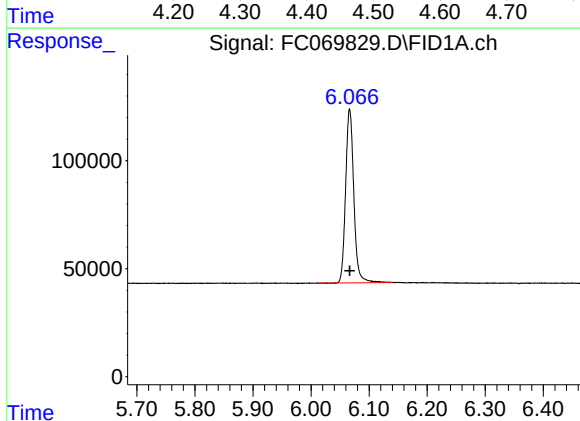
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 690670
Conc: 5.39 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



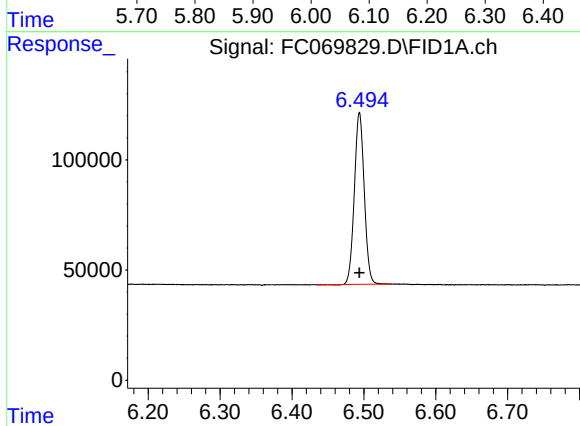
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 714177
Conc: 5.37 ug/ml



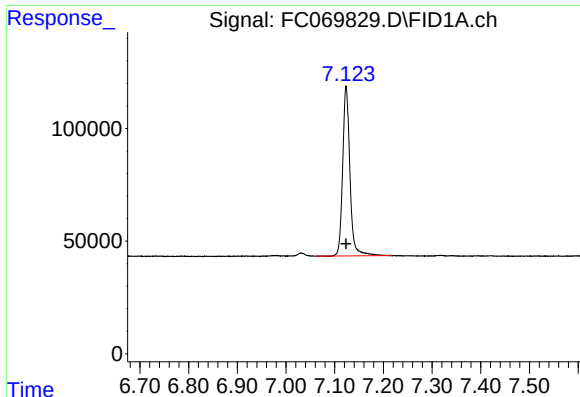
#3 A~Naphthalene (C11.7)

R.T.: 6.067 min
Delta R.T.: 0.000 min
Response: 789322
Conc: 5.32 ug/ml



#4 n-Dodecane (C12)

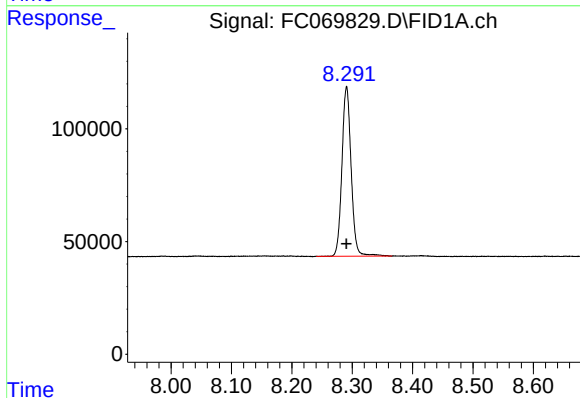
R.T.: 6.494 min
Delta R.T.: 0.000 min
Response: 745101
Conc: 5.34 ug/ml



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

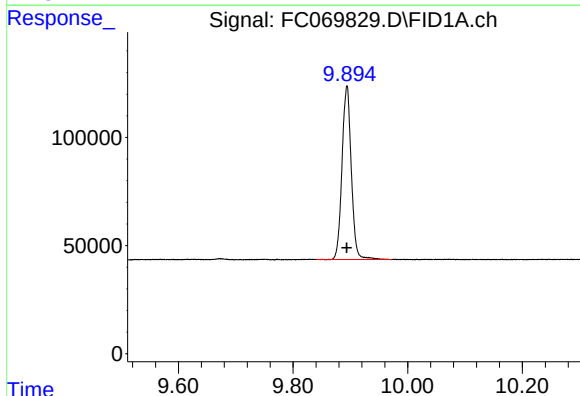
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 780078
Conc: 5.28 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



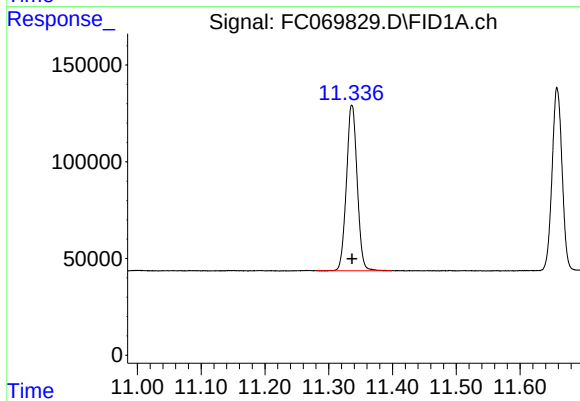
#6 n-Tetradecane (C14)

R.T.: 8.291 min
Delta R.T.: 0.000 min
Response: 798401
Conc: 5.38 ug/ml



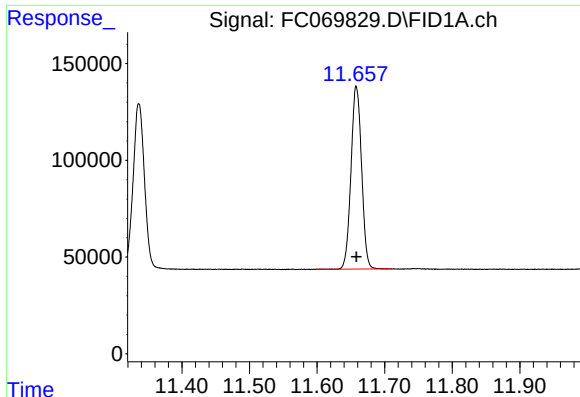
#7 n-Hexadecane (C16)

R.T.: 9.894 min
Delta R.T.: 0.000 min
Response: 902897
Conc: 5.47 ug/ml



#8 n-Octadecane (C18)

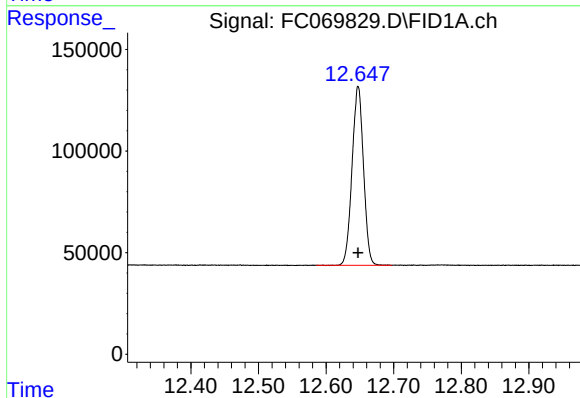
R.T.: 11.336 min
Delta R.T.: 0.000 min
Response: 1003305
Conc: 5.63 ug/ml



#9 ortho-Terphenyl (SURR)

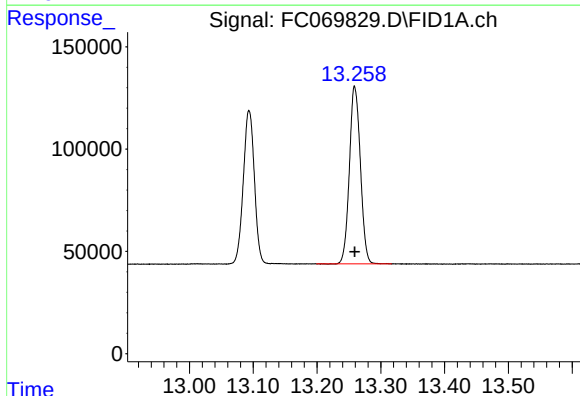
R.T.: 11.658 min
Delta R.T.: 0.000 min
Response: 1026900
Conc: 5.48 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



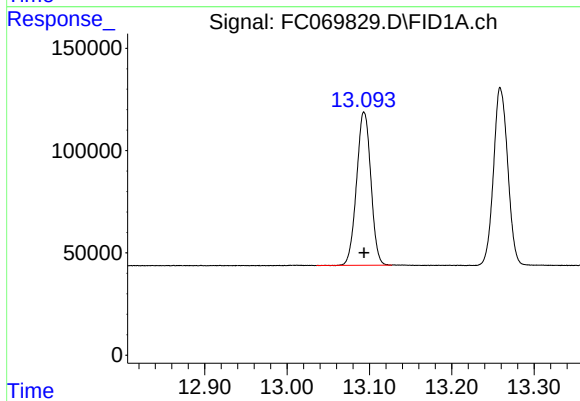
#10 n-Eicosane (C20)

R.T.: 12.647 min
Delta R.T.: 0.000 min
Response: 1035429
Conc: 5.75 ug/ml



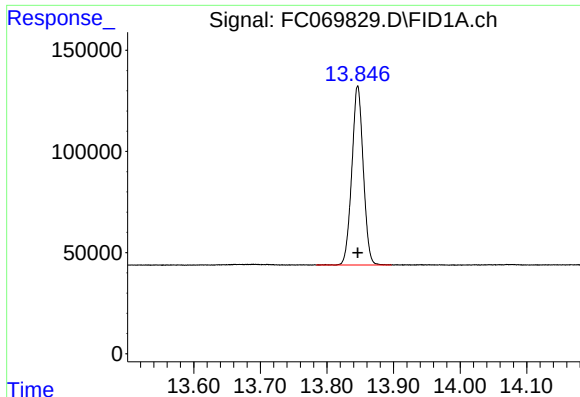
#11 n-Heneicosane (C21)

R.T.: 13.259 min
Delta R.T.: 0.000 min
Response: 1041203
Conc: 5.77 ug/ml



#12 1-chlorooctadecane (SURR)

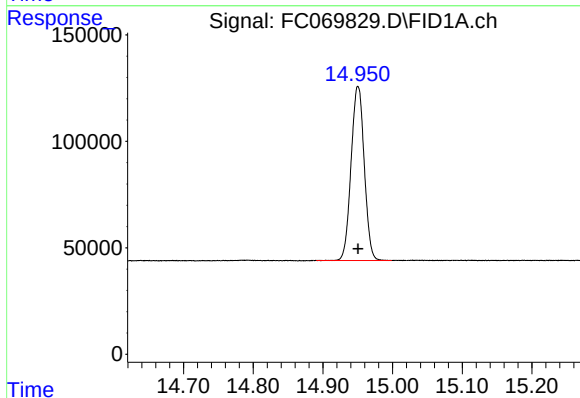
R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 900913
Conc: 5.70 ug/ml



#13 n-Docosane (C22)

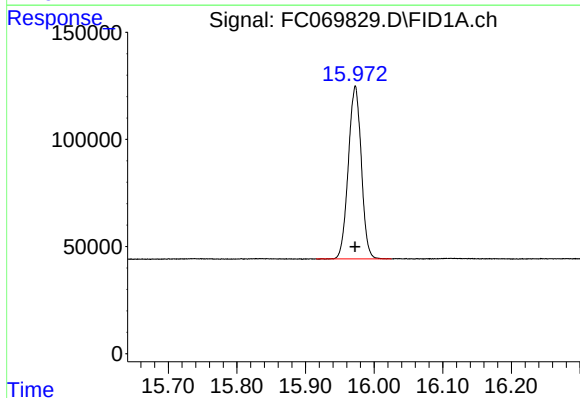
R.T.: 13.846 min
Delta R.T.: 0.000 min
Response: 1053142
Conc: 5.80 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



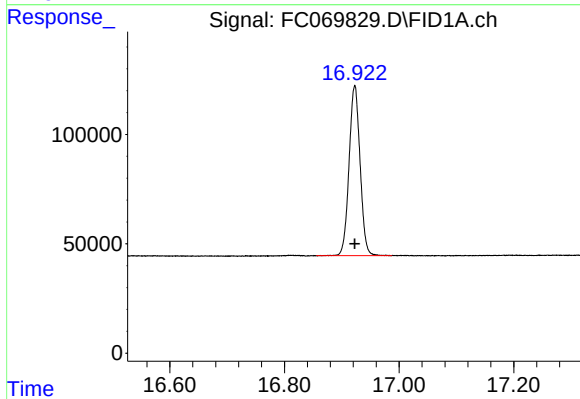
#14 n-Tetracosane (C24)

R.T.: 14.950 min
Delta R.T.: 0.000 min
Response: 1073474
Conc: 5.83 ug/ml



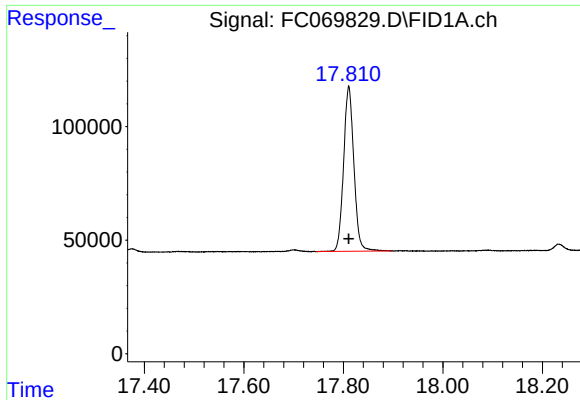
#15 n-Hexacosane (C26)

R.T.: 15.972 min
Delta R.T.: 0.000 min
Response: 1060487
Conc: 5.84 ug/ml



#16 n-Octacosane (C28)

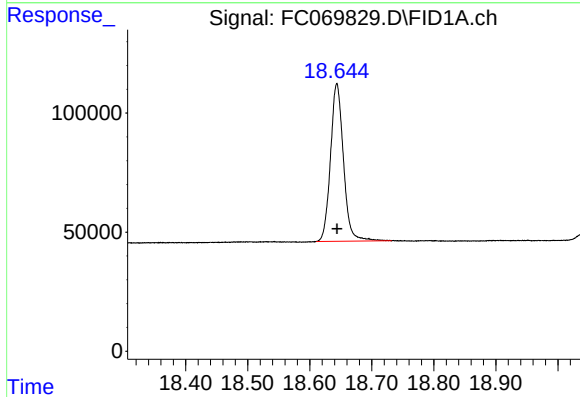
R.T.: 16.923 min
Delta R.T.: 0.000 min
Response: 1036040
Conc: 5.87 ug/ml



#17 n-Tricontane (C30)

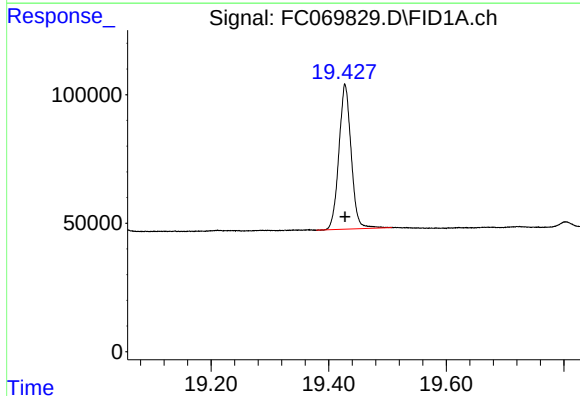
R.T.: 17.811 min
Delta R.T.: 0.000 min
Response: 1040062
Conc: 5.94 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



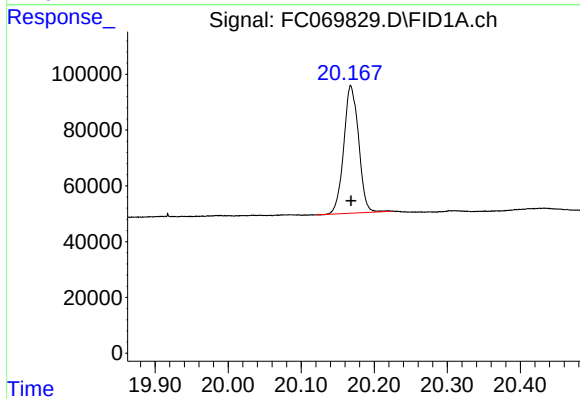
#18 n-Dotriacontane (C32)

R.T.: 18.644 min
Delta R.T.: 0.000 min
Response: 960150
Conc: 5.93 ug/ml



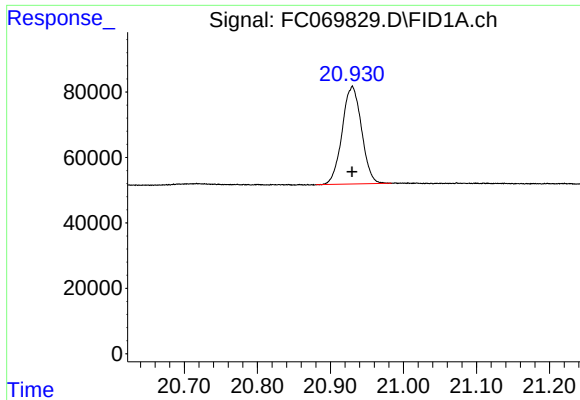
#19 n-Tetratriacontane (C34)

R.T.: 19.428 min
Delta R.T.: 0.000 min
Response: 814137
Conc: 5.83 ug/ml



#20 n-Hexatriacontane (C36)

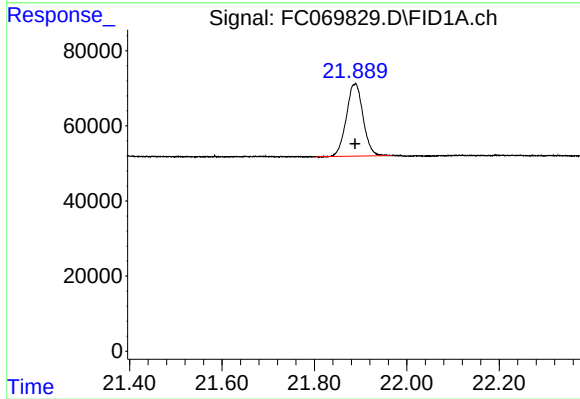
R.T.: 20.168 min
Delta R.T.: 0.000 min
Response: 645568
Conc: 5.72 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.930 min
Delta R.T.: 0.000 min
Response: 550260
Conc: 5.70 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.888 min
Delta R.T.: 0.000 min
Response: 483358
Conc: 5.61 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069829.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 13:33
 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 092325.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.400	3.347	3.435	BB	82103	690670	64.34%	3.608%
2	4.472	4.414	4.527	BB	78789	714177	66.53%	3.730%
3	6.067	6.009	6.139	BB	80115	789322	73.53%	4.123%
4	6.494	6.434	6.539	BB	78051	745101	69.41%	3.892%
5	7.124	7.062	7.217	BB	75306	780078	72.67%	4.075%
6	8.291	8.240	8.365	BB	75214	798401	74.38%	4.170%
7	9.894	9.840	9.972	BB	80462	902897	84.11%	4.716%
8	11.336	11.280	11.399	BB	85606	1003305	93.46%	5.241%
9	11.658	11.599	11.710	BB	93859	1026900	95.66%	5.364%
10	12.647	12.585	12.697	BB	88391	1035429	96.46%	5.408%
11	13.094	13.035	13.127	BB	74816	900913	83.92%	4.706%
12	13.259	13.199	13.317	BB	86706	1041203	96.99%	5.438%
13	13.846	13.784	13.897	BB	88668	1053142	98.11%	5.501%
14	14.950	14.890	14.999	BB	81777	1073474	100.00%	5.607%
15	15.972	15.915	16.025	BB	80750	1060487	98.79%	5.539%
16	16.923	16.855	16.987	BB	77593	1036040	96.51%	5.412%
17	17.811	17.745	17.897	BB	72669	1040062	96.89%	5.433%
18	18.644	18.610	18.732	BB	66291	960150	89.44%	5.015%
19	19.428	19.379	19.507	BB	55983	814137	75.84%	4.252%
20	20.168	20.120	20.224	BB	45474	645568	60.14%	3.372%
21	20.930	20.880	20.984	BB	30013	550260	51.26%	2.874%
22	21.888	21.804	21.967	BB	19339	483358	45.03%	2.525%
Sum of corrected areas:							19145073	

Aliphatic EPH 092325.M Tue Sep 23 15:02:48 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069830.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 14:19
 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: Sep 23 14:57:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.662	3944296	21.059 ug/ml
Spiked Amount 50.000		Recovery =	42.12%
12) S 1-chlorooctadecane (S...	13.096	3385642	21.439 ug/ml
Spiked Amount 50.000		Recovery =	42.88%
Target Compounds			
1) T n-Nonane (C9)	3.400	2587945	20.188 ug/ml
2) T n-Decane (C10)	4.472	2696976	20.296 ug/ml
3) T A~Naphthalene (C11.7)	6.066	3010987	20.283 ug/ml
4) T n-Dodecane (C12)	6.495	2862396	20.519 ug/ml
5) T A~2-methylnaphthalene...	7.124	3005230	20.355 ug/ml
6) T n-Tetradecane (C14)	8.292	3075270	20.734 ug/ml
7) T n-Hexadecane (C16)	9.895	3478786	21.080 ug/ml
8) T n-Octadecane (C18)	11.339	3824558	21.460 ug/ml
10) T n-Eicosane (C20)	12.650	3869114	21.482 ug/ml
11) T n-Heneicosane (C21)	13.262	3873195	21.480 ug/ml
13) T n-Docosane (C22)	13.849	3899823	21.466 ug/ml
14) T n-Tetracosane (C24)	14.952	3930964	21.364 ug/ml
15) T n-Hexacosane (C26)	15.975	3861498	21.268 ug/ml
16) T n-Octacosane (C28)	16.926	3741360	21.194 ug/ml
17) T n-Tricontane (C30)	17.814	3698274	21.129 ug/ml
18) T n-Dotriacontane (C32)	18.647	3416454	21.117 ug/ml
19) T n-Tetratriacontane (C34)	19.431	2923117	20.916 ug/ml
20) T n-Hexatriacontane (C36)	20.170	2353381	20.845 ug/ml
21) T n-Octatriacontane (C38)	20.932	1955011	20.266 ug/ml
22) T n-Tetracontane (C40)	21.891	1713231	19.892 ug/ml

(f)=RT Delta > 1/2 Window

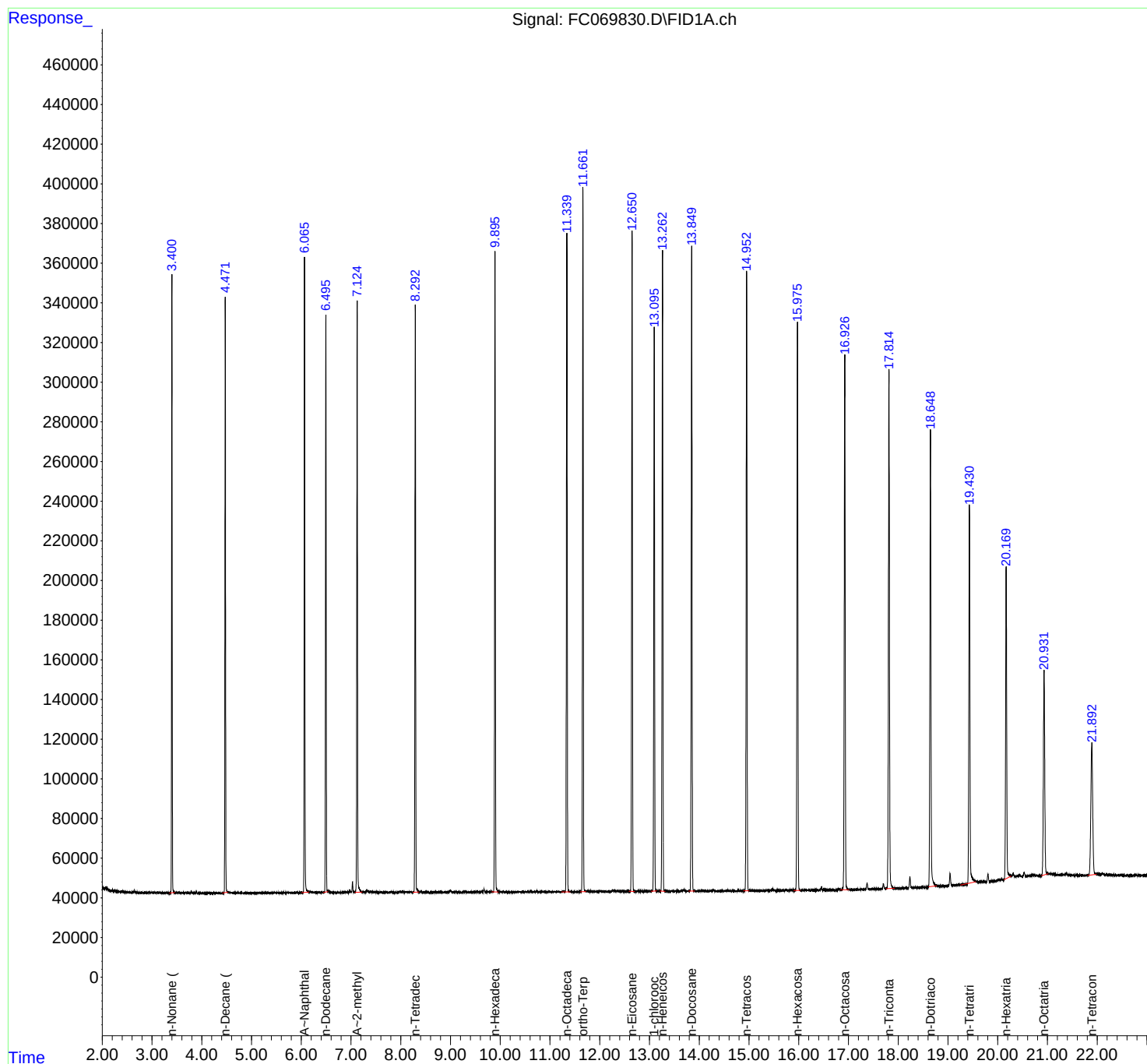
(m)=manual int.

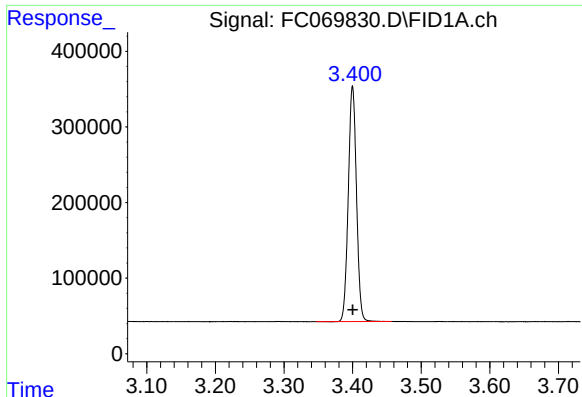
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069830.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 14:19
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 23 14:57:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 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)

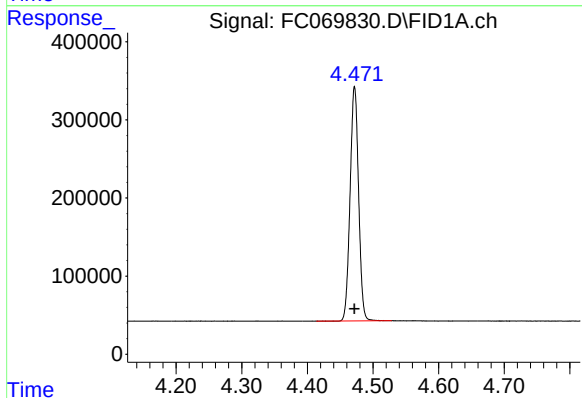
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 2587945
Conc: 20.19 ug/ml

Instrument :

FID_C

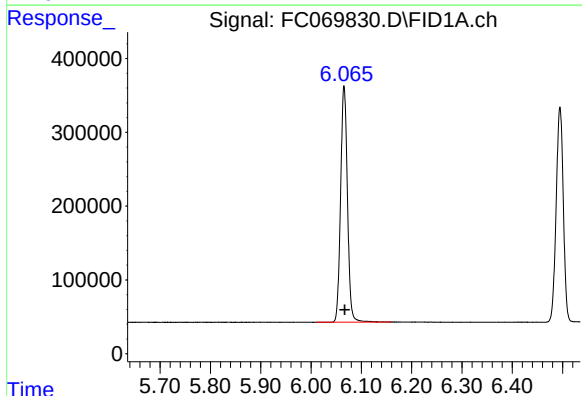
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



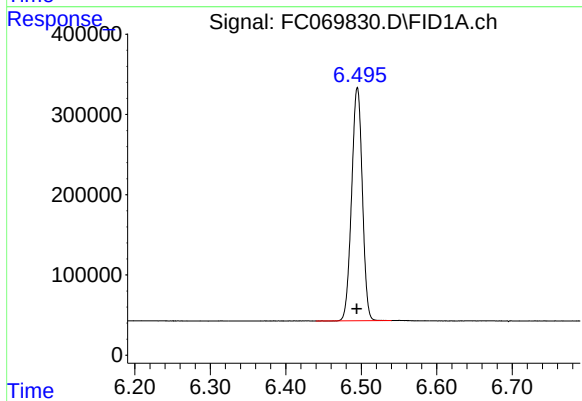
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 2696976
Conc: 20.30 ug/ml



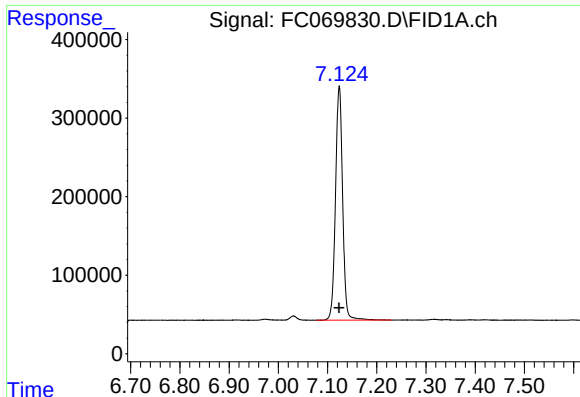
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 3010987
Conc: 20.28 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 2862396
Conc: 20.52 ug/ml



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

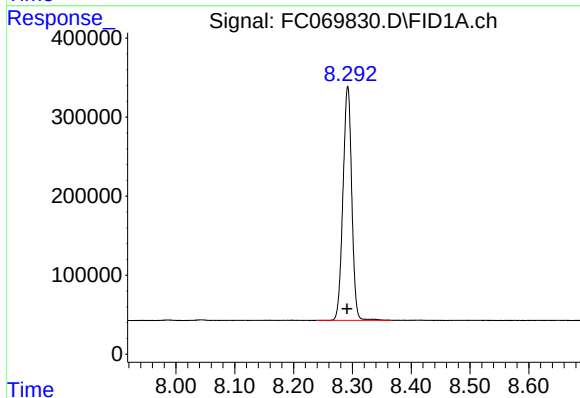
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 3005230
Conc: 20.35 ug/ml

Instrument :

FID_C

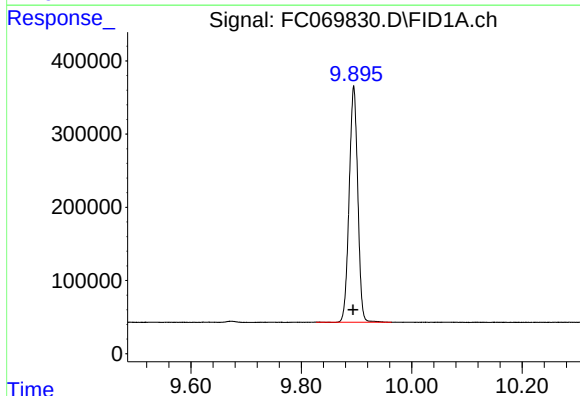
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



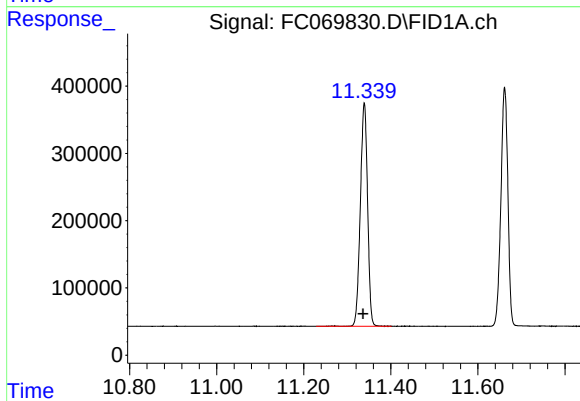
#6 n-Tetradecane (C14)

R.T.: 8.292 min
Delta R.T.: 0.001 min
Response: 3075270
Conc: 20.73 ug/ml



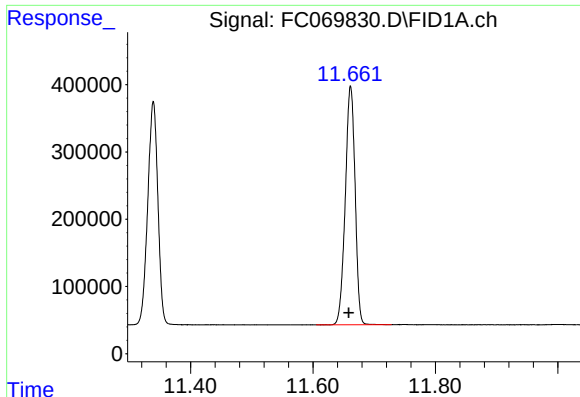
#7 n-Hexadecane (C16)

R.T.: 9.895 min
Delta R.T.: 0.001 min
Response: 3478786
Conc: 21.08 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.339 min
Delta R.T.: 0.003 min
Response: 3824558
Conc: 21.46 ug/ml



#9 ortho-Terphenyl (SURR)

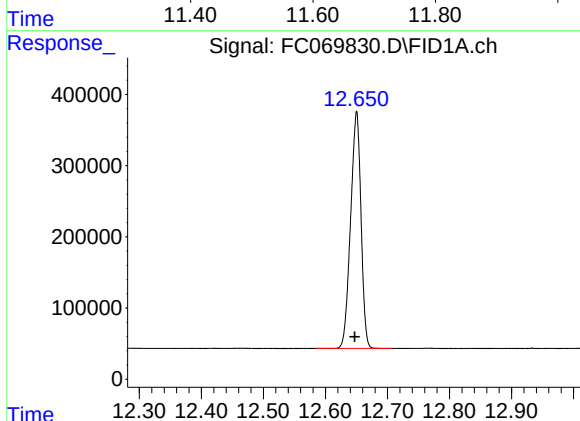
R.T.: 11.662 min
Delta R.T.: 0.003 min
Response: 3944296
Conc: 21.06 ug/ml

Instrument :

FID_C

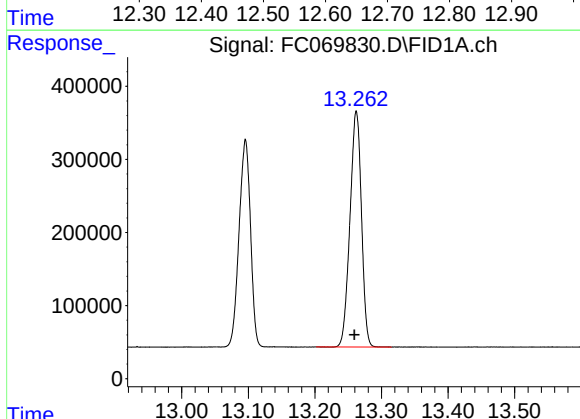
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



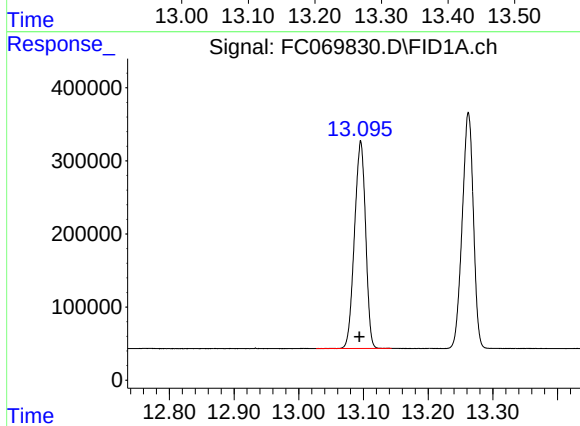
#10 n-Eicosane (C20)

R.T.: 12.650 min
Delta R.T.: 0.003 min
Response: 3869114
Conc: 21.48 ug/ml



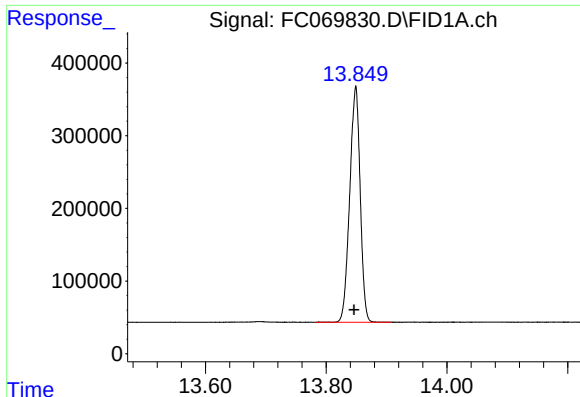
#11 n-Heneicosane (C21)

R.T.: 13.262 min
Delta R.T.: 0.003 min
Response: 3873195
Conc: 21.48 ug/ml



#12 1-chlorooctadecane (SURR)

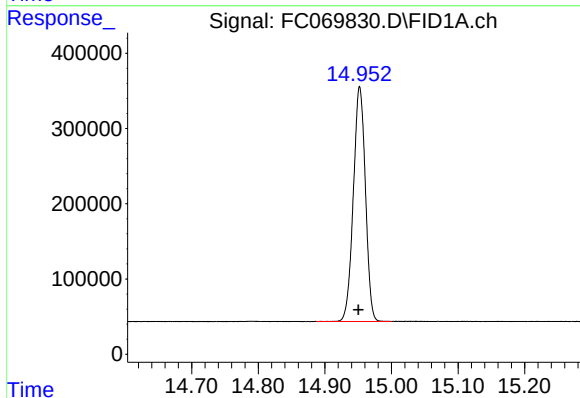
R.T.: 13.096 min
Delta R.T.: 0.002 min
Response: 3385642
Conc: 21.44 ug/ml



#13 n-Docosane (C22)

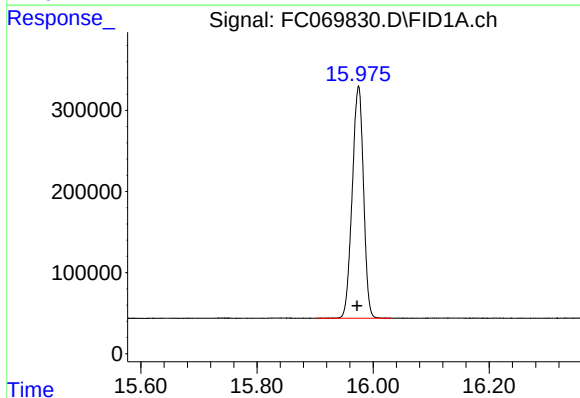
R.T.: 13.849 min
Delta R.T.: 0.002 min
Response: 3899823
Conc: 21.47 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



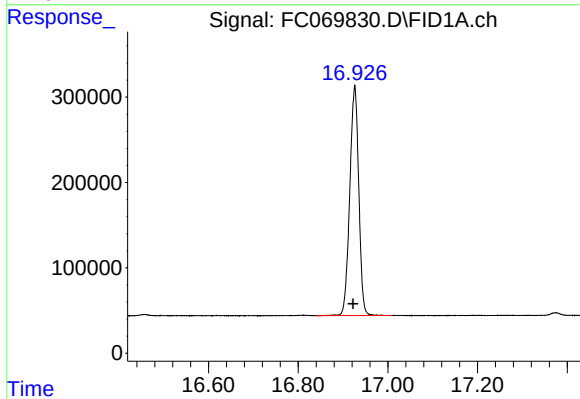
#14 n-Tetracosane (C24)

R.T.: 14.952 min
Delta R.T.: 0.002 min
Response: 3930964
Conc: 21.36 ug/ml



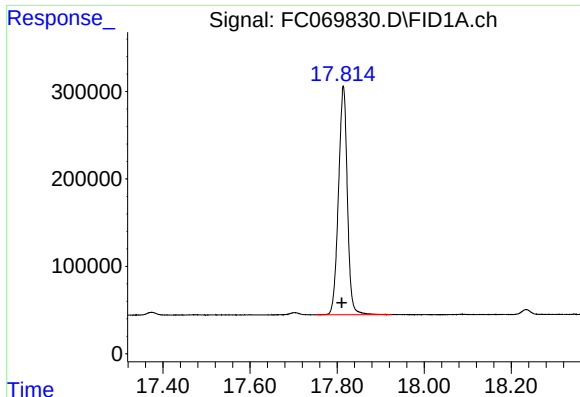
#15 n-Hexacosane (C26)

R.T.: 15.975 min
Delta R.T.: 0.002 min
Response: 3861498
Conc: 21.27 ug/ml



#16 n-Octacosane (C28)

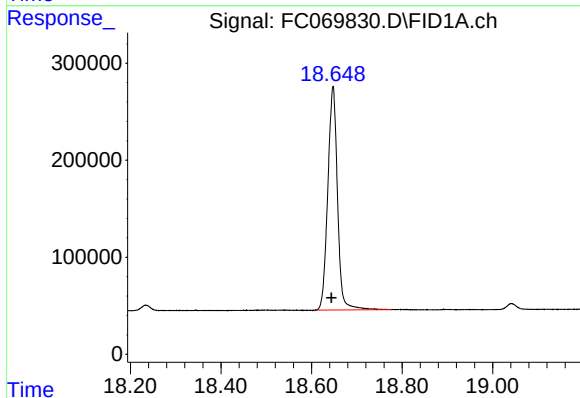
R.T.: 16.926 min
Delta R.T.: 0.003 min
Response: 3741360
Conc: 21.19 ug/ml



#17 n-Tricontane (C30)

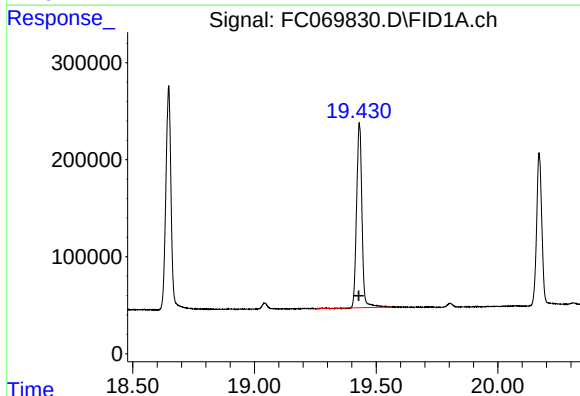
R.T.: 17.814 min
Delta R.T.: 0.003 min
Response: 3698274
Conc: 21.13 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



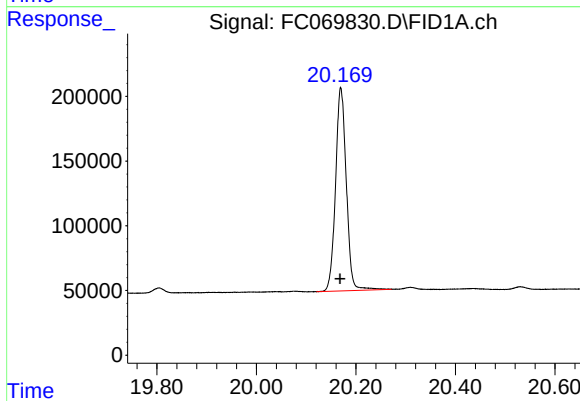
#18 n-Dotriacontane (C32)

R.T.: 18.647 min
Delta R.T.: 0.004 min
Response: 3416454
Conc: 21.12 ug/ml



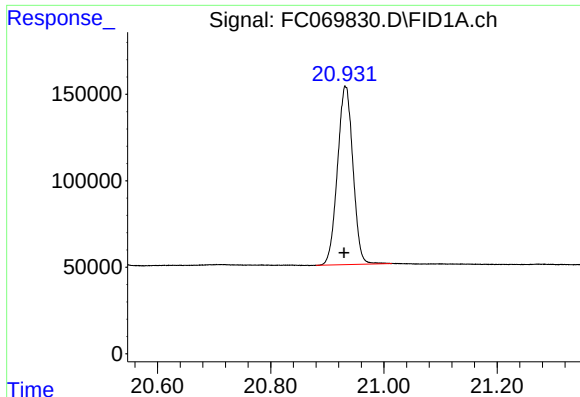
#19 n-Tetratriacontane (C34)

R.T.: 19.431 min
Delta R.T.: 0.003 min
Response: 2923117
Conc: 20.92 ug/ml



#20 n-Hexatriacontane (C36)

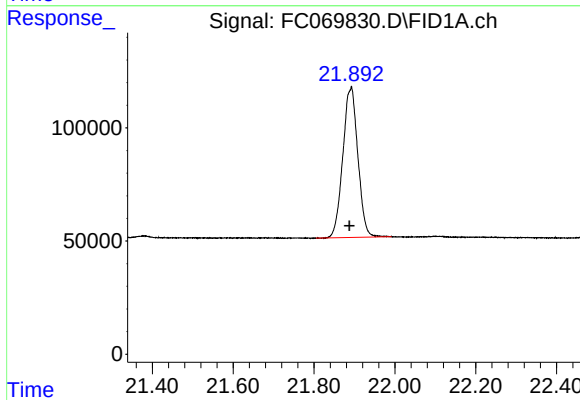
R.T.: 20.170 min
Delta R.T.: 0.001 min
Response: 2353381
Conc: 20.84 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.932 min
Delta R.T.: 0.002 min
Response: 1955011
Conc: 20.27 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.891 min
Delta R.T.: 0.003 min
Response: 1713231
Conc: 19.89 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
 Data File : FC069830.D
 Signal(s) : FID1A.ch
 Acq On : 23 Sep 2025 14:19
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.400	3.347	3.457	BB	311244	2587945	65.61%	3.639%
2	4.472	4.413	4.528	BB	300413	2696976	68.38%	3.793%
3	6.066	6.010	6.160	BB	320489	3010987	76.34%	4.234%
4	6.495	6.440	6.540	BB	291119	2862396	72.57%	4.025%
5	7.124	7.077	7.230	BB	298154	3005230	76.19%	4.226%
6	8.292	8.238	8.367	BB	296362	3075270	77.97%	4.325%
7	9.895	9.827	9.963	BB	322917	3478786	88.20%	4.892%
8	11.339	11.228	11.402	BB	332423	3824558	96.96%	5.379%
9	11.662	11.605	11.728	BB	354767	3944296	100.00%	5.547%
10	12.650	12.585	12.707	BB	333811	3869114	98.09%	5.441%
11	13.096	13.027	13.143	BB	283933	3385642	85.84%	4.761%
12	13.262	13.202	13.315	BB	322849	3873195	98.20%	5.447%
13	13.849	13.783	13.908	BB	323771	3899823	98.87%	5.484%
14	14.952	14.887	15.000	BB	312322	3930964	99.66%	5.528%
15	15.975	15.902	16.032	BB	287056	3861498	97.90%	5.431%
16	16.926	16.840	17.008	BB	271021	3741360	94.85%	5.262%
17	17.814	17.752	17.925	BB	261257	3698274	93.76%	5.201%
18	18.647	18.610	18.777	BB	230553	3416454	86.62%	4.805%
19	19.431	19.253	19.563	BB	188373	2923117	74.11%	4.111%
20	20.170	20.120	20.272	BB	156767	2353381	59.67%	3.310%
21	20.932	20.880	21.013	BB	103062	1955011	49.57%	2.749%
22	21.891	21.805	21.992	BB	66476	1713231	43.44%	2.409%
Sum of corrected areas:							71107505	

Aliphatic EPH 092325.M Tue Sep 23 15:02:31 2025

Continuing Calibration Report for SequenceID : FC100325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC069910.D

Aliphatic C12-C16	6916352.000	40.000	6.580	9.978	172908.800	156673.343	-10.363
Aliphatic C16-C21	10503224.000	60.000	9.979	13.344	175053.733	179548.834	2.504
Aliphatic C21-C28	13672158.000	80.000	13.345	17.006	170901.975	180941.740	5.549
Aliphatic C28-C40	15340506.000	120.000	17.007	21.955	127837.550	128677.038	0.652
Aliphatic EPH	55109489.000	360.000	3.286	21.955	153081.914	152688.452	-0.258
Aliphatic C9-C12	8677249.000	60.000	3.286	6.579	144620.817	133523.254	-8.311

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	02 Oct 2025 09:40
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069910.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.286	6.579	8677249.000	60.000	ug/ml
Aliphatic C12-C16	6.580	9.978	6916352.000	40.000	ug/ml
Aliphatic C16-C21	9.979	13.344	10503224.000	60.000	ug/ml
Aliphatic C21-C28	13.345	17.006	13672158.000	80.000	ug/ml
Aliphatic C28-C40	17.007	21.955	15340506.000	120.000	ug/ml
Aliphatic EPH	3.286	21.955	55109489.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069910.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 09:40
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 07:44:52 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.643	3824960	20.422 ug/ml
Spiked Amount 50.000		Recovery =	40.84%
12) S 1-chlorooctadecane (S...	13.078	2959409	18.740 ug/ml
Spiked Amount 50.000		Recovery =	37.48%
Target Compounds			
1) T n-Nonane (C9)	3.386	2541744	19.828 ug/ml
2) T n-Decane (C10)	4.457	2954114	22.232 ug/ml
3) T A~Naphthalene (C11.7)	6.049	3359963	22.634 ug/ml
4) T n-Dodecane (C12)	6.479	3181391	22.806 ug/ml
5) T A~2-methylnaphthalene...	7.107	3381852	22.906 ug/ml
6) T n-Tetradecane (C14)	8.276	3348294	22.575 ug/ml
7) T n-Hexadecane (C16)	9.878	3568058	21.621 ug/ml
8) T n-Octadecane (C18)	11.321	3650160	20.481 ug/ml
10) T n-Eicosane (C20)	12.632	3485101	19.350 ug/ml
11) T n-Heneicosane (C21)	13.244	3367963	18.678 ug/ml
13) T n-Docosane (C22)	13.830	3397972	18.704 ug/ml
14) T n-Tetracosane (C24)	14.934	3471587	18.867 ug/ml
15) T n-Hexacosane (C26)	15.956	3397464	18.712 ug/ml
16) T n-Octacosane (C28)	16.906	3405135	19.289 ug/ml
17) T n-Tricontane (C30)	17.794	3649404	20.850 ug/ml
18) T n-Dotriacontane (C32)	18.626	3532901	21.837 ug/mlm
19) T n-Tetratriacontane (C34)	19.411	2797859	20.020 ug/mlm
20) T n-Hexatriacontane (C36)	20.149	2143971	18.990 ug/mlm
21) T n-Octatriacontane (C38)	20.903	1712652	17.754 ug/mlm
22) T n-Tetracontane (C40)	21.855	1503719	17.459 ug/ml

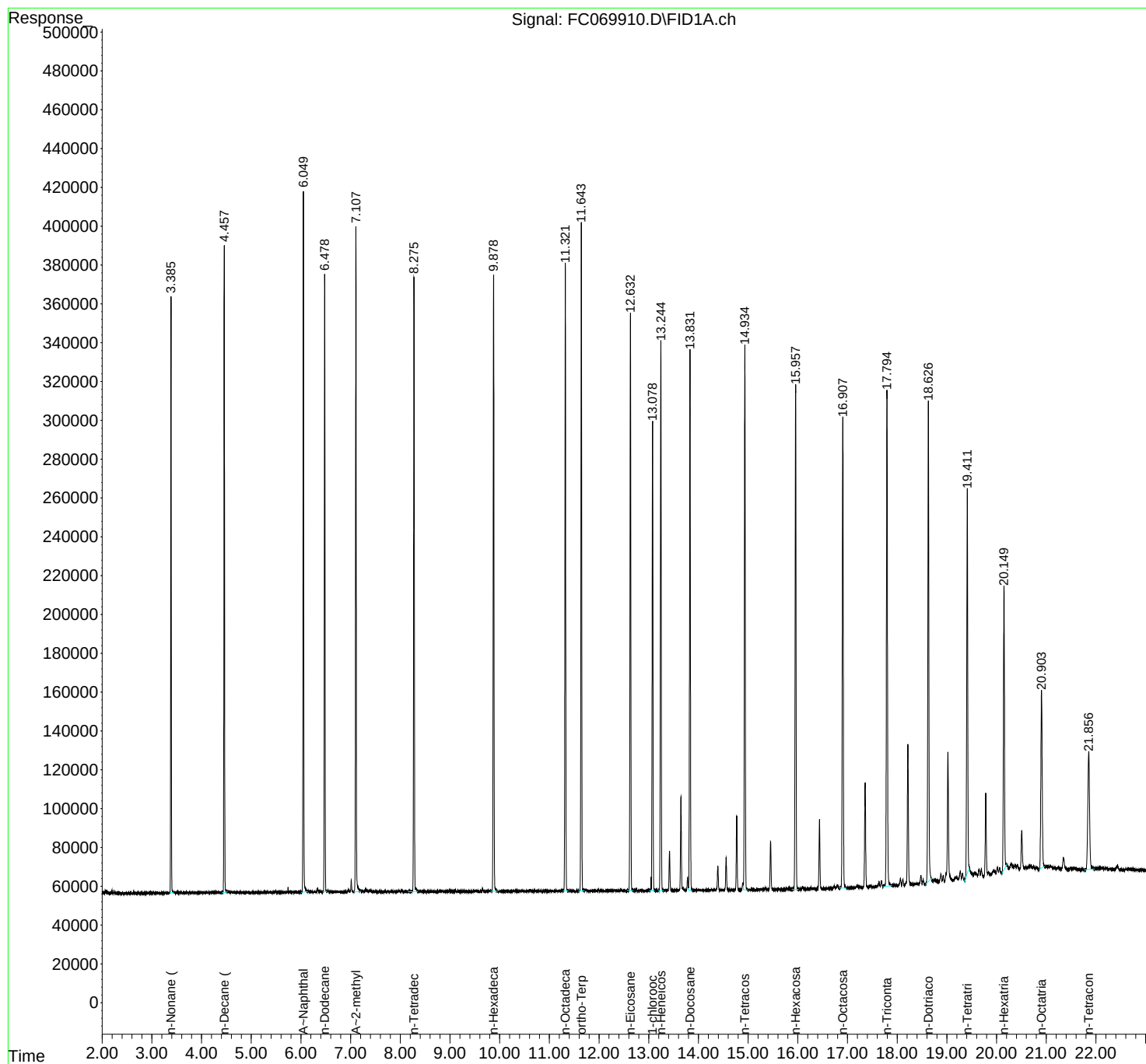
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069910.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 09:40
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 07:44:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069910.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 09:40
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.386	3.359	3.437	BB	306586	2541744	66.45%	3.689%
2	4.457	4.419	4.519	BB	333208	2954114	77.23%	4.288%
3	6.049	6.009	6.140	BB	360917	3359963	87.84%	4.877%
4	6.479	6.437	6.529	BB	318095	3181391	83.17%	4.618%
5	7.107	7.065	7.214	BB	342436	3381852	88.42%	4.909%
6	8.276	8.160	8.352	BB	315917	3348294	87.54%	4.860%
7	9.878	9.822	9.962	BB	319048	3568058	93.28%	5.179%
8	11.321	11.275	11.385	BB	322349	3650160	95.43%	5.298%
9	11.643	11.587	11.702	BB	343100	3824960	100.00%	5.552%
10	12.632	12.564	12.687	BB	297724	3485101	91.11%	5.059%
11	13.078	13.010	13.117	BB	241438	2959409	77.37%	4.296%
12	13.244	13.185	13.295	BB	281932	3367963	88.05%	4.889%
13	13.830	13.800	13.870	VB	277802	3397972	88.84%	4.932%
14	14.934	14.904	14.987	VB	280692	3471587	90.76%	5.039%
15	15.956	15.884	16.015	BB	258482	3397464	88.82%	4.932%
16	16.906	16.830	16.975	BB	243362	3405135	89.02%	4.943%
17	17.794	17.710	17.892	PB	255598	3649404	95.41%	5.297%
18	18.626	18.558	18.694	M	247701	3530450	92.30%	5.125%
19	19.411	19.369	19.527	BV	202369	3114305	81.42%	4.521%
20	20.149	20.106	20.195	M	145826	2131197	55.72%	3.094%
21	20.903	20.858	20.971	M	90967	1667403	43.59%	2.420%
22	21.855	21.760	21.970	BB	60933	1503719	39.31%	2.183%
Sum of corrected areas:						68891643		

Aliphatic EPH 092325.M Fri Oct 03 08:31:55 2025

Continuing Calibration Report for SequenceID : FC100325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC069919.D

Aliphatic C12-C16	7357331.000	40.000	6.580	9.978	183933.275	156673.343	-17.399
Aliphatic C16-C21	10792891.000	60.000	9.979	13.344	179881.517	179548.834	-0.185
Aliphatic C21-C28	12867433.000	80.000	13.345	17.006	160842.913	180941.740	11.108
Aliphatic C28-C40	15702694.000	120.000	17.007	21.955	130855.783	128677.038	-1.693
Aliphatic EPH	56343510.000	360.000	3.286	21.955	156509.750	152688.452	-2.503
Aliphatic C9-C12	9623161.000	60.000	3.286	6.579	160386.017	133523.254	-20.118

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	02 Oct 2025 20:19
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069919.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.286	6.579	9623161.000	60.000	ug/ml
Aliphatic C12-C16	6.580	9.978	7357331.000	40.000	ug/ml
Aliphatic C16-C21	9.979	13.344	10792891.000	60.000	ug/ml
Aliphatic C21-C28	13.345	17.006	12867433.000	80.000	ug/ml
Aliphatic C28-C40	17.007	21.955	15702694.000	120.000	ug/ml
Aliphatic EPH	3.286	21.955	56343510.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069919.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 20:19
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 08:05:39 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.647	3848789	20.549 ug/ml
Spiked Amount 50.000		Recovery =	41.10%
12) S 1-chlorooctadecane (S...	13.081	3014354	19.088 ug/ml
Spiked Amount 50.000		Recovery =	38.18%
Target Compounds			
1) T n-Nonane (C9)	3.387	2973610	23.196 ug/ml
2) T n-Decane (C10)	4.458	3201707	24.095 ug/ml
3) T A~Naphthalene (C11.7)	6.052	3605075	24.285 ug/ml
4) T n-Dodecane (C12)	6.480	3447844	24.716 ug/ml
5) T A~2-methylnaphthalene...	7.110	3588541	24.305 ug/ml
6) T n-Tetradecane (C14)	8.278	3575805	24.109 ug/ml
7) T n-Hexadecane (C16)	9.881	3781526	22.915 ug/ml
8) T n-Octadecane (C18)	11.325	3781197	21.216 ug/ml
10) T n-Eicosane (C20)	12.635	3566460	19.801 ug/ml
11) T n-Heneicosane (C21)	13.247	3445234	19.107 ug/ml
13) T n-Docosane (C22)	13.835	3385997	18.638 ug/ml
14) T n-Tetracosane (C24)	14.938	3295939	17.912 ug/ml
15) T n-Hexacosane (C26)	15.959	3131874	17.250 ug/ml
16) T n-Octacosane (C28)	16.910	3053623	17.298 ug/ml
17) T n-Tricontane (C30)	17.799	3236535	18.491 ug/ml
18) T n-Dotriacontane (C32)	18.630	3257557	20.135 ug/mlm
19) T n-Tetratriacontane (C34)	19.414	2903860	20.779 ug/ml
20) T n-Hexatriacontane (C36)	20.155	2412114	21.365 ug/ml
21) T n-Octatriacontane (C38)	20.910	2058523	21.339 ug/mlm
22) T n-Tetracontane (C40)	21.863	1834105	21.295 ug/ml

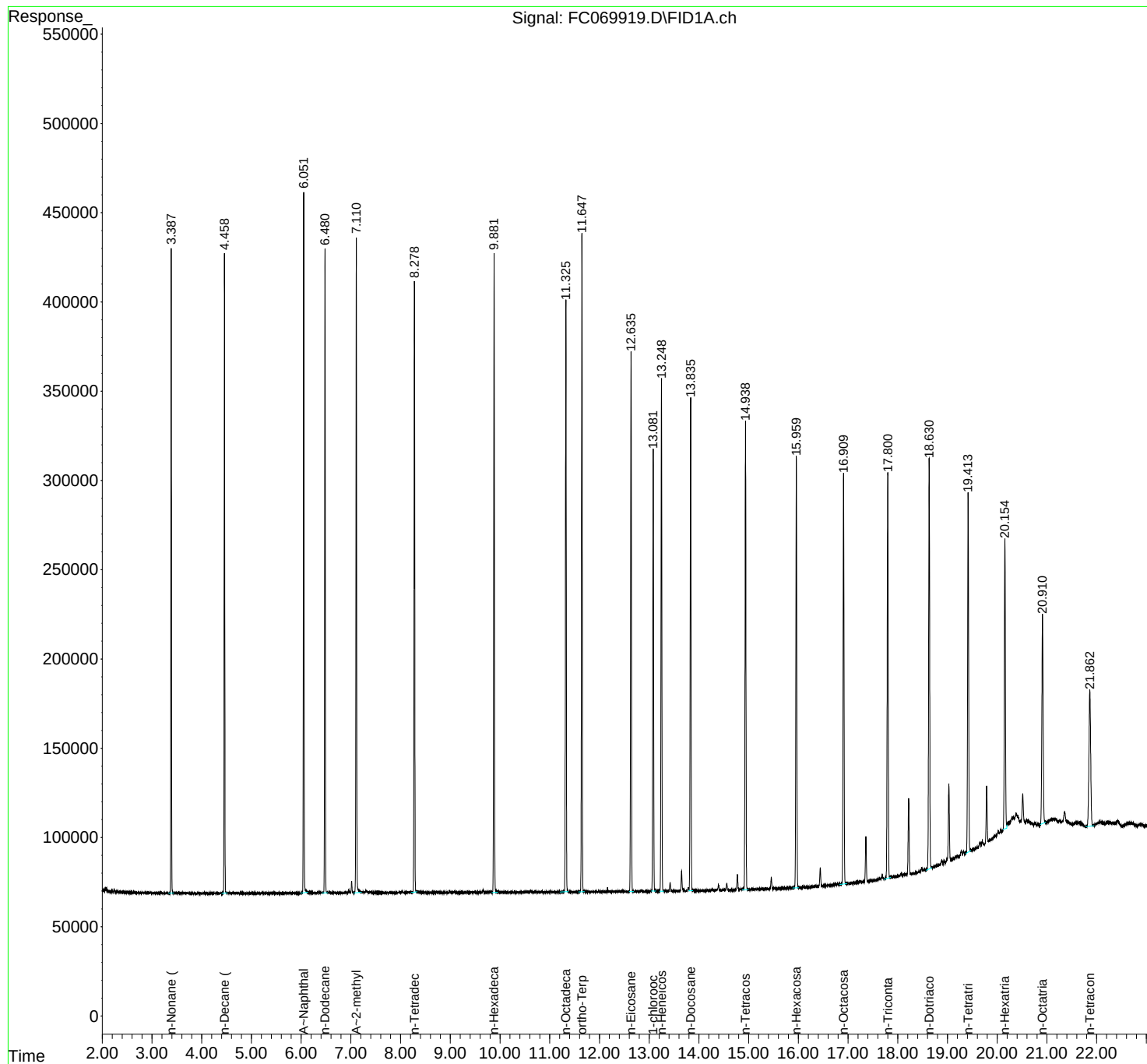
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069919.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 20:19
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 08:05:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069919.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 20:19
 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 092325.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	3.387	3.332	3.444	BB	361268	2973610	77.26%	4.222%
2	4.458	4.405	4.515	BB	358371	3201707	83.19%	4.546%
3	6.052	5.994	6.134	BB	391744	3605075	93.67%	5.118%
4	6.480	6.420	6.537	BB	360794	3447844	89.58%	4.895%
5	7.110	7.062	7.215	BB	366842	3588541	93.24%	5.095%
6	8.278	8.214	8.334	BB	343099	3575805	92.91%	5.077%
7	9.881	9.839	9.959	BB	360063	3781526	98.25%	5.369%
8	11.325	11.210	11.375	BB	331709	3781197	98.24%	5.368%
9	11.647	11.584	11.700	BB	368319	3848789	100.00%	5.464%
10	12.635	12.595	12.692	BB	302477	3566460	92.66%	5.064%
11	13.081	13.042	13.134	BB	246679	3014354	78.32%	4.280%
12	13.247	13.207	13.294	BB	286339	3445234	89.51%	4.891%
13	13.835	13.802	13.882	VB	277405	3385997	87.98%	4.807%
14	14.938	14.869	14.992	BB	262980	3295939	85.64%	4.679%
15	15.959	15.889	16.009	BB	241356	3131874	81.37%	4.446%
16	16.910	16.830	16.974	BB	228962	3053623	79.34%	4.335%
17	17.799	17.725	17.862	BB	226493	3236535	84.09%	4.595%
18	18.630	18.565	18.684	M	229989	3249615	84.43%	4.614%
19	19.414	19.367	19.472	BB	198320	2903860	75.45%	4.123%
20	20.155	20.120	20.192	BV	161434	2412114	62.67%	3.425%
21	20.910	20.856	20.985	M	118024	2100778	54.58%	2.983%
22	21.863	21.782	21.950	BB	76321	1834105	47.65%	2.604%
Sum of corrected areas:							70434580	

Aliphatic EPH 092325.M Fri Oct 03 08:33:22 2025

Continuing Calibration Report for SequenceID : FC100325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC069924.D

Aliphatic C12-C16	7295872.000	40.000	6.580	9.978	182396.800	156673.343	-16.419
Aliphatic C16-C21	10440377.000	60.000	9.979	13.344	174006.283	179548.834	3.087
Aliphatic C21-C28	12242615.000	80.000	13.345	17.006	153032.688	180941.740	15.424
Aliphatic C28-C40	15404400.000	120.000	17.007	21.955	128370.000	128677.038	0.239
Aliphatic EPH	55143867.000	360.000	3.286	21.955	153177.408	152688.452	-0.320
Aliphatic C9-C12	9760603.000	60.000	3.286	6.579	162676.717	133523.254	-21.834

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	03 Oct 2025 01:49
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069924.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.286	6.579	9760603.000	60.000	ug/ml
Aliphatic C12-C16	6.580	9.978	7295872.000	40.000	ug/ml
Aliphatic C16-C21	9.979	13.344	10440377.000	60.000	ug/ml
Aliphatic C21-C28	13.345	17.006	12242615.000	80.000	ug/ml
Aliphatic C28-C40	17.007	21.955	15404400.000	120.000	ug/ml
Aliphatic EPH	3.286	21.955	55143867.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069924.D
 Signal(s) : FID1A.ch
 Acq On : 03 Oct 2025 01:49
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 08:57:30 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.645	3756777	20.058 ug/ml
Spiked Amount 50.000		Recovery =	40.12%
12) S 1-chlorooctadecane (S...	13.080	2903629	18.387 ug/ml
Spiked Amount 50.000		Recovery =	36.77%
Target Compounds			
1) T n-Nonane (C9)	3.384	3025692	23.603 ug/ml
2) T n-Decane (C10)	4.456	3260937	24.541 ug/ml
3) T A~Naphthalene (C11.7)	6.051	3635504	24.490 ug/ml
4) T n-Dodecane (C12)	6.480	3473974	24.903 ug/ml
5) T A~2-methylnaphthalene...	7.109	3596122	24.357 ug/ml
6) T n-Tetradecane (C14)	8.277	3567772	24.055 ug/ml
7) T n-Hexadecane (C16)	9.879	3728100	22.591 ug/ml
8) T n-Octadecane (C18)	11.323	3697244	20.745 ug/ml
10) T n-Eicosane (C20)	12.634	3437885	19.087 ug/ml
11) T n-Heneicosane (C21)	13.246	3305248	18.331 ug/ml
13) T n-Docosane (C22)	13.833	3239546	17.832 ug/ml
14) T n-Tetracosane (C24)	14.936	3130730	17.015 ug/ml
15) T n-Hexacosane (C26)	15.958	2966158	16.337 ug/ml
16) T n-Octacosane (C28)	16.909	2906181	16.463 ug/ml
17) T n-Tricontane (C30)	17.797	3099974	17.711 ug/ml
18) T n-Dotriacontane (C32)	18.631	3145452	19.442 ug/mlm
19) T n-Tetratriacontane (C34)	19.414	2856560	20.440 ug/ml
20) T n-Hexatriacontane (C36)	20.154	2359308	20.897 ug/ml
21) T n-Octatriacontane (C38)	20.910	2067327	21.430 ug/mlm
22) T n-Tetracontane (C40)	21.863	1875779	21.779 ug/mlm

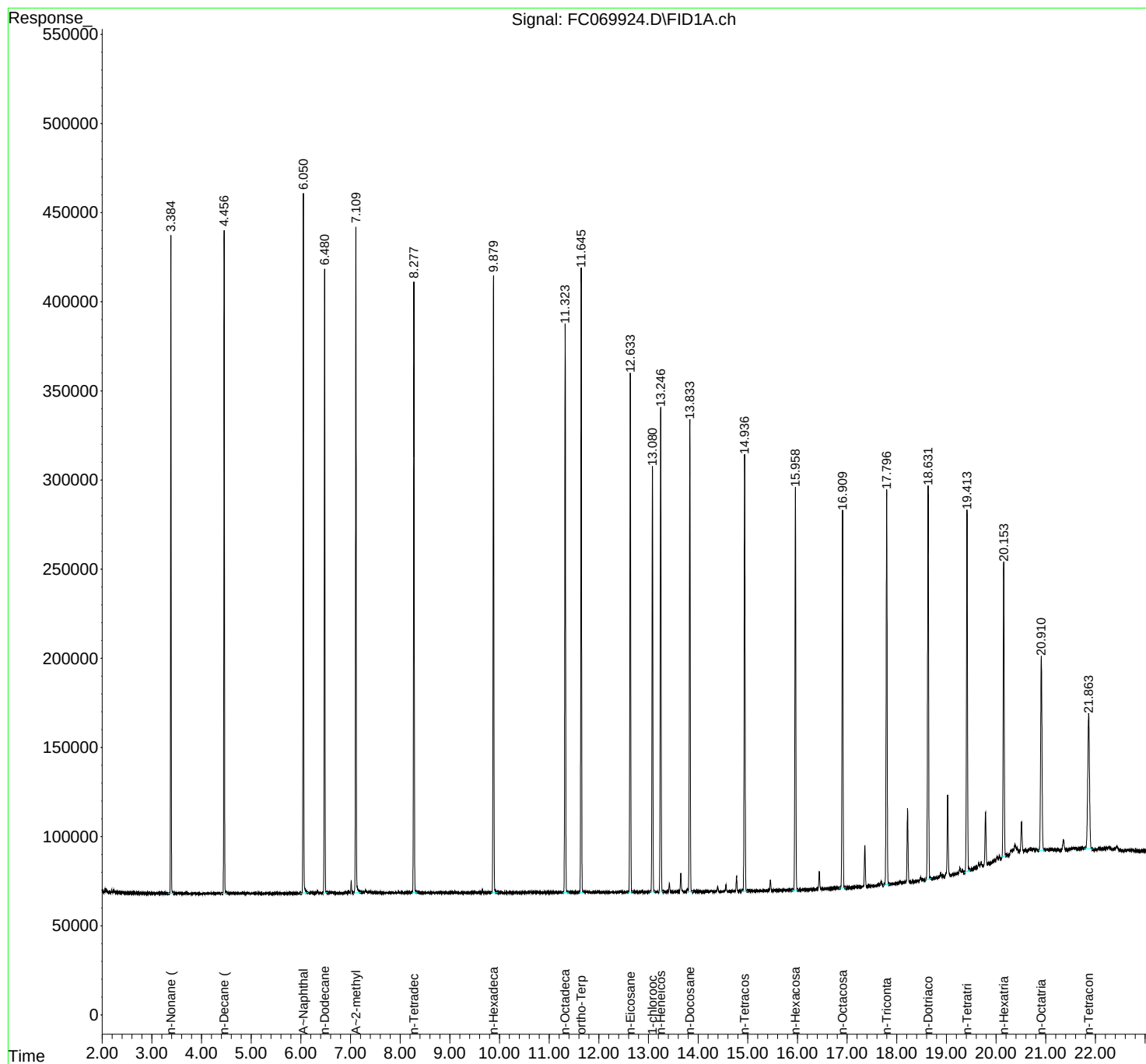
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069924.D
Signal(s) : FID1A.ch
Acq On : 03 Oct 2025 01:49
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 08:57:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069924.D
 Signal(s) : FID1A.ch
 Acq On : 03 Oct 2025 01:49
 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 092325.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	3.384	3.325	3.437	BB	367806	3025692	80.54%	4.378%
2	4.456	4.394	4.514	BB	371992	3260937	86.80%	4.719%
3	6.051	5.987	6.145	BB	391862	3635504	96.77%	5.261%
4	6.480	6.442	6.537	BB	351406	3473974	92.47%	5.027%
5	7.109	7.060	7.210	BB	372088	3596122	95.72%	5.204%
6	8.277	8.244	8.350	BB	342957	3567772	94.97%	5.163%
7	9.879	9.835	9.965	BB	346875	3728100	99.24%	5.395%
8	11.323	11.279	11.390	BB	319454	3697244	98.42%	5.350%
9	11.645	11.609	11.695	BB	350176	3756777	100.00%	5.436%
10	12.634	12.590	12.679	BB	291798	3437885	91.51%	4.975%
11	13.080	13.029	13.135	BB	238917	2903629	77.29%	4.202%
12	13.246	13.205	13.297	BB	271272	3305248	87.98%	4.783%
13	13.833	13.799	13.895	VB	264677	3239546	86.23%	4.688%
14	14.936	14.869	14.995	BB	245039	3130730	83.34%	4.530%
15	15.958	15.889	16.014	BB	225479	2966158	78.95%	4.292%
16	16.909	16.830	16.974	BB	211894	2906181	77.36%	4.206%
17	17.797	17.725	17.855	BB	220941	3099974	82.52%	4.486%
18	18.631	18.585	18.691	M	221062	3158089	84.06%	4.570%
19	19.414	19.355	19.480	BB	202657	2856560	76.04%	4.134%
20	20.154	20.120	20.199	BV	164977	2359308	62.80%	3.414%
21	20.910	20.851	20.974	M	109104	2062042	54.89%	2.984%
22	21.864	21.684	21.979	BB	76367	1936538	51.55%	2.802%
Sum of corrected areas:							69104012	

Aliphatic EPH 092325.M Sat Oct 04 02:22:23 2025



QC SAMPLE DATA

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	PB169949BL	SDG No.:	Q3216
Lab Sample ID:	PB169949BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 21:02	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	3.99	mg/kg	FC069920.D
Total EPH	Total EPH	0.91	U		0.91	3.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	PB169949BL	SDG No.:	Q3216
Lab Sample ID:	PB169949BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069920.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.6		40 - 140	55%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.4		40 - 140	59%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169949BL	Acq On:	02 Oct 2025 21:02
Client Sample ID:	PB169949BL	Operator:	YP/AJ
Data file:	FC069920.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.286	6.579	0	0	300	ug/ml
Aliphatic C12-C16	6.580	9.978	0	0	200	ug/ml
Aliphatic C16-C21	9.979	13.344	0	0	300	ug/ml
Aliphatic C21-C28	13.345	17.006	0	0	400	ug/ml
Aliphatic C28-C40	17.007	21.955	0	0	600	ug/ml
Aliphatic EPH	3.286	21.955	0	0		ug/ml
ortho-Terphenyl (SURR)	11.648	11.648	5497840	29.35		ug/ml
1-chlorooctadecane (SURR)	13.082	13.082	4357500	27.59		ug/ml
Aliphatic C9-C28	3.286	17.006	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069920.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 21:02
 Operator : YP/AJ
 Sample : PB169949BL
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 08:02:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.648	5497840	29.353 ug/ml
Spiked Amount 50.000		Recovery =	58.71%
12) S 1-chlorooctadecane (S...	13.082	4357500	27.593 ug/ml
Spiked Amount 50.000		Recovery =	55.19%

Target Compounds

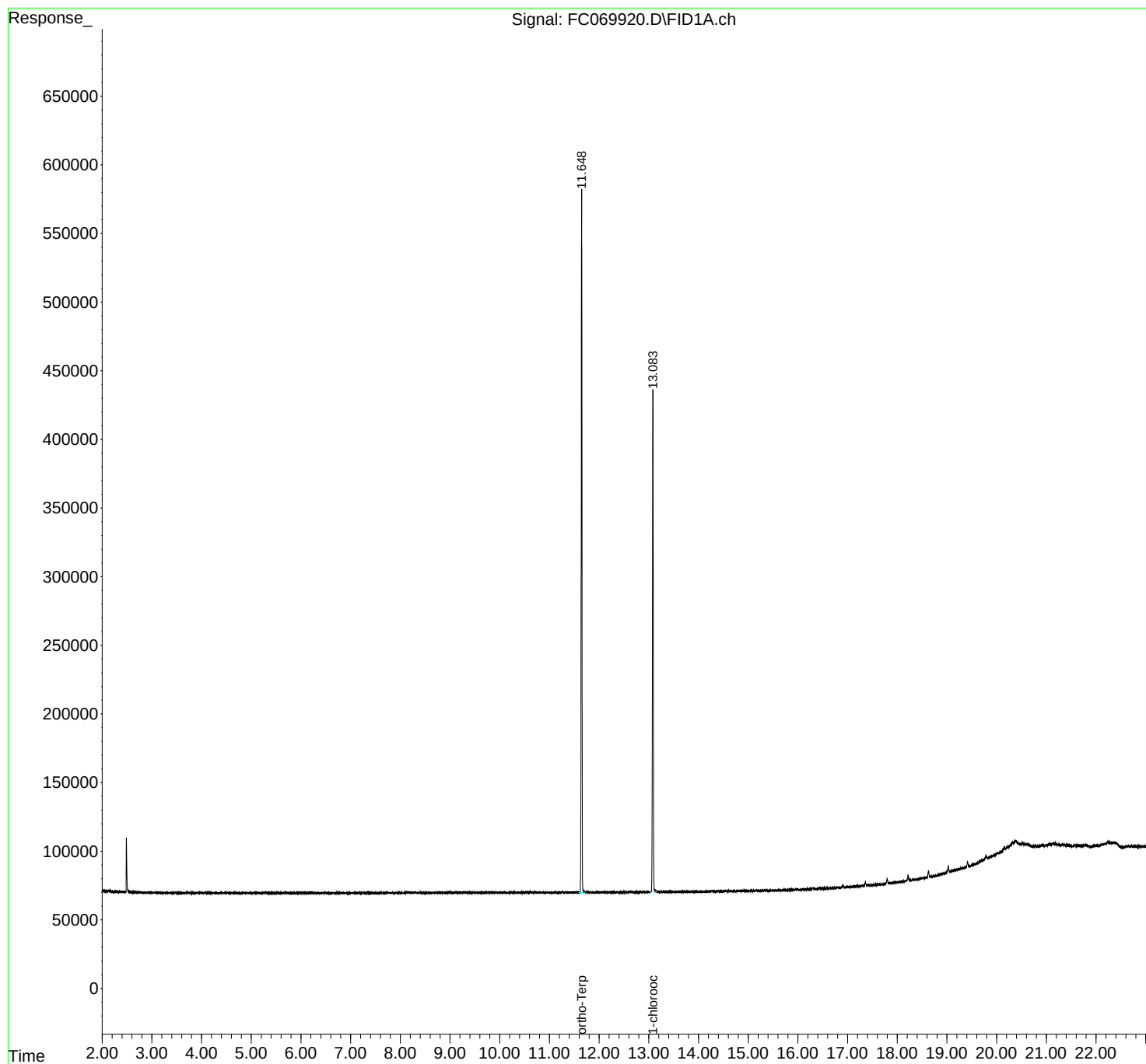
(f)=RT Delta > 1/2 Window

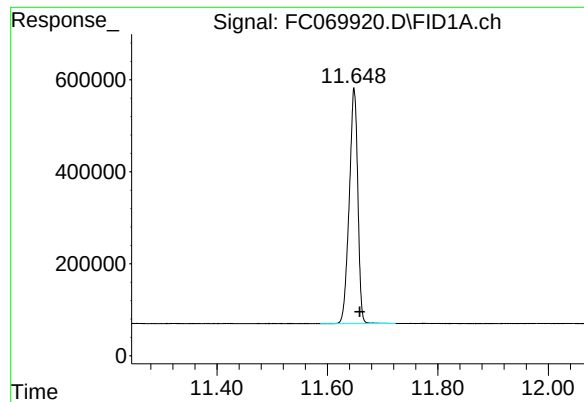
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069920.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 21:02
Operator : YP/AJ
Sample : PB169949BL
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 08:02:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

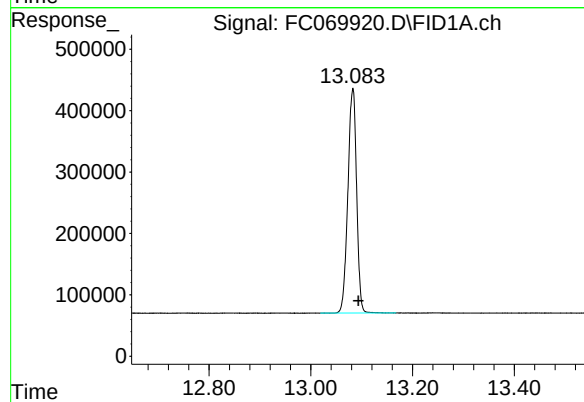
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um





#9 ortho-Terphenyl (SURR)

R.T.: 11.648 min
Delta R.T.: -0.010 min
Response: 5497840
Conc: 29.35 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.082 min
Delta R.T.: -0.011 min
Response: 4357500
Conc: 27.59 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069920.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 21:02
Sample : PB169949BL
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	11.648	11.587	11.723	BB	510738	5497840	100.00%	55.785%
2	13.082	13.018	13.167	BB	363617	4357500	79.26%	44.215%
Sum of corrected areas:							9855340	

Aliphatic EPH 092325.M Sat Oct 04 02:16:01 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	PB169949BS	SDG No.:	Q3216
Lab Sample ID:	PB169949BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 21:44	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	58.9		1	0.91	3.99	mg/kg	FC069921.D
Total EPH	Total EPH	58.9			0.91	3.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	PB169949BS	SDG No.:	Q3216
Lab Sample ID:	PB169949BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069921.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	58.9		0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.8		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.0		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.2		40 - 140	66%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169949BS	Acq On:	02 Oct 2025 21:44
Client Sample ID:	PB169949BS	Operator:	YP/AJ
Data file:	FC069921.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.286	6.579	26544918	198.804	300	ug/ml
Aliphatic C12-C16	6.580	9.978	34672854	221.307	200	ug/ml
Aliphatic C16-C21	9.979	13.344	38773430	215.949	300	ug/ml
Aliphatic C21-C28	13.345	17.006	45057481	249.017	400	ug/ml
Aliphatic C28-C40	17.007	21.955	38216998	296.999	600	ug/ml
Aliphatic EPH	3.286	21.955	183265681	1180		ug/ml
ortho-Terphenyl (SURR)	11.649	11.649	6219908	33.21		ug/ml
1-chlorooctadecane (SURR)	13.083	13.083	5046639	31.96		ug/ml
Aliphatic C9-C28	3.286	17.006	145048683	885.077	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069921.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 21:44
 Operator : YP/AJ
 Sample : PB169949BS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 08:03:36 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.649	6219908	33.208 ug/ml
Spiked Amount 50.000		Recovery =	66.42%
12) S 1-chlorooctadecane (S...	13.083	5046639	31.957 ug/ml
Spiked Amount 50.000		Recovery =	63.91%
Target Compounds			
1) T n-Nonane (C9)	3.400	4675125	36.469 ug/ml
2) T n-Decane (C10)	4.466	5089359	38.301 ug/ml
3) T A~Naphthalene (C11.7)	6.055	5841464	39.350 ug/ml
4) T n-Dodecane (C12)	6.483	5440086	38.998 ug/ml
5) T A~2-methylnaphthalene...	7.112	5485413	37.153 ug/ml
6) T n-Tetradecane (C14)	8.280	5586839	37.668 ug/ml
7) T n-Hexadecane (C16)	9.882	5839792	35.387 ug/ml
8) T n-Octadecane (C18)	11.326	5811007	32.606 ug/ml
10) T n-Eicosane (C20)	12.637	5906326	32.792 ug/ml
11) T n-Heneicosane (C21)	13.248	5601006	31.062 ug/ml
13) T n-Docosane (C22)	13.835	5477979	30.153 ug/ml
14) T n-Tetracosane (C24)	14.935	10266658	55.796 ug/ml
15) T n-Hexacosane (C26)	15.962	5050036	27.814 ug/ml
16) T n-Octacosane (C28)	16.911	4807652	27.234 ug/mlm
17) T n-Tricontane (C30)	17.801	4733677	27.045 ug/ml
18) T n-Dotriacontane (C32)	18.633	4569876	28.247 ug/mlm
19) T n-Tetratriacontane (C34)	19.415	4526462	32.389 ug/mlm
20) T n-Hexatriacontane (C36)	20.155	3936676	34.869 ug/ml
21) T n-Octatriacontane (C38)	20.916	3482732	36.103 ug/mlm
22) T n-Tetracontane (C40)	21.863	2929319	34.011 ug/mlm

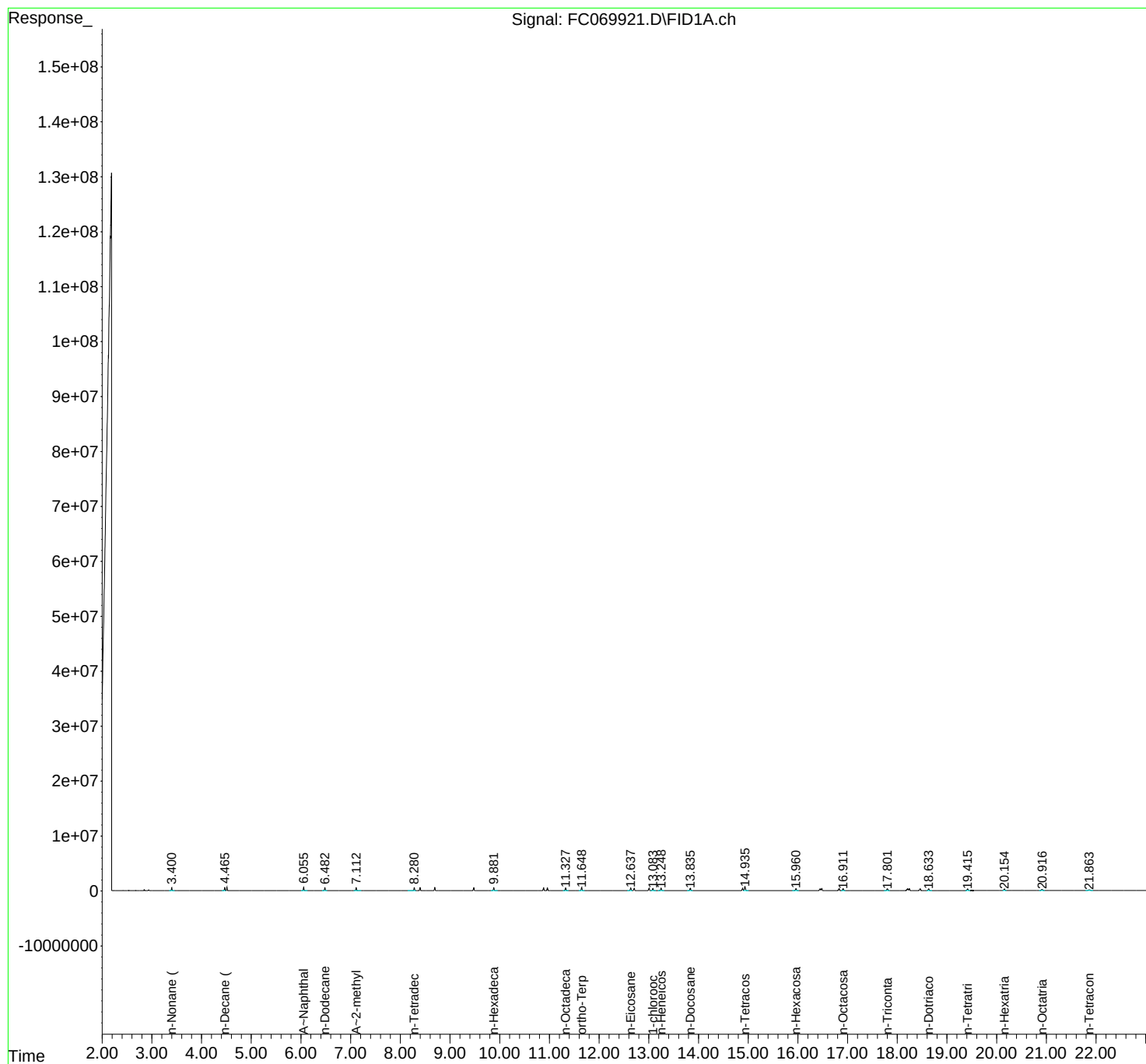
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069921.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 21:44
Operator : YP/AJ
Sample : PB169949BS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 08:03:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069921.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 21:44
 Sample : PB169949BS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.400	3.349	3.457	BB	564048	4675125	45.54%	2.403%
2	4.466	4.409	4.487	BV	574918	5089359	49.57%	2.616%
3	4.510	4.487	4.554	VV	619157	5498884	53.56%	2.827%
4	6.055	6.004	6.130	BB	636159	5841464	56.90%	3.003%
5	6.483	6.424	6.527	BB	557301	5440086	52.99%	2.796%
6	7.112	7.062	7.212	BB	552019	5485413	53.43%	2.820%
7	8.280	8.149	8.314	BB	554972	5586839	54.42%	2.872%
8	8.397	8.330	8.484	BB	575356	5894974	57.42%	3.030%
9	8.693	8.632	8.777	BB	600515	5916925	57.63%	3.042%
10	9.479	9.420	9.564	BB	556519	5948911	57.94%	3.058%
11	9.882	9.820	9.959	BB	550286	5839792	56.88%	3.002%
12	10.884	10.779	10.924	BV	527119	5643750	54.97%	2.901%
13	10.960	10.924	11.060	VB	491688	5276539	51.39%	2.712%
14	11.326	11.274	11.384	BB	504231	5811007	56.60%	2.987%
15	11.649	11.589	11.709	BB	559970	6219908	60.58%	3.197%
16	12.637	12.567	12.670	BV	504916	5906326	57.53%	3.036%
17	12.707	12.670	12.779	VB	455154	5291834	51.54%	2.720%
18	13.006	12.934	13.038	BV	449539	5242968	51.07%	2.695%
19	13.083	13.038	13.142	VB	418867	5046639	49.16%	2.594%
20	13.248	13.182	13.310	BB	475166	5601006	54.56%	2.879%
21	13.835	13.772	13.884	BB	435937	5477979	53.36%	2.816%
22	14.886	14.825	14.907	BV	374433	4952425	48.24%	2.546%
23	14.935	14.907	15.009	VB	764683	10266658	100.00%	5.278%
24	15.962	15.885	16.019	BB	370016	5050036	49.19%	2.596%
25	16.448	16.372	16.463	BV	343537	4813738	46.89%	2.475%
26	16.482	16.463	16.560	VB	405957	4867412	47.41%	2.502%
27	16.831	16.773	16.870	M	372177	4773171	46.49%	2.454%
28	16.911	16.872	16.974	M	366219	4856062	47.30%	2.496%
29	17.801	17.735	17.850	BB	341096	4733677	46.11%	2.433%
30	18.206	18.100	18.220	BV	340067	5007450	48.77%	2.574%
31	18.242	18.220	18.332	VB	356784	4748760	46.25%	2.441%

					rteres			
32	18.462	18.382	18.539	BB	333846	4535757	44.18%	2.332%
33	18.633	18.577	18.686	M	333746	4557348	44.39%	2.343%
34	19.416	19.125	19.495	BB	317431	4503658	43.87%	2.315%
35	20.155	20.120	20.195	BV	261991	3936676	38.34%	2.024%
36	20.915	20.880	20.990	BB	185241	3246492	31.62%	1.669%
37	21.864	21.642	21.932	BB	116414	2947180	28.71%	1.515%
					Sum of corrected areas:	194532225		

Aliphatic EPH 092325.M Sat Oct 04 02:17:58 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	PB169949BSD	SDG No.:	Q3216
Lab Sample ID:	PB169949BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 22:25	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	56.1		1	0.91	4.00	mg/kg	FC069922.D
Total EPH	Total EPH	56.1			0.91	4.00	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	PB169949BSD	SDG No.:	Q3216
Lab Sample ID:	PB169949BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069922.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	56.1		0.91	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.2		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.2		40 - 140	62%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.8		40 - 140	66%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169949BSD	Acq On:	02 Oct 2025 22:25
Client Sample ID:	PB169949BSD	Operator:	YP/AJ
Data file:	FC069922.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.286	6.579	26719058	200.108	300	ug/ml
Aliphatic C12-C16	6.580	9.978	28955629	184.815	200	ug/ml
Aliphatic C16-C21	9.979	13.344	38374179	213.726	300	ug/ml
Aliphatic C21-C28	13.345	17.006	44272864	244.68	400	ug/ml
Aliphatic C28-C40	17.007	21.955	36980149	287.387	600	ug/ml
Aliphatic EPH	3.286	21.955	175301879	1130		ug/ml
ortho-Terphenyl (SURR)	11.649	11.649	6138838	32.78		ug/ml
1-chlorooctadecane (SURR)	13.082	13.082	4933042	31.24		ug/ml
Aliphatic C9-C28	3.286	17.006	138321730	843.329	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069922.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 22:25
 Operator : YP/AJ
 Sample : PB169949BSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 08:25:58 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.649	6138838	32.775 ug/ml
Spiked Amount 50.000		Recovery =	65.55%
12) S 1-chlorooctadecane (S...	13.082	4933042	31.238 ug/ml
Spiked Amount 50.000		Recovery =	62.48%
Target Compounds			
1) T n-Nonane (C9)	3.399	4676000	36.476 ug/ml
2) T n-Decane (C10)	4.465	5104813	38.417 ug/ml
3) T A~Naphthalene (C11.7)	6.055	5917278	39.861 ug/ml
4) T n-Dodecane (C12)	6.482	5471074	39.220 ug/ml
5) T A~2-methylnaphthalene...	7.112	5550960	37.597 ug/ml
6) T n-Tetradecane (C14)	8.280	5643890	38.052 ug/ml
7) T n-Hexadecane (C16)	9.882	5855068	35.479 ug/ml
8) T n-Octadecane (C18)	11.327	5787587	32.474 ug/ml
10) T n-Eicosane (C20)	12.637	5836051	32.402 ug/ml
11) T n-Heneicosane (C21)	13.249	5509801	30.557 ug/ml
13) T n-Docosane (C22)	13.835	5365208	29.532 ug/ml
14) T n-Tetracosane (C24)	14.934	10053140	54.636 ug/ml
15) T n-Hexacosane (C26)	15.963	4885648	26.909 ug/ml
16) T n-Octacosane (C28)	16.911	4710092	26.682 ug/mlm
17) T n-Tricontane (C30)	17.801	4626764	26.434 ug/ml
18) T n-Dotriacontane (C32)	18.633	4486090	27.729 ug/mlm
19) T n-Tetratriacontane (C34)	19.415	4428587	31.689 ug/mlm
20) T n-Hexatriacontane (C36)	20.156	3690179	32.685 ug/ml
21) T n-Octatriacontane (C38)	20.914	2990068	30.996 ug/mlm
22) T n-Tetracontane (C40)	21.865	2270762	26.365 ug/ml

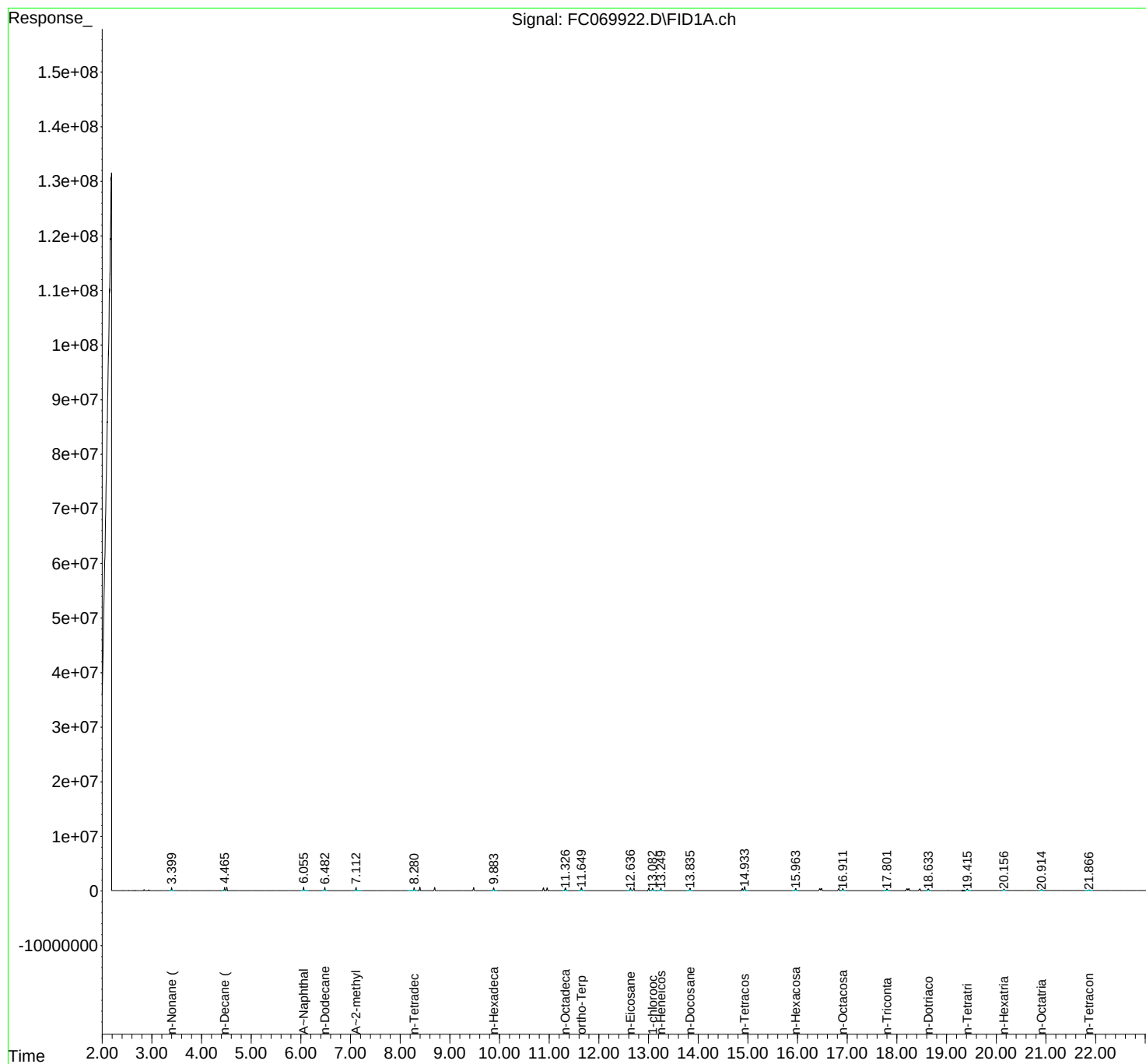
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069922.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 22:25
Operator : YP/AJ
Sample : PB169949BSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 08:25:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069922.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 22:25
 Sample : PB169949BSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.181	2.009	2.215	PH	130445476	9104583068	100.00%	97.994%
2	3.399	3.349	3.459	BB	560833	4676000	0.05%	0.050%
3	4.465	4.410	4.487	BV	578926	5104813	0.06%	0.055%
4	4.510	4.487	4.555	VV	631339	5549893	0.06%	0.060%
5	6.055	5.992	6.154	BB	628041	5917278	0.06%	0.064%
6	6.482	6.420	6.530	BB	563560	5471074	0.06%	0.059%
7	7.112	7.062	7.227	BV	568691	5550960	0.06%	0.060%
8	8.280	8.147	8.349	BB	529502	5643890	0.06%	0.061%
9	8.694	8.630	8.769	BB	578753	5943781	0.07%	0.064%
10	9.479	9.415	9.567	BB	562857	5961930	0.07%	0.064%
11	9.882	9.824	9.957	BB	525151	5855068	0.06%	0.063%
12	10.885	10.777	10.927	BV	511967	5615227	0.06%	0.060%
13	10.959	10.927	11.060	VB	484267	5243907	0.06%	0.056%
14	11.327	11.262	11.377	BB	502645	5787587	0.06%	0.062%
15	11.649	11.587	11.710	BB	560512	6138838	0.07%	0.066%
16	12.637	12.569	12.670	BV	502664	5836051	0.06%	0.063%
17	12.706	12.670	12.785	VB	455448	5216309	0.06%	0.056%
18	13.006	12.934	13.038	BV	469478	5165297	0.06%	0.056%
19	13.082	13.038	13.140	VB	408963	4933042	0.05%	0.053%
20	13.249	13.182	13.312	BB	446550	5509801	0.06%	0.059%
21	13.835	13.767	13.894	BB	450737	5365208	0.06%	0.058%
22	14.887	14.820	14.907	BV	379810	4881711	0.05%	0.053%
23	14.934	14.907	15.004	VB	728520	10053140	0.11%	0.108%
24	15.963	15.889	16.017	BB	387968	4885648	0.05%	0.053%
25	16.448	16.372	16.464	BV	330812	4833497	0.05%	0.052%
26	16.483	16.464	16.565	VB	414477	4825746	0.05%	0.052%
27	16.830	16.789	16.869	M	374952	4748850	0.05%	0.051%
28	16.911	16.875	16.955	M	347407	4679064	0.05%	0.050%
29	17.801	17.735	17.859	BB	330857	4626764	0.05%	0.050%
30	18.206	18.122	18.220	BV	347106	5061890	0.06%	0.054%
31	18.242	18.220	18.337	VB	370561	4822407	0.05%	0.052%

					rteres				
32	18.463	18.390	18.549	BB	313368	4591779	0.05%	0.049%	
33	18.633	18.574	18.699		M 314286	4493292	0.05%	0.048%	
34	19.415	19.214	19.504	BB	302958	4431759	0.05%	0.048%	
35	20.156	20.120	20.205	BV	261579	3690179	0.04%	0.040%	
36	20.914	20.868	20.977		M 160394	2991317	0.03%	0.032%	
37	21.865	21.780	21.950	BB	88925	2270762	0.02%	0.024%	
					Sum of corrected areas:	9290956824			

Aliphatic EPH 092325.M Sat Oct 04 02:20:52 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	5MS	SDG No.:	Q3216
Lab Sample ID:	Q3216-07MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.6
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 16:44	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	93.8	E	1	1.01	4.44	mg/kg	FC069916.D
Total EPH	Total EPH	93.8			1.01	4.44	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	5MS	SDG No.:	Q3216
Lab Sample ID:	Q3216-07MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.6
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069916.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	93.8	E	1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	69.1	E	1.31	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	21.5		40 - 140	43%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	21.0		40 - 140	42%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3216-07MS	Acq On:	02 Oct 2025 16:44
Client Sample ID:	5MS	Operator:	YP/AJ
Data file:	FC069916.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	3.286	6.579	32632059	244.392	300	ug/ml
Aliphatic C12-C16	6.580	9.978	46496213	296.772	200	ug/ml
Aliphatic C16-C21	9.979	13.344	61170968	340.693	300	ug/ml
Aliphatic C21-C28	13.345	17.006	69208387	382.49	400	ug/ml
Aliphatic C28-C40	17.007	21.955	119717405	930.371	600	ug/ml
Aliphatic EPH	3.286	21.955	329225032	2190		ug/ml
ortho-Terphenyl (SURR)	11.651	11.651	3929828	20.98		ug/ml
1-chlorooctadecane (SURR)	13.085	13.085	3401838	21.54		ug/ml
Aliphatic C9-C28	3.286	17.006	209507627	1260	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069916.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 16:44
 Operator : YP/AJ
 Sample : Q3216-07MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 07:55:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 Qlast Update : Tue Sep 23 14:56:40 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)	11.651	3929828	20.981 ug/ml
Spiked Amount 50.000		Recovery =	41.96%
12) S 1-chlorooctadecane (S...	13.085	3401838	21.542 ug/ml
Spiked Amount 50.000		Recovery =	43.08%
Target Compounds			
1) T n-Nonane (C9)	3.404	5650131	44.075 ug/ml
2) T n-Decane (C10)	4.470	5975730	44.971 ug/ml
3) T A~Naphthalene (C11.7)	6.059	6968848	46.945 ug/ml
4) T n-Dodecane (C12)	6.487	6433348	46.118 ug/ml
5) T A~2-methylnaphthalene...	7.117	6867879	46.517 ug/ml
6) T n-Tetradecane (C14)	8.284	6843120	46.138 ug/ml
7) T n-Hexadecane (C16)	9.885	6890566	41.754 ug/ml
8) T n-Octadecane (C18)	11.329	6749358	37.871 ug/ml
10) T n-Eicosane (C20)	12.641	7096379	39.400 ug/ml
11) T n-Heneicosane (C21)	13.254	6595125	36.576 ug/ml
13) T n-Docosane (C22)	13.839	6526355	35.923 ug/mlm
14) T n-Tetracosane (C24)	14.941	12584623	68.394 ug/ml
15) T n-Hexacosane (C26)	15.967	5982610	32.951 ug/ml
16) T n-Octacosane (C28)	16.915	5808502	32.904 ug/mlm
17) T n-Tricontane (C30)	17.807	5671546	32.403 ug/ml
18) T n-Dotriacontane (C32)	18.637	5368320	33.182 ug/mlm
19) T n-Tetratriacontane (C34)	19.423	5433951	38.883 ug/ml
20) T n-Hexatriacontane (C36)	20.162	4970226	44.023 ug/ml
21) T n-Octatriacontane (C38)	20.923	4942230	51.233 ug/ml
22) T n-Tetracontane (C40)	21.879	4892172	56.802 ug/ml

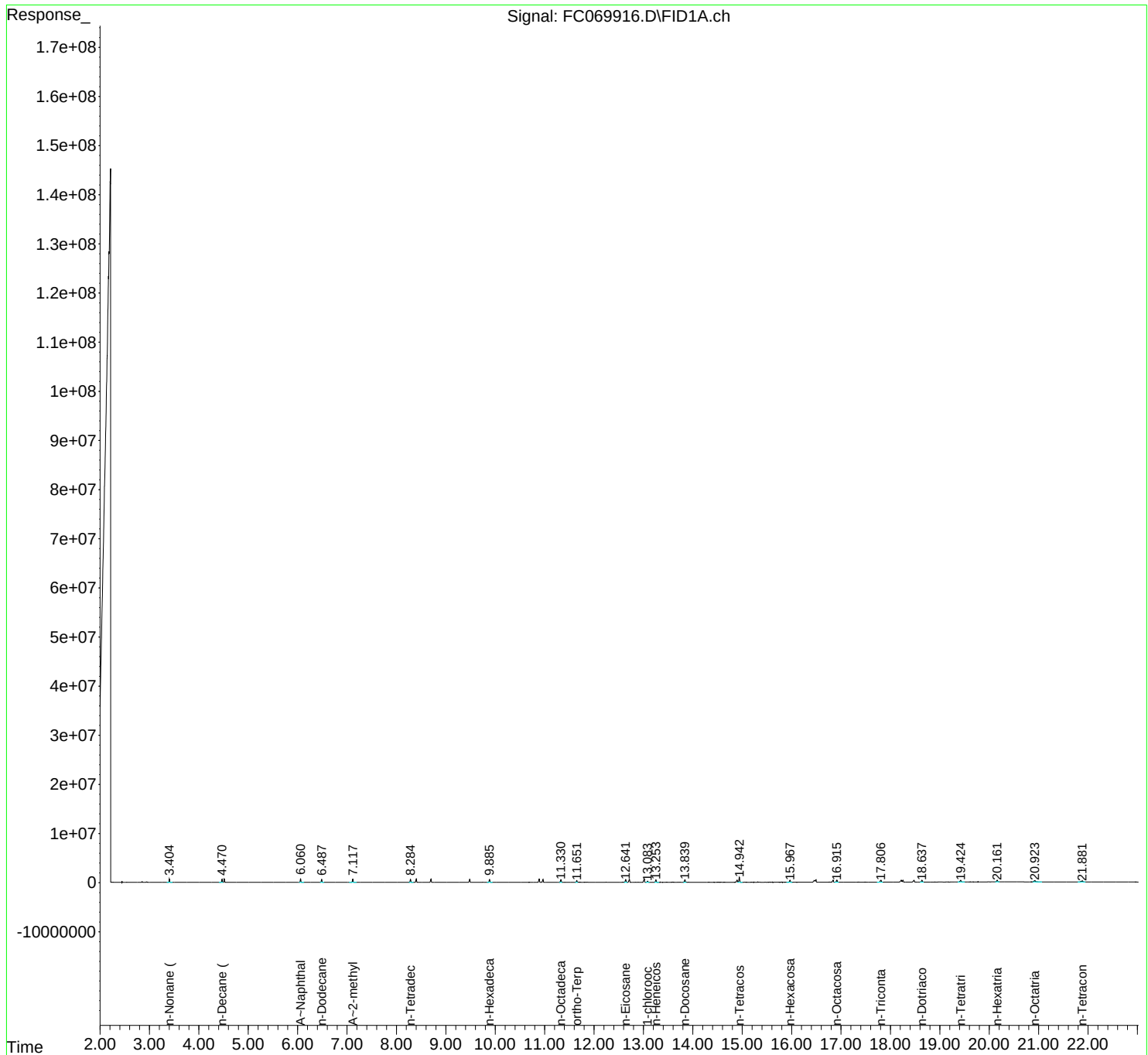
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069916.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 16:44
Operator : YP/AJ
Sample : Q3216-07MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 07:55:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069916.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 16:44
 Sample : Q3216-07MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.233	3.204	3.284	BV	282	5533	0.04%	0.002%
2	3.306	3.284	3.378	VV	464	7171	0.06%	0.002%
3	3.404	3.378	3.517	PV	680279	5688296	45.20%	1.680%
4	3.531	3.517	3.568	VV	486	8461	0.07%	0.002%
5	3.583	3.568	3.594	VV	297	3203	0.03%	0.001%
6	3.602	3.594	3.634	VV	320	3630	0.03%	0.001%
7	3.645	3.634	3.658	PV	383	3362	0.03%	0.001%
8	3.696	3.658	3.754	VV	1854	33931	0.27%	0.010%
9	3.785	3.754	3.828	VV	678	12458	0.10%	0.004%
10	3.839	3.828	3.877	VV	101	1492	0.01%	0.000%
11	3.898	3.877	3.954	VV	545	10373	0.08%	0.003%
12	3.980	3.954	4.029	VV	533	8247	0.07%	0.002%
13	4.095	4.029	4.151	PV	1304	31796	0.25%	0.009%
14	4.163	4.151	4.190	VV	524	6552	0.05%	0.002%
15	4.214	4.190	4.355	VV	4654	128121	1.02%	0.038%
16	4.387	4.355	4.409	VV	288	7119	0.06%	0.002%
17	4.470	4.409	4.491	VV	679410	5999031	47.67%	1.772%
18	4.514	4.491	4.560	VV	718250	6469969	51.41%	1.911%
19	4.573	4.560	4.604	VV	1912	31658	0.25%	0.009%
20	4.619	4.604	4.661	VV	1234	21453	0.17%	0.006%
21	4.684	4.661	4.735	VV	5619	74405	0.59%	0.022%
22	4.747	4.735	4.777	VV	496	9141	0.07%	0.003%
23	4.802	4.777	4.865	VV	1413	30732	0.24%	0.009%
24	4.883	4.865	4.896	VV	302	4837	0.04%	0.001%
25	4.922	4.896	4.972	VV	786	17744	0.14%	0.005%
26	5.021	4.972	5.039	PV	286	6939	0.06%	0.002%
27	5.065	5.039	5.081	VV	345	6274	0.05%	0.002%
28	5.108	5.081	5.131	VV	465	10081	0.08%	0.003%
29	5.157	5.131	5.173	VV	672	10718	0.09%	0.003%
30	5.186	5.173	5.223	VV	589	10896	0.09%	0.003%
31	5.237	5.223	5.252	VV	485	5495	0.04%	0.002%

					rteres			
32	5.273	5.252	5.308	VV	1609	27053	0.21%	0.008%
33	5.325	5.308	5.367	VV	1255	20373	0.16%	0.006%
34	5.384	5.367	5.408	VV	534	6976	0.06%	0.002%
35	5.425	5.408	5.439	VV	747	8143	0.06%	0.002%
36	5.453	5.439	5.480	VV	882	10611	0.08%	0.003%
37	5.503	5.480	5.521	PV	2478	27556	0.22%	0.008%
38	5.556	5.521	5.586	VV	2161	42099	0.33%	0.012%
39	5.605	5.586	5.645	VV	1330	19166	0.15%	0.006%
40	5.693	5.645	5.710	PV	351	6573	0.05%	0.002%
41	5.770	5.710	5.788	VV	2913	45977	0.37%	0.014%
42	5.806	5.788	5.874	VV	4512	100258	0.80%	0.030%
43	5.895	5.874	5.941	VV	951	22365	0.18%	0.007%
44	5.952	5.941	5.974	VV	377	6354	0.05%	0.002%
45	5.992	5.974	6.001	VV	659	8187	0.07%	0.002%
46	6.013	6.001	6.026	VV	875	10141	0.08%	0.003%
47	6.059	6.026	6.129	VV	758585	7004021	55.66%	2.069%
48	6.144	6.129	6.181	VV	1240	23830	0.19%	0.007%
49	6.201	6.181	6.220	VV	682	11217	0.09%	0.003%
50	6.234	6.220	6.281	VV	415	10973	0.09%	0.003%
51	6.293	6.281	6.310	VV	429	6690	0.05%	0.002%
52	6.329	6.310	6.344	VV	952	13099	0.10%	0.004%
53	6.354	6.344	6.394	VV	727	12264	0.10%	0.004%
54	6.437	6.394	6.452	VV	1120	23334	0.19%	0.007%
55	6.487	6.452	6.536	VV	646250	6467577	51.39%	1.910%
56	6.554	6.536	6.616	VV	1799	33637	0.27%	0.010%
57	6.633	6.616	6.653	VV	669	9054	0.07%	0.003%
58	6.683	6.653	6.718	VV	618	12069	0.10%	0.004%
59	6.731	6.718	6.744	VV	153	1696	0.01%	0.001%
60	6.765	6.744	6.784	VV	333	4353	0.03%	0.001%
61	6.808	6.784	6.837	PV	2027	32729	0.26%	0.010%
62	6.858	6.837	6.878	VV	2152	31469	0.25%	0.009%
63	6.892	6.878	6.909	VV	1344	21269	0.17%	0.006%
64	6.925	6.909	6.940	VV	1427	21671	0.17%	0.006%
65	6.962	6.940	6.996	VV	4999	81523	0.65%	0.024%
66	7.020	6.996	7.045	VV	11338	134889	1.07%	0.040%
67	7.065	7.045	7.076	VV	2030	30675	0.24%	0.009%
68	7.117	7.076	7.193	VV	688976	6891943	54.76%	2.036%
69	7.207	7.193	7.226	VV	1640	23343	0.19%	0.007%
70	7.249	7.226	7.287	VV	18711	207495	1.65%	0.061%
71	7.305	7.287	7.321	VV	2272	30956	0.25%	0.009%
72	7.331	7.321	7.356	VV	1249	19392	0.15%	0.006%
73	7.378	7.356	7.391	VV	1171	16955	0.13%	0.005%
74	7.408	7.391	7.442	VV	2159	29761	0.24%	0.009%
75	7.469	7.442	7.491	VV	526	10847	0.09%	0.003%
76	7.501	7.491	7.524	VV	480	6841	0.05%	0.002%
77	7.535	7.524	7.559	VV	289	3846	0.03%	0.001%
78	7.586	7.559	7.606	VV	690	9164	0.07%	0.003%
79	7.625	7.606	7.655	VV	386	7339	0.06%	0.002%

80	7.665	7.655	7.674	VV	144	1346	0.01%	0.000%
81	7.699	7.674	7.728	VV	918	11586	0.09%	0.003%
82	7.744	7.728	7.757	PV	147	1705	0.01%	0.001%
83	7.840	7.757	7.910	VV	2699	76456	0.61%	0.023%
84	7.938	7.910	7.955	VV	1253	18197	0.14%	0.005%
85	7.999	7.955	8.022	VV	4033	96743	0.77%	0.029%
86	8.031	8.022	8.049	VV	2257	30187	0.24%	0.009%
87	8.065	8.049	8.074	VV	2417	29589	0.24%	0.009%
88	8.109	8.074	8.150	VV	6262	165000	1.31%	0.049%
89	8.166	8.150	8.180	VV	1909	27432	0.22%	0.008%
90	8.211	8.180	8.227	VV	16860	205142	1.63%	0.061%
91	8.239	8.227	8.251	VV	9344	96283	0.77%	0.028%
92	8.284	8.251	8.341	VV	639338	6856226	54.48%	2.025%
93	8.401	8.341	8.471	VV	730932	7530523	59.84%	2.224%
94	8.487	8.471	8.517	VV	5812	67434	0.54%	0.020%
95	8.535	8.517	8.588	VV	702	11741	0.09%	0.003%
96	8.605	8.588	8.618	PV	235	2751	0.02%	0.001%
97	8.645	8.618	8.663	VV	1452	21745	0.17%	0.006%
98	8.698	8.663	8.724	VV	682649	7097240	56.40%	2.096%
99	8.740	8.724	8.794	VV	4186	93643	0.74%	0.028%
100	8.809	8.794	8.838	VV	2000	34704	0.28%	0.010%
101	8.854	8.838	8.868	VV	1831	21931	0.17%	0.006%
102	8.882	8.868	8.899	VV	1558	23016	0.18%	0.007%
103	8.930	8.899	8.948	VV	5232	89569	0.71%	0.026%
104	8.966	8.948	8.986	VV	7150	84884	0.67%	0.025%
105	9.004	8.986	9.027	VV	3699	59401	0.47%	0.018%
106	9.053	9.027	9.071	VV	2917	55890	0.44%	0.017%
107	9.101	9.071	9.121	VV	7207	96572	0.77%	0.029%
108	9.141	9.121	9.178	VV	8510	119935	0.95%	0.035%
109	9.199	9.178	9.226	VV	4590	63112	0.50%	0.019%
110	9.256	9.226	9.274	VV	8096	106388	0.85%	0.031%
111	9.289	9.274	9.307	VV	6916	71780	0.57%	0.021%
112	9.341	9.307	9.362	VV	11373	151684	1.21%	0.045%
113	9.395	9.362	9.415	VV	5812	94962	0.75%	0.028%
114	9.437	9.415	9.451	VV	9096	99784	0.79%	0.029%
115	9.483	9.451	9.534	VV	680754	7165346	56.94%	2.116%
116	9.556	9.534	9.583	VV	5677	87751	0.70%	0.026%
117	9.623	9.583	9.646	VV	8519	168055	1.34%	0.050%
118	9.658	9.646	9.670	VV	3515	42296	0.34%	0.012%
119	9.690	9.670	9.715	VV	11412	149204	1.19%	0.044%
120	9.753	9.715	9.778	VV	41077	507278	4.03%	0.150%
121	9.797	9.778	9.834	VV	5444	110240	0.88%	0.033%
122	9.885	9.834	9.944	VV	610234	6932971	55.09%	2.048%
123	9.975	9.944	10.027	VV	2971	79212	0.63%	0.023%
124	10.057	10.027	10.083	VV	1883	31551	0.25%	0.009%
125	10.101	10.083	10.122	VV	1852	24163	0.19%	0.007%
126	10.169	10.122	10.201	PV	1695	39483	0.31%	0.012%

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127	10.227	10.201	10.255	VV	10871	137520	1.09%	0.041%
128	10.271	10.255	10.288	VV	1299	16038	0.13%	0.005%
129	10.331	10.288	10.342	VV	6544	103647	0.82%	0.031%
130	10.359	10.342	10.382	VV	11192	155328	1.23%	0.046%
131	10.400	10.382	10.434	VV	9860	127617	1.01%	0.038%
132	10.477	10.434	10.508	VV	9067	186441	1.48%	0.055%
133	10.531	10.508	10.584	VV	14036	241504	1.92%	0.071%
134	10.619	10.584	10.631	VV	4559	89229	0.71%	0.026%
135	10.646	10.631	10.659	VV	5902	74482	0.59%	0.022%
136	10.684	10.659	10.722	VV	21262	310722	2.47%	0.092%
137	10.755	10.722	10.768	VV	2462	43080	0.34%	0.013%
138	10.778	10.768	10.795	VV	1986	24682	0.20%	0.007%
139	10.812	10.795	10.831	VV	1598	27148	0.22%	0.008%
140	10.890	10.831	10.927	VV	720241	8127004	64.58%	2.400%
141	10.966	10.927	11.023	VV	654879	7033535	55.89%	2.077%
142	11.038	11.023	11.078	VV	2301	42404	0.34%	0.013%
143	11.090	11.078	11.105	VV	660	7535	0.06%	0.002%
144	11.129	11.105	11.150	PV	4563	52314	0.42%	0.015%
145	11.172	11.150	11.213	VV	12816	196418	1.56%	0.058%
146	11.245	11.213	11.261	VV	3597	73430	0.58%	0.022%
147	11.275	11.261	11.293	VV	3962	59226	0.47%	0.017%
148	11.329	11.293	11.358	VV	578350	6753197	53.66%	1.995%
149	11.373	11.358	11.384	VV	6301	82560	0.66%	0.024%
150	11.407	11.384	11.450	VV	19607	322842	2.57%	0.095%
151	11.481	11.450	11.504	VV	5331	105353	0.84%	0.031%
152	11.535	11.504	11.556	VV	14633	214811	1.71%	0.063%
153	11.575	11.556	11.600	VV	6511	102308	0.81%	0.030%
154	11.610	11.600	11.618	VV	1593	14640	0.12%	0.004%
155	11.651	11.618	11.672	VV	375383	3932998	31.25%	1.162%
156	11.686	11.672	11.702	VV	40246	462275	3.67%	0.137%
157	11.718	11.702	11.759	VV	44722	509548	4.05%	0.151%
158	11.801	11.759	11.817	VV	25407	453280	3.60%	0.134%
159	11.835	11.817	11.850	VV	36932	417621	3.32%	0.123%
160	11.867	11.850	11.894	VV	40749	485950	3.86%	0.144%
161	11.906	11.894	11.917	VV	621	5995	0.05%	0.002%
162	11.941	11.917	11.961	VV	2186	33942	0.27%	0.010%
163	12.047	11.961	12.066	PV	16201	288086	2.29%	0.085%
164	12.085	12.066	12.131	VV	8766	149248	1.19%	0.044%
165	12.156	12.131	12.174	VV	13949	177594	1.41%	0.052%
166	12.187	12.174	12.202	VV	7678	91824	0.73%	0.027%
167	12.246	12.202	12.285	VV	40955	663785	5.27%	0.196%
168	12.303	12.285	12.314	VV	5830	82883	0.66%	0.024%
169	12.333	12.314	12.351	VV	11426	167963	1.33%	0.050%
170	12.365	12.351	12.398	VV	8510	174350	1.39%	0.051%
171	12.434	12.398	12.458	VV	7970	235780	1.87%	0.070%
172	12.476	12.458	12.518	VV	14698	281745	2.24%	0.083%
173	12.542	12.518	12.565	VV	13465	202644	1.61%	0.060%
174	12.589	12.565	12.607	VV	42517	562092	4.47%	0.166%

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175	12.641	12.607	12.676	VV	572382	7095300	56.38%	2.096%
176	12.715	12.676	12.780	VV	633556	7925713	62.98%	2.341%
177	12.804	12.780	12.818	PV	4834	60071	0.48%	0.018%
178	12.841	12.818	12.874	VV	20276	340300	2.70%	0.101%
179	12.893	12.874	12.932	VV	23049	405520	3.22%	0.120%
180	12.951	12.932	12.977	VV	9663	184357	1.46%	0.054%
181	13.015	12.977	13.043	VV	632067	7814796	62.10%	2.308%
182	13.085	13.043	13.123	VV	256756	3401599	27.03%	1.005%
183	13.138	13.123	13.158	VV	4305	73768	0.59%	0.022%
184	13.178	13.158	13.198	VV	6692	116079	0.92%	0.034%
185	13.208	13.198	13.220	VV	6158	71675	0.57%	0.021%
186	13.254	13.220	13.318	VV	537471	6599620	52.44%	1.949%
187	13.336	13.318	13.373	VV	13953	216952	1.72%	0.064%
188	13.399	13.373	13.413	VV	10349	150147	1.19%	0.044%
189	13.429	13.413	13.443	VV	9538	143722	1.14%	0.042%
190	13.464	13.443	13.487	VV	18699	323034	2.57%	0.095%
191	13.497	13.487	13.538	VV	8604	159081	1.26%	0.047%
192	13.594	13.538	13.629	VV	39854	783244	6.22%	0.231%
193	13.660	13.629	13.678	VV	5786	146050	1.16%	0.043%
194	13.702	13.678	13.721	VV	18823	268613	2.13%	0.079%
195	13.742	13.721	13.764	VV	27832	374626	2.98%	0.111%
196	13.784	13.764	13.802	VV	8207	142321	1.13%	0.042%
197	13.840	13.802	13.892	VV	527131	6832633	54.29%	2.018%
198	13.912	13.892	13.944	VV	24307	325645	2.59%	0.096%
199	13.972	13.944	14.006	VV	3330	93210	0.74%	0.028%
200	14.056	14.006	14.085	VV	3500	111054	0.88%	0.033%
201	14.101	14.085	14.134	VV	2049	28342	0.23%	0.008%
202	14.179	14.134	14.192	VV	3459	58157	0.46%	0.017%
203	14.217	14.192	14.246	VV	3990	90352	0.72%	0.027%
204	14.297	14.246	14.311	VV	11073	260386	2.07%	0.077%
205	14.330	14.311	14.369	VV	18952	323024	2.57%	0.095%
206	14.432	14.369	14.480	VV	11577	432361	3.44%	0.128%
207	14.509	14.480	14.528	VV	24332	395210	3.14%	0.117%
208	14.537	14.528	14.550	VV	11504	128106	1.02%	0.038%
209	14.571	14.550	14.593	VV	28020	406970	3.23%	0.120%
210	14.634	14.593	14.668	VV	17627	353521	2.81%	0.104%
211	14.694	14.668	14.714	VV	7418	113059	0.90%	0.033%
212	14.756	14.714	14.810	VV	9407	267596	2.13%	0.079%
213	14.839	14.810	14.855	PV	12288	149992	1.19%	0.044%
214	14.895	14.855	14.914	VV	464414	6623993	52.64%	1.956%
215	14.941	14.914	15.005	VV	1015980	12584670	100.00%	3.717%
216	15.047	15.005	15.075	VV	20075	372348	2.96%	0.110%
217	15.091	15.075	15.107	VV	9132	140904	1.12%	0.042%
218	15.123	15.107	15.155	VV	6398	130154	1.03%	0.038%
219	15.194	15.155	15.222	VV	13718	296731	2.36%	0.088%
220	15.244	15.222	15.275	VV	8370	192036	1.53%	0.057%
221	15.319	15.275	15.392	VV	29940	785602	6.24%	0.232%

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222	15.462	15.392	15.495	VV	7724	239037	1.90%	0.071%
223	15.515	15.495	15.531	VV	6925	95784	0.76%	0.028%
224	15.558	15.531	15.579	VV	31534	442798	3.52%	0.131%
225	15.596	15.579	15.631	VV	15757	237716	1.89%	0.070%
226	15.723	15.631	15.761	VV	18620	694054	5.52%	0.205%
227	15.794	15.761	15.819	VV	5371	121120	0.96%	0.036%
228	15.839	15.819	15.861	VV	4752	77556	0.62%	0.023%
229	15.882	15.861	15.900	VV	5036	78151	0.62%	0.023%
230	15.967	15.900	16.014	VV	429785	5983092	47.54%	1.767%
231	16.031	16.014	16.044	VV	2907	35018	0.28%	0.010%
232	16.087	16.044	16.110	VV	2276	53531	0.43%	0.016%
233	16.163	16.110	16.183	PV	6889	150348	1.19%	0.044%
234	16.194	16.183	16.213	VV	4976	61017	0.48%	0.018%
235	16.263	16.213	16.291	VV	10223	258762	2.06%	0.076%
236	16.306	16.291	16.313	VV	7086	78004	0.62%	0.023%
237	16.330	16.313	16.347	VV	10174	170297	1.35%	0.050%
238	16.362	16.347	16.410	VV	9035	221184	1.76%	0.065%
239	16.460	16.410	16.475	VV	388657	6687784	53.14%	1.975%
240	16.492	16.475	16.521	VV	487754	5863602	46.59%	1.732%
241	16.534	16.521	16.558	VV	3654	72122	0.57%	0.021%
242	16.580	16.558	16.618	VV	17526	303449	2.41%	0.090%
243	16.630	16.618	16.656	VV	4171	74878	0.59%	0.022%
244	16.699	16.656	16.716	VV	7433	123060	0.98%	0.036%
245	16.771	16.716	16.797	VV	39550	763307	6.07%	0.225%
246	16.840	16.797	16.874	VV	458407	6174814	49.07%	1.824%
247	16.916	16.874	16.957	VV	424763	5950578	47.28%	1.758%
248	16.982	16.957	17.013	VV	8126	210430	1.67%	0.062%
249	17.080	17.013	17.114	VV	10297	429877	3.42%	0.127%
250	17.134	17.114	17.152	VV	7911	150017	1.19%	0.044%
251	17.195	17.152	17.252	VV	14593	636294	5.06%	0.188%
252	17.278	17.252	17.303	VV	11820	278896	2.22%	0.082%
253	17.326	17.303	17.338	VV	13974	240905	1.91%	0.071%
254	17.357	17.338	17.388	VV	20131	397825	3.16%	0.118%
255	17.412	17.388	17.426	VV	11028	204099	1.62%	0.060%
256	17.441	17.426	17.461	VV	10277	170578	1.36%	0.050%
257	17.487	17.461	17.513	VV	15828	342537	2.72%	0.101%
258	17.532	17.513	17.563	VV	10625	266146	2.11%	0.079%
259	17.588	17.563	17.625	VV	8221	283366	2.25%	0.084%
260	17.633	17.625	17.651	VV	7740	106857	0.85%	0.032%
261	17.671	17.651	17.681	VV	9839	153571	1.22%	0.045%
262	17.703	17.681	17.728	VV	10504	270298	2.15%	0.080%
263	17.807	17.728	17.845	VV	386260	6188839	49.18%	1.828%
264	17.894	17.845	17.909	VV	13009	418774	3.33%	0.124%
265	17.925	17.909	17.944	VV	12404	247147	1.96%	0.073%
266	17.995	17.944	18.016	VV	17402	614437	4.88%	0.181%
267	18.060	18.016	18.084	VV	14716	513671	4.08%	0.152%
268	18.107	18.084	18.133	VV	18124	459361	3.65%	0.136%
269	18.158	18.133	18.173	VV	25091	475195	3.78%	0.140%

270	18.220	18.173	18.234	VV	rteres 430452	7013637	55.73%	2.072%
271	18.253	18.234	18.308	VV	433201	6099212	48.47%	1.801%
272	18.335	18.308	18.352	VV	23993	503366	4.00%	0.149%
273	18.371	18.352	18.418	VV	22410	710442	5.65%	0.210%
274	18.476	18.418	18.528	VV	394754	6900248	54.83%	2.038%
275	18.545	18.528	18.561	VV	16270	319145	2.54%	0.094%
276	18.590	18.561	18.601	VV	23783	486377	3.86%	0.144%
277	18.638	18.601	18.674	VV	407956	6013981	47.79%	1.776%
278	18.761	18.674	18.777	VV	20821	1094910	8.70%	0.323%
279	18.798	18.777	18.833	VV	21236	651999	5.18%	0.193%
280	18.889	18.833	18.909	VV	25395	932578	7.41%	0.275%
281	18.931	18.909	18.944	VV	21643	442126	3.51%	0.131%
282	18.989	18.944	19.012	VV	34510	1172189	9.31%	0.346%
283	19.032	19.012	19.087	VV	33141	1189523	9.45%	0.351%
284	19.135	19.087	19.164	VV	28958	1159438	9.21%	0.342%
285	19.170	19.164	19.203	VV	26012	550415	4.37%	0.163%
286	19.221	19.203	19.231	VV	24955	416636	3.31%	0.123%
287	19.284	19.231	19.299	VV	27218	1044151	8.30%	0.308%
288	19.323	19.299	19.343	VV	27814	683352	5.43%	0.202%
289	19.351	19.343	19.361	VV	25813	279630	2.22%	0.083%
290	19.423	19.361	19.520	VV	383406	7915589	62.90%	2.338%
291	19.550	19.520	19.577	VV	33368	1061680	8.44%	0.314%
292	19.613	19.577	19.650	VV	47127	1637707	13.01%	0.484%
293	19.680	19.650	19.741	VV	45235	2075995	16.50%	0.613%
294	19.772	19.741	19.836	VV	43672	2259125	17.95%	0.667%
295	19.861	19.836	19.876	VV	37861	894506	7.11%	0.264%
296	19.889	19.876	19.918	VV	38407	902471	7.17%	0.267%
297	19.993	19.918	20.016	VV	51825	2412991	19.17%	0.713%
298	20.088	20.016	20.101	VV	46516	2258733	17.95%	0.667%
299	20.162	20.101	20.207	VV	383128	7779107	61.81%	2.298%
300	20.218	20.207	20.243	VV	42862	895637	7.12%	0.265%
301	20.257	20.243	20.271	VV	43080	696964	5.54%	0.206%
302	20.326	20.271	20.358	VV	52359	2474616	19.66%	0.731%
303	20.367	20.358	20.450	VV	46600	2360832	18.76%	0.697%
304	20.479	20.450	20.495	VV	40458	1074442	8.54%	0.317%
305	20.522	20.495	20.541	VV	41246	1097073	8.72%	0.324%
306	20.558	20.541	20.568	VV	41105	662145	5.26%	0.196%
307	20.591	20.568	20.603	VV	41032	860218	6.84%	0.254%
308	20.646	20.603	20.729	VV	43563	2920399	23.21%	0.863%
309	20.752	20.729	20.768	VV	32976	740441	5.88%	0.219%
310	20.852	20.768	20.861	VV	35236	1845768	14.67%	0.545%
311	20.923	20.861	21.068	VV	305726	8922134	70.90%	2.635%
312	21.081	21.068	21.097	VV	26272	455867	3.62%	0.135%
313	21.125	21.097	21.134	VV	27001	573021	4.55%	0.169%
314	21.142	21.134	21.170	VV	26196	548324	4.36%	0.162%
315	21.180	21.170	21.194	VV	26627	381656	3.03%	0.113%
316	21.247	21.194	21.297	VV	26949	1549359	12.31%	0.458%

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317	21.327	21.297	21.374	VV	23736	1042215	8.28%	0.308%
318	21.407	21.374	21.416	VV	23285	561495	4.46%	0.166%
319	21.428	21.416	21.481	VV	23941	853779	6.78%	0.252%
320	21.491	21.481	21.524	VV	20350	492476	3.91%	0.145%
321	21.538	21.524	21.554	VV	18654	327008	2.60%	0.097%
322	21.596	21.554	21.621	VV	20647	776311	6.17%	0.229%
323	21.636	21.621	21.658	VV	20225	429937	3.42%	0.127%
324	21.667	21.658	21.711	VV	18701	553602	4.40%	0.164%
325	21.741	21.711	21.790	VV	20160	808133	6.42%	0.239%
326	21.879	21.790	21.948	VV	204898	6103604	48.50%	1.803%
327	21.963	21.948	21.973	VV	13149	192659	1.53%	0.057%
328	21.985	21.973	22.001	VV	13195	210152	1.67%	0.062%
329	22.031	22.001	22.057	VV	13259	405587	3.22%	0.120%
330	22.088	22.057	22.129	VV	12185	477784	3.80%	0.141%
331	22.145	22.129	22.161	VV	10354	185977	1.48%	0.055%
332	22.177	22.161	22.201	VV	8980	205501	1.63%	0.061%
333	22.209	22.201	22.272	VV	8711	251689	2.00%	0.074%
334	22.281	22.272	22.326	VV	3043	49545	0.39%	0.015%
335	22.377	22.326	22.388	PV	1263	19854	0.16%	0.006%

Sum of corrected areas: 338563910

Aliphatic EPH 092325.M Fri Oct 03 08:48:57 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	5MSD	SDG No.:	Q3216
Lab Sample ID:	Q3216-07MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/02/25 08:40	10/02/25 17:28	PB169949

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	94.0	E	1	1.01	4.45	mg/kg	FC069917.D
Total EPH	Total EPH	94.0			1.01	4.45	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	256-258 6TH AVE PATERSON	Date Received:	
Client Sample ID:	5MSD	SDG No.:	Q3216
Lab Sample ID:	Q3216-07MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069917.D	1	10/02/25	10/02/25	PB169949

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	94.0	E	1.01	4.45	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	69.9	E	1.32	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	21.6		40 - 140	43%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	20.9		40 - 140	42%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3216-07MSD	Acq On:	02 Oct 2025 17:28
Client Sample ID:	5MSD	Operator:	YP/AJ
Data file:	FC069917.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	3.286	6.579	32543454	243.729	300	ug/ml
Aliphatic C12-C16	6.580	9.978	46401947	296.17	200	ug/ml
Aliphatic C16-C21	9.979	13.344	61031119	339.914	300	ug/ml
Aliphatic C21-C28	13.345	17.006	69563661	384.453	400	ug/ml
Aliphatic C28-C40	17.007	21.955	121106020	941.163	600	ug/ml
Aliphatic EPH	3.286	21.955	330646201	2210		ug/ml
ortho-Terphenyl (SURR)	11.651	11.651	3913529	20.89		ug/ml
1-chlorooctadecane (SURR)	13.085	13.085	3409929	21.59		ug/ml
Aliphatic C9-C28	3.286	17.006	209540181	1260	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069917.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 17:28
 Operator : YP/AJ
 Sample : Q3216-07MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
 Quant Time: Oct 03 07:57:12 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
 Quant Title : GC Extractables
 QLast Update : Tue Sep 23 14:56:40 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)	11.651	3913529	20.894 ug/ml
Spiked Amount 50.000		Recovery =	41.79%
12) S 1-chlorooctadecane (S...	13.085	3409929	21.593 ug/ml
Spiked Amount 50.000		Recovery =	43.19%
Target Compounds			
1) T n-Nonane (C9)	3.404	5573632	43.479 ug/ml
2) T n-Decane (C10)	4.469	5931765	44.640 ug/ml
3) T A~Naphthalene (C11.7)	6.059	6935720	46.721 ug/ml
4) T n-Dodecane (C12)	6.486	6444689	46.199 ug/ml
5) T A~2-methylnaphthalene...	7.117	6832694	46.278 ug/ml
6) T n-Tetradecane (C14)	8.285	6834173	46.078 ug/ml
7) T n-Hexadecane (C16)	9.886	6958645	42.167 ug/ml
8) T n-Octadecane (C18)	11.330	6786503	38.079 ug/ml
10) T n-Eicosane (C20)	12.641	7128054	39.576 ug/ml
11) T n-Heneicosane (C21)	13.253	6626996	36.753 ug/ml
13) T n-Docosane (C22)	13.840	6514371	35.857 ug/ml
14) T n-Tetracosane (C24)	14.943	12624073	68.608 ug/ml
15) T n-Hexacosane (C26)	15.967	6012758	33.117 ug/ml
16) T n-Octacosane (C28)	16.916	5853958	33.162 ug/mlm
17) T n-Tricontane (C30)	17.808	5690461	32.511 ug/ml
18) T n-Dotriacontane (C32)	18.638	5461842	33.760 ug/mlm
19) T n-Tetratriacontane (C34)	19.422	5349283	38.277 ug/mlm
20) T n-Hexatriacontane (C36)	20.163	5085709	45.046 ug/ml
21) T n-Octatriacontane (C38)	20.923	5056862	52.421 ug/mlm
22) T n-Tetracontane (C40)	21.881	4944579	57.410 ug/ml

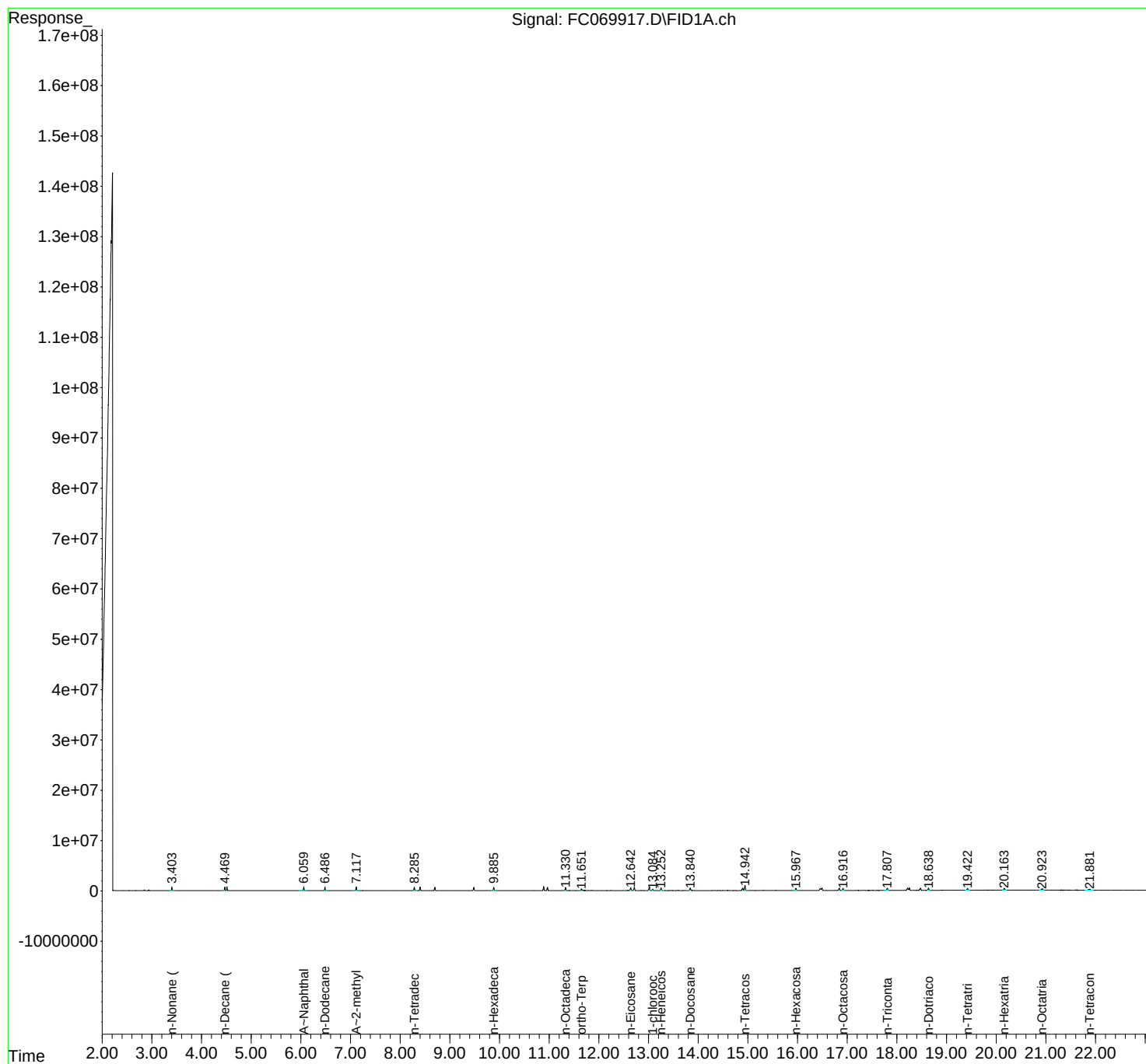
(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
Data File : FC069917.D
Signal(s) : FID1A.ch
Acq On : 02 Oct 2025 17:28
Operator : YP/AJ
Sample : Q3216-07MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 03 07:57:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100325AL\
 Data File : FC069917.D
 Signal(s) : FID1A.ch
 Acq On : 02 Oct 2025 17:28
 Sample : Q3216-07MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.205	3.246	BV	271	2921	0.02%	0.001%
2	3.259	3.246	3.277	PV	91	1305	0.01%	0.000%
3	3.303	3.277	3.349	VV	530	7735	0.06%	0.002%
4	3.356	3.349	3.370	VV	149	877	0.01%	0.000%
5	3.404	3.370	3.514	PV	676152	5618407	44.52%	1.653%
6	3.528	3.514	3.567	VV	486	10179	0.08%	0.003%
7	3.602	3.567	3.628	VV	434	9768	0.08%	0.003%
8	3.645	3.628	3.655	VV	481	4308	0.03%	0.001%
9	3.695	3.655	3.755	VV	1877	37484	0.30%	0.011%
10	3.783	3.755	3.870	VV	888	20107	0.16%	0.006%
11	3.896	3.870	3.955	VV	713	14901	0.12%	0.004%
12	3.978	3.955	4.034	VV	640	14263	0.11%	0.004%
13	4.096	4.034	4.125	PV	1396	34635	0.27%	0.010%
14	4.163	4.125	4.190	VV	672	15503	0.12%	0.005%
15	4.213	4.190	4.297	VV	4643	122411	0.97%	0.036%
16	4.307	4.297	4.359	VV	633	16398	0.13%	0.005%
17	4.393	4.359	4.415	VV	442	12060	0.10%	0.004%
18	4.469	4.415	4.491	VV	665717	5959123	47.22%	1.753%
19	4.514	4.491	4.561	VV	734053	6428521	50.94%	1.891%
20	4.573	4.561	4.597	VV	2073	29303	0.23%	0.009%
21	4.619	4.597	4.658	VV	1362	28255	0.22%	0.008%
22	4.684	4.658	4.737	VV	5798	80958	0.64%	0.024%
23	4.750	4.737	4.781	VV	771	13982	0.11%	0.004%
24	4.801	4.781	4.864	VV	1438	34576	0.27%	0.010%
25	4.883	4.864	4.897	VV	379	6516	0.05%	0.002%
26	4.919	4.897	4.972	VV	851	21670	0.17%	0.006%
27	4.977	4.972	4.986	VV	256	1856	0.01%	0.001%
28	5.019	4.986	5.042	VV	366	9013	0.07%	0.003%
29	5.059	5.042	5.081	VV	439	7426	0.06%	0.002%
30	5.108	5.081	5.131	VV	440	10946	0.09%	0.003%
31	5.158	5.131	5.172	VV	767	11729	0.09%	0.003%

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32	5.185	5.172	5.205	VV	657	8374	0.07%	0.002%
33	5.210	5.205	5.222	VV	416	3222	0.03%	0.001%
34	5.238	5.222	5.252	VV	549	6010	0.05%	0.002%
35	5.272	5.252	5.307	VV	1704	27762	0.22%	0.008%
36	5.326	5.307	5.370	VV	1239	21493	0.17%	0.006%
37	5.384	5.370	5.408	VV	375	6010	0.05%	0.002%
38	5.424	5.408	5.438	VV	733	7086	0.06%	0.002%
39	5.452	5.438	5.481	VV	975	11170	0.09%	0.003%
40	5.503	5.481	5.521	VV	2532	27558	0.22%	0.008%
41	5.556	5.521	5.591	VV	2280	43390	0.34%	0.013%
42	5.605	5.591	5.676	VV	1310	19567	0.16%	0.006%
43	5.693	5.676	5.721	PV	317	4180	0.03%	0.001%
44	5.770	5.721	5.786	VV	2866	43140	0.34%	0.013%
45	5.807	5.786	5.870	VV	4463	99173	0.79%	0.029%
46	5.894	5.870	5.975	VV	878	30139	0.24%	0.009%
47	6.012	5.975	6.027	VV	794	17018	0.13%	0.005%
48	6.059	6.027	6.129	VV	735685	6970104	55.23%	2.050%
49	6.144	6.129	6.177	VV	1297	23683	0.19%	0.007%
50	6.200	6.177	6.222	VV	778	14834	0.12%	0.004%
51	6.236	6.222	6.255	VV	485	7819	0.06%	0.002%
52	6.266	6.255	6.278	VV	393	5193	0.04%	0.002%
53	6.329	6.278	6.343	VV	902	20019	0.16%	0.006%
54	6.353	6.343	6.385	VV	678	11300	0.09%	0.003%
55	6.437	6.385	6.453	VV	1151	24664	0.20%	0.007%
56	6.486	6.453	6.537	VV	657475	6475185	51.31%	1.905%
57	6.554	6.537	6.612	VV	1760	32451	0.26%	0.010%
58	6.634	6.612	6.655	VV	772	10638	0.08%	0.003%
59	6.684	6.655	6.721	VV	656	13222	0.10%	0.004%
60	6.729	6.721	6.744	VV	217	2146	0.02%	0.001%
61	6.762	6.744	6.779	VV	378	4816	0.04%	0.001%
62	6.808	6.779	6.836	VV	2072	34728	0.28%	0.010%
63	6.859	6.836	6.878	VV	2134	33125	0.26%	0.010%
64	6.893	6.878	6.911	VV	1381	23492	0.19%	0.007%
65	6.925	6.911	6.941	VV	1419	21524	0.17%	0.006%
66	6.961	6.941	6.996	VV	5192	87387	0.69%	0.026%
67	7.020	6.996	7.045	VV	11546	136591	1.08%	0.040%
68	7.066	7.045	7.077	VV	2009	32396	0.26%	0.010%
69	7.117	7.077	7.192	VV	703501	6860741	54.37%	2.018%
70	7.207	7.192	7.226	VV	1714	27172	0.22%	0.008%
71	7.248	7.226	7.286	VV	18833	209111	1.66%	0.062%
72	7.305	7.286	7.321	VV	2343	33199	0.26%	0.010%
73	7.330	7.321	7.357	VV	1295	21383	0.17%	0.006%
74	7.378	7.357	7.391	VV	1252	18212	0.14%	0.005%
75	7.407	7.391	7.445	VV	2331	34768	0.28%	0.010%
76	7.476	7.445	7.495	VV	699	16264	0.13%	0.005%
77	7.500	7.495	7.525	VV	594	7275	0.06%	0.002%
78	7.538	7.525	7.561	VV	340	4894	0.04%	0.001%
79	7.586	7.561	7.609	PV	825	11794	0.09%	0.003%

80	7.626	7.609	7.671	VV	531	10377	0.08%	0.003%
81	7.699	7.671	7.724	VV	770	11846	0.09%	0.003%
82	7.743	7.724	7.761	VV	208	3108	0.02%	0.001%
83	7.839	7.761	7.917	PV	2599	78911	0.63%	0.023%
84	7.938	7.917	7.956	VV	1314	17695	0.14%	0.005%
85	7.999	7.956	8.021	VV	3989	95302	0.76%	0.028%
86	8.031	8.021	8.048	VV	2269	31003	0.25%	0.009%
87	8.066	8.048	8.075	VV	2419	31428	0.25%	0.009%
88	8.109	8.075	8.150	VV	6282	165375	1.31%	0.049%
89	8.166	8.150	8.180	VV	1871	27153	0.22%	0.008%
90	8.211	8.180	8.227	VV	17793	202505	1.60%	0.060%
91	8.239	8.227	8.251	VV	9395	96432	0.76%	0.028%
92	8.285	8.251	8.340	VV	632853	6888295	54.59%	2.026%
93	8.401	8.340	8.468	VV	723078	7468459	59.18%	2.197%
94	8.486	8.468	8.519	VV	5753	71233	0.56%	0.021%
95	8.535	8.519	8.591	VV	714	12076	0.10%	0.004%
96	8.645	8.591	8.663	PV	1489	25255	0.20%	0.007%
97	8.698	8.663	8.725	VV	675113	7038961	55.78%	2.071%
98	8.739	8.725	8.790	VV	4303	91549	0.73%	0.027%
99	8.810	8.790	8.838	VV	2061	37514	0.30%	0.011%
100	8.854	8.838	8.868	VV	1747	22161	0.18%	0.007%
101	8.882	8.868	8.899	VV	1568	22635	0.18%	0.007%
102	8.929	8.899	8.948	VV	5322	90423	0.72%	0.027%
103	8.965	8.948	8.987	VV	7087	84632	0.67%	0.025%
104	9.005	8.987	9.027	VV	3716	59342	0.47%	0.017%
105	9.054	9.027	9.072	VV	2769	56400	0.45%	0.017%
106	9.101	9.072	9.121	VV	7394	95245	0.75%	0.028%
107	9.141	9.121	9.178	VV	8424	118404	0.94%	0.035%
108	9.199	9.178	9.227	VV	4821	63185	0.50%	0.019%
109	9.257	9.227	9.274	VV	8410	104254	0.83%	0.031%
110	9.290	9.274	9.308	VV	6723	71958	0.57%	0.021%
111	9.342	9.308	9.362	VV	11348	150430	1.19%	0.044%
112	9.394	9.362	9.415	VV	5764	93177	0.74%	0.027%
113	9.437	9.415	9.451	VV	8506	100226	0.79%	0.029%
114	9.483	9.451	9.535	VV	662264	7103579	56.29%	2.090%
115	9.556	9.535	9.583	VV	5693	89494	0.71%	0.026%
116	9.623	9.583	9.647	VV	8876	170030	1.35%	0.050%
117	9.658	9.647	9.670	VV	3622	41968	0.33%	0.012%
118	9.689	9.670	9.715	VV	11547	148239	1.17%	0.044%
119	9.754	9.715	9.779	VV	39963	506843	4.02%	0.149%
120	9.797	9.779	9.831	VV	5327	106695	0.85%	0.031%
121	9.886	9.831	9.944	VV	628166	6973026	55.26%	2.051%
122	9.975	9.944	10.028	VV	3147	80246	0.64%	0.024%
123	10.057	10.028	10.085	VV	1930	32661	0.26%	0.010%
124	10.101	10.085	10.123	VV	2063	24423	0.19%	0.007%
125	10.170	10.123	10.202	PV	1735	41996	0.33%	0.012%
126	10.227	10.202	10.256	VV	10843	137119	1.09%	0.040%

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127	10.272	10.256	10.288	VV	1353	15596	0.12%	0.005%
128	10.332	10.288	10.343	VV	6368	105545	0.84%	0.031%
129	10.360	10.343	10.382	VV	11483	155611	1.23%	0.046%
130	10.401	10.382	10.435	VV	10074	130651	1.04%	0.038%
131	10.478	10.435	10.508	VV	9133	185780	1.47%	0.055%
132	10.532	10.508	10.582	VV	13674	242375	1.92%	0.071%
133	10.619	10.582	10.631	VV	4822	97153	0.77%	0.029%
134	10.646	10.631	10.660	VV	5999	75855	0.60%	0.022%
135	10.685	10.660	10.725	VV	21510	313092	2.48%	0.092%
136	10.755	10.725	10.797	VV	2444	71196	0.56%	0.021%
137	10.813	10.797	10.835	VV	1676	30413	0.24%	0.009%
138	10.891	10.835	10.927	VV	739614	8046215	63.76%	2.367%
139	10.967	10.927	11.024	VV	656634	6970740	55.24%	2.050%
140	11.038	11.024	11.081	VV	2349	44109	0.35%	0.013%
141	11.091	11.081	11.107	VV	1017	9162	0.07%	0.003%
142	11.129	11.107	11.150	PV	4953	54438	0.43%	0.016%
143	11.173	11.150	11.213	VV	13339	198354	1.57%	0.058%
144	11.247	11.213	11.261	VV	3628	74183	0.59%	0.022%
145	11.277	11.261	11.293	VV	4226	60647	0.48%	0.018%
146	11.330	11.293	11.358	VV	599198	6787874	53.79%	1.997%
147	11.374	11.358	11.385	VV	6332	84480	0.67%	0.025%
148	11.407	11.385	11.449	VV	20693	321938	2.55%	0.095%
149	11.481	11.449	11.505	VV	5547	106651	0.85%	0.031%
150	11.537	11.505	11.556	VV	15171	211411	1.68%	0.062%
151	11.575	11.556	11.602	VV	6446	102162	0.81%	0.030%
152	11.611	11.602	11.618	VV	1506	12108	0.10%	0.004%
153	11.651	11.618	11.672	VV	356451	3902502	30.93%	1.148%
154	11.686	11.672	11.702	VV	40068	458474	3.63%	0.135%
155	11.718	11.702	11.760	VV	43489	503138	3.99%	0.148%
156	11.802	11.760	11.818	VV	25475	447329	3.54%	0.132%
157	11.835	11.818	11.850	VV	36595	408846	3.24%	0.120%
158	11.867	11.850	11.896	VV	39772	482942	3.83%	0.142%
159	11.907	11.896	11.917	VV	544	4504	0.04%	0.001%
160	11.940	11.917	11.961	VV	2138	32383	0.26%	0.010%
161	12.000	11.961	12.011	VV	2333	49395	0.39%	0.015%
162	12.048	12.011	12.066	VV	16686	230073	1.82%	0.068%
163	12.087	12.066	12.130	VV	8859	146974	1.16%	0.043%
164	12.156	12.130	12.175	VV	14172	176742	1.40%	0.052%
165	12.188	12.175	12.202	VV	8001	92441	0.73%	0.027%
166	12.246	12.202	12.284	VV	40373	651668	5.16%	0.192%
167	12.303	12.284	12.314	VV	5859	83831	0.66%	0.025%
168	12.333	12.314	12.351	VV	11703	167644	1.33%	0.049%
169	12.366	12.351	12.378	VV	8131	102864	0.82%	0.030%
170	12.387	12.378	12.399	VV	6594	73117	0.58%	0.022%
171	12.434	12.399	12.461	VV	8156	243223	1.93%	0.072%
172	12.477	12.461	12.517	VV	15289	271988	2.16%	0.080%
173	12.542	12.517	12.566	PV	12987	205857	1.63%	0.061%
174	12.589	12.566	12.608	VV	41954	558230	4.42%	0.164%

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175	12.641	12.608	12.677	VV	570286	7125240	56.46%	2.096%
176	12.715	12.677	12.782	VV	661463	7874410	62.40%	2.316%
177	12.804	12.782	12.818	VV	4879	60179	0.48%	0.018%
178	12.841	12.818	12.874	VV	20373	342702	2.72%	0.101%
179	12.893	12.874	12.933	VV	22920	410702	3.25%	0.121%
180	12.949	12.933	12.977	VV	9886	185858	1.47%	0.055%
181	13.015	12.977	13.044	VV	625553	7776202	61.62%	2.287%
182	13.085	13.044	13.124	VV	263673	3406091	26.99%	1.002%
183	13.139	13.124	13.159	VV	4385	75267	0.60%	0.022%
184	13.179	13.159	13.195	VV	6753	111511	0.88%	0.033%
185	13.211	13.195	13.220	VV	6628	81863	0.65%	0.024%
186	13.253	13.220	13.316	VV	518439	6625342	52.50%	1.949%
187	13.336	13.316	13.375	VV	14139	226242	1.79%	0.067%
188	13.400	13.375	13.413	VV	10310	147030	1.17%	0.043%
189	13.429	13.413	13.443	VV	10150	148317	1.18%	0.044%
190	13.464	13.443	13.488	VV	17935	326074	2.58%	0.096%
191	13.497	13.488	13.539	VV	8803	160284	1.27%	0.047%
192	13.594	13.539	13.628	VV	41057	777101	6.16%	0.229%
193	13.660	13.628	13.679	VV	6339	150775	1.19%	0.044%
194	13.703	13.679	13.722	VV	19251	268983	2.13%	0.079%
195	13.742	13.722	13.765	VV	27340	372483	2.95%	0.110%
196	13.783	13.765	13.803	VV	7436	144956	1.15%	0.043%
197	13.840	13.803	13.893	VV	505764	6856635	54.34%	2.017%
198	13.912	13.893	13.941	VV	24487	321059	2.54%	0.094%
199	13.968	13.941	13.978	VV	3251	58545	0.46%	0.017%
200	13.987	13.978	14.008	VV	3340	40799	0.32%	0.012%
201	14.057	14.008	14.088	VV	3447	114818	0.91%	0.034%
202	14.103	14.088	14.138	VV	1483	27050	0.21%	0.008%
203	14.180	14.138	14.194	PV	3337	59864	0.47%	0.018%
204	14.215	14.194	14.247	VV	4405	91361	0.72%	0.027%
205	14.292	14.247	14.311	VV	11275	258469	2.05%	0.076%
206	14.330	14.311	14.368	VV	19137	322491	2.56%	0.095%
207	14.404	14.368	14.415	VV	8659	161629	1.28%	0.048%
208	14.433	14.415	14.481	VV	11436	273320	2.17%	0.080%
209	14.509	14.481	14.528	VV	24508	386252	3.06%	0.114%
210	14.536	14.528	14.551	VV	11558	136847	1.08%	0.040%
211	14.573	14.551	14.595	VV	29110	407317	3.23%	0.120%
212	14.609	14.595	14.617	VV	7987	93171	0.74%	0.027%
213	14.636	14.617	14.670	VV	18168	255305	2.02%	0.075%
214	14.695	14.670	14.715	VV	7300	110635	0.88%	0.033%
215	14.755	14.715	14.814	VV	9423	268752	2.13%	0.079%
216	14.840	14.814	14.856	PV	12307	151401	1.20%	0.045%
217	14.896	14.856	14.915	VV	478920	6635345	52.58%	1.952%
218	14.942	14.915	15.007	VV	981831	12619139	100.00%	3.712%
219	15.047	15.007	15.077	VV	19216	373077	2.96%	0.110%
220	15.092	15.077	15.110	VV	9026	147711	1.17%	0.043%
221	15.125	15.110	15.154	VV	6961	120868	0.96%	0.036%

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222	15.195	15.154	15.225	VV	13899	305572	2.42%	0.090%
223	15.244	15.225	15.281	VV	8334	199478	1.58%	0.059%
224	15.319	15.281	15.408	VV	30738	788118	6.25%	0.232%
225	15.462	15.408	15.497	VV	7969	229044	1.82%	0.067%
226	15.516	15.497	15.532	VV	7321	95900	0.76%	0.028%
227	15.559	15.532	15.580	VV	32322	448791	3.56%	0.132%
228	15.597	15.580	15.627	VV	15899	233001	1.85%	0.069%
229	15.646	15.627	15.654	VV	5744	75047	0.59%	0.022%
230	15.723	15.654	15.755	VV	19558	631943	5.01%	0.186%
231	15.796	15.755	15.821	VV	5593	140279	1.11%	0.041%
232	15.842	15.821	15.861	VV	4839	79702	0.63%	0.023%
233	15.881	15.861	15.902	VV	5207	90343	0.72%	0.027%
234	15.967	15.902	16.014	VV	444655	6012970	47.65%	1.769%
235	16.041	16.014	16.076	VV	5421	79730	0.63%	0.023%
236	16.088	16.076	16.111	VV	2893	30413	0.24%	0.009%
237	16.161	16.111	16.186	PV	6837	162079	1.28%	0.048%
238	16.197	16.186	16.214	VV	5242	61647	0.49%	0.018%
239	16.265	16.214	16.290	VV	10627	255485	2.02%	0.075%
240	16.333	16.290	16.350	VV	10211	240492	1.91%	0.071%
241	16.367	16.350	16.411	VV	9556	221897	1.76%	0.065%
242	16.461	16.411	16.476	VV	396203	6759778	53.57%	1.988%
243	16.493	16.476	16.527	VV	497941	5865848	46.48%	1.725%
244	16.581	16.527	16.608	VV	17977	333848	2.65%	0.098%
245	16.634	16.608	16.659	VV	4716	106726	0.85%	0.031%
246	16.699	16.659	16.718	VV	7045	127343	1.01%	0.037%
247	16.772	16.718	16.799	VV	37656	776481	6.15%	0.228%
248	16.842	16.799	16.871	VV	456305	6199737	49.13%	1.824%
249	16.917	16.871	16.961	VV	425341	6014847	47.66%	1.769%
250	16.982	16.961	17.018	VV	8244	209259	1.66%	0.062%
251	17.042	17.018	17.055	VV	6696	124927	0.99%	0.037%
252	17.079	17.055	17.113	VV	10542	282554	2.24%	0.083%
253	17.137	17.113	17.152	VV	7178	146343	1.16%	0.043%
254	17.200	17.152	17.254	VV	15253	621315	4.92%	0.183%
255	17.277	17.254	17.300	VV	11999	247088	1.96%	0.073%
256	17.358	17.300	17.385	VV	20269	621409	4.92%	0.183%
257	17.412	17.385	17.428	VV	10662	205468	1.63%	0.060%
258	17.442	17.428	17.460	VV	9068	149063	1.18%	0.044%
259	17.489	17.460	17.513	VV	15177	332273	2.63%	0.098%
260	17.533	17.513	17.564	VV	10284	257278	2.04%	0.076%
261	17.586	17.564	17.597	VV	7744	142275	1.13%	0.042%
262	17.613	17.597	17.648	VV	7861	217394	1.72%	0.064%
263	17.702	17.648	17.715	VV	10240	343028	2.72%	0.101%
264	17.732	17.715	17.743	VV	9187	149428	1.18%	0.044%
265	17.808	17.743	17.850	VV	409954	6158232	48.80%	1.811%
266	17.888	17.850	17.907	VV	11914	363225	2.88%	0.107%
267	17.924	17.907	17.937	VV	12772	205603	1.63%	0.060%
268	17.997	17.937	18.020	VV	15624	661296	5.24%	0.195%
269	18.063	18.020	18.085	VV	14045	462343	3.66%	0.136%

270	18.110	18.085	18.130	VV	rteres 18706	408192	3.23%	0.120%
271	18.158	18.130	18.173	VV	23545	498585	3.95%	0.147%
272	18.219	18.173	18.234	VV	418212	6970576	55.24%	2.050%
273	18.254	18.234	18.308	VV	447352	6157088	48.79%	1.811%
274	18.335	18.308	18.353	VV	23960	501719	3.98%	0.148%
275	18.371	18.353	18.424	VV	21555	808802	6.41%	0.238%
276	18.477	18.424	18.531	VV	419496	6916143	54.81%	2.034%
277	18.542	18.531	18.553	VV	17004	218021	1.73%	0.064%
278	18.591	18.553	18.602	VV	23613	579421	4.59%	0.170%
279	18.638	18.602	18.675	VV	414031	6076768	48.16%	1.788%
280	18.690	18.675	18.705	VV	16030	281818	2.23%	0.083%
281	18.763	18.705	18.775	VV	19797	754708	5.98%	0.222%
282	18.797	18.775	18.827	VV	20144	584149	4.63%	0.172%
283	18.843	18.827	18.855	VV	18843	319156	2.53%	0.094%
284	18.892	18.855	18.920	VV	24511	798389	6.33%	0.235%
285	18.935	18.920	18.945	VV	22194	318598	2.52%	0.094%
286	18.988	18.945	19.012	VV	33814	1144879	9.07%	0.337%
287	19.033	19.012	19.100	VV	32507	1359612	10.77%	0.400%
288	19.141	19.100	19.158	VV	28514	889702	7.05%	0.262%
289	19.169	19.158	19.195	VV	26642	543619	4.31%	0.160%
290	19.281	19.195	19.295	VV	27395	1528149	12.11%	0.450%
291	19.307	19.295	19.345	VV	27920	821139	6.51%	0.242%
292	19.356	19.345	19.364	VV	27687	307172	2.43%	0.090%
293	19.423	19.364	19.501	VV	395457	7712245	61.12%	2.269%
294	19.544	19.501	19.573	VV	33972	1348663	10.69%	0.397%
295	19.611	19.573	19.636	VV	47576	1440061	11.41%	0.424%
296	19.645	19.636	19.658	VV	36100	466879	3.70%	0.137%
297	19.682	19.658	19.718	VV	44597	1385938	10.98%	0.408%
298	19.726	19.718	19.730	VV	34473	242763	1.92%	0.071%
299	19.774	19.730	19.815	VV	43487	1998840	15.84%	0.588%
300	19.824	19.815	19.847	VV	38705	709035	5.62%	0.209%
301	19.877	19.847	19.887	VV	37585	872758	6.92%	0.257%
302	19.898	19.887	19.931	VV	38510	982497	7.79%	0.289%
303	19.992	19.931	20.014	VV	50490	2107683	16.70%	0.620%
304	20.057	20.014	20.073	VV	47662	1519979	12.05%	0.447%
305	20.094	20.073	20.117	VV	46195	1211686	9.60%	0.356%
306	20.163	20.117	20.213	VV	389443	7564366	59.94%	2.225%
307	20.226	20.213	20.231	VV	42543	464297	3.68%	0.137%
308	20.328	20.231	20.349	VV	54379	3367909	26.69%	0.991%
309	20.390	20.349	20.458	VV	52549	3103089	24.59%	0.913%
310	20.479	20.458	20.495	VV	41754	895609	7.10%	0.263%
311	20.578	20.495	20.611	VV	43591	2953144	23.40%	0.869%
312	20.650	20.611	20.733	VV	44078	2872698	22.76%	0.845%
313	20.749	20.733	20.765	VV	32008	587892	4.66%	0.173%
314	20.774	20.765	20.781	VV	30692	310934	2.46%	0.091%
315	20.923	20.781	21.107	VV	301319	11221720	88.93%	3.301%
316	21.128	21.107	21.158	VV	28789	856893	6.79%	0.252%

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317	21.168	21.158	21.177	VV	27347	316754	2.51%	0.093%
318	21.204	21.177	21.224	VV	29359	788509	6.25%	0.232%
319	21.233	21.224	21.261	VV	28135	599916	4.75%	0.176%
320	21.275	21.261	21.295	VV	25229	486602	3.86%	0.143%
321	21.336	21.295	21.358	VV	24539	900714	7.14%	0.265%
322	21.422	21.358	21.449	VV	25271	1315863	10.43%	0.387%
323	21.475	21.449	21.508	VV	22512	749583	5.94%	0.220%
324	21.522	21.508	21.541	VV	20360	397414	3.15%	0.117%
325	21.555	21.541	21.568	VV	19811	302972	2.40%	0.089%
326	21.597	21.568	21.619	VV	21150	615398	4.88%	0.181%
327	21.636	21.619	21.679	VV	20806	696214	5.52%	0.205%
328	21.687	21.679	21.699	VV	18533	214293	1.70%	0.063%
329	21.708	21.699	21.717	VV	17446	184279	1.46%	0.054%
330	21.732	21.717	21.784	VV	18132	643582	5.10%	0.189%
331	21.881	21.784	21.960	VV	207255	6219402	49.29%	1.829%
332	21.970	21.960	22.007	VV	13448	358151	2.84%	0.105%
333	22.015	22.007	22.021	VV	12295	100999	0.80%	0.030%
334	22.039	22.021	22.062	VV	12738	306423	2.43%	0.090%
335	22.102	22.062	22.166	VV	13136	715481	5.67%	0.210%
336	22.193	22.166	22.295	VV	9443	486063	3.85%	0.143%
337	22.300	22.295	22.338	VV	2795	32041	0.25%	0.009%
					Sum of corrected areas:	339958176		

Aliphatic EPH 092325.M Fri Oct 03 08:57:25 2025



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

Manual Integration Report

Sequence:

FC092325AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	FC100325AL	Instrument	FID_c
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC069910.D	n-Dotriacontane (C32)	yogesh	10/3/2025 9:34:49 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069910.D	n-Hexatriacontane (C36)	yogesh	10/3/2025 9:34:49 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069910.D	n-Octatriacontane (C38)	yogesh	10/3/2025 9:34:49 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069910.D	n-Tetratriacontane (C34)	yogesh	10/3/2025 9:34:49 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
Q3216-07MS	FC069916.D	n-Docosane (C22)	yogesh	10/3/2025 9:34:51 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
Q3216-07MS	FC069916.D	n-Dotriacontane (C32)	yogesh	10/3/2025 9:34:51 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
Q3216-07MS	FC069916.D	n-Octacosane (C28)	yogesh	10/3/2025 9:34:51 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
Q3216-07MSD	FC069917.D	n-Dotriacontane (C32)	yogesh	10/3/2025 9:34:52 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
Q3216-07MSD	FC069917.D	n-Octacosane (C28)	yogesh	10/3/2025 9:34:52 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
Q3216-07MSD	FC069917.D	n-Octatriacontane (C38)	yogesh	10/3/2025 9:34:52 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
Q3216-07MSD	FC069917.D	n-Tetratriacontane (C34)	yogesh	10/3/2025 9:34:52 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069919.D	n-Dotriacontane (C32)	yogesh	10/3/2025 9:34:53 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069919.D	n-Octatriacontane (C38)	yogesh	10/3/2025 9:34:53 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software

Manual Integration Report

Sequence:

FC100325AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169949BS	FC069921.D	n-Dotriacontane (C32)	yogesh	10/3/2025 9:34:56 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
PB169949BS	FC069921.D	n-Octacosane (C28)	yogesh	10/3/2025 9:34:56 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
PB169949BS	FC069921.D	n-Octatriacontane (C38)	yogesh	10/3/2025 9:34:56 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
PB169949BS	FC069921.D	n-Tetracontane (C40)	yogesh	10/3/2025 9:34:56 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
PB169949BS	FC069921.D	n-Tetratriacontane (C34)	yogesh	10/3/2025 9:34:56 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
PB169949BSD	FC069922.D	n-Dotriacontane (C32)	yogesh	10/3/2025 9:34:58 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
PB169949BSD	FC069922.D	n-Octacosane (C28)	yogesh	10/3/2025 9:34:58 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
PB169949BSD	FC069922.D	n-Octatriacontane (C38)	yogesh	10/3/2025 9:34:58 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
PB169949BSD	FC069922.D	n-Tetratriacontane (C34)	yogesh	10/3/2025 9:34:58 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069924.D	n-Dotriacontane (C32)	yogesh	10/3/2025 9:35:00 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069924.D	n-Octatriacontane (C38)	yogesh	10/3/2025 9:35:00 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC069924.D	n-Tetracontane (C40)	yogesh	10/3/2025 9:35:00 AM	mohammad	10/4/2025 6:32:54	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FC100325AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC092325AL

Review By	yogesh	Review On	9/23/2025 12:34:12 PM
Supervise By	mohammad	Supervise On	9/25/2025 2:25:00 AM
SubDirectory	FC092325AL	HP Acquire Method	HP Processing Method FC092325AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069823.D	23 Sep 2025 09:03	YP/AJ	Ok
2	I.BLK	FC069824.D	23 Sep 2025 09:47	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC069825.D	23 Sep 2025 10:31	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC069826.D	23 Sep 2025 11:16	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC069827.D	23 Sep 2025 12:02	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC069828.D	23 Sep 2025 12:47	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC069829.D	23 Sep 2025 13:33	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC069830.D	23 Sep 2025 14:19	YP/AJ	Ok
9	I.BLK	FC069831.D	23 Sep 2025 15:05	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069832.D	23 Sep 2025 15:53	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100325AL

Review By	yogesh	Review On	10/2/2025 1:45:28 PM
Supervise By	mohammad	Supervise On	10/4/2025 6:32:54 AM
SubDirectory	FC100325AL	HP Acquire Method	HP Processing Method FC092325AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069908.D	02 Oct 2025 08:21	YP/AJ	Ok
2	I.BLK	FC069909.D	02 Oct 2025 09:00	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069910.D	02 Oct 2025 09:40	YP/AJ	Ok,M
4	Q3216-03	FC069911.D	02 Oct 2025 13:09	YP/AJ	Ok
5	Q3216-04	FC069912.D	02 Oct 2025 13:52	YP/AJ	Ok
6	Q3216-05	FC069913.D	02 Oct 2025 14:35	YP/AJ	Ok
7	Q3216-06	FC069914.D	02 Oct 2025 15:18	YP/AJ	Ok
8	Q3216-07	FC069915.D	02 Oct 2025 16:01	YP/AJ	Ok
9	Q3216-07MS	FC069916.D	02 Oct 2025 16:44	YP/AJ	Ok,M
10	Q3216-07MSD	FC069917.D	02 Oct 2025 17:28	YP/AJ	Ok,M
11	I.BLK	FC069918.D	02 Oct 2025 18:55	YP/AJ	Ok
12	20 PPM ALIPHATIC HC STD	FC069919.D	02 Oct 2025 20:19	YP/AJ	Ok,M
13	PB169949BL	FC069920.D	02 Oct 2025 21:02	YP/AJ	Ok
14	PB169949BS	FC069921.D	02 Oct 2025 21:44	YP/AJ	Ok,M
15	PB169949BSD	FC069922.D	02 Oct 2025 22:25	YP/AJ	Ok,M
16	I.BLK	FC069923.D	02 Oct 2025 23:48	YP/AJ	Ok
17	20 PPM ALIPHATIC HC STD	FC069924.D	03 Oct 2025 01:49	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC092325AL

Review By	yogesh	Review On	9/23/2025 12:34:12 PM
Supervise By	mohammad	Supervise On	9/25/2025 2:25:00 AM
SubDirectory	FC092325AL	HP Acquire Method	HP Processing Method FC092325AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069823.D	23 Sep 2025 09:03		YP/AJ	Ok
2	I.BLK	I.BLK	FC069824.D	23 Sep 2025 09:47		YP/AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FC069825.D	23 Sep 2025 10:31		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC069826.D	23 Sep 2025 11:16		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069827.D	23 Sep 2025 12:02		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC069828.D	23 Sep 2025 12:47		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC069829.D	23 Sep 2025 13:33		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069830.D	23 Sep 2025 14:19		YP/AJ	Ok
9	I.BLK	I.BLK	FC069831.D	23 Sep 2025 15:05		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069832.D	23 Sep 2025 15:53		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100325AL

Review By	yogesh	Review On	10/2/2025 1:45:28 PM
Supervise By	mohammad	Supervise On	10/4/2025 6:32:54 AM
SubDirectory	FC100325AL	HP Acquire Method	HP Processing Method FC092325AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069908.D	02 Oct 2025 08:21		YP/AJ	Ok
2	I.BLK	I.BLK	FC069909.D	02 Oct 2025 09:00		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069910.D	02 Oct 2025 09:40		YP/AJ	Ok,M
4	Q3216-03	1	FC069911.D	02 Oct 2025 13:09		YP/AJ	Ok
5	Q3216-04	2	FC069912.D	02 Oct 2025 13:52		YP/AJ	Ok
6	Q3216-05	3	FC069913.D	02 Oct 2025 14:35		YP/AJ	Ok
7	Q3216-06	4	FC069914.D	02 Oct 2025 15:18		YP/AJ	Ok
8	Q3216-07	5	FC069915.D	02 Oct 2025 16:01		YP/AJ	Ok
9	Q3216-07MS	5MS	FC069916.D	02 Oct 2025 16:44	FC069915.D	YP/AJ	Ok,M
10	Q3216-07MSD	5MSD	FC069917.D	02 Oct 2025 17:28	FC069915.D!FC069916.D	YP/AJ	Ok,M
11	I.BLK	I.BLK	FC069918.D	02 Oct 2025 18:55		YP/AJ	Ok
12	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069919.D	02 Oct 2025 20:19		YP/AJ	Ok,M
13	PB169949BL	PB169949BL	FC069920.D	02 Oct 2025 21:02		YP/AJ	Ok
14	PB169949BS	PB169949BS	FC069921.D	02 Oct 2025 21:44		YP/AJ	Ok,M
15	PB169949BSD	PB169949BSD	FC069922.D	02 Oct 2025 22:25		YP/AJ	Ok,M
16	I.BLK	I.BLK	FC069923.D	02 Oct 2025 23:48		YP/AJ	Ok
17	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069924.D	03 Oct 2025 01:49		YP/AJ	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: rubina
Date: 9/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 09/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN #1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 09:20
Out Date: 09/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB137341

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
Q3215-01	WASTE	1	1.18	10.23	11.41	10.44	90.5	
Q3216-01	WASTE	2	1.19	10.62	11.81	10.67	89.3	
Q3216-02	VOC	3	1.19	10.50	11.69	10.44	88.1	
Q3216-03	1	4	1.16	10.34	11.5	10.53	90.6	
Q3216-04	2	5	1.16	10.69	11.85	10.81	90.3	
Q3216-05	3	6	1.15	10.36	11.51	10.5	90.3	
Q3216-06	4	7	1.18	10.51	11.69	10.72	90.8	
Q3216-07	5	8	1.19	10.41	11.6	10.52	89.6	
Q3220-01	OR-03-092625	9	1.18	10.87	12.05	10.76	88.1	
Q3220-02	OR-03-092625-E2	10	1.16	10.65	11.81	10.54	88.1	
Q3221-01	HD-01-092625	11	1.13	10.49	11.62	10.53	89.6	
Q3221-02	HD-01-092625-E2	12	1.18	10.45	11.63	10.18	86.1	
Q3222-01	SU-03-092625	13	1.19	10.31	11.5	10.46	89.9	
Q3222-02	SU-03-092625-E2	14	1.13	10.77	11.9	10.77	89.5	
Q3223-01	917	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3223-02	917-A	16	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3223-03	2027	17	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3223-04	2028	18	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3224-01	60159	19	1.00	1.00	2.00	2.00	100.0	oil sample
Q3225-01	60052	20	1.00	1.00	2.00	2.00	100.0	oil sample
Q3226-05	SVOC-GPC-BLANK	21	1.00	1.00	2.00	2.00	100.0	
Q3226-06	PEST-GPC-BLANK	22	1.00	1.00	2.00	2.00	100.0	
Q3226-07	PEST-GPC-BLANK-SPIKE	23	1.00	1.00	2.00	2.00	100.0	
Q3226-09	PEST-GPC2-BLANK	24	1.00	1.00	2.00	2.00	100.0	
Q3226-10	PEST -GPC2-BLANK-SPIKE	25	1.00	1.00	2.00	2.00	100.0	
Q3230-01	WALL-PROBE-BRICK-1	26	1.14	10.40	11.54	9.81	83.4	
Q3231-01	WC-1	27	1.12	10.62	11.74	10.08	84.4	
Q3231-02	WC-1-EPH	28	1.14	10.31	11.45	10.04	86.3	



PERCENT SOLID

Supervisor: Iwona
Analyst: rubina
Date: 9/29/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 09/26/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN #1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 09:20
Out Date: 09/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB137341

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
Q3231-03	WC-1-VOC	29	1.12	11.52	12.64	10.63	82.6	
Q3231-05	WC-2	30	1.19	10.17	11.36	9.7	83.7	
Q3231-06	WC-2-EPH	31	1.18	10.31	11.49	9.78	83.4	
Q3231-07	WC-2-VOC	32	1.19	10.83	12.02	10.37	84.8	
Q3231-09	WC-3	33	1.15	10.00	11.15	9.88	87.3	
Q3231-10	WC-3-EPH	34	1.16	10.34	11.5	10.15	86.9	
Q3231-11	WC-3-VOC	35	1.17	11.06	12.23	10.57	85.0	
Q3231-13	WC-4	36	1.16	10.79	11.95	10.81	89.4	
Q3231-14	WC-4-EPH	37	1.13	11.90	13.03	10.87	81.8	
Q3231-15	WC-4-VOC	38	1.14	11.74	12.88	11.3	86.5	
Q3232-01	CONC-1	39	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3233-01	0926-01	40	1.18	11.05	12.23	12.11	98.9	

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

WORKLIST(Hardcopy Internal Chain)

89 137361

WorkList Name : %1-092625

WorkList ID : 192106

Department : Wet-Chemistry

Date : 09-26-2025 08:04:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3215-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3216-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3220-01	OR-03-092625	Solid	Percent Solids	Cool 4 deg C	SCIA01	J41	09/25/2025	Chemtech -SO
Q3220-02	OR-03-092625-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3221-01	HD-01-092625	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3221-02	HD-01-092625-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3222-01	SU-03-092625	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3222-02	SU-03-092625-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	09/26/2025	Chemtech -SO
Q3223-01	917	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3223-02	917-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3223-03	2027	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3223-04	2028	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3224-01	60159	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3225-01	60052	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3226-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO

Date/Time 09/26/25 15:10

Raw Sample Received by: JF Cull

Raw Sample Relinquished by: Rm 8m

Date/Time 09/26/25

Raw Sample Received by: Rm 8m

Raw Sample Relinquished by: JF Cull

WORKLIST(Hardcopy Internal Chain)

177341

WorkList Name : %1-092625

WorkList ID : 192106

Department : Wet-Chemistry

Date : 09-26-2025 08:04:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3226-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO
Q3226-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO
Q3226-09	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO
Q3226-10	PEST -GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	ALLI03	A12	09/19/2025	Chemtech -SO
Q3230-01	WALL-PROBE-BRICK-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-05	WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-06	WC-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-07	WC-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-09	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-10	WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-11	WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-13	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-14	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3231-15	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3232-01	CONC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO
Q3233-01	0926-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/26/2025	Chemtech -SO

Date/Time 09/26/25 15:10

Raw Sample Received by: SP CUDC

Raw Sample Relinquished by: RM SM

Date/Time 09/26/25

Raw Sample Received by: RM SM

Raw Sample Relinquished by: SP CUDC

SOP ID:	MNJDEP-EPH-8		
Clean Up SOP #:	N/A	Extraction Start Date :	10/02/2025
Matrix :	Solid	Extraction Start Time :	08:40
Weigh By:	EH	Extraction By:	RJ
Balance check:	EH	Extraction End Date :	10/02/2025
Balance ID:	EX-SC-2	Filter By:	RJ
pH Strip Lot#:	N/A	Extraction End Time :	12:00
		pH Meter ID:	N/A
		Concentration By:	EH
		Supervisor By :	ritesh
Extraction Method:	☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24918
Surrogate	1.0ML	100 PPM	PP24941
N/A	N/A	N/A	N/A
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	EP2641
Baked Na2SO4	N/A	EP2646
Sand	N/A	E3951
Methylene Chloride	N/A	E3973
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

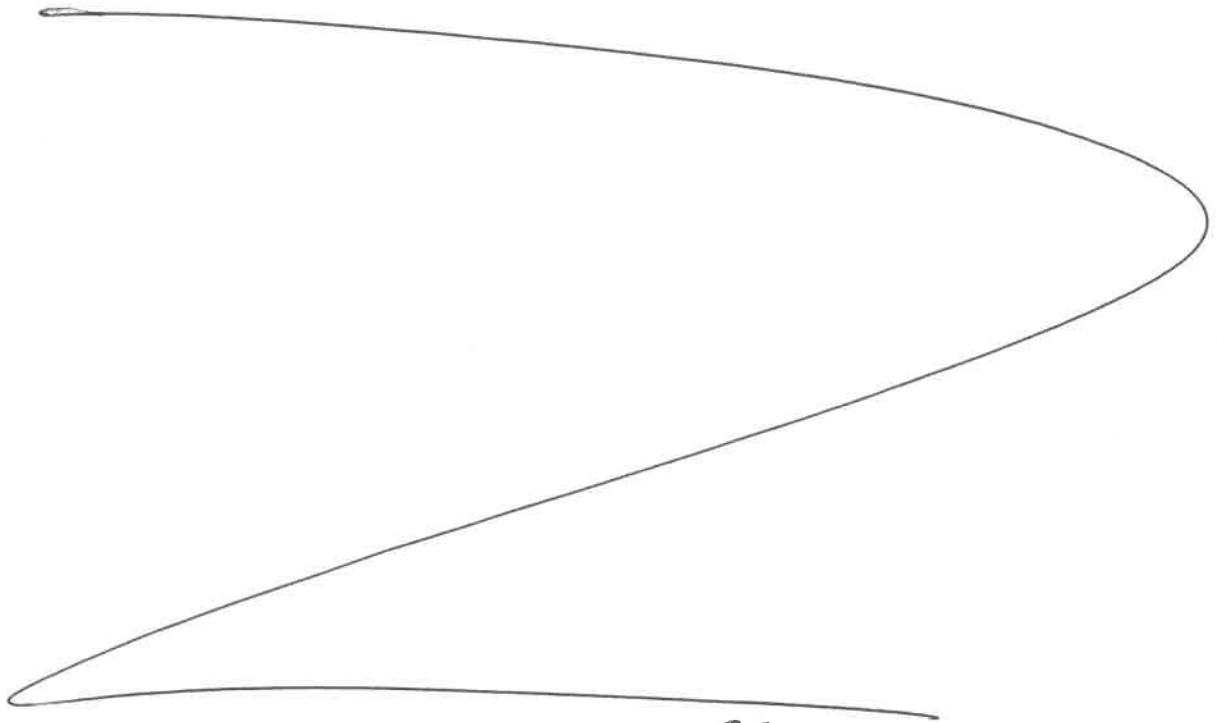
KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/02/25	RJ (Elt-1 lab)	Y.P. Pesthy
12:05	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

Concentration Date: 10/02/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169949BL	PB169949BL	EPH_F2	30.02	N/A	ritesh	Evelyn	2			U2-1
PB169949BS	PB169949BS	EPH_F2	30.03	N/A	ritesh	Evelyn	2			2
PB169949BSD	PB169949BSD	EPH_F2	30.01	N/A	ritesh	Evelyn	2			3
Q3216-03	1	EPH_F2	30.03	N/A	ritesh	Evelyn	2			4
Q3216-04	2	EPH_F2	30.08	N/A	ritesh	Evelyn	2			5
Q3216-05	3	EPH_F2	30.06	N/A	ritesh	Evelyn	2			6
Q3216-06	4	EPH_F2	30.05	N/A	ritesh	Evelyn	2			U3-1
Q3216-07	5	EPH_F2	30.02	N/A	ritesh	Evelyn	2			2
Q3216-07MS	5MS	EPH_F2	30.07	N/A	ritesh	Evelyn	2			3
Q3216-07MS D	5MSD	EPH_F2	30.04	N/A	ritesh	Evelyn	2			4



RS
10/02

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3216 WorkList ID : 192231 Department : Extraction Date : 10-02-2025 08:35:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3216-03	1	Solid	EPH_F2	Cool 4 deg C	SCIA01	J41	09/25/2025	NJEPH
Q3216-04	2	Solid	EPH_F2	Cool 4 deg C	SCIA01	J41	09/25/2025	NJEPH
Q3216-05	3	Solid	EPH_F2	Cool 4 deg C	SCIA01	J41	09/25/2025	NJEPH
Q3216-06	4	Solid	EPH_F2	Cool 4 deg C	SCIA01	J41	09/25/2025	NJEPH
Q3216-07	5	Solid	EPH_F2	Cool 4 deg C	SCIA01	J41	09/25/2025	NJEPH

Date/Time 10/02/25 8:35
 Raw Sample Received by: R3 LEXA-1060
 Raw Sample Relinquished by: [Signature]

Date/Time 10/02/25 18:50
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: R3 LEXA-1060

Prep Standard - Chemical Standard Summary

Order ID : Q3216

Test : EPH_F2

Prepbatch ID : PB169949,

Sequence ID/Qc Batch ID: FC100325AL,

Standard ID :

EP2641,EP2646,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24918,PP24941,

Chemical ID :

E3875,E3951,E3956,E3972,E3973,P12364,P13280,P13281,P13620,P13690,P14029,P14030,P14031,P14032,P14074,
P14075,P14076,P14077,P14078,P14079,P14080,P14081,P14082,P14083,P14094,P14095,P14096,P14097,P14098,P
14099,P14100,P14101,P14102,P14103,P14147,P14148,P14149,P14150,W3234,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2641	09/16/2025	03/16/2026	Evelyn Huang	None	None	Riteshkumar Patel
09/16/2025								

FROM 8000.00000ml of E3972 + 8000.00000ml of E3973 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2646	09/26/2025	01/28/2026	Evelyn Huang	Extraction_SC ALE_2	None	Riteshkumar Patel
(EX-SC-2)								

FROM 4000.00000gram of E3875 = 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>
781	100 PPM Aliphatic HC Working STD (Restek)	PP24768	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.25000ml of P13620 + 0.25000ml of P13690 + 1.25000ml of P12364 + 23.25000ml of E3956 = Final Quantity: 25.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2900	100 PPM Aliphatic HC STD (Absolute)	PP24769	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.22000ml of P13690 + 0.25000ml of P13620 + 1.25000ml of P13280 + 1.25000ml of P13281 + 22.00000ml of E3956 = Final Quantity: 25.000 ml								

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	PP24770	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.50000ml of W3234 + 0.50000ml of PP24768 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
784	20 PPM Aliphatic HC STD	PP24771	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24768 = Final Quantity: 1.000 ml

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	PP24772	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24768 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
786	5 PPM Aliphatic HC STD	PP24773	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24770 = Final Quantity: 1.000 ml

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)	PP24774	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24769 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1330	100 PPM NJEPH Spike Solution	PP24918	09/02/2025	03/02/2026	Abdul Mirza	None	None	Yogesh Patel
								09/17/2025

FROM 5.00000ml of P14074 + 5.00000ml of P14075 + 5.00000ml of P14076 + 5.00000ml of P14077 + 5.00000ml of P14078 + 5.00000ml of P14079 + 5.00000ml of P14080 + 5.00000ml of P14081 + 5.00000ml of P14082 + 5.00000ml of P14083 + 5.00000ml of P14094 + 5.00000ml of P14095 + 5.00000ml of P14096 + 5.00000ml of P14097 + 5.00000ml of P14098 + 5.00000ml of P14099 + 5.00000ml of P14100 + 5.00000ml of P14101 + 5.00000ml of P14102 + 5.00000ml of P14103 = Final Quantity: 100.000 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	PP24941	09/24/2025	03/24/2026	Abdul Mirza	None	None	Yogesh Patel 10/03/2025
<u>FROM</u>	1.25000ml of P14029 + 1.25000ml of P14030 + 1.25000ml of P14031 + 1.25000ml of P14032 + 1.25000ml of P14147 + 1.25000ml of P14148 + 1.25000ml of P14149 + 1.25000ml of P14150 + 490.00000ml of E3972 = Final Quantity: 500.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/16/2025 / RUPESH	07/16/2025 / RUPESH	E3956

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

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)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	02/01/2026	08/01/2025 / yogesh	03/16/2023 / Yogesh	P12364

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13280

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13281

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13690

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14030

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	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14031

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14032

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14074

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14075

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14076

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14077

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14078

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14079

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14080

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14081

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14082

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	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14083

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	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14094

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14095

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14096

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14098

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14099

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	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14100

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14102

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14147

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14148

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	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	07/28/2025 / jignesh	07/25/2025 / jignesh	W3234



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

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875



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.

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

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

E3972

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

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

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) CAS # 111-84-2 Purity 99% (Lot SHBN5361)	2,014.0 µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99% (Lot SHBN8619)	2,014.7 µg/mL	+/- 11.8232 +/- 50.0193 +/- 59.9689	µg/mL Gravimetric Unstressed Stressed
3	Naphthalene CAS # 91-20-3 Purity 99% (Lot MKCH0219)	2,015.3 µg/mL	+/- 11.8271 +/- 50.0358 +/- 59.9888	µg/mL Gravimetric Unstressed Stressed
4	n-Dodecane (C12) CAS # 112-40-3 Purity 99% (Lot SHBN7174)	2,008.0 µg/mL	+/- 11.7841 +/- 49.8538 +/- 59.7705	µg/mL Gravimetric Unstressed Stressed
5	2-Methylnaphthalene CAS # 91-57-6 Purity 96% (Lot STBK0259)	2,007.0 µg/mL	+/- 11.7784 +/- 49.8299 +/- 59.7419	µg/mL Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) CAS # 629-59-4 Purity 99% (Lot STBK2282)	2,016.7 µg/mL	+/- 11.8349 +/- 50.0689 +/- 60.0284	µg/mL Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) CAS # 544-76-3 Purity 98% (Lot SHBM4146)	2,014.9 µg/mL	+/- 11.8244 +/- 50.0246 +/- 59.9753	µg/mL Gravimetric Unstressed Stressed

8	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	2,004.7 µg/mL	+/-	11.7645	µg/mL	Gravimetric
				+/-	49.7710	µg/mL	Unstressed
				+/-	59.6712	µg/mL	Stressed
9	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	(Lot MKCF7888)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
10	n-Heneicosane (C21) CAS # 629-94-7 Purity 99%	(Lot MKCL3226)	2,000.7 µg/mL	+/-	11.7410	µg/mL	Gravimetric
				+/-	49.6717	µg/mL	Unstressed
				+/-	59.5522	µg/mL	Stressed
11	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	2,005.3 µg/mL	+/-	11.7684	µg/mL	Gravimetric
				+/-	49.7876	µg/mL	Unstressed
				+/-	59.6911	µg/mL	Stressed
12	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
13	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	2,014.0 µg/mL	+/-	11.8193	µg/mL	Gravimetric
				+/-	50.0027	µg/mL	Unstressed
				+/-	59.9491	µg/mL	Stressed
14	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	2,002.0 µg/mL	+/-	11.7489	µg/mL	Gravimetric
				+/-	49.7048	µg/mL	Unstressed
				+/-	59.5919	µg/mL	Stressed
15	n-Triacontane (C30) CAS # 638-68-6 Purity 97%	(Lot MKCQ9436)	2,011.1 µg/mL	+/-	11.8025	µg/mL	Gravimetric
				+/-	49.9316	µg/mL	Unstressed
				+/-	59.8637	µg/mL	Stressed
16	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	2,012.0 µg/mL	+/-	11.8075	µg/mL	Gravimetric
				+/-	49.9531	µg/mL	Unstressed
				+/-	59.8895	µg/mL	Stressed
17	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	2,006.7 µg/mL	+/-	11.7762	µg/mL	Gravimetric
				+/-	49.8207	µg/mL	Unstressed
				+/-	59.7308	µg/mL	Stressed
18	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot Z27H018)	2,017.3 µg/mL	+/-	11.8388	µg/mL	Gravimetric
				+/-	50.0855	µg/mL	Unstressed
				+/-	60.0483	µg/mL	Stressed
19	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 96%	(Lot 0000145137)	2,017.3 µg/mL	+/-	11.8385	µg/mL	Gravimetric
				+/-	50.0842	µg/mL	Unstressed
				+/-	60.0467	µg/mL	Stressed
20	n-Tetracontane (C40) CAS # 4181-95-7 Purity 99%	(Lot BSBME)	2,008.7 µg/mL	+/-	11.7880	µg/mL	Gravimetric
				+/-	49.8703	µg/mL	Unstressed
				+/-	59.7903	µg/mL	Stressed
Solvent: Hexane/Carbon disulfide (80:20)							
	CAS # 110-54-3/75-15-0						
	Purity 99%						

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

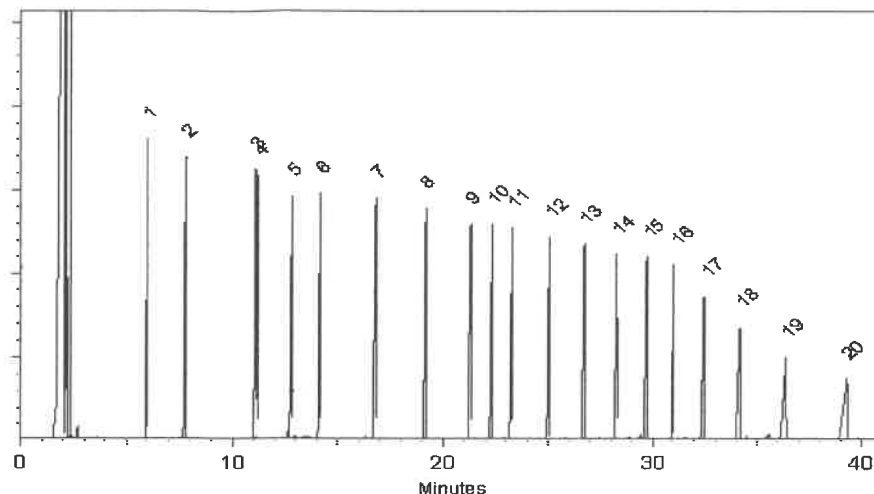
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

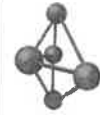
- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

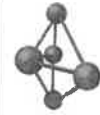
Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

P13278
Y.P.
P13287
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information		
															(Solvent Safety Info. On Attached pg.)	CAS#	LD50
1. 2-Methylnaphthalene	(0214)	MKB3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	or-rat 1630mg/kg
2. Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m2/8H)	or-rat 490mg/kg
3. n-Nonane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m3/8H)	ivn-mus 218mg/kg
4. n-Decane	95708	120222	1.00	25.00	1000.9	1000	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5. n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6. n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7. n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8. n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.1	583-45-3	N/A	N/A
9. n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10. n-Henicosane	95708	120222	1.00	25.00	1002.4	1000	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11. n-Docosane	95708	120222	1.00	25.00	1001.9	1000	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12. n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13. n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14. n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15. n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16. n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17. n-Tetraatriacontane	95708	120222	1.00	25.00	1000.4	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18. n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-06-8	N/A	N/A
19. n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A	N/A
20. n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyal, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
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#	LD50
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H) orl-rat 490mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000.9	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	ivn-mus 218mg/kg
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1002.1	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	ivn-mus 3494mg/kg
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	0.013	NA	NA	NA	1000.3	4.1	583-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1002.4	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1001.9	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Triacosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1001.2	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetraacontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1001.5	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-08-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000.6	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

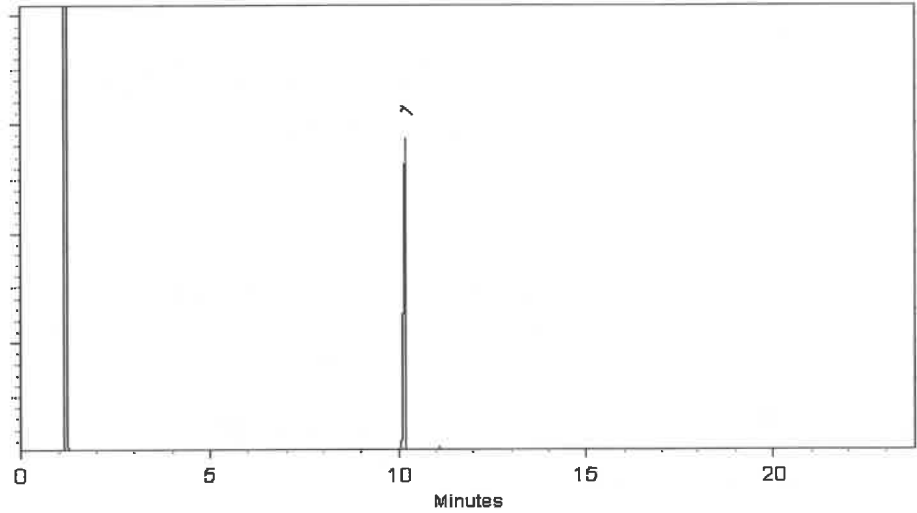
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

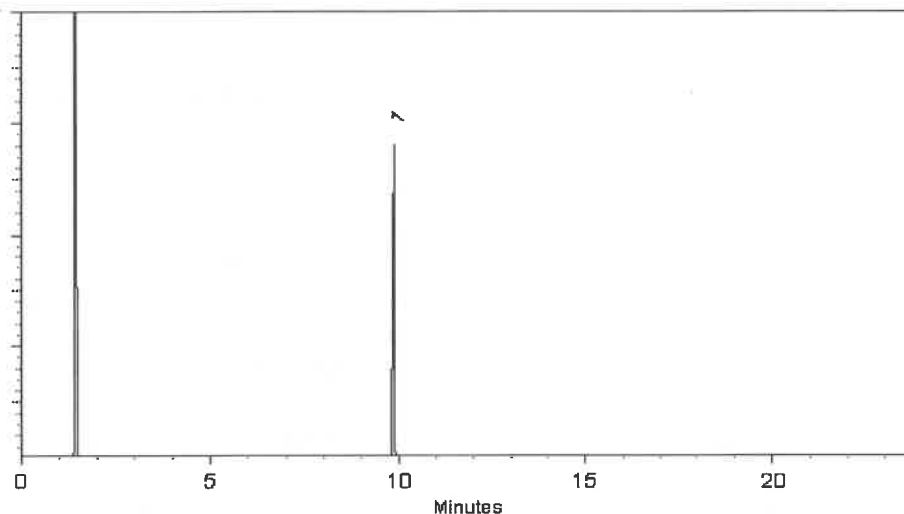
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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.:** A0225485
Description : 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2032 **Storage:** 10°C or colder
Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

* 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:

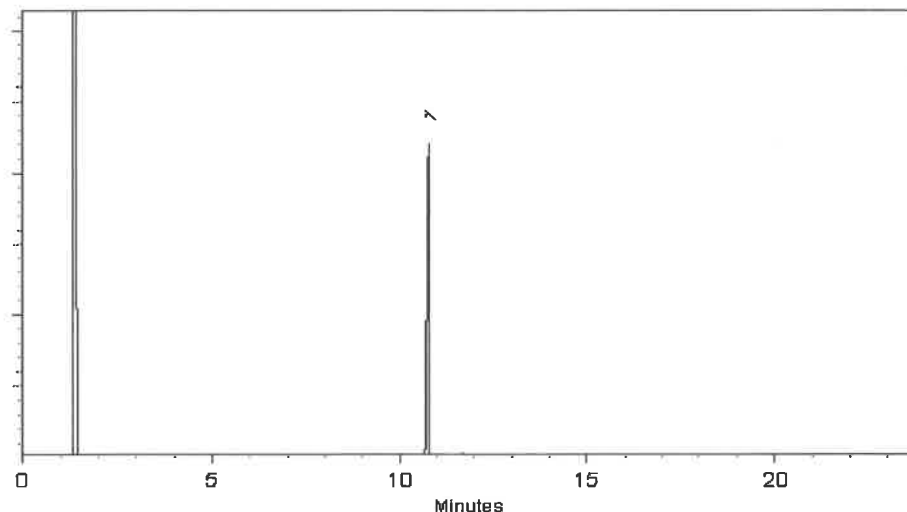
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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



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

Catalog No. : 31098 **Lot No.:** A0225485
Description : 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2032 **Storage:** 10°C or colder
Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

* 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:

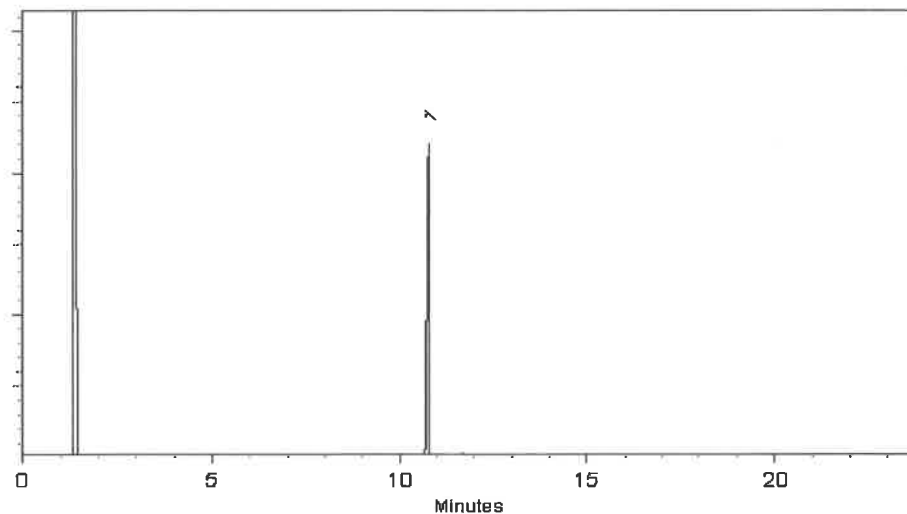
FID

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.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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



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

Catalog No. : 31098 **Lot No.:** A0225485
Description : 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2032 **Storage:** 10°C or colder
Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

* 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:

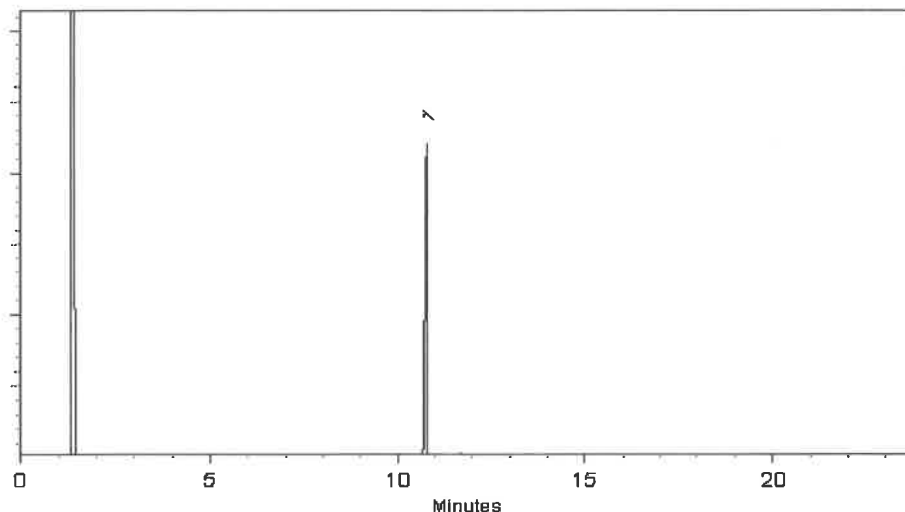
FID

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.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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



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Catalog No. : 31098 **Lot No.:** A0225485
Description : 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2032 **Storage:** 10°C or colder
Ship: Ambient

P14028 } RC/
↓
P14042 } 6/2/25

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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

* 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:

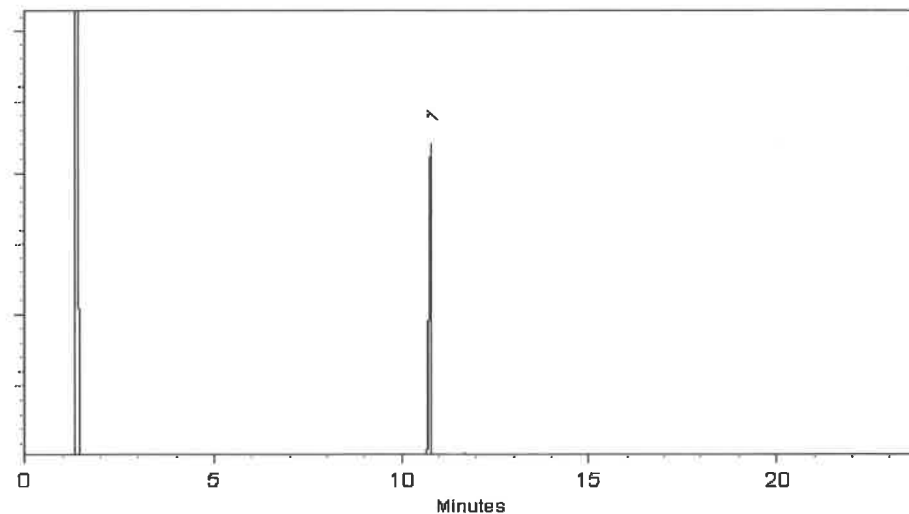
FID

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.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015
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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

P14074 } AC
↓
P14083 } 7/16/25.

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.)

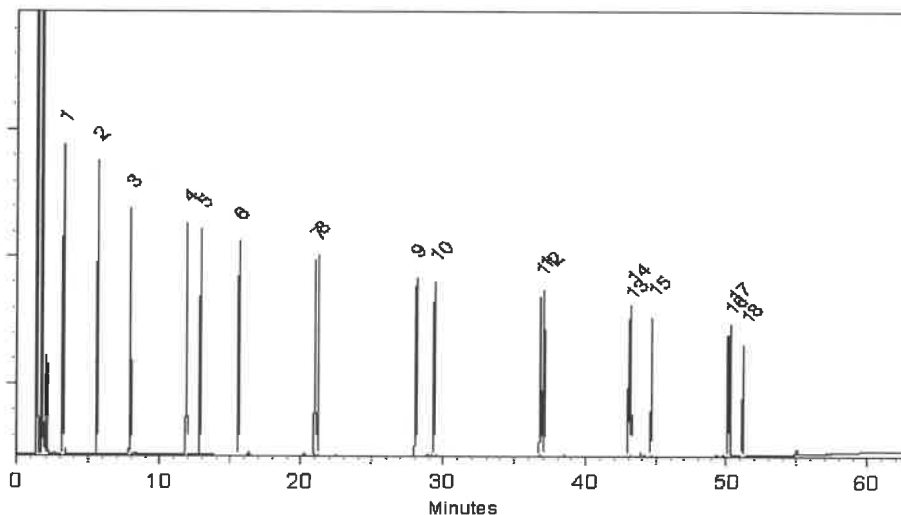
Inj. Temp:
250°C

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

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

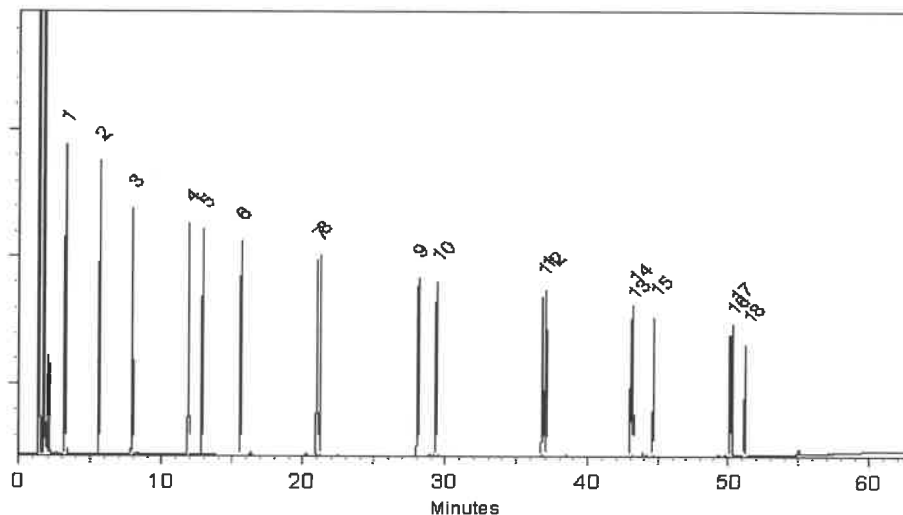
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : NJEPH Aromatics Matrix Spike Mix

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

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

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

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

P14074 } AC
↓
P14083 } 7/16/25.

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.)

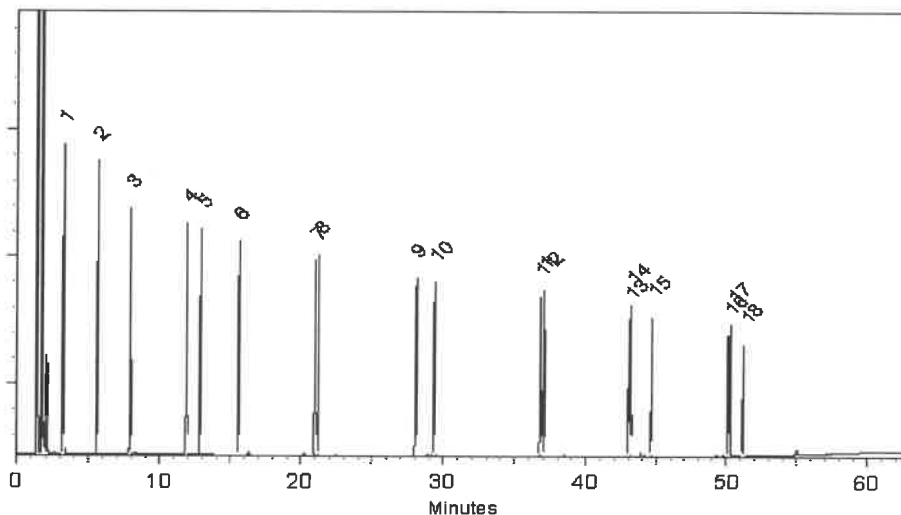
Inj. Temp:
250°C

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.

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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

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

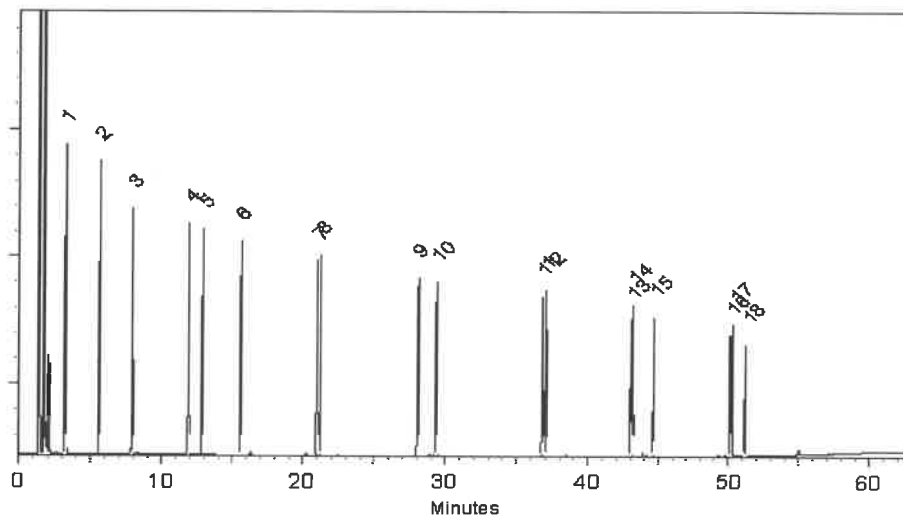
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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

Description : NJEPH Aromatics Matrix Spike Mix

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

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

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

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

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

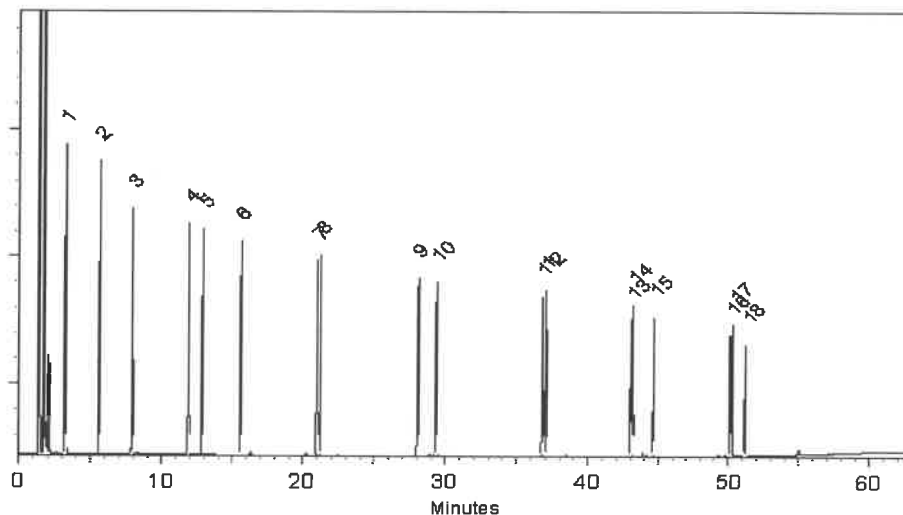
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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

Description : NJEPH Aromatics Matrix Spike Mix

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

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

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

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

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

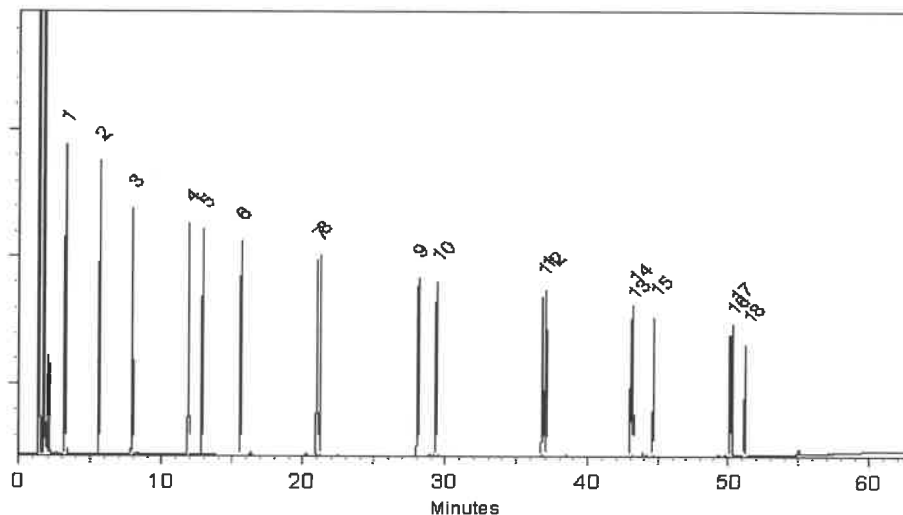
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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

Description : NJEPH Aromatics Matrix Spike Mix

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

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

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

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

P14074 } AC
↓
P14083 } 7/16/25.

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

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

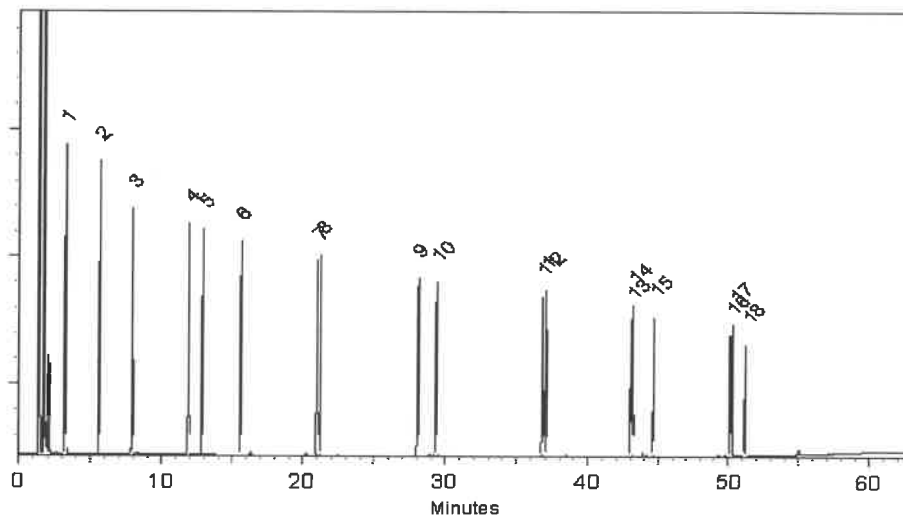
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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

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

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
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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
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15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
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18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

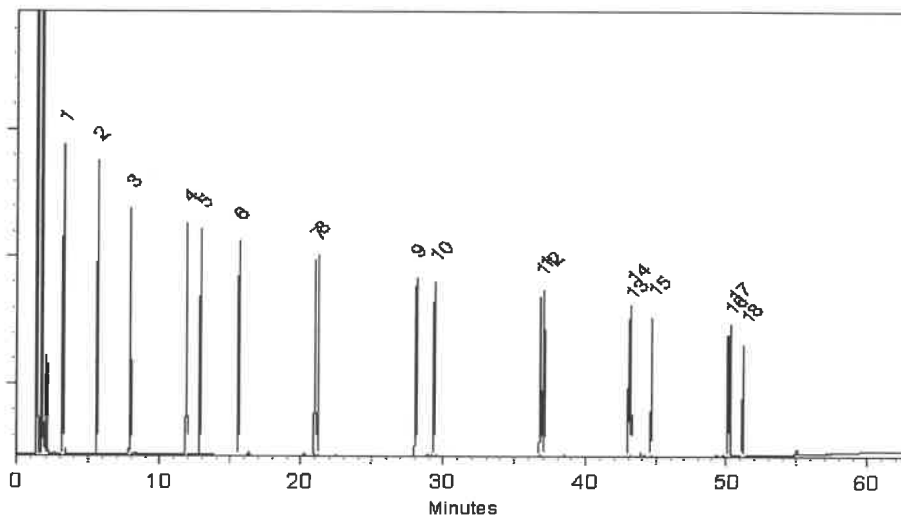
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : NJEPH Aromatics Matrix Spike Mix

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

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

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

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

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

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

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

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

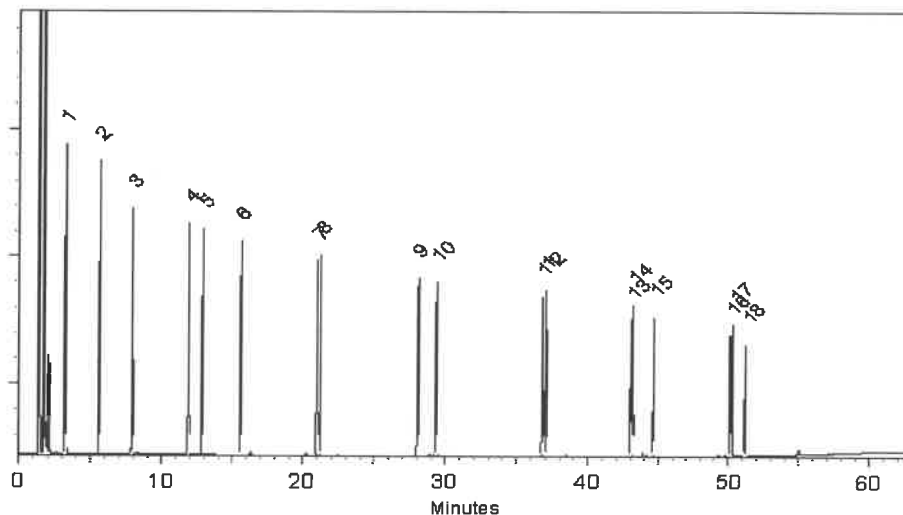
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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

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

Description : NJEPH Aromatics Matrix Spike Mix

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

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

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

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

P14074 } AC
↓
P14083 } 7/16/25.

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.)

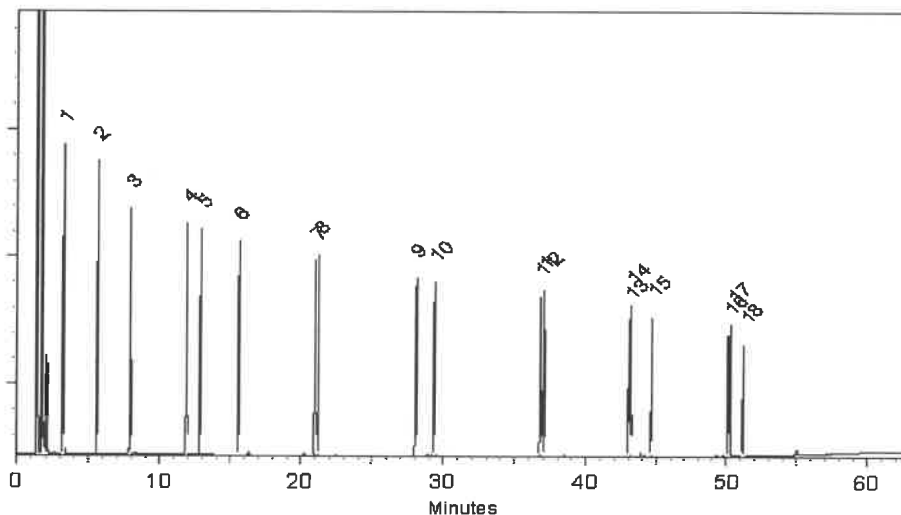
Inj. Temp:
250°C

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.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

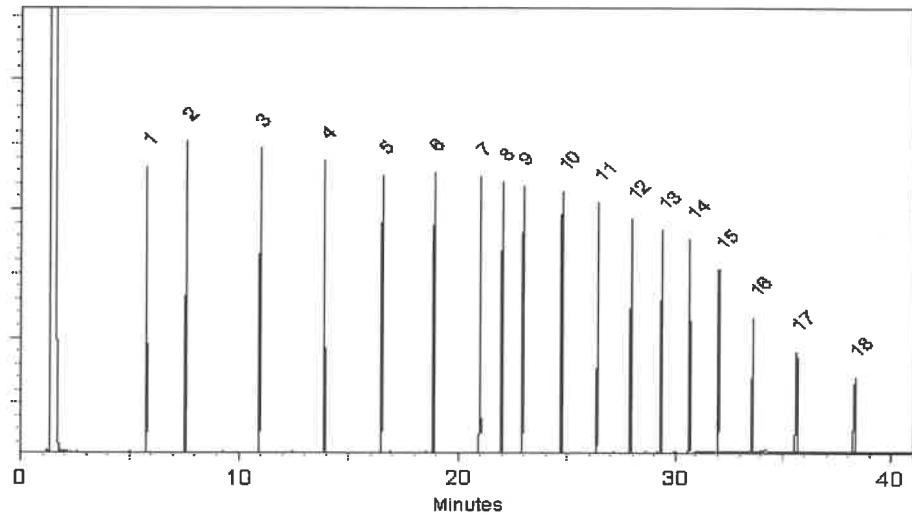
Inj. Temp:
250°C

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.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-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.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

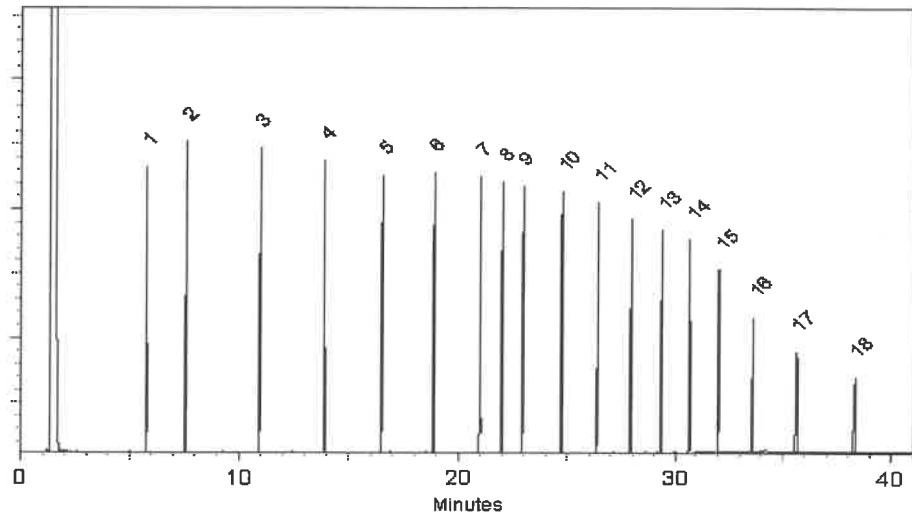
Inj. Temp:
250°C

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.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

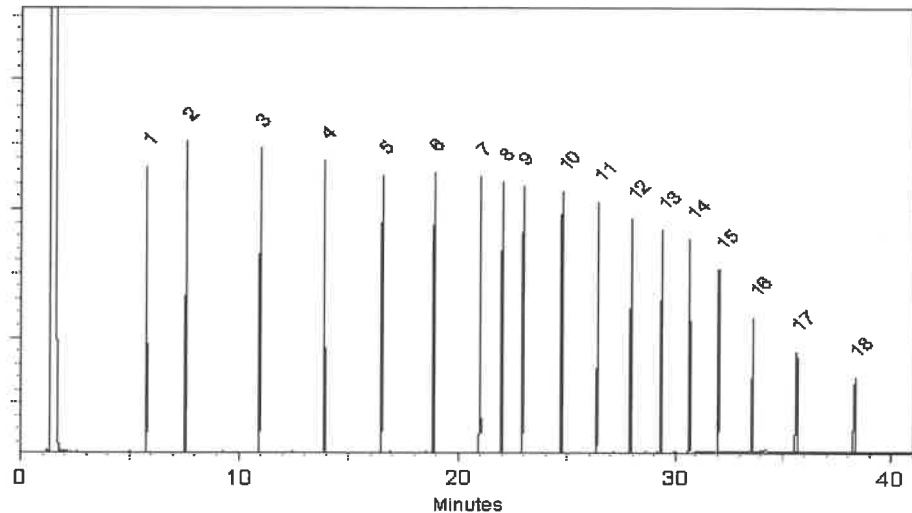
Inj. Temp:
250°C

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.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

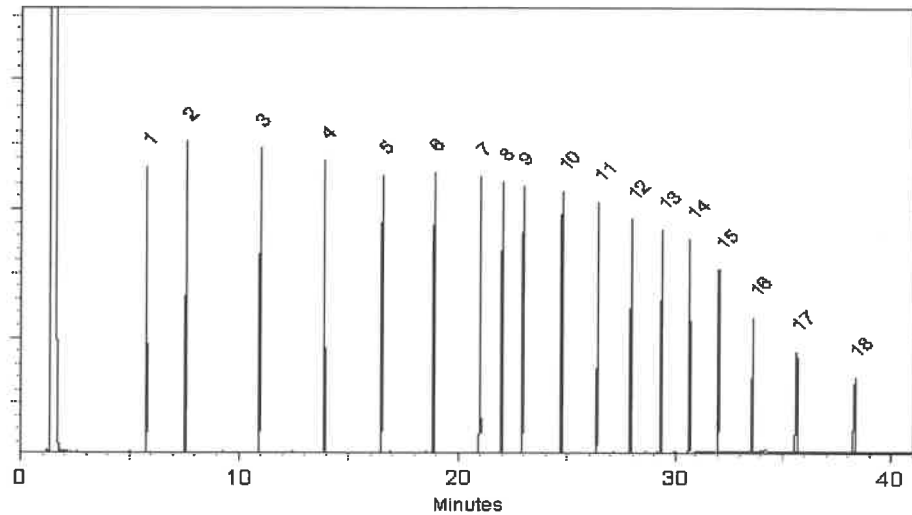
Inj. Temp:
250°C

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.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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Fax: 1-814-353-1309

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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

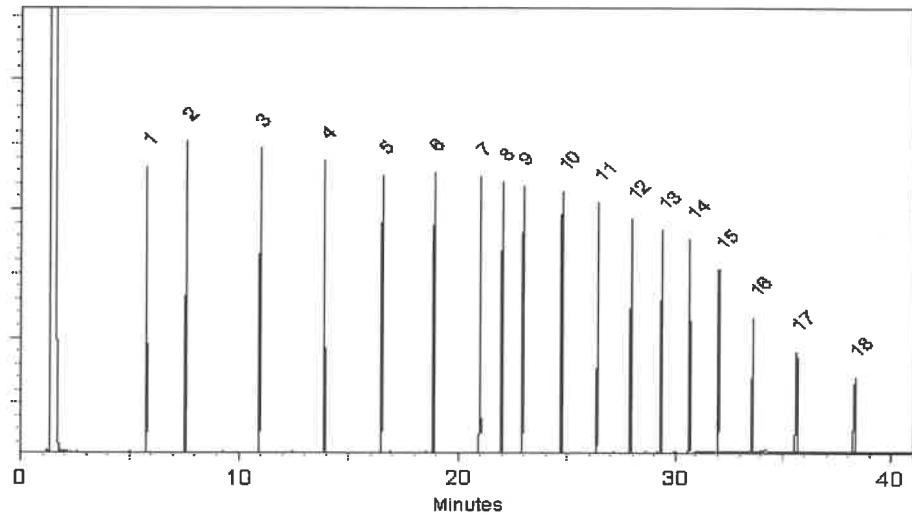
Inj. Temp:
250°C

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.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

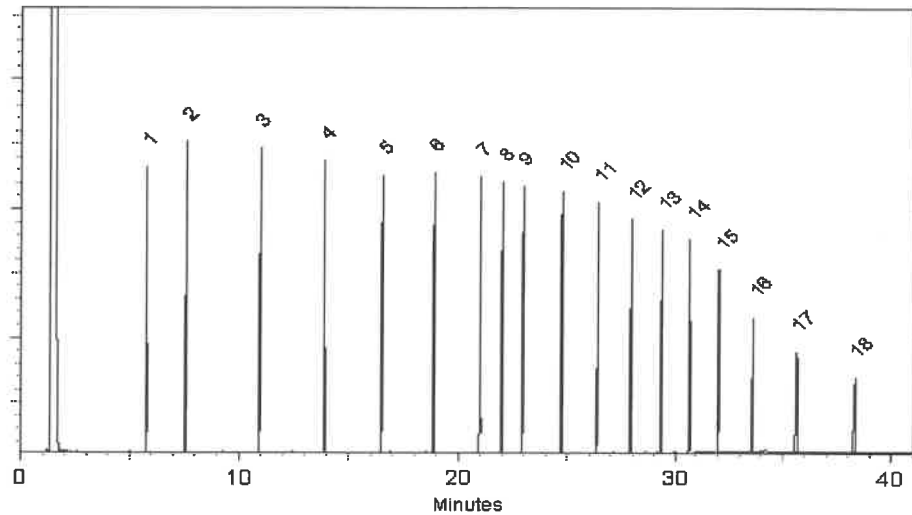
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-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.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

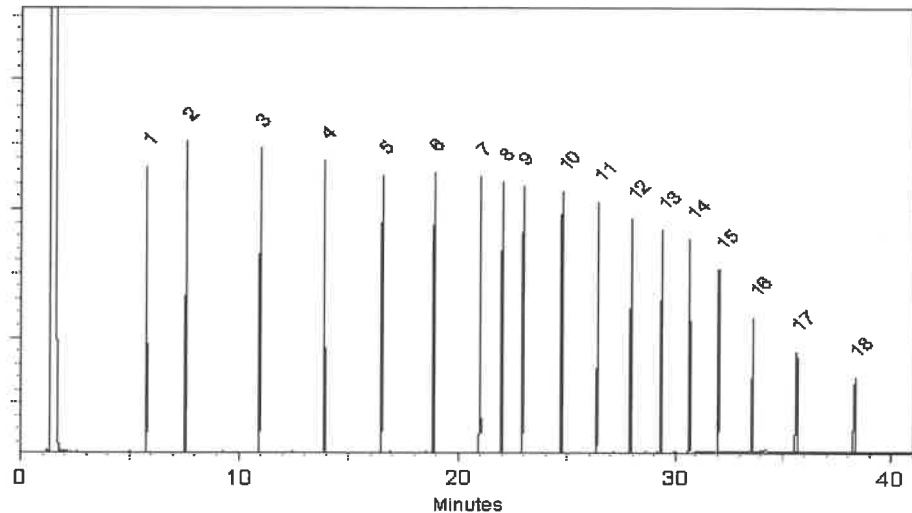
Inj. Temp:
250°C

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.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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Tel: 1-814-353-1300
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Certificate of Analysis

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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.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

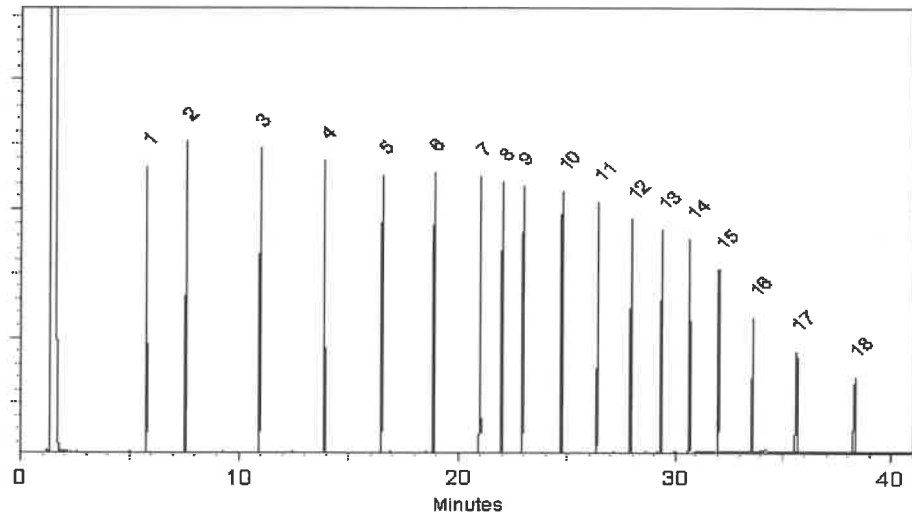
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
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6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
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14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

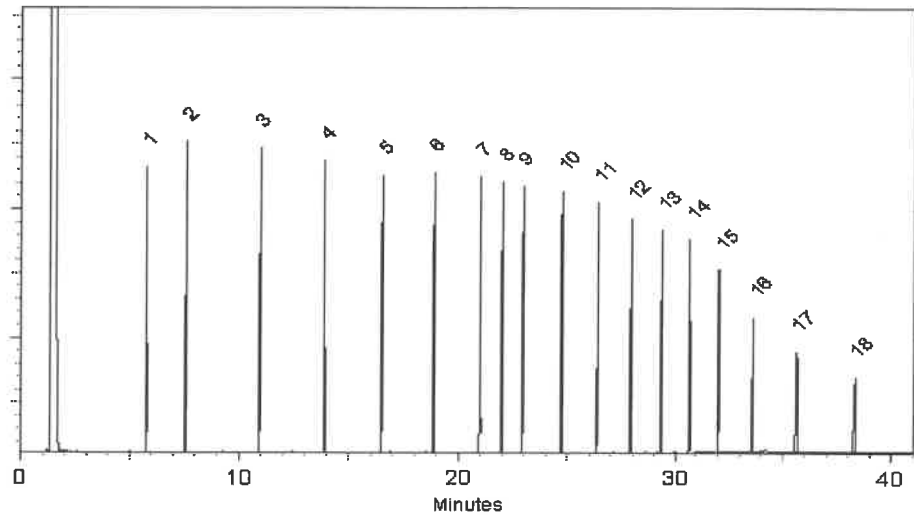
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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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. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094
↓
P14103 } AC
7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

* 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.)

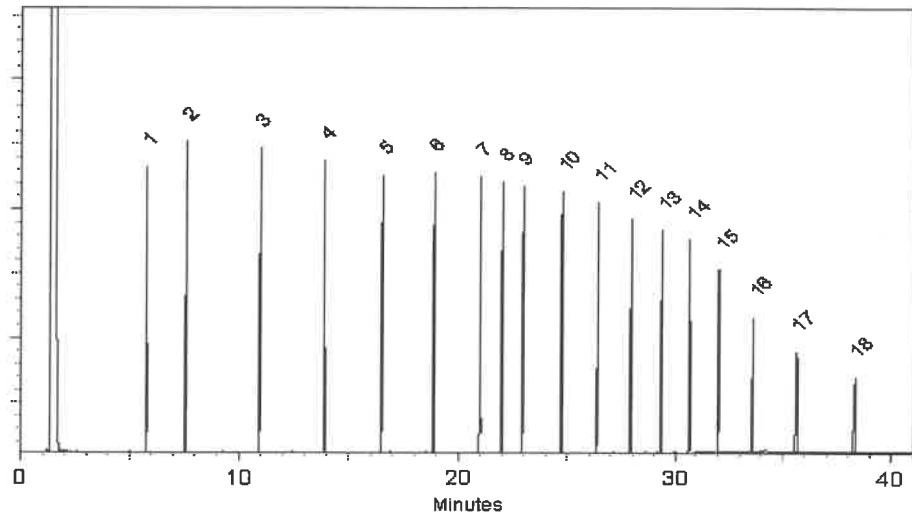
Inj. Temp:
250°C

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.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

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

 **avantorsTM**



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

W3234 JB
OP4H1. 07/28/2025

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax (908) 789-8922

www.chemtech.net

Chemtech Project Number

COC Number

256-258 10th Ave
Petersburg

Q 3216

CLIENT INFORMATION

Report to be sent to:

COMPANY:

ADDRESS:

CITY:

ATTENTION:

PHONE:

FAX:

PROJECT INFORMATION

PROJECT NAME:

PROJECT #:

PROJECT MANAGER:

E-MAIL:

PHONE:

BILLING INFORMATION

BILL TO:

ADDRESS:

CITY:

ATTENTION:

PHONE:

RO#

STATE:

ZIP:

DATA TURNAROUND INFORMATION

FAX (RUSH):

HARDCOPY (DATA PACKAGE):

EDD:

TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DAYS*

DAYS*

DAYS*

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only)

☐ Level 2 (Results + QC)

☐ Level 3 (Results + QC + Raw Data)

☐ EDD FORMAT

☐ Level 4 (QC + Full Raw Data)

☐ NJ Reduced ☐ US EPA CLP

☐ NYS ASP A ☐ NYS ASP B

☐ Other

ANALYSIS

PRESERVATIVES

COMMENTS

Specify Preservatives
A-HCI B-HNOS C-H2SO4 D-NH4Cl E-ICE F-OTHER

CHEMTECH SAMPLE ID

PROJECT SAMPLE IDENTIFICATION

SAMPLE MATRIX

SAMPLE TYPE

DATE

TIME

of Bottles

1

2

3

4

5

6

7

8

9

10

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

RELINQUISHED BY SAMPLER

DATE/TIME

RELINQUISHED BY

DATE/TIME

RELINQUISHED BY

DATE/TIME

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DATE/TIME

RECEIVED BY

DATE/TIME

Comments:

Conditions of bottles or cobs at receipt:

☐ COMPLAINT ☐ NONCOMPLAINT ☐ COOLER TEMP

☐ Hand Delivered ☐ Other:

☐ CHEMTECH ☐ Picked Up

Page _____ of _____

CLIENT: ☐ Hand Delivered ☐ Other:

CHEMTECH: ☐ Picked Up

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

10/25/08

10/25/08

10/25/08

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3216 SCIA01

Order Date : 9/26/2025 8:55:00 AM

Project Mgr :

Client Name : Sciacca General Contractor

Project Name : 256-258 6TH AVE PATERS

Report Type : Results Only

Client Contact : Rosanne Scirica

Receive DateTime : 9/25/2025 5:30:00 PM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Sciacca General Contractor

Purchase Order :

Hard Copy Date :

Invoice Contact : Rosanne Scirica

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3216-02	VOC	Solid	09/25/2025	08:15	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : af

Date / Time : 9/26/25 1045

Received By : ASB

Date / Time : 09/26/25

Storage Area : VOA Refridgerator Room