

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: Q1237	OrderDate: 1/30/2025 1:04:50 PM
Client: G Environmental	Project: Nelson
Contact: Gary Landis	Location: N31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1237-01	HL2PX1	Solid	EPH_NF	NJEPH	01/30/25	01/31/25	01/31/25	01/30/25
Q1237-02	HL2PX2	Solid	EPH_NF	NJEPH	01/30/25	01/31/25	01/31/25	01/30/25
Q1237-03	HL2PX3	Solid	EPH_NF	NJEPH	01/30/25	01/31/25	01/31/25	01/30/25
Q1237-03DL	HL2PX3DL	Solid	EPH_NF	NJEPH	01/30/25	01/31/25	02/03/25	01/30/25
Q1237-04	HL2PX4	Solid	EPH_NF	NJEPH	01/30/25	01/31/25	01/31/25	01/30/25
Q1237-05	HL2PX5	Solid	EPH_NF	NJEPH	01/30/25	01/31/25	01/31/25	01/30/25
Q1237-06	HL2PX6	Solid	EPH_NF	NJEPH	01/30/25	01/31/25	01/31/25	01/30/25



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM CASE No.: Q1237 SAS No.: Q1237 SDG No.: Q1237
Run Number: FC013125AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB166417BL	78	74		0
PB166417BS	78	72		0
PB166417BSD	75	70		0
HL2PX5	67	62		0
HL2PX6	77	74		0
HL2PX6MS	70	67		0
HL2PX6MSD	69	67		0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

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

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM CASE No.: Q1237 SAS No.: Q1237 SDG No.: Q1237
Run Number: FF020125AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
HL2PX1	79	76		0
HL2PX2	68	65		0
HL2PX3	71	69		0
HL2PX4	65	63		0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

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

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM CASE No.: Q1237 SAS No.: Q1237 SDG No.: Q1237
Run Number: FF020325AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
HL2PX3DL	71	70		0

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

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

SOIL EPH SURROGATE RECOVERY

QC LIMITS

1-chlorooctadecane (SURR)

(40-140)

ortho-Terphenyl (SURR)

(40-140)

Column to be used to flag recovery values

* Values outside of contract required QC Limits

D Surrogate diluted out

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** G Environmental
Lab Code: CHEM **Cas No:** Q1237 **SAS No :** Q1237 **SDG No:** Q1237
Sample No : Q1237-06MS **Datafile:** FC068168.D
Client ID : HL2PX6MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	32.5	32.2	53.0	64		(40-140)
Aliphatic C9-C28	108.3	64.5	133	64		(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** G Environmental
Lab Code: CHEM **Cas No:** Q1237 **SAS No :** Q1237 **SDG No:** Q1237
Sample No : Q1237-06MSD **Datafile:** FC068169.D
Client ID : HL2PX6MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS QC Limit Of RPD
Aliphatic C28-C40	32.5	32.2	53.0	64		0 (40-140) 25
Aliphatic C9-C28	108.3	64.5	128	59		7.6 (40-140) 25

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** G Environmental
Lab Code: CHEM **Cas No:** Q1237 **SAS No :** Q1237 **SDG No:** Q1237
Sample No : PB166417BS **Datafile:** FC068163.D
Client ID : PB166417BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	30.0	36.3	121		(40-140)
Aliphatic C9-C28	99.9	100	100		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** G Environmental
Lab Code: CHEM **Cas No:** Q1237 **SAS No :** Q1237 **SDG No:** Q1237
Sample No : PB166417BSD **Datafile:** FC068164.D
Client ID : PB166417BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	30.0	34.8	116		4.2 (40-140)	50
Aliphatic C9-C28	100.1	96.8	97		3.1 (40-140)	50

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166417BL

Lab Name: CHEMTECH

Contract: GENV01

Lab Code: CHEM Case No.: Q1237

SAS No.: Q1237 SDG NO.: Q1237

Instrument ID: FID_C

Lab Sample ID: PB166417BL

Matrix: (soil/water) Solid

Date Extracted: 1/31/2025 9:45:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB166417BS	PB166417BS
HL2PX1	Q1237-01
HL2PX2	Q1237-02
HL2PX3	Q1237-03
PB166417BSD	PB166417BSD
HL2PX4	Q1237-04
HL2PX5	Q1237-05
HL2PX6	Q1237-06
HL2PX6MS	Q1237-06MS
HL2PX6MSD	Q1237-06MSD

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX1	SDG No.:	Q1237
Lab Sample ID:	Q1237-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 14:23	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	3.05		1	1.89	2.10	mg/kg	FF015414.D
Aliphatic C9-C28	Aliphatic C9-C28	1.81	U	1	1.81	4.20	mg/kg	FF015414.D
Total AliphaticEPH	Total AliphaticEPH	3.70	U		3.70	6.30	mg/kg	
Total EPH	Total EPH	3.70	U		3.70	6.30	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX1	SDG No.:	Q1237
Lab Sample ID:	Q1237-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.1
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015414.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.81	U	1.81	4.20	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.05		1.89	2.10	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.6		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.2		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1237-01	Acq On:	31 Jan 2025 14:23
Client Sample ID:	HL2PX1	Operator:	YP\AJ
Data file:	FF015414.D	Misc:	
Instrument:	FID_F	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.833	490922	3.683	300	ug/ml
Aliphatic C12-C16	6.834	10.268	929693	6.717	200	ug/ml
Aliphatic C16-C21	10.269	13.636	1901881	13.166	300	ug/ml
Aliphatic C21-C28	13.637	17.303	1609945	11.305	400	ug/ml
Aliphatic C28-C40	17.304	22.207	4569026	43.645	600	ug/ml
Aliphatic EPH	3.214	22.207	9501467	78.515		ug/ml
ortho-Terphenyl (SURR)	11.933	11.933	6071242	38.19		ug/ml
1-chlorooctadecane (SURR)	13.371	13.371	4935961	39.59		ug/ml
Aliphatic C9-C28	3.214	17.303	4932441	34.871	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
 Data File : FF015414.D
 Signal(s) : FID2B.ch
 Acq On : 31 Jan 2025 14:23
 Operator : YP\AJ
 Sample : Q1237-01
 Misc :
 ALS Vial : 71 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 HL2PX1

Integration File: sample.E
 Quant Time: Jan 31 23:21:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.933	6071242	38.186 ug/ml
Spiked Amount	50.000	Recovery	= 76.37%
12) S 1-chlorooctadecane (S...	13.371	4935961	39.593 ug/ml
Spiked Amount	50.000	Recovery	= 79.19%

Target Compounds

(f)=RT Delta > 1/2 Window

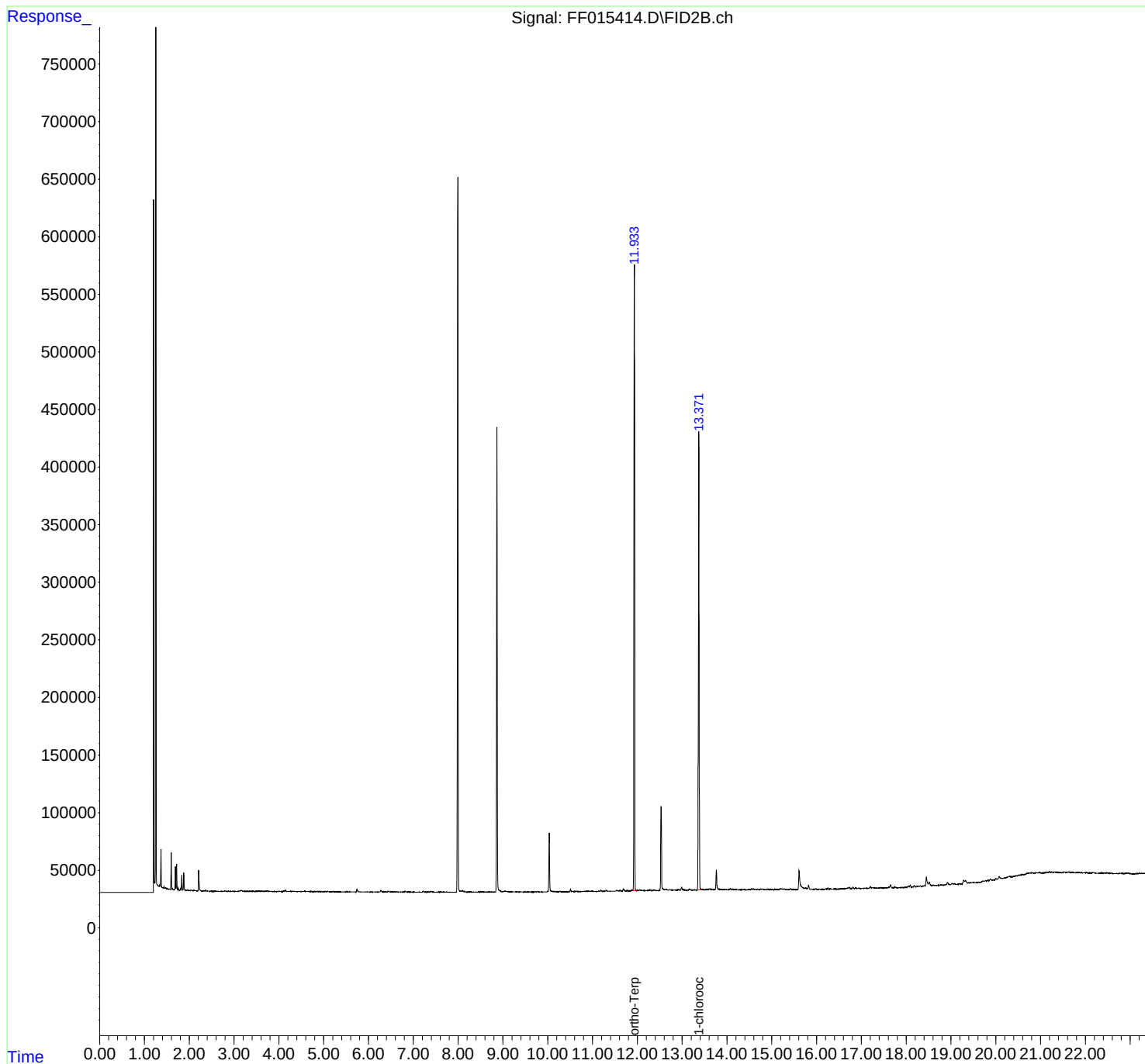
(m)=manual int.

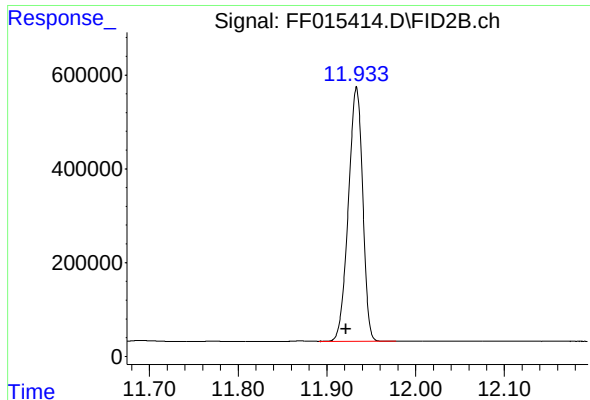
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
Data File : FF015414.D
Signal(s) : FID2B.ch
Acq On : 31 Jan 2025 14:23
Operator : YP\AJ
Sample : Q1237-01
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
HL2PX1

Integration File: sample.E
Quant Time: Jan 31 23:21:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

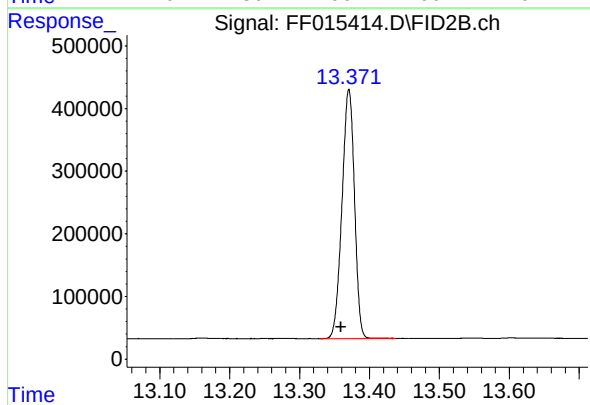




#9 ortho-Terphenyl (SURR)

R.T.: 11.933 min
Delta R.T.: 0.012 min
Response: 6071242
Conc: 38.19 ug/ml

Instrument :
FID_F
ClientSampleId :
HL2PX1



#12 1-chlorooctadecane (SURR)

R.T.: 13.371 min
Delta R.T.: 0.011 min
Response: 4935961
Conc: 39.59 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
 Data File : FF015414.D
 Signal(s) : FID2B.ch
 Acq On : 31 Jan 2025 14:23
 Sample : Q1237-01
 Misc :
 ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.920	2.851	2.935	BV	74	843	0.01%	0.004%
2	2.943	2.935	2.984	PV	55	883	0.01%	0.004%
3	3.001	2.984	3.037	PV	218	2874	0.05%	0.014%
4	3.047	3.037	3.058	VV	101	634	0.01%	0.003%
5	3.131	3.058	3.141	VV	759	12107	0.20%	0.059%
6	3.163	3.141	3.231	VV	906	24811	0.41%	0.120%
7	3.235	3.231	3.251	VV	216	2161	0.04%	0.010%
8	3.299	3.251	3.340	VV	247	10043	0.16%	0.049%
9	3.361	3.340	3.371	VV	226	3453	0.06%	0.017%
10	3.382	3.371	3.395	VV	221	2479	0.04%	0.012%
11	3.409	3.395	3.425	VV	254	3705	0.06%	0.018%
12	3.444	3.425	3.481	VV	323	7539	0.12%	0.037%
13	3.503	3.481	3.529	VV	306	6460	0.11%	0.031%
14	3.543	3.529	3.552	VV	226	2810	0.05%	0.014%
15	3.565	3.552	3.615	VV	238	7818	0.13%	0.038%
16	3.629	3.615	3.643	VV	260	3589	0.06%	0.017%
17	3.675	3.643	3.702	VV	302	8870	0.15%	0.043%
18	3.734	3.702	3.773	VV	691	16011	0.26%	0.078%
19	3.791	3.773	3.825	VV	435	7185	0.12%	0.035%
20	3.839	3.825	3.851	VV	183	2036	0.03%	0.010%
21	3.906	3.851	3.958	VV	395	9597	0.16%	0.046%
22	3.992	3.958	4.008	VV	285	5146	0.08%	0.025%
23	4.020	4.008	4.042	VV	283	3772	0.06%	0.018%
24	4.053	4.042	4.065	VV	151	1581	0.03%	0.008%
25	4.069	4.065	4.077	VV	137	806	0.01%	0.004%
26	4.109	4.077	4.123	VV	598	8343	0.14%	0.040%
27	4.141	4.123	4.202	VV	1407	24492	0.40%	0.119%
28	4.229	4.202	4.241	VV	314	6309	0.10%	0.031%
29	4.273	4.241	4.321	VV	378	15919	0.26%	0.077%
30	4.337	4.321	4.362	VV	340	7203	0.12%	0.035%
31	4.384	4.362	4.405	VV	290	6078	0.10%	0.029%
32	4.449	4.405	4.495	VV	258	12115	0.20%	0.059%
33	4.539	4.495	4.551	VV	320	8943	0.15%	0.043%
34	4.568	4.551	4.608	VV	487	12934	0.21%	0.063%
35	4.615	4.608	4.652	VV	346	8331	0.14%	0.040%
36	4.658	4.652	4.675	VV	312	3449	0.06%	0.017%

					rteres				
37	4.689	4.675	4.724	VV	356	7856	0.13%	0.038%	
38	4.734	4.724	4.768	VV	473	7324	0.12%	0.035%	
39	4.782	4.768	4.837	VV	254	7600	0.12%	0.037%	
40	4.853	4.837	4.863	VV	246	2646	0.04%	0.013%	
41	4.903	4.863	4.920	VV	247	7097	0.12%	0.034%	
42	4.966	4.920	4.985	VV	335	10331	0.17%	0.050%	
43	4.987	4.985	5.102	VV	322	17015	0.28%	0.082%	
44	5.111	5.102	5.128	VV	157	2274	0.04%	0.011%	
45	5.133	5.128	5.179	VV	191	4241	0.07%	0.021%	
46	5.208	5.179	5.247	VV	266	6796	0.11%	0.033%	
47	5.269	5.247	5.311	VV	258	5996	0.10%	0.029%	
48	5.318	5.311	5.367	VV	113	3548	0.06%	0.017%	
49	5.379	5.367	5.431	VV	119	2508	0.04%	0.012%	
50	5.440	5.431	5.468	VV	78	1354	0.02%	0.007%	
51	5.473	5.468	5.480	VV	76	466	0.01%	0.002%	
52	5.510	5.480	5.562	VV	594	9989	0.16%	0.048%	
53	5.573	5.562	5.641	VV	149	3437	0.06%	0.017%	
54	5.650	5.641	5.661	PV	71	743	0.01%	0.004%	
55	5.670	5.661	5.678	VV	61	615	0.01%	0.003%	
56	5.685	5.678	5.695	VV	83	541	0.01%	0.003%	
57	5.699	5.695	5.717	VV	105	1013	0.02%	0.005%	
58	5.741	5.717	5.811	VV	2394	35189	0.58%	0.170%	
59	5.820	5.811	5.842	VV	157	1974	0.03%	0.010%	
60	5.895	5.842	5.928	VV	130	3982	0.07%	0.019%	
61	5.949	5.928	5.985	VV	174	3180	0.05%	0.015%	
62	5.997	5.985	6.013	VV	107	1588	0.03%	0.008%	
63	6.021	6.013	6.035	VV	106	898	0.01%	0.004%	
64	6.073	6.035	6.084	VV	151	2171	0.04%	0.011%	
65	6.102	6.084	6.133	VV	94	2493	0.04%	0.012%	
66	6.144	6.133	6.168	VV	163	1960	0.03%	0.009%	
67	6.177	6.168	6.227	VV	145	3134	0.05%	0.015%	
68	6.276	6.227	6.320	VV	1340	26232	0.43%	0.127%	
69	6.336	6.320	6.351	VV	326	4986	0.08%	0.024%	
70	6.371	6.351	6.405	VV	256	7739	0.13%	0.037%	
71	6.448	6.405	6.478	VV	651	14653	0.24%	0.071%	
72	6.501	6.478	6.515	VV	287	5341	0.09%	0.026%	
73	6.522	6.515	6.555	VV	272	5540	0.09%	0.027%	
74	6.574	6.555	6.595	VV	418	6849	0.11%	0.033%	
75	6.619	6.595	6.646	VV	347	7320	0.12%	0.035%	
76	6.687	6.646	6.714	VV	252	8099	0.13%	0.039%	
77	6.732	6.714	6.781	VV	215	6181	0.10%	0.030%	
78	6.814	6.781	6.867	VV	1139	18846	0.31%	0.091%	
79	6.877	6.867	6.935	VV	189	4062	0.07%	0.020%	
80	6.943	6.935	6.971	VV	142	2046	0.03%	0.010%	
81	6.990	6.971	7.005	PV	128	1877	0.03%	0.009%	
82	7.017	7.005	7.077	VV	140	2625	0.04%	0.013%	
83	7.087	7.077	7.110	VV	68	849	0.01%	0.004%	
84	7.132	7.110	7.166	VV	118	1761	0.03%	0.009%	
85	7.215	7.166	7.278	VV	1140	19691	0.32%	0.095%	
86	7.283	7.278	7.325	VV	172	3743	0.06%	0.018%	
87	7.356	7.325	7.381	VV	182	4843	0.08%	0.023%	
88	7.400	7.381	7.438	VV	813	13021	0.21%	0.063%	
89	7.455	7.438	7.488	VV	159	3407	0.06%	0.016%	

					rteres			
90	7.500	7.488	7.528	VV	97	1435	0.02%	0.007%
91	7.550	7.528	7.596	VV	211	5231	0.09%	0.025%
92	7.605	7.596	7.625	VV	184	2567	0.04%	0.012%
93	7.647	7.625	7.660	VV	140	2674	0.04%	0.013%
94	7.678	7.660	7.724	VV	272	4374	0.07%	0.021%
95	7.747	7.724	7.781	VV	149	2819	0.05%	0.014%
96	7.806	7.781	7.875	VV	172	4704	0.08%	0.023%
97	8.056	8.041	8.075	VV	1234	20197	0.33%	0.098%
98	8.094	8.075	8.123	VV	1399	29689	0.49%	0.144%
99	8.134	8.123	8.241	VV	794	22311	0.37%	0.108%
100	8.255	8.241	8.318	VV	185	5431	0.09%	0.026%
101	8.336	8.318	8.363	VV	127	1806	0.03%	0.009%
102	8.375	8.363	8.405	VV	83	1286	0.02%	0.006%
103	8.458	8.405	8.508	VV	357	9940	0.16%	0.048%
104	8.522	8.508	8.538	VV	173	2695	0.04%	0.013%
105	8.560	8.538	8.608	VV	367	6983	0.11%	0.034%
106	8.622	8.608	8.649	VV	143	2262	0.04%	0.011%
107	8.698	8.649	8.729	VV	226	5943	0.10%	0.029%
108	8.739	8.729	8.786	VV	127	2993	0.05%	0.014%
109	8.804	8.786	8.824	VV	129	1359	0.02%	0.007%
110	8.992	8.982	9.016	VV	613	11337	0.19%	0.055%
111	9.038	9.016	9.171	VV	997	50586	0.83%	0.245%
112	9.192	9.171	9.226	VV	323	9082	0.15%	0.044%
113	9.249	9.226	9.270	VV	287	5581	0.09%	0.027%
114	9.303	9.270	9.368	VV	579	14836	0.24%	0.072%
115	9.388	9.368	9.420	VV	416	7563	0.12%	0.037%
116	9.430	9.420	9.510	VV	192	5917	0.10%	0.029%
117	9.528	9.510	9.546	PV	56	738	0.01%	0.004%
118	9.580	9.546	9.650	VV	294	7450	0.12%	0.036%
119	9.663	9.650	9.667	PV	53	318	0.01%	0.002%
120	9.676	9.667	9.694	VV	86	909	0.01%	0.004%
121	9.715	9.694	9.747	VV	512	7597	0.12%	0.037%
122	9.770	9.747	9.812	VV	582	8333	0.14%	0.040%
123	9.855	9.812	9.876	VV	196	4525	0.07%	0.022%
124	9.890	9.876	9.911	VV	138	2155	0.04%	0.010%
125	9.919	9.911	9.935	VV	159	1818	0.03%	0.009%
126	9.945	9.935	9.973	VV	127	2161	0.04%	0.010%
127	10.035	9.973	10.148	VV	51136	578975	9.49%	2.804%
128	10.167	10.148	10.215	VV	534	11386	0.19%	0.055%
129	10.231	10.215	10.250	VV	196	3802	0.06%	0.018%
130	10.272	10.250	10.318	VV	688	10189	0.17%	0.049%
131	10.338	10.318	10.345	PV	114	1183	0.02%	0.006%
132	10.352	10.345	10.381	VV	86	1382	0.02%	0.007%
133	10.406	10.381	10.454	VV	144	4370	0.07%	0.021%
134	10.469	10.454	10.488	VV	209	3053	0.05%	0.015%
135	10.509	10.488	10.536	VV	2432	29180	0.48%	0.141%
136	10.555	10.536	10.597	VV	447	10238	0.17%	0.050%
137	10.626	10.597	10.678	VV	421	14205	0.23%	0.069%
138	10.702	10.678	10.738	VV	274	7183	0.12%	0.035%
139	10.754	10.738	10.769	VV	259	3799	0.06%	0.018%
140	10.791	10.769	10.817	VV	398	8343	0.14%	0.040%
141	10.833	10.817	10.846	VV	332	4810	0.08%	0.023%

					rteres			
142	10.863	10.846	10.876	VV	406	5404	0.09%	0.026%
143	10.906	10.876	10.945	VV	630	14738	0.24%	0.071%
144	10.978	10.945	10.999	VV	788	13503	0.22%	0.065%
145	11.009	10.999	11.049	VV	356	7668	0.13%	0.037%
146	11.061	11.049	11.081	VV	166	2305	0.04%	0.011%
147	11.104	11.081	11.114	VV	160	2609	0.04%	0.013%
148	11.140	11.114	11.157	VV	255	4990	0.08%	0.024%
149	11.183	11.157	11.215	VV	1274	19849	0.33%	0.096%
150	11.245	11.215	11.268	VV	373	7914	0.13%	0.038%
151	11.305	11.268	11.348	VV	1209	24040	0.39%	0.116%
152	11.405	11.348	11.428	VV	252	11364	0.19%	0.055%
153	11.436	11.428	11.458	VV	256	4350	0.07%	0.021%
154	11.469	11.458	11.505	VV	285	6250	0.10%	0.030%
155	11.542	11.505	11.568	VV	941	18208	0.30%	0.088%
156	11.612	11.568	11.648	VV	921	24260	0.40%	0.117%
157	11.691	11.648	11.751	VV	2297	50183	0.82%	0.243%
158	11.772	11.751	11.795	VV	856	12739	0.21%	0.062%
159	11.805	11.795	11.831	VV	462	7246	0.12%	0.035%
160	11.870	11.831	11.893	VV	1315	22582	0.37%	0.109%
161	11.933	11.893	11.977	VV	541972	6098129	100.00%	29.530%
162	11.992	11.977	12.017	VV	759	16285	0.27%	0.079%
163	12.064	12.017	12.085	VV	1014	33749	0.55%	0.163%
164	12.097	12.085	12.148	VV	858	24107	0.40%	0.117%
165	12.161	12.148	12.192	VV	493	12073	0.20%	0.058%
166	12.273	12.192	12.311	VV	939	43236	0.71%	0.209%
167	12.332	12.311	12.348	VV	529	10660	0.17%	0.052%
168	12.376	12.348	12.451	VV	1139	35731	0.59%	0.173%
169	12.530	12.451	12.611	VV	73412	937744	15.38%	4.541%
170	12.648	12.611	12.695	VV	1476	54525	0.89%	0.264%
171	12.731	12.695	12.820	VV	1013	57206	0.94%	0.277%
172	12.851	12.820	12.889	VV	897	30833	0.51%	0.149%
173	12.922	12.889	12.961	VV	1258	34302	0.56%	0.166%
174	12.987	12.961	13.021	VV	3101	56944	0.93%	0.276%
175	13.036	13.021	13.105	VV	919	31389	0.51%	0.152%
176	13.121	13.105	13.130	VV	427	6366	0.10%	0.031%
177	13.160	13.130	13.226	VV	1447	43527	0.71%	0.211%
178	13.250	13.226	13.261	VV	613	11647	0.19%	0.056%
179	13.281	13.261	13.301	VV	855	16699	0.27%	0.081%
180	13.371	13.301	13.472	VV	398860	5008826	82.14%	24.255%
181	13.483	13.472	13.518	VV	948	20376	0.33%	0.099%
182	13.550	13.518	13.572	VV	1170	30585	0.50%	0.148%
183	13.603	13.572	13.623	VV	1584	35760	0.59%	0.173%
184	13.637	13.623	13.692	VV	1281	42720	0.70%	0.207%
185	13.704	13.692	13.720	VV	837	12681	0.21%	0.061%
186	13.761	13.720	13.901	VV	17895	313024	5.13%	1.516%
187	13.911	13.901	13.925	VV	693	9307	0.15%	0.045%
188	13.950	13.925	13.961	VV	740	15510	0.25%	0.075%
189	13.980	13.961	14.015	VV	824	22101	0.36%	0.107%
190	14.034	14.015	14.051	VV	710	13951	0.23%	0.068%
191	14.074	14.051	14.099	VV	1599	29220	0.48%	0.141%
192	14.121	14.099	14.141	VV	960	18026	0.30%	0.087%
193	14.152	14.141	14.301	VV	728	50220	0.82%	0.243%
194	14.360	14.301	14.381	VV	718	24140	0.40%	0.117%

					rteres			
195	14.397	14.381	14.421	VV	477	10473	0.17%	0.051%
196	14.481	14.421	14.501	VV	548	19926	0.33%	0.096%
197	14.559	14.501	14.581	VV	1373	35214	0.58%	0.171%
198	14.597	14.581	14.618	VV	698	14175	0.23%	0.069%
199	14.631	14.618	14.664	VV	634	15073	0.25%	0.073%
200	14.686	14.664	14.728	VV	881	22691	0.37%	0.110%
201	14.748	14.728	14.769	VV	874	16201	0.27%	0.078%
202	14.789	14.769	14.832	VV	662	20511	0.34%	0.099%
203	14.844	14.832	14.875	VV	420	8869	0.15%	0.043%
204	14.908	14.875	15.044	VV	903	38128	0.63%	0.185%
205	15.064	15.044	15.091	VV	477	7794	0.13%	0.038%
206	15.114	15.091	15.148	VV	293	7806	0.13%	0.038%
207	15.192	15.148	15.210	VV	842	18108	0.30%	0.088%
208	15.225	15.210	15.248	VV	817	13005	0.21%	0.063%
209	15.272	15.248	15.342	VV	1019	21228	0.35%	0.103%
210	15.361	15.342	15.393	VV	251	4012	0.07%	0.019%
211	15.419	15.393	15.495	VV	1159	20878	0.34%	0.101%
212	15.514	15.495	15.568	VV	184	3348	0.05%	0.016%
213	15.609	15.568	15.727	VV	16546	390364	6.40%	1.890%
214	15.748	15.727	15.789	VV	1585	47227	0.77%	0.229%
215	15.820	15.789	15.860	VV	3732	64020	1.05%	0.310%
216	15.876	15.860	15.915	VV	520	8711	0.14%	0.042%
217	15.966	15.915	16.031	VV	636	14805	0.24%	0.072%
218	16.068	16.031	16.098	PV	228	5962	0.10%	0.029%
219	16.111	16.098	16.163	VV	124	2611	0.04%	0.013%
220	16.209	16.163	16.227	VV	323	7274	0.12%	0.035%
221	16.250	16.227	16.294	VV	976	18361	0.30%	0.089%
222	16.312	16.294	16.345	VV	273	4911	0.08%	0.024%
223	16.386	16.345	16.408	VV	181	3746	0.06%	0.018%
224	16.462	16.408	16.499	PV	228	5800	0.10%	0.028%
225	16.546	16.499	16.578	PV	444	8833	0.14%	0.043%
226	16.601	16.578	16.623	VV	237	4920	0.08%	0.024%
227	16.696	16.623	16.711	VV	759	27075	0.44%	0.131%
228	16.734	16.711	16.765	VV	1367	24395	0.40%	0.118%
229	16.776	16.765	16.788	VV	267	3269	0.05%	0.016%
230	16.813	16.788	16.841	VV	1293	20896	0.34%	0.101%
231	16.867	16.841	16.891	VV	822	13927	0.23%	0.067%
232	16.905	16.891	16.924	VV	367	5566	0.09%	0.027%
233	16.947	16.924	16.995	VV	309	8441	0.14%	0.041%
234	17.002	16.995	17.028	VV	181	2642	0.04%	0.013%
235	17.091	17.028	17.115	VV	316	11171	0.18%	0.054%
236	17.201	17.115	17.230	VV	1614	35695	0.59%	0.173%
237	17.251	17.230	17.269	VV	801	12544	0.21%	0.061%
238	17.281	17.269	17.318	VV	486	8439	0.14%	0.041%
239	17.324	17.318	17.358	VV	179	3063	0.05%	0.015%
240	17.364	17.358	17.385	VV	162	1588	0.03%	0.008%
241	17.398	17.385	17.408	VV	127	1652	0.03%	0.008%
242	17.442	17.408	17.485	VV	468	9651	0.16%	0.047%
243	17.534	17.485	17.554	VV	368	8054	0.13%	0.039%
244	17.650	17.554	17.708	VV	2773	60419	0.99%	0.293%
245	17.741	17.708	17.801	VV	620	15926	0.26%	0.077%
246	17.836	17.801	17.844	VV	100	1101	0.02%	0.005%

					rteres			
247	17.876	17.844	17.906	PV	164	3217	0.05%	0.016%
248	17.939	17.906	17.958	PV	89	2100	0.03%	0.010%
249	17.984	17.958	17.998	PV	135	1782	0.03%	0.009%
250	18.046	17.998	18.067	VV	1267	22096	0.36%	0.107%
251	18.090	18.067	18.121	VV	1859	28059	0.46%	0.136%
252	18.181	18.121	18.208	VV	1249	19481	0.32%	0.094%
253	18.238	18.208	18.250	VV	587	7753	0.13%	0.038%
254	18.267	18.250	18.298	VV	459	9457	0.16%	0.046%
255	18.317	18.298	18.345	VV	802	10324	0.17%	0.050%
256	18.370	18.345	18.384	PV	391	5804	0.10%	0.028%
257	18.412	18.384	18.424	VV	1007	14963	0.25%	0.072%
258	18.450	18.424	18.492	VV	7567	156747	2.57%	0.759%
259	18.515	18.492	18.565	VV	3501	75989	1.25%	0.368%
260	18.604	18.565	18.635	VV	884	22124	0.36%	0.107%
261	18.648	18.635	18.672	VV	276	4264	0.07%	0.021%
262	18.730	18.672	18.742	VV	197	4924	0.08%	0.024%
263	18.806	18.742	18.835	VV	286	9444	0.15%	0.046%
264	18.923	18.835	18.979	VV	2192	54614	0.90%	0.264%
265	19.025	18.979	19.055	VV	1277	26559	0.44%	0.129%
266	19.080	19.055	19.147	VV	687	16369	0.27%	0.079%
267	19.200	19.147	19.215	PV	167	3958	0.06%	0.019%
268	19.284	19.215	19.308	PV	3155	66317	1.09%	0.321%
269	19.326	19.308	19.379	VV	2600	61755	1.01%	0.299%
270	19.511	19.379	19.548	VV	540	37660	0.62%	0.182%
271	19.575	19.548	19.585	VV	137	1794	0.03%	0.009%
272	19.615	19.585	19.640	VV	435	6254	0.10%	0.030%
273	19.711	19.640	19.738	VV	1255	28264	0.46%	0.137%
274	19.770	19.738	19.793	VV	1315	29651	0.49%	0.144%
275	19.820	19.793	19.843	VV	1263	30260	0.50%	0.147%
276	19.879	19.843	19.911	VV	2300	57948	0.95%	0.281%
277	20.006	19.911	20.036	VV	2098	107996	1.77%	0.523%
278	20.073	20.036	20.102	VV	3670	102833	1.69%	0.498%
279	20.116	20.102	20.144	VV	2345	53681	0.88%	0.260%
280	20.297	20.144	20.338	VV	3228	281726	4.62%	1.364%
281	20.450	20.338	20.473	VV	3322	229404	3.76%	1.111%
282	20.513	20.473	20.520	VV	3476	91946	1.51%	0.445%
283	20.613	20.520	20.631	VV	3763	239977	3.94%	1.162%
284	20.810	20.631	20.865	VV	4647	597341	9.80%	2.893%
285	20.902	20.865	20.948	VV	4267	205629	3.37%	0.996%
286	20.983	20.948	21.018	VV	4428	171242	2.81%	0.829%
287	21.042	21.018	21.075	VV	3815	124783	2.05%	0.604%
288	21.193	21.075	21.230	VV	4136	353015	5.79%	1.709%
289	21.255	21.230	21.291	VV	3768	133071	2.18%	0.644%
290	21.315	21.291	21.376	VV	3565	170073	2.79%	0.824%
291	21.389	21.376	21.466	VV	3017	149156	2.45%	0.722%
292	21.526	21.466	21.564	VV	2902	153548	2.52%	0.744%
293	21.627	21.564	21.688	VV	2636	176390	2.89%	0.854%
294	21.695	21.688	21.705	VV	2021	19799	0.32%	0.096%
295	21.709	21.705	21.784	VV	1971	83085	1.36%	0.402%
296	21.798	21.784	21.805	VV	1500	18370	0.30%	0.089%
297	21.811	21.805	21.820	VV	1401	12165	0.20%	0.059%
298	21.859	21.820	21.915	VV	1498	74288	1.22%	0.360%
299	21.926	21.915	21.958	VV	1026	23732	0.39%	0.115%

	Area	Area	Area	Area	Area	Area	Area	Area
300	21.964	21.958	21.971	VV	791	6245	0.10%	0.030%
301	22.012	21.971	22.081	VV	798	37898	0.62%	0.184%
302	22.105	22.081	22.130	VV	331	6459	0.11%	0.031%
303	22.177	22.130	22.201	VBA	312	23789	0.39%	0.115%
				Sum of corrected areas:		20650571		

Aliphatic EPH 011425.M Sat Feb 01 00:43:05 2025

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX2	SDG No.:	Q1237
Lab Sample ID:	Q1237-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.3
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 14:51	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.90		1	1.92	2.14	mg/kg	FF015415.D
Aliphatic C9-C28	Aliphatic C9-C28	3.65	J	1	1.84	4.28	mg/kg	FF015415.D
Total AliphaticEPH	Total AliphaticEPH	6.55			3.76	6.42	mg/kg	
Total EPH	Total EPH	6.55			3.76	6.42	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental		Date Collected:	01/30/25	
Project:	Nelson		Date Received:	01/30/25	
Client Sample ID:	HL2PX2		SDG No.:	Q1237	
Lab Sample ID:	Q1237-02		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	93.3	
Sample Wt/Vol:	30.08	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015415.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.65	J	1.84	4.28	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.90		1.92	2.14	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.8		40 - 140	68%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.4		40 - 140	65%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1237-02	Acq On:	31 Jan 2025 14:51
Client Sample ID:	HL2PX2	Operator:	YP\AJ
Data file:	FF015415.D	Misc:	
Instrument:	FID_F	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.833	529531	3.973	300	ug/ml
Aliphatic C12-C16	6.834	10.268	838614	6.059	200	ug/ml
Aliphatic C16-C21	10.269	13.636	6519013	45.127	300	ug/ml
Aliphatic C21-C28	13.637	17.303	1009722	7.09	400	ug/ml
Aliphatic C28-C40	17.304	22.207	4259234	40.686	600	ug/ml
Aliphatic EPH	3.214	22.207	13156114	102.935		ug/ml
ortho-Terphenyl (SURR)	11.931	11.931	5145365	32.36		ug/ml
1-chlorooctadecane (SURR)	13.370	13.370	4209270	33.76		ug/ml
Aliphatic C9-C28	3.214	17.303	8896880	62.249	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
 Data File : FF015415.D
 Signal(s) : FID2B.ch
 Acq On : 31 Jan 2025 14:51
 Operator : YP\AJ
 Sample : Q1237-02
 Misc :
 ALS Vial : 72 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 HL2PX2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
 Quant Time: Jan 31 23:21:48 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.931	5145365	32.363 ug/mlm
Spiked Amount	50.000	Recovery	= 64.73%
12) S 1-chlorooctadecane (S...	13.370	4209270	33.764 ug/ml
Spiked Amount	50.000	Recovery	= 67.53%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
Data File : FF015415.D
Signal(s) : FID2B.ch
Acq On : 31 Jan 2025 14:51
Operator : YP\AJ
Sample : Q1237-02
Misc :
ALS Vial : 72 Sample Multiplier: 1

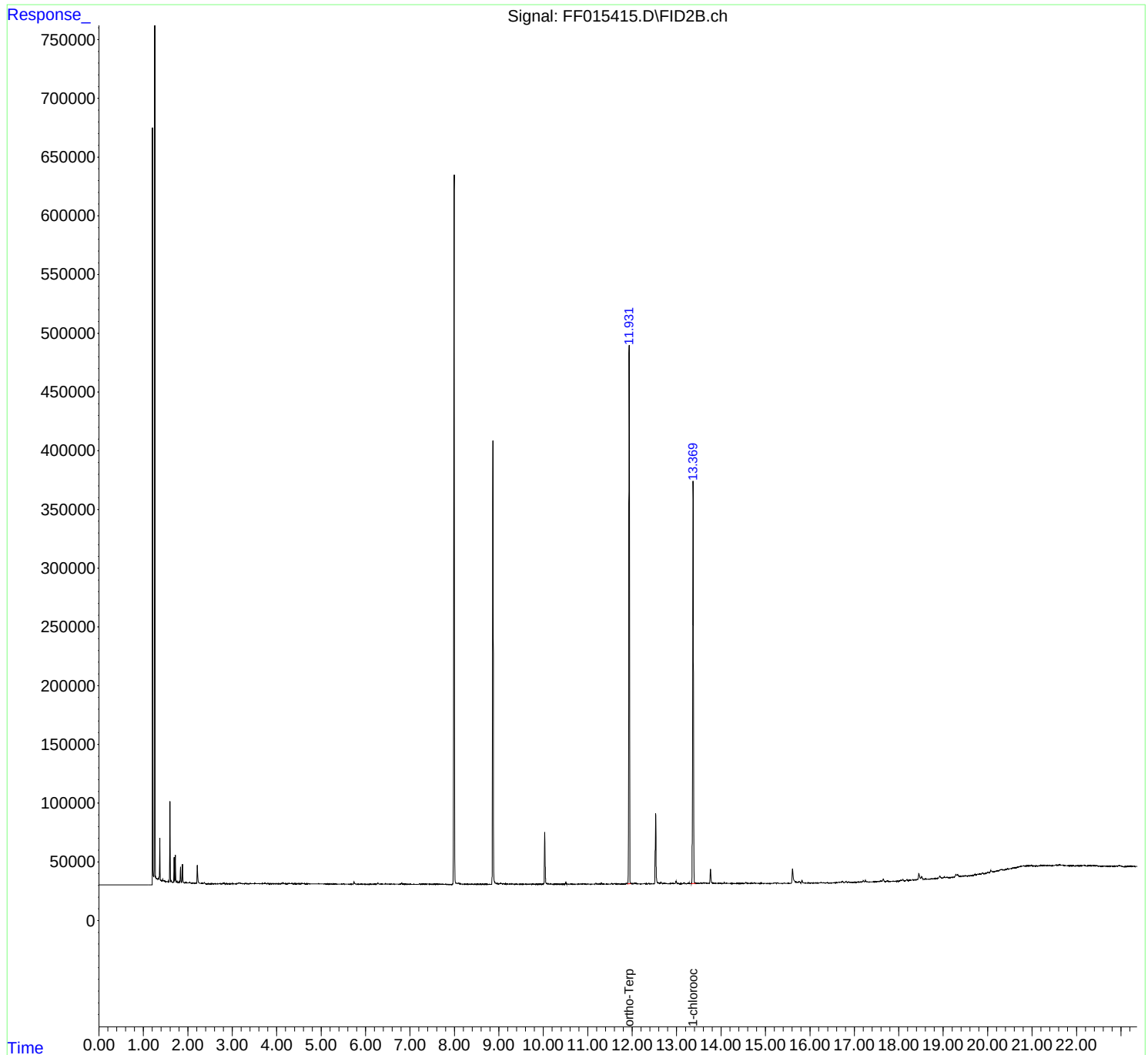
Instrument :
FID_F
ClientSampleId :
HL2PX2

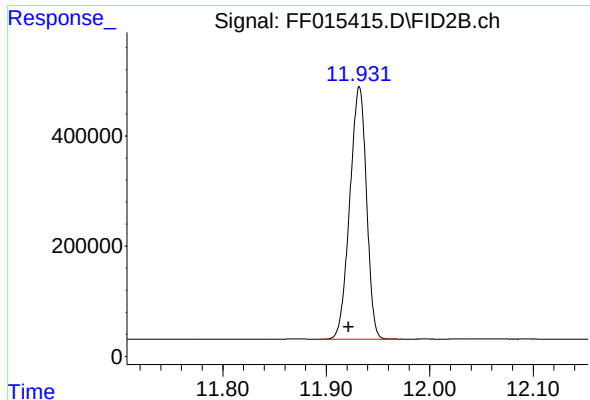
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
Quant Time: Jan 31 23:21:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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





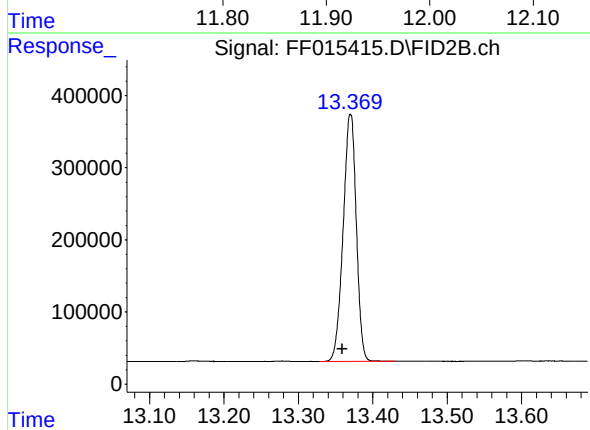
#9 ortho-Terphenyl (SURR)

R.T.: 11.931 min
Delta R.T.: 0.010 min
Response: 5145365
Conc: 32.36 ug/ml

Instrument :
FID_F
ClientSampleId :
HL2PX2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.370 min
Delta R.T.: 0.011 min
Response: 4209270
Conc: 33.76 ug/ml

rteres

Instrument :

FID_F

ClientSampleId :

HL2PX2

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF02012

Data File : FF015415.D

Signal(s) : FID2B.ch

Acq On : 31 Jan 2025 14:51

Sample : Q1237-02

Misc :

ALS Vial : 72 Sample Multiplier: 1

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M

Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.857	2.843	2.869	PV	57	598	0.01%	0.003%
2	2.884	2.869	2.926	VV	125	1293	0.03%	0.007%
3	2.932	2.926	2.958	VV	54	443	0.01%	0.003%
4	2.968	2.958	2.988	VV	68	424	0.01%	0.002%
5	3.005	2.988	3.057	VV	170	3376	0.07%	0.019%
6	3.098	3.057	3.107	PV	161	3432	0.07%	0.020%
7	3.165	3.107	3.252	VV	921	37312	0.72%	0.214%
8	3.259	3.252	3.272	VV	228	2344	0.05%	0.013%
9	3.305	3.272	3.355	VV	309	11430	0.22%	0.066%
10	3.362	3.355	3.371	VV	230	1852	0.04%	0.011%
11	3.375	3.371	3.382	VV	217	1223	0.02%	0.007%
12	3.402	3.382	3.430	VV	302	6701	0.13%	0.038%
13	3.442	3.430	3.462	VV	306	4987	0.10%	0.029%
14	3.501	3.462	3.521	VV	327	9441	0.18%	0.054%
15	3.530	3.521	3.541	VV	283	3213	0.06%	0.018%
16	3.549	3.541	3.608	VV	288	10649	0.21%	0.061%
17	3.616	3.608	3.626	VV	248	2843	0.06%	0.016%
18	3.638	3.626	3.651	VV	310	3910	0.08%	0.022%
19	3.686	3.651	3.704	VV	374	9890	0.19%	0.057%
20	3.736	3.704	3.778	VV	816	20252	0.39%	0.116%
21	3.792	3.778	3.864	VV	715	15009	0.29%	0.086%
22	3.876	3.864	3.883	VV	226	2215	0.04%	0.013%
23	3.907	3.883	3.974	VV	592	13884	0.27%	0.080%
24	3.993	3.974	4.078	VV	410	14740	0.29%	0.084%
25	4.111	4.078	4.128	VV	543	10022	0.19%	0.057%
26	4.142	4.128	4.219	VV	1040	23788	0.46%	0.136%
27	4.277	4.219	4.324	VV	501	23789	0.46%	0.136%
28	4.335	4.324	4.379	VV	434	11219	0.22%	0.064%
29	4.388	4.379	4.444	VV	313	11171	0.22%	0.064%
30	4.461	4.444	4.503	VV	325	9601	0.19%	0.055%
31	4.571	4.503	4.678	VV	551	37189	0.72%	0.213%
32	4.689	4.678	4.714	VV	359	6185	0.12%	0.035%
33	4.735	4.714	4.768	VV	458	9039	0.18%	0.052%
34	4.778	4.768	4.816	VV	265	6130	0.12%	0.035%
35	4.825	4.816	4.853	VV	215	4570	0.09%	0.026%
36	4.892	4.853	4.901	VV	285	6704	0.13%	0.038%

					retention				
37	4.909	4.901	4.915	VV	279	2045	0.04%	0.012%	
38	4.946	4.915	5.012	VV	316	16562			
39	5.035	5.012	5.144	VV	302	17813			
40	5.158	5.144	5.171	VV	209	2917			
41	5.207	5.171	5.245	VV	278	8892			
42	5.271	5.245	5.305	VV	201	5682			
43	5.311	5.305	5.377	VV	162	5578	0.11%	0.032%	
44	5.388	5.377	5.426	VV	159	2645	0.05%	0.015%	
45	5.512	5.426	5.571	VV	529	13027	0.25%	0.075%	
46	5.580	5.571	5.618	VV	150	2419	0.05%	0.014%	
47	5.630	5.618	5.681	PV	103	2648	0.05%	0.015%	
48	5.699	5.681	5.720	VV	137	2366	0.05%	0.014%	
49	5.741	5.720	5.865	VV	2257	34044	0.66%	0.195%	
50	5.888	5.865	5.927	VV	131	2528	0.05%	0.014%	
51	5.947	5.927	5.983	VV	156	2907	0.06%	0.017%	
52	6.019	5.983	6.044	VV	109	2638	0.05%	0.015%	
53	6.071	6.044	6.089	VV	122	1978	0.04%	0.011%	
54	6.105	6.089	6.156	VV	120	3654	0.07%	0.021%	
55	6.169	6.156	6.211	VV	109	2309	0.04%	0.013%	
56	6.223	6.211	6.229	VV	115	875	0.02%	0.005%	
57	6.277	6.229	6.351	VV	1099	25113	0.49%	0.144%	
58	6.368	6.351	6.426	VV	292	10631	0.21%	0.061%	
59	6.448	6.426	6.485	VV	569	10822	0.21%	0.062%	
60	6.497	6.485	6.513	VV	246	3642	0.07%	0.021%	
61	6.528	6.513	6.549	VV	228	4436	0.09%	0.025%	
62	6.574	6.549	6.595	VV	348	6811	0.13%	0.039%	
63	6.623	6.595	6.639	VV	272	5606	0.11%	0.032%	
64	6.682	6.639	6.699	VV	254	6094	0.12%	0.035%	
65	6.729	6.699	6.784	VV	260	7426	0.14%	0.043%	
66	6.814	6.784	6.928	VV	1180	21433	0.42%	0.123%	
67	6.944	6.928	7.004	VV	140	3332	0.06%	0.019%	
68	7.014	7.004	7.041	VV	121	1499	0.03%	0.009%	
69	7.090	7.041	7.134	PV	84	2003	0.04%	0.011%	
70	7.147	7.134	7.161	PV	98	607	0.01%	0.003%	
71	7.216	7.161	7.328	VV	641	18532	0.36%	0.106%	
72	7.371	7.328	7.381	VV	197	4520	0.09%	0.026%	
73	7.401	7.381	7.445	VV	537	10676	0.21%	0.061%	
74	7.454	7.445	7.492	VV	175	2924	0.06%	0.017%	
75	7.515	7.492	7.538	VV	156	2306	0.04%	0.013%	
76	7.614	7.538	7.668	VV	206	11585	0.22%	0.066%	
77	7.679	7.668	7.729	VV	277	4865	0.09%	0.028%	
78	7.747	7.729	7.785	VV	158	2785	0.05%	0.016%	
79	7.810	7.785	7.832	VV	162	2681	0.05%	0.015%	
80	7.844	7.832	7.854	VV	96	647	0.01%	0.004%	
81	7.866	7.854	7.894	VV	99	963	0.02%	0.006%	
82	7.919	7.894	7.946	PV	58	1020	0.02%	0.006%	
83	8.057	8.045	8.075	VV	1168	17926	0.35%	0.103%	
84	8.094	8.075	8.278	VV	1189	52878	1.02%	0.303%	
85	8.286	8.278	8.295	VV	142	1308	0.03%	0.008%	
86	8.303	8.295	8.314	VV	156	1694	0.03%	0.010%	
87	8.334	8.314	8.392	VV	205	6088	0.12%	0.035%	
88	8.406	8.392	8.417	VV	133	1379	0.03%	0.008%	
89	8.459	8.417	8.516	VV	393	11724	0.23%	0.067%	

Instrument :

FID_F

ClientSampleId :

HL2PX2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

90	8.526	8.516	8.537	VV	230	2235	0.04%	0.013%
91	8.559	8.537	8.603	VV	313	6962		
92	8.622	8.603	8.648	VV	177	2799		
93	8.707	8.648	8.739	VV	189	7075		
94	8.746	8.739	8.812	VV	131	3290		
95	8.822	8.812	8.832	VV	83	571		
96	8.991	8.982	9.009	VV	569	8932	0.17%	0.051%
97	9.036	9.009	9.138	VV	1078	46590	0.90%	0.267%
98	9.158	9.138	9.175	VV	390	6606	0.13%	0.038%
99	9.197	9.175	9.232	VV	385	9725	0.19%	0.056%
100	9.253	9.232	9.266	VV	270	5037	0.10%	0.029%
101	9.301	9.266	9.364	VV	543	14827	0.29%	0.085%
102	9.387	9.364	9.424	VV	353	7444	0.14%	0.043%
103	9.433	9.424	9.439	VV	212	1476	0.03%	0.008%
104	9.448	9.439	9.488	VV	221	3663	0.07%	0.021%
105	9.522	9.488	9.535	VV	112	2109	0.04%	0.012%
106	9.541	9.535	9.551	VV	117	1057	0.02%	0.006%
107	9.575	9.551	9.691	VV	244	7642	0.15%	0.044%
108	9.717	9.691	9.751	VV	364	5898	0.11%	0.034%
109	9.768	9.751	9.809	VV	278	4721	0.09%	0.027%
110	9.857	9.809	9.912	VV	179	6096	0.12%	0.035%
111	9.923	9.912	9.977	VV	135	3080	0.06%	0.018%
112	10.035	9.977	10.148	VV	44482	505430	9.79%	2.897%
113	10.166	10.148	10.219	VV	451	9260	0.18%	0.053%
114	10.230	10.219	10.253	VV	139	2147	0.04%	0.012%
115	10.273	10.253	10.300	VV	289	4212	0.08%	0.024%
116	10.339	10.300	10.371	VV	96	2040	0.04%	0.012%
117	10.398	10.371	10.425	VV	141	2743	0.05%	0.016%
118	10.434	10.425	10.451	VV	132	930	0.02%	0.005%
119	10.509	10.451	10.540	PV	2032	26396	0.51%	0.151%
120	10.554	10.540	10.575	VV	228	3084	0.06%	0.018%
121	10.583	10.575	10.591	VV	171	1498	0.03%	0.009%
122	10.613	10.591	10.680	VV	314	10963	0.21%	0.063%
123	10.694	10.680	10.715	VV	184	2414	0.05%	0.014%
124	10.726	10.715	10.770	VV	182	4155	0.08%	0.024%
125	10.793	10.770	10.818	VV	295	4946	0.10%	0.028%
126	10.833	10.818	10.844	VV	233	2773	0.05%	0.016%
127	10.864	10.844	10.877	VV	328	4559	0.09%	0.026%
128	10.905	10.877	10.939	VV	424	8953	0.17%	0.051%
129	10.948	10.939	11.029	VV	290	8577	0.17%	0.049%
130	11.042	11.029	11.066	VV	166	2833	0.05%	0.016%
131	11.074	11.066	11.082	VV	69	598	0.01%	0.003%
132	11.132	11.082	11.154	VV	185	4443	0.09%	0.025%
133	11.183	11.154	11.235	VV	936	16439	0.32%	0.094%
134	11.248	11.235	11.264	VV	205	2793	0.05%	0.016%
135	11.305	11.264	11.345	VV	974	18266	0.35%	0.105%
136	11.362	11.345	11.405	VV	224	5779	0.11%	0.033%
137	11.422	11.405	11.438	VV	186	2658	0.05%	0.015%
138	11.445	11.438	11.463	VV	149	1869	0.04%	0.011%
139	11.472	11.463	11.481	VV	163	1319	0.03%	0.008%
140	11.490	11.481	11.499	VV	148	1159	0.02%	0.007%
141	11.541	11.499	11.564	VV	694	11689	0.23%	0.067%

Instrument :

FID_F

ClientSampleId :

HL2PX2

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 02/03/2025

142	11.610	11.564	11.645	VV	755	17388	0.34%	0.100%
143	11.653	11.645	11.667	VV	168	1932		
144	11.688	11.667	11.740	VV	520	11817		
145	11.772	11.740	11.791	VV	294	4891		
146	11.807	11.791	11.835	VV	266	4078		
147	11.871	11.835	11.895	PV	891	14188		
148	11.932	11.895	11.980	VV	457543	5162613	100.00%	29.594%
149	11.996	11.980	12.011	VV	549	8757	0.17%	0.050%
150	12.035	12.011	12.052	VV	903	16686	0.32%	0.096%
151	12.061	12.052	12.083	VV	748	11726	0.23%	0.067%
152	12.094	12.083	12.143	VV	567	13199	0.26%	0.076%
153	12.154	12.143	12.197	VV	285	7006	0.14%	0.040%
154	12.209	12.197	12.228	VV	244	3791	0.07%	0.022%
155	12.280	12.228	12.349	VV	488	22433	0.43%	0.129%
156	12.375	12.349	12.451	VV	781	19528	0.38%	0.112%
157	12.529	12.451	12.603	VV	59897	750920	14.55%	4.305%
158	12.611	12.603	12.623	VV	793	9113	0.18%	0.052%
159	12.646	12.623	12.694	VV	1179	32798	0.64%	0.188%
160	12.731	12.694	12.831	VV	709	35227	0.68%	0.202%
161	12.856	12.831	12.890	VV	493	13834	0.27%	0.079%
162	12.921	12.890	12.956	VV	674	16897	0.33%	0.097%
163	12.986	12.956	13.028	VV	2358	41942	0.81%	0.240%
164	13.040	13.028	13.088	VV	570	11763	0.23%	0.067%
165	13.099	13.088	13.108	VV	212	2272	0.04%	0.013%
166	13.160	13.108	13.225	VV	965	27030	0.52%	0.155%
167	13.278	13.225	13.326	VV	800	19830	0.38%	0.114%
168	13.370	13.326	13.467	VV	346463	4241985	82.17%	24.316%
169	13.484	13.467	13.515	VV	540	11991	0.23%	0.069%
170	13.544	13.515	13.571	VV	621	17108	0.33%	0.098%
171	13.603	13.571	13.620	VV	1026	20677	0.40%	0.119%
172	13.636	13.620	13.699	VV	832	29490	0.57%	0.169%
173	13.761	13.699	13.864	VV	12545	203279	3.94%	1.165%
174	13.881	13.864	13.919	VV	455	12582	0.24%	0.072%
175	13.940	13.919	13.960	VV	419	9436	0.18%	0.054%
176	13.982	13.960	14.018	VV	449	11965	0.23%	0.069%
177	14.034	14.018	14.046	VV	316	4492	0.09%	0.026%
178	14.074	14.046	14.097	VV	833	14677	0.28%	0.084%
179	14.121	14.097	14.142	VV	558	9763	0.19%	0.056%
180	14.161	14.142	14.228	VV	333	13011	0.25%	0.075%
181	14.247	14.228	14.328	VV	225	7151	0.14%	0.041%
182	14.362	14.328	14.388	VV	196	4965	0.10%	0.028%
183	14.398	14.388	14.435	VV	156	2797	0.05%	0.016%
184	14.489	14.435	14.503	VV	212	4810	0.09%	0.028%
185	14.559	14.503	14.661	VV	985	31155	0.60%	0.179%
186	14.687	14.661	14.720	VV	560	11245	0.22%	0.064%
187	14.748	14.720	14.775	VV	740	13532	0.26%	0.078%
188	14.788	14.775	14.830	VV	381	7849	0.15%	0.045%
189	14.844	14.830	14.891	VV	238	4296	0.08%	0.025%
190	14.910	14.891	14.941	VV	459	7898	0.15%	0.045%
191	14.950	14.941	14.961	VV	146	1239	0.02%	0.007%
192	14.999	14.961	15.041	VV	174	5110	0.10%	0.029%
193	15.064	15.041	15.101	VV	186	3087	0.06%	0.018%
194	15.121	15.101	15.153	VV	141	2242	0.04%	0.013%

Instrument :

FID_F

ClientSampleId :

HL2PX2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

195	15.191	15.153	15.211	VV	517	9379	0.18%	0.054%
196	15.227	15.211	15.250	VV	592	8902		
197	15.273	15.250	15.339	VV	684	11368		
198	15.348	15.339	15.365	VV	39	361		
199	15.368	15.365	15.377	VV	106	268		
200	15.420	15.377	15.443	PV	511	7280		
201	15.458	15.443	15.493	VV	74	1644	0.03%	0.009%
202	15.518	15.493	15.571	VV	104	2132	0.04%	0.012%
203	15.608	15.571	15.721	VV	12517	274518	5.32%	1.574%
204	15.763	15.721	15.788	VV	1354	40868	0.79%	0.234%
205	15.821	15.788	15.861	VV	2623	46275	0.90%	0.265%
206	15.874	15.861	15.928	VV	392	8429	0.16%	0.048%
207	15.932	15.928	15.948	VV	122	1113	0.02%	0.006%
208	15.967	15.948	16.034	VV	435	9148	0.18%	0.052%
209	16.074	16.034	16.088	PV	149	2420	0.05%	0.014%
210	16.218	16.088	16.225	VV	238	9323	0.18%	0.053%
211	16.250	16.225	16.293	VV	863	15369	0.30%	0.088%
212	16.316	16.293	16.338	VV	241	4481	0.09%	0.026%
213	16.387	16.338	16.415	VV	247	5952	0.12%	0.034%
214	16.459	16.415	16.507	VV	84	2468	0.05%	0.014%
215	16.542	16.507	16.552	PV	285	3723	0.07%	0.021%
216	16.558	16.552	16.581	VV	222	2460	0.05%	0.014%
217	16.600	16.581	16.613	VV	223	2819	0.05%	0.016%
218	16.645	16.613	16.678	VV	414	12769	0.25%	0.073%
219	16.698	16.678	16.715	VV	690	12199	0.24%	0.070%
220	16.734	16.715	16.771	VV	1284	22222	0.43%	0.127%
221	16.813	16.771	16.847	VV	1008	20528	0.40%	0.118%
222	16.869	16.847	16.925	VV	550	13674	0.26%	0.078%
223	16.931	16.925	16.985	VV	253	6023	0.12%	0.035%
224	16.994	16.985	17.025	VV	135	2114	0.04%	0.012%
225	17.099	17.025	17.120	VV	294	9557	0.19%	0.055%
226	17.202	17.120	17.228	VV	1396	30320	0.59%	0.174%
227	17.250	17.228	17.271	VV	1098	16923	0.33%	0.097%
228	17.281	17.271	17.305	VV	445	6112	0.12%	0.035%
229	17.314	17.305	17.335	VV	173	2257	0.04%	0.013%
230	17.359	17.335	17.388	VV	162	3247	0.06%	0.019%
231	17.439	17.388	17.471	VV	198	5283	0.10%	0.030%
232	17.491	17.471	17.507	VV	167	2546	0.05%	0.015%
233	17.535	17.507	17.557	VV	304	6013	0.12%	0.034%
234	17.650	17.557	17.708	VV	2400	56983	1.10%	0.327%
235	17.741	17.708	17.811	VV	612	15711	0.30%	0.090%
236	17.831	17.811	17.848	VV	95	1315	0.03%	0.008%
237	17.868	17.848	17.902	VV	125	2458	0.05%	0.014%
238	17.918	17.902	17.931	PV	63	730	0.01%	0.004%
239	18.047	17.931	18.071	VV	848	15633	0.30%	0.090%
240	18.092	18.071	18.118	VV	1570	21693	0.42%	0.124%
241	18.181	18.118	18.215	PV	1107	17310	0.34%	0.099%
242	18.268	18.215	18.281	VV	348	6755	0.13%	0.039%
243	18.285	18.281	18.294	VV	249	1399	0.03%	0.008%
244	18.318	18.294	18.343	VV	577	8383	0.16%	0.048%
245	18.371	18.343	18.387	PV	382	5751	0.11%	0.033%
246	18.412	18.387	18.425	VV	737	10718	0.21%	0.061%

Instrument :

FID_F

ClientSampleId :

HL2PX2

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

rteres									
247	18.452	18.425	18.492	VV	5338	107832	2.09%	0.618%	
248	18.515	18.492	18.557	VV	2653	54531			
249	18.605	18.557	18.631	VV	308	12445			
250	18.667	18.631	18.681	VV	70	2300			
251	18.723	18.681	18.735	PV	115	1101			
252	18.924	18.735	18.981	VV	1963	53721			
253	19.025	18.981	19.052	VV	970	21240	0.41%	0.122%	
254	19.077	19.052	19.121	VV	490	11130	0.22%	0.064%	
255	19.128	19.121	19.139	VV	117	652	0.01%	0.004%	
256	19.284	19.139	19.308	PV	2386	54282	1.05%	0.311%	
257	19.324	19.308	19.379	VV	1935	47257	0.92%	0.271%	
258	19.458	19.379	19.471	VV	415	20493	0.40%	0.117%	
259	19.515	19.471	19.548	VV	522	17473	0.34%	0.100%	
260	19.574	19.548	19.588	VV	202	3084	0.06%	0.018%	
261	19.615	19.588	19.638	PV	440	6602	0.13%	0.038%	
262	19.712	19.638	19.737	VV	1121	29661	0.57%	0.170%	
263	19.771	19.737	19.793	VV	1123	25485	0.49%	0.146%	
264	19.823	19.793	19.847	VV	1070	28122	0.54%	0.161%	
265	19.881	19.847	19.910	VV	1806	45603	0.88%	0.261%	
266	20.009	19.910	20.034	VV	1745	94701	1.83%	0.543%	
267	20.074	20.034	20.105	VV	3009	91821	1.78%	0.526%	
268	20.121	20.105	20.144	VV	1971	44501	0.86%	0.255%	
269	20.296	20.144	20.343	VV	3174	293140	5.68%	1.680%	
270	20.453	20.343	20.478	VV	3391	231881	4.49%	1.329%	
271	20.765	20.478	20.785	VV	4531	690160	13.37%	3.956%	
272	20.813	20.785	20.867	VV	4572	217488	4.21%	1.247%	
273	20.911	20.867	20.944	VV	4362	198327	3.84%	1.137%	
274	20.985	20.944	21.018	VV	4367	181084	3.51%	1.038%	
275	21.098	21.018	21.123	VV	3576	227222	4.40%	1.303%	
276	21.200	21.123	21.229	VV	3709	220205	4.27%	1.262%	
277	21.264	21.229	21.291	VV	3319	122940	2.38%	0.705%	
278	21.310	21.291	21.329	VV	3160	70759	1.37%	0.406%	
279	21.337	21.329	21.371	VV	3018	74004	1.43%	0.424%	
280	21.378	21.371	21.447	VV	2884	123144	2.39%	0.706%	
281	21.533	21.447	21.571	VV	2761	191778	3.71%	1.099%	
282	21.579	21.571	21.588	VV	2475	25363	0.49%	0.145%	
283	21.624	21.588	21.771	VV	2716	234152	4.54%	1.342%	
284	21.785	21.771	21.861	VV	1516	70655	1.37%	0.405%	
285	21.868	21.861	21.906	VV	1116	27517	0.53%	0.158%	
286	21.911	21.906	21.968	VV	925	28968	0.56%	0.166%	
287	21.999	21.968	22.055	VV	722	31709	0.61%	0.182%	
288	22.057	22.055	22.101	VV	488	9048	0.18%	0.052%	
289	22.116	22.101	22.123	VV	240	3015	0.06%	0.017%	
290	22.171	22.123	22.201	VBA	464	28453	0.55%	0.163%	

Sum of corrected areas: 17444980

Aliphatic EPH 011425.M Sat Feb 01 00:43:29 2025

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX3	SDG No.:	Q1237
Lab Sample ID:	Q1237-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.1
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 15:20	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	38.7		1	1.95	2.17	mg/kg FF015416.D
Aliphatic C9-C28	Aliphatic C9-C28	113		2	3.72	8.68	mg/kg FF015433.D
Total AliphaticEPH	Total AliphaticEPH	152			5.67	10.8	mg/kg
Total EPH	Total EPH	152			5.67	10.8	mg/kg

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX3	SDG No.:	Q1237
Lab Sample ID:	Q1237-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015416.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	104	E	1.86	4.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	38.7		1.95	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.6		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.3		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1237-03	Acq On:	31 Jan 2025 15:20
Client Sample ID:	HL2PX3	Operator:	YP\AJ
Data file:	FF015416.D	Misc:	
Instrument:	FID_F	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.833	59211471	444.22	300	ug/ml
Aliphatic C12-C16	6.834	10.268	5986316	43.253	200	ug/ml
Aliphatic C16-C21	10.269	13.636	45108019	312.257	300	ug/ml
Aliphatic C21-C28	13.637	17.303	90506300	635.51	400	ug/ml
Aliphatic C28-C40	17.304	22.207	56119340	536.07	600	ug/ml
Aliphatic EPH	3.214	22.207	256931446	1970		ug/ml
ortho-Terphenyl (SURR)	11.933	11.933	5449280	34.27		ug/ml
1-chlorooctadecane (SURR)	13.371	13.371	4436996	35.59		ug/ml
Aliphatic C9-C28	3.214	17.303	200812106	1440	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
 Data File : FF015416.D
 Signal(s) : FID2B.ch
 Acq On : 31 Jan 2025 15:20
 Operator : YP\AJ
 Sample : Q1237-03
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 HL2PX3

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
 Quant Time: Jan 31 23:22:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.933	5449280	34.274 ug/mlm
Spiked Amount 50.000		Recovery =	68.55%
12) S 1-chlorooctadecane (S...	13.371	4436996	35.591 ug/ml
Spiked Amount 50.000		Recovery =	71.18%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
Data File : FF015416.D
Signal(s) : FID2B.ch
Acq On : 31 Jan 2025 15:20
Operator : YP\AJ
Sample : Q1237-03
Misc :
ALS Vial : 73 Sample Multiplier: 1

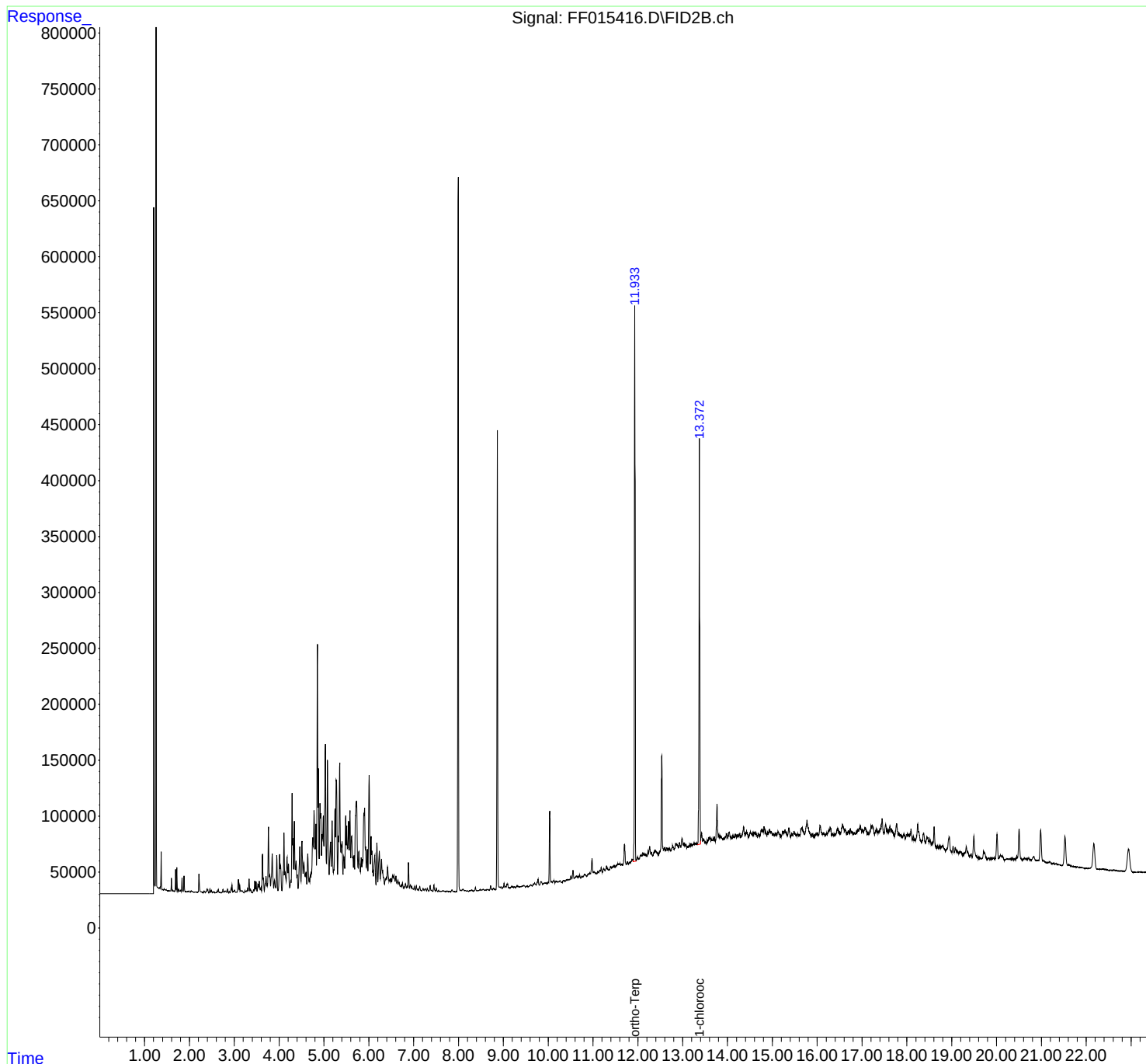
Instrument :
FID_F
ClientSampleId :
HL2PX3

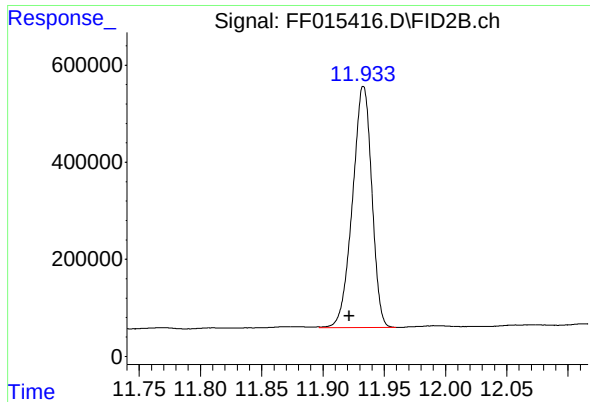
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
Quant Time: Jan 31 23:22:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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





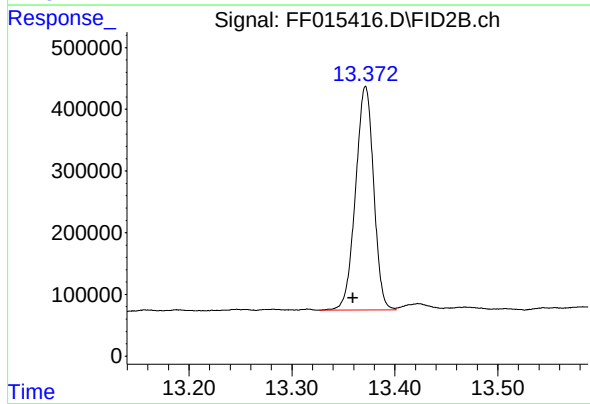
#9 ortho-Terphenyl (SURR)

R.T.: 11.933 min
Delta R.T.: 0.011 min
Response: 5449280
Conc: 34.27 ug/ml

Instrument :
FID_F
ClientSampleId :
HL2PX3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.371 min
Delta R.T.: 0.012 min
Response: 4436996
Conc: 35.59 ug/ml

rters

Instrument :

FID_F

ClientSampleId :

HL2PX3

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF02012
Data File : FF015416.D
Signal(s) : FID2B.ch
Acq On : 31 Jan 2025 15:20
Sample : Q1237-03
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.851	2.802	2.872	BV	2882	22675	0.36%	0.008%
2	2.890	2.872	2.907	PV	809	7714	0.12%	0.003%
3	2.949	2.907	2.970	PV	6857	103801	1.63%	0.038%
4	2.982	2.970	2.988	VV	1029	8967	0.14%	0.003%
5	3.004	2.988	3.036	VV	2243	32560	0.51%	0.012%
6	3.052	3.036	3.060	VV	550	5449	0.09%	0.002%
7	3.092	3.060	3.109	VV	11898	166703	2.62%	0.062%
8	3.121	3.109	3.145	VV	6924	84110	1.32%	0.031%
9	3.159	3.145	3.167	VV	1560	17601	0.28%	0.007%
10	3.178	3.167	3.217	VV	1717	25388	0.40%	0.009%
11	3.239	3.217	3.256	VV	1814	19796	0.31%	0.007%
12	3.273	3.256	3.285	VV	1637	19717	0.31%	0.007%
13	3.301	3.285	3.312	VV	4092	46065	0.72%	0.017%
14	3.330	3.312	3.349	VV	12243	143087	2.25%	0.053%
15	3.359	3.349	3.403	VV	3187	45185	0.71%	0.017%
16	3.430	3.403	3.439	PV	2584	25935	0.41%	0.010%
17	3.457	3.439	3.473	VV	10520	117761	1.85%	0.044%
18	3.487	3.473	3.508	VV	9723	111192	1.75%	0.041%
19	3.529	3.508	3.542	VV	7648	101222	1.59%	0.038%
20	3.558	3.542	3.578	VV	10337	135207	2.12%	0.050%
21	3.596	3.578	3.608	VV	4573	57785	0.91%	0.021%
22	3.628	3.608	3.670	VV	34310	512090	8.04%	0.190%
23	3.708	3.670	3.740	VV	14354	332471	5.22%	0.123%
24	3.762	3.740	3.810	VV	58600	941123	14.78%	0.349%
25	3.846	3.810	3.879	VV	34795	672993	10.57%	0.249%
26	3.898	3.879	3.928	VV	10987	206251	3.24%	0.076%
27	3.949	3.928	3.975	VV	33193	365870	5.74%	0.136%
28	4.011	3.975	4.026	VV	34126	512792	8.05%	0.190%
29	4.034	4.026	4.062	VV	23956	296202	4.65%	0.110%
30	4.109	4.062	4.157	VV	53450	1068859	16.78%	0.396%
31	4.177	4.157	4.196	VV	31189	508374	7.98%	0.188%
32	4.210	4.196	4.238	VV	25642	381525	5.99%	0.141%
33	4.260	4.238	4.267	VV	10567	134050	2.10%	0.050%
34	4.290	4.267	4.323	VV	87836	1486890	23.35%	0.551%
35	4.340	4.323	4.363	VV	63501	899768	14.13%	0.334%
36	4.379	4.363	4.424	VV	27943	613230	9.63%	0.227%

Parameters									
37	4.462	4.424	4.488	VV	41180	774501	12.16%	0.287%	
38	4.509	4.488	4.535	VV	45860	794148	12.16%	0.287%	
39	4.552	4.535	4.590	VV	26676	642699	10.36%	0.378%	
40	4.601	4.590	4.618	VV	18482	235107	3.33%	0.304%	
41	4.639	4.618	4.683	VV	34722	686235	10.36%	0.384%	
42	4.699	4.683	4.708	VV	15786	196487	3.33%	0.378%	
43	4.750	4.708	4.764	VV	48943	1035460	16.26%	0.384%	
44	4.780	4.764	4.805	VV	72733	1303177	20.46%	0.483%	
45	4.820	4.805	4.834	VV	61111	819137	12.86%	0.304%	
46	4.854	4.834	4.893	VV	218864	3590079	56.37%	1.331%	
47	4.913	4.893	4.946	VV	79431	1890343	29.68%	0.701%	
48	4.959	4.946	4.967	VV	51880	596248	9.36%	0.221%	
49	4.985	4.967	4.998	VV	68611	1019121	16.00%	0.378%	
50	5.031	4.998	5.056	VV	132881	2584214	40.57%	0.958%	
51	5.079	5.056	5.116	VV	117924	1925117	30.23%	0.714%	
52	5.146	5.116	5.163	VV	44975	910959	14.30%	0.338%	
53	5.182	5.163	5.208	VV	63957	1048717	16.47%	0.389%	
54	5.246	5.208	5.257	VV	74996	1156329	18.16%	0.429%	
55	5.276	5.257	5.304	VV	100169	1969366	30.92%	0.730%	
56	5.351	5.304	5.379	VV	116101	2518299	39.54%	0.934%	
57	5.404	5.379	5.425	VV	45505	999420	15.69%	0.370%	
58	5.445	5.425	5.463	VV	31833	611770	9.61%	0.227%	
59	5.485	5.463	5.498	VV	68668	986857	15.49%	0.366%	
60	5.508	5.498	5.532	VV	59413	950654	14.93%	0.352%	
61	5.550	5.532	5.564	VV	63478	967814	15.20%	0.359%	
62	5.580	5.564	5.597	VV	73246	1075797	16.89%	0.399%	
63	5.617	5.597	5.658	VV	50274	1384354	21.74%	0.513%	
64	5.672	5.658	5.684	VV	32901	417367	6.55%	0.155%	
65	5.730	5.684	5.760	VV	82113	2589813	40.66%	0.960%	
66	5.778	5.760	5.813	VV	36453	853856	13.41%	0.317%	
67	5.832	5.813	5.845	VV	30943	493104	7.74%	0.183%	
68	5.906	5.845	5.946	VV	74944	2734627	42.94%	1.014%	
69	5.967	5.946	5.981	VV	38547	606524	9.52%	0.225%	
70	6.008	5.981	6.037	VV	104724	1962010	30.80%	0.727%	
71	6.051	6.037	6.063	VV	49705	598669	9.40%	0.222%	
72	6.069	6.063	6.103	VV	37051	574726	9.02%	0.213%	
73	6.133	6.103	6.160	VV	32885	756681	11.88%	0.281%	
74	6.182	6.160	6.203	VV	44118	605095	9.50%	0.224%	
75	6.235	6.203	6.256	VV	36697	748814	11.76%	0.278%	
76	6.284	6.256	6.350	VV	29591	969088	15.22%	0.359%	
77	6.371	6.350	6.381	VV	12163	191620	3.01%	0.071%	
78	6.420	6.381	6.452	VV	22558	638806	10.03%	0.237%	
79	6.477	6.452	6.491	VV	11911	243696	3.83%	0.090%	
80	6.503	6.491	6.514	VV	12193	145450	2.28%	0.054%	
81	6.531	6.514	6.547	VV	14748	264878	4.16%	0.098%	
82	6.560	6.547	6.587	VV	15450	307565	4.83%	0.114%	
83	6.606	6.587	6.628	VV	14407	271834	4.27%	0.101%	
84	6.650	6.628	6.667	VV	10696	210688	3.31%	0.078%	
85	6.677	6.667	6.700	VV	8761	137651	2.16%	0.051%	
86	6.725	6.700	6.737	VV	6479	123740	1.94%	0.046%	
87	6.752	6.737	6.782	VV	8128	151046	2.37%	0.056%	
88	6.818	6.782	6.841	VV	7545	186274	2.92%	0.069%	
89	6.886	6.841	6.910	VV	26588	402148	6.31%	0.149%	

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90	6.930	6.910	6.948	VV	6184	117675	1.85%	0.044%
91	6.959	6.948	6.975	VV	5248	65422		
92	6.987	6.975	7.000	VV	3122	41560		
93	7.016	7.000	7.037	VV	4822	72326		
94	7.060	7.037	7.085	VV	5670	97162		
95	7.096	7.085	7.110	VV	2762	32315		
96	7.138	7.110	7.173	VV	4981	101026	1.59%	0.037%
97	7.211	7.173	7.231	VV	3385	68758	1.08%	0.025%
98	7.263	7.231	7.286	VV	2930	69387	1.09%	0.026%
99	7.305	7.286	7.339	VV	3320	59581	0.94%	0.022%
100	7.368	7.339	7.393	VV	5750	88640	1.39%	0.033%
101	7.402	7.393	7.432	VV	1363	23449	0.37%	0.009%
102	7.453	7.432	7.487	VV	6471	90984	1.43%	0.034%
103	7.506	7.487	7.534	VV	3565	48957	0.77%	0.018%
104	7.552	7.534	7.608	VV	1474	31556	0.50%	0.012%
105	7.656	7.608	7.704	VV	1358	42305	0.66%	0.016%
106	7.732	7.704	7.781	VV	665	21918	0.34%	0.008%
107	7.802	7.781	7.827	VV	660	12054	0.19%	0.004%
108	7.855	7.827	7.885	VV	1977	33649	0.53%	0.012%
109	7.903	7.885	7.925	VV	574	7855	0.12%	0.003%
110	8.055	8.039	8.074	VV	1447	24283	0.38%	0.009%
111	8.108	8.074	8.129	VV	2084	50106	0.79%	0.019%
112	8.140	8.129	8.148	VV	977	10498	0.16%	0.004%
113	8.158	8.148	8.178	VV	1022	13685	0.21%	0.005%
114	8.201	8.178	8.224	VV	608	10773	0.17%	0.004%
115	8.263	8.224	8.274	VV	893	15638	0.25%	0.006%
116	8.290	8.274	8.331	VV	1271	21613	0.34%	0.008%
117	8.379	8.331	8.418	VV	3444	55051	0.86%	0.020%
118	8.438	8.418	8.448	VV	590	7744	0.12%	0.003%
119	8.482	8.448	8.497	VV	1493	25756	0.40%	0.010%
120	8.511	8.497	8.525	VV	1097	14080	0.22%	0.005%
121	8.546	8.525	8.585	VV	1405	35081	0.55%	0.013%
122	8.606	8.585	8.613	VV	729	10350	0.16%	0.004%
123	8.635	8.613	8.648	VV	1071	18694	0.29%	0.007%
124	8.659	8.648	8.677	VV	997	13170	0.21%	0.005%
125	8.719	8.677	8.762	VV	4440	80103	1.26%	0.030%
126	8.782	8.762	8.828	VV	2236	49273	0.77%	0.018%
127	8.919	8.909	8.933	VV	3023	38602	0.61%	0.014%
128	8.952	8.933	8.973	VV	3128	58333	0.92%	0.022%
129	9.018	8.973	9.037	VV	6381	126683	1.99%	0.047%
130	9.054	9.037	9.065	VV	3411	50717	0.80%	0.019%
131	9.084	9.065	9.121	VV	5350	134617	2.11%	0.050%
132	9.135	9.121	9.147	VV	2122	30158	0.47%	0.011%
133	9.184	9.147	9.199	VV	3406	77942	1.22%	0.029%
134	9.212	9.199	9.230	VV	2838	47247	0.74%	0.018%
135	9.247	9.230	9.269	VV	2885	55481	0.87%	0.021%
136	9.309	9.269	9.342	VV	3878	119464	1.88%	0.044%
137	9.354	9.342	9.366	VV	2654	34753	0.55%	0.013%
138	9.380	9.366	9.412	VV	2638	66638	1.05%	0.025%
139	9.428	9.412	9.440	VV	3242	49958	0.78%	0.019%
140	9.456	9.440	9.499	VV	3649	105673	1.66%	0.039%
141	9.530	9.499	9.556	VV	3114	87330	1.37%	0.032%

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rteres								
142	9.616	9.556	9.644	VV	3918	159031	2.50%	0.059%
143	9.672	9.644	9.682	VV	4604	85544		
144	9.697	9.682	9.734	VV	5034	135208		
145	9.776	9.734	9.805	VV	8629	235307		
146	9.839	9.805	9.878	VV	6378	220486		
147	9.917	9.878	9.944	VV	5011	184707		
148	9.955	9.944	9.971	VV	5014	75361	1.18%	0.028%
149	9.997	9.971	10.012	VV	5792	123353	1.94%	0.046%
150	10.035	10.012	10.066	VV	68947	844010	13.25%	0.313%
151	10.077	10.066	10.095	VV	6267	101653	1.60%	0.038%
152	10.119	10.095	10.153	VV	6813	210279	3.30%	0.078%
153	10.173	10.153	10.215	VV	6556	214271	3.36%	0.079%
154	10.226	10.215	10.231	VV	5671	54693	0.86%	0.020%
155	10.268	10.231	10.310	VV	6770	274192	4.30%	0.102%
156	10.341	10.310	10.381	VV	6882	257147	4.04%	0.095%
157	10.407	10.381	10.422	VV	7323	167533	2.63%	0.062%
158	10.439	10.422	10.456	VV	7394	142683	2.24%	0.053%
159	10.475	10.456	10.484	VV	7385	123079	1.93%	0.046%
160	10.509	10.484	10.530	VV	10594	241408	3.79%	0.089%
161	10.555	10.530	10.581	VV	15357	340760	5.35%	0.126%
162	10.638	10.581	10.667	VV	10226	480935	7.55%	0.178%
163	10.704	10.667	10.729	VV	11142	356448	5.60%	0.132%
164	10.755	10.729	10.778	VV	9937	274172	4.30%	0.102%
165	10.809	10.778	10.863	VV	11244	528250	8.29%	0.196%
166	10.929	10.863	10.943	VV	12618	544846	8.55%	0.202%
167	10.980	10.943	11.005	VV	25520	644293	10.12%	0.239%
168	11.021	11.005	11.055	VV	13707	384122	6.03%	0.142%
169	11.069	11.055	11.082	VV	12262	199860	3.14%	0.074%
170	11.109	11.082	11.127	VV	13449	343183	5.39%	0.127%
171	11.149	11.127	11.165	VV	14368	308632	4.85%	0.114%
172	11.184	11.165	11.208	VV	17087	384772	6.04%	0.143%
173	11.238	11.208	11.262	VV	15762	472368	7.42%	0.175%
174	11.303	11.262	11.350	VV	18154	833404	13.08%	0.309%
175	11.393	11.350	11.408	VV	17456	552369	8.67%	0.205%
176	11.414	11.408	11.428	VV	16704	198972	3.12%	0.074%
177	11.446	11.428	11.453	VV	17433	258603	4.06%	0.096%
178	11.471	11.453	11.493	VV	18274	422960	6.64%	0.157%
179	11.557	11.493	11.575	VV	19629	908831	14.27%	0.337%
180	11.589	11.575	11.622	VV	19815	544650	8.55%	0.202%
181	11.637	11.622	11.662	VV	19655	459563	7.22%	0.170%
182	11.702	11.662	11.743	VV	37001	1209551	18.99%	0.448%
183	11.768	11.743	11.789	VV	21304	545221	8.56%	0.202%
184	11.809	11.789	11.828	VV	20957	470547	7.39%	0.174%
185	11.873	11.828	11.892	VV	23316	843330	13.24%	0.313%
186	11.933	11.892	11.963	VV	518692	6369167	100.00%	2.361%
187	11.992	11.963	12.014	VV	25115	736655	11.57%	0.273%
188	12.024	12.014	12.033	VV	23596	268583	4.22%	0.100%
189	12.074	12.033	12.092	VV	26899	899384	14.12%	0.333%
190	12.114	12.092	12.149	VV	28756	947801	14.88%	0.351%
191	12.165	12.149	12.208	VV	27356	935978	14.70%	0.347%
192	12.229	12.208	12.240	VV	30353	530628	8.33%	0.197%
193	12.262	12.240	12.288	VV	34434	899217	14.12%	0.333%
194	12.302	12.288	12.332	VV	28848	721989	11.34%	0.268%

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195	12.391	12.332	12.458	VV	30536	2138854	33.58%	0.793%
196	12.483	12.458	12.490	VV	29416	548518		
197	12.532	12.490	12.571	VV	114941	2515825	39.81%	0.793%
198	12.592	12.571	12.615	VV	32572	820776	12.15%	0.793%
199	12.621	12.615	12.629	VV	30657	249620	3.42%	0.793%
200	12.646	12.629	12.662	VV	32358	628577	9.31%	0.793%
201	12.680	12.662	12.691	VV	31357	529585	8.31%	0.196%
202	12.706	12.691	12.733	VV	31890	773996	12.15%	0.287%
203	12.776	12.733	12.810	VV	34209	1482453	23.28%	0.550%
204	12.847	12.810	12.905	VV	35912	1923818	30.21%	0.713%
205	12.927	12.905	12.957	VV	36486	1079583	16.95%	0.400%
206	12.987	12.957	13.014	VV	40270	1247879	19.59%	0.463%
207	13.032	13.014	13.053	VV	36299	811914	12.75%	0.301%
208	13.071	13.053	13.100	VV	34799	946935	14.87%	0.351%
209	13.114	13.100	13.128	VV	33161	536215	8.42%	0.199%
210	13.159	13.128	13.175	VV	34870	953110	14.96%	0.353%
211	13.189	13.175	13.215	VV	35069	820069	12.88%	0.304%
212	13.246	13.215	13.265	VV	35667	1039247	16.32%	0.385%
213	13.281	13.265	13.301	VV	35809	757428	11.89%	0.281%
214	13.315	13.301	13.326	VV	36055	534969	8.40%	0.198%
215	13.371	13.326	13.401	VV	397856	5980834	93.90%	2.217%
216	13.422	13.401	13.447	VV	44703	1128704	17.72%	0.418%
217	13.469	13.447	13.495	VV	39121	1089159	17.10%	0.404%
218	13.508	13.495	13.526	VV	36626	667538	10.48%	0.247%
219	13.555	13.526	13.564	VV	38039	831860	13.06%	0.308%
220	13.607	13.564	13.635	VV	40064	1668660	26.20%	0.619%
221	13.647	13.635	13.659	VV	38189	557586	8.75%	0.207%
222	13.676	13.659	13.688	VV	39020	662366	10.40%	0.246%
223	13.703	13.688	13.728	VV	40813	911397	14.31%	0.338%
224	13.764	13.728	13.793	VV	69483	1931789	30.33%	0.716%
225	13.807	13.793	13.831	VV	42166	927219	14.56%	0.344%
226	13.851	13.831	13.893	VV	41044	1476762	23.19%	0.547%
227	13.914	13.893	13.932	VV	39322	900551	14.14%	0.334%
228	13.980	13.932	14.001	VV	43307	1704559	26.76%	0.632%
229	14.036	14.001	14.095	VV	44358	2310725	36.28%	0.857%
230	14.121	14.095	14.157	VV	41240	1496624	23.50%	0.555%
231	14.176	14.157	14.195	VV	41507	921268	14.46%	0.342%
232	14.208	14.195	14.218	VV	41568	565248	8.87%	0.210%
233	14.226	14.218	14.234	VV	40594	389105	6.11%	0.144%
234	14.271	14.234	14.294	VV	42540	1483530	23.29%	0.550%
235	14.359	14.294	14.385	VV	48686	2356967	37.01%	0.874%
236	14.430	14.385	14.468	VV	43866	2112786	33.17%	0.783%
237	14.506	14.468	14.562	VV	43726	2339808	36.74%	0.867%
238	14.592	14.562	14.622	VV	43382	1516416	23.81%	0.562%
239	14.636	14.622	14.665	VV	42798	1074322	16.87%	0.398%
240	14.688	14.665	14.707	VV	42162	1022072	16.05%	0.379%
241	14.752	14.707	14.792	VV	45863	2209158	34.69%	0.819%
242	14.813	14.792	14.869	VV	48229	2049928	32.19%	0.760%
243	14.936	14.869	14.958	VV	45778	2280552	35.81%	0.845%
244	14.976	14.958	15.004	VV	43284	1156643	18.16%	0.429%
245	15.018	15.004	15.041	VV	41504	911510	14.31%	0.338%
246	15.066	15.041	15.095	VV	40970	1316689	20.67%	0.488%

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247	15.121	15.095	15.178	VV	42945	2057215	32.30%	0.763%
248	15.226	15.178	15.240	VV	43277	1495422		
249	15.281	15.240	15.335	VV	43981	2409375		
250	15.367	15.335	15.403	VV	45989	1713806		
251	15.429	15.403	15.457	VV	41083	1293004		
252	15.481	15.457	15.545	VV	42680	2130507		
253	15.563	15.545	15.598	VV	40701	1275859	20.03%	0.473%
254	15.605	15.598	15.612	VV	39439	329823	5.18%	0.122%
255	15.664	15.612	15.715	VV	45412	2639934	41.45%	0.979%
256	15.771	15.715	15.863	VV	52539	3909238	61.38%	1.449%
257	15.887	15.863	15.910	VV	40448	1092284	17.15%	0.405%
258	15.933	15.910	15.941	VV	38490	706969	11.10%	0.262%
259	15.972	15.941	15.989	VV	40216	1116725	17.53%	0.414%
260	16.005	15.989	16.031	VV	40529	995998	15.64%	0.369%
261	16.063	16.031	16.123	VV	47221	2345025	36.82%	0.869%
262	16.139	16.123	16.173	VV	40460	1176889	18.48%	0.436%
263	16.253	16.173	16.263	VV	42666	2180669	34.24%	0.808%
264	16.288	16.263	16.328	VV	45188	1642471	25.79%	0.609%
265	16.349	16.328	16.372	VV	38957	996786	15.65%	0.370%
266	16.384	16.372	16.395	VV	39684	550407	8.64%	0.204%
267	16.406	16.395	16.414	VV	38788	423118	6.64%	0.157%
268	16.458	16.414	16.478	VV	44075	1621026	25.45%	0.601%
269	16.493	16.478	16.515	VV	40981	889122	13.96%	0.330%
270	16.565	16.515	16.603	VV	47198	2315907	36.36%	0.859%
271	16.620	16.603	16.662	VV	43520	1437355	22.57%	0.533%
272	16.698	16.662	16.715	VV	41645	1284564	20.17%	0.476%
273	16.737	16.715	16.755	VV	43373	987277	15.50%	0.366%
274	16.771	16.755	16.805	VV	41093	1193896	18.74%	0.443%
275	16.825	16.805	16.847	VV	39886	994649	15.62%	0.369%
276	16.963	16.847	16.991	VV	45624	3596861	56.47%	1.333%
277	17.005	16.991	17.025	VV	42828	835809	13.12%	0.310%
278	17.063	17.025	17.135	VV	44120	2716379	42.65%	1.007%
279	17.201	17.135	17.212	VV	45661	1853431	29.10%	0.687%
280	17.227	17.212	17.279	VV	45932	1712920	26.89%	0.635%
281	17.323	17.279	17.361	VV	41397	1956328	30.72%	0.725%
282	17.447	17.361	17.488	VV	51388	3272764	51.38%	1.213%
283	17.524	17.488	17.575	VV	46146	2169254	34.06%	0.804%
284	17.589	17.575	17.601	VV	40889	637306	10.01%	0.236%
285	17.620	17.601	17.641	VV	44760	996991	15.65%	0.370%
286	17.653	17.641	17.727	VV	41466	2005590	31.49%	0.743%
287	17.772	17.727	17.812	VV	46515	2052534	32.23%	0.761%
288	17.825	17.812	17.844	VV	37391	707089	11.10%	0.262%
289	17.862	17.844	17.873	VV	36461	620503	9.74%	0.230%
290	17.878	17.873	17.912	VV	35548	804591	12.63%	0.298%
291	17.928	17.912	17.965	VV	36453	1127003	17.69%	0.418%
292	18.001	17.965	18.018	VV	36404	1128947	17.73%	0.419%
293	18.031	18.018	18.055	VV	36152	784033	12.31%	0.291%
294	18.091	18.055	18.118	VV	41539	1377266	21.62%	0.511%
295	18.140	18.118	18.177	VV	35071	1150022	18.06%	0.426%
296	18.187	18.177	18.196	VV	31661	358769	5.63%	0.133%
297	18.239	18.196	18.320	VV	45338	2648501	41.58%	0.982%
298	18.372	18.320	18.422	VV	37311	1948811	30.60%	0.722%
299	18.442	18.422	18.496	VV	33391	1412944	22.18%	0.524%

Instrument :

FID_F

ClientSampleId :

HL2PX3

Manual IntegrationsAPPROVED

 Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Instrument :

FID_F

ClientSampleId :

HL2PX3

300	18.515	18.496	18.541	VV	31507	774189	12.16%	0.287%
301	18.606	18.541	18.662	VV	42289	2123253	33.90%	0.000%
302	18.677	18.662	18.704	VV	24568	602804	9.90%	0.000%
303	18.726	18.704	18.746	VV	24507	616587	9.90%	0.000%
304	18.766	18.746	18.775	VV	24720	417590	6.60%	0.000%
305	18.792	18.775	18.857	VV	25029	1159509	18.40%	0.000%
306	18.943	18.857	18.998	VV	32968	2060902	32.36%	0.764%
307	19.029	18.998	19.054	VV	24424	704617	11.06%	0.261%
308	19.078	19.054	19.148	VV	23169	1128844	17.72%	0.418%
309	19.175	19.148	19.192	VV	18853	482639	7.58%	0.179%
310	19.199	19.192	19.260	VV	18792	728658	11.44%	0.270%
311	19.324	19.260	19.346	VV	23884	992082	15.58%	0.368%
312	19.358	19.346	19.398	VV	19193	528420	8.30%	0.196%
313	19.431	19.398	19.458	VV	16672	552275	8.67%	0.205%
314	19.492	19.458	19.558	VV	32717	1216892	19.11%	0.451%
315	19.571	19.558	19.602	VV	14233	356675	5.60%	0.132%
316	19.612	19.602	19.667	VV	13275	494277	7.76%	0.183%
317	19.711	19.667	19.725	VV	18913	529882	8.32%	0.196%
318	19.734	19.725	19.800	VV	17407	634959	9.97%	0.235%
319	19.827	19.800	19.862	VV	12993	449225	7.05%	0.167%
320	19.902	19.862	19.915	VV	12353	391326	6.14%	0.145%
321	19.942	19.915	19.964	VV	12665	354010	5.56%	0.131%
322	20.009	19.964	20.048	VV	33495	994470	15.61%	0.369%
323	20.087	20.048	20.175	VV	15231	989664	15.54%	0.367%
324	20.238	20.175	20.252	VV	11456	503369	7.90%	0.187%
325	20.319	20.252	20.338	VV	11473	573201	9.00%	0.212%
326	20.355	20.338	20.385	VV	11311	305028	4.79%	0.113%
327	20.403	20.385	20.425	VV	10999	257211	4.04%	0.095%
328	20.452	20.425	20.466	VV	13327	297973	4.68%	0.110%
329	20.502	20.466	20.575	VV	37643	1176025	18.46%	0.436%
330	20.630	20.575	20.692	VV	11292	741950	11.65%	0.275%
331	20.720	20.692	20.777	VV	10815	523750	8.22%	0.194%
332	20.833	20.777	20.881	VV	12638	661606	10.39%	0.245%
333	20.920	20.881	20.933	VV	9176	280103	4.40%	0.104%
334	20.982	20.933	21.152	VV	35867	1599691	25.12%	0.593%
335	21.187	21.152	21.235	VV	7618	329541	5.17%	0.122%
336	21.259	21.235	21.305	VV	5724	231088	3.63%	0.086%
337	21.310	21.305	21.360	VV	5284	163617	2.57%	0.061%
338	21.367	21.360	21.468	VV	4568	267986	4.21%	0.099%
339	21.526	21.468	21.592	VV	29285	903142	14.18%	0.335%
340	21.617	21.592	21.832	VV	3841	347453	5.46%	0.129%
341	21.844	21.832	21.952	VV	1490	76239	1.20%	0.028%
342	21.962	21.952	22.017	VV	443	13067	0.21%	0.005%
343	22.025	22.017	22.034	VV	145	1336	0.02%	0.000%
344	22.044	22.034	22.058	PV	148	1101	0.02%	0.000%
345	22.169	22.058	22.202	PBA	17209	421868	6.62%	0.156%

Sum of corrected areas: 269756420

Aliphatic EPH 011425.M Sat Feb 01 00:44:02 2025

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX3DL	SDG No.:	Q1237
Lab Sample ID:	Q1237-03DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015433.D	2	01/31/25	02/03/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	113		3.72	8.68	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	35.6		3.90	4.34	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	17.7		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	17.5		40 - 140	70%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1237-03DL	Acq On:	03 Feb 2025 12:25
Client Sample ID:	HL2PX3DL	Operator:	YP\AJ
Data file:	FF015433.D	Misc:	
Instrument:	FID_F	ALS Vial:	73
Dilution Factor:	2	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.213	6.835	29344354	220.149	300	ug/ml
Aliphatic C12-C16	6.836	10.270	2766807	19.991	200	ug/ml
Aliphatic C16-C21	10.271	13.640	18609013	128.82	300	ug/ml
Aliphatic C21-C28	13.641	17.307	59333021	416.62	400	ug/ml
Aliphatic C28-C40	17.308	22.219	25799797	246.448	600	ug/ml
Aliphatic EPH	3.213	22.219	135852992	1030		ug/ml
ortho-Terphenyl (SURR)	11.935	11.935	2785876	17.52		ug/ml
1-chlorooctadecane (SURR)	13.374	13.374	2201644	17.66		ug/ml
Aliphatic C9-C28	3.213	17.307	110053195	785.58	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020325AL\
 Data File : FF015433.D
 Signal(s) : FID2B.ch
 Acq On : 03 Feb 2025 12:25
 Operator : YP\AJ
 Sample : Q1237-03DL 2X
 Misc :
 ALS Vial : 73 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 HL2PX3DL

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/04/2025
 Supervised By :Ankita Jodhani 02/04/2025

Integration File: autoint1.e
 Quant Time: Feb 04 04:34:24 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.935	2785876	17.522 ug/mlm
Spiked Amount 50.000		Recovery =	35.04%
12) S 1-chlorooctadecane (S...	13.374	2201644	17.660 ug/mlm
Spiked Amount 50.000		Recovery =	35.32%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020325AL\
Data File : FF015433.D
Signal(s) : FID2B.ch
Acq On : 03 Feb 2025 12:25
Operator : YP\AJ
Sample : Q1237-03DL 2X
Misc :
ALS Vial : 73 Sample Multiplier: 1

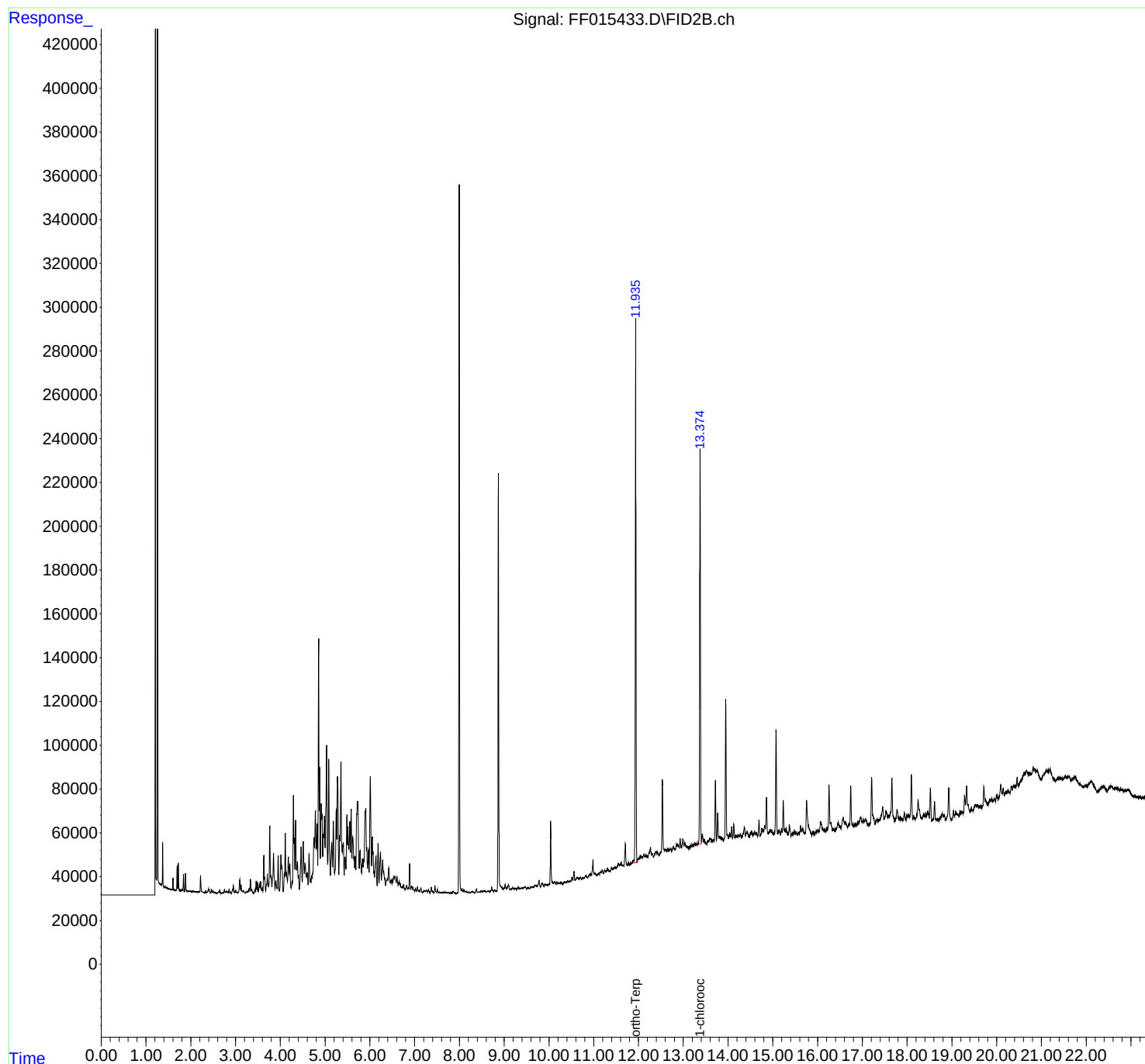
Instrument :
FID_F
ClientSampleId :
HL2PX3DL

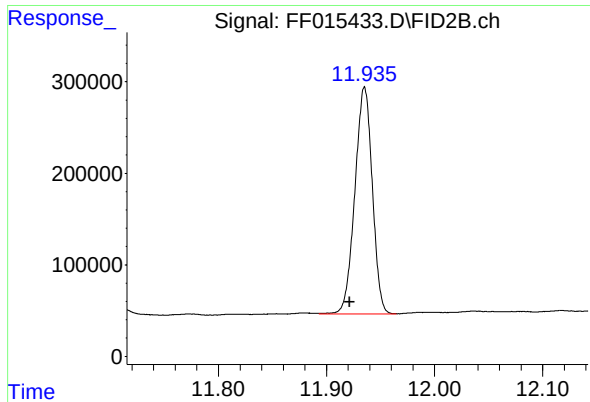
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

Integration File: autoint1.e
Quant Time: Feb 04 04:34:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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





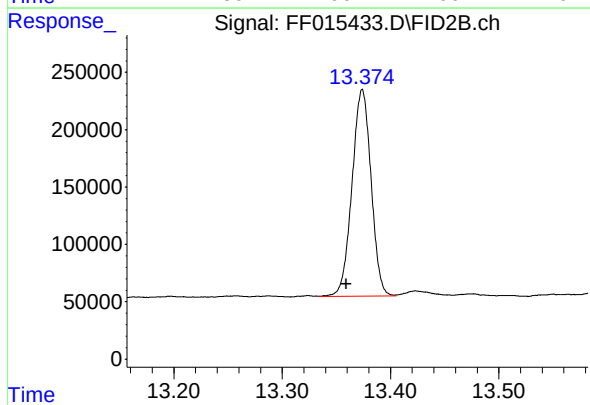
#9 ortho-Terphenyl (SURR)

R.T.: 11.935 min
Delta R.T.: 0.013 min
Response: 2785876
Conc: 17.52 ug/ml

Instrument :
FID_F
ClientSampleId :
HL2PX3DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.374 min
Delta R.T.: 0.014 min
Response: 2201644
Conc: 17.66 ug/ml m

rteres

Instrument :

FID_F

ClientSampleId :

HL2PX3DL

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF02032
Data File : FF015433.D
Signal(s) : FID2B.ch
Acq On : 03 Feb 2025 12:25
Sample : Q1237-03DL 2X
Misc :
ALS Vial : 73 Sample Multiplier: 1

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.813	2.801	2.835	BV	208	-830	-0.02%	-0.001%
2	2.854	2.835	2.876	PV	1250	5049	0.14%	0.004%
3	2.892	2.876	2.911	PV	-83	-6883	-0.20%	-0.005%
4	2.952	2.911	2.973	PV	2985	34144	0.98%	0.024%
5	3.007	2.973	3.038	PV	581	520	0.01%	0.000%
6	3.095	3.038	3.112	PV	5659	67919	1.95%	0.048%
7	3.125	3.112	3.148	VV	3040	32945	0.95%	0.023%
8	3.162	3.148	3.170	VV	386	3526	0.10%	0.002%
9	3.181	3.170	3.218	VV	433	-10	-0.00%	-0.000%
10	3.243	3.218	3.259	PV	405	-1391	-0.04%	-0.001%
11	3.304	3.259	3.315	PV	1650	17975	0.52%	0.013%
12	3.334	3.315	3.352	VV	5866	63078	1.81%	0.044%
13	3.363	3.352	3.411	VV	1208	6606	0.19%	0.005%
14	3.432	3.411	3.442	PV	834	4657	0.13%	0.003%
15	3.460	3.442	3.476	VV	4969	51490	1.48%	0.036%
16	3.490	3.476	3.511	VV	4442	47207	1.35%	0.033%
17	3.532	3.511	3.546	VV	3493	43437	1.25%	0.030%
18	3.561	3.546	3.581	VV	4834	58743	1.69%	0.041%
19	3.600	3.581	3.611	VV	1895	20979	0.60%	0.015%
20	3.632	3.611	3.673	VV	16848	245656	7.05%	0.172%
21	3.711	3.673	3.743	VV	7088	151883	4.36%	0.106%
22	3.764	3.743	3.813	VV	30086	461081	13.23%	0.323%
23	3.849	3.813	3.882	VV	17706	325971	9.36%	0.228%
24	3.901	3.882	3.935	VV	5104	92233	2.65%	0.065%
25	3.952	3.935	3.978	VV	16334	171077	4.91%	0.120%
26	4.014	3.978	4.065	VV	17016	389661	11.18%	0.273%
27	4.111	4.065	4.160	VV	26838	519104	14.90%	0.363%
28	4.179	4.160	4.199	VV	15916	250199	7.18%	0.175%
29	4.213	4.199	4.240	VV	12896	184230	5.29%	0.129%
30	4.262	4.240	4.270	VV	4955	61454	1.76%	0.043%
31	4.294	4.270	4.326	VV	44241	744914	21.38%	0.521%
32	4.343	4.326	4.368	VV	32594	466148	13.38%	0.326%
33	4.382	4.368	4.426	VV	13962	283118	8.13%	0.198%
34	4.465	4.426	4.491	VV	20677	378671	10.87%	0.265%
35	4.512	4.491	4.538	VV	23055	395039	11.34%	0.277%
36	4.555	4.538	4.593	VV	13147	313947	9.01%	0.220%

					rters			
37	4.604	4.593	4.621	VV	8903	112297	3.22%	0.079%
38	4.642	4.621	4.685	VV	17640	332975		
39	4.702	4.685	4.710	VV	7404	92989		
40	4.753	4.710	4.767	VV	24770	521317	14.22%	0.079%
41	4.783	4.767	4.806	VV	36900	637403	18.75%	0.079%
42	4.822	4.806	4.837	VV	31096	431495	12.75%	0.079%
43	4.856	4.837	4.896	VV	115243	1838061	52.75%	1.287%
44	4.915	4.896	4.948	VV	40302	959881	27.55%	0.672%
45	4.987	4.948	5.000	VV	34666	818134	23.48%	0.573%
46	5.033	5.000	5.059	VV	67476	1311856	37.65%	0.918%
47	5.082	5.059	5.119	VV	60639	974665	27.97%	0.682%
48	5.148	5.119	5.166	VV	22684	453433	13.01%	0.317%
49	5.185	5.166	5.211	VV	32360	528608	15.17%	0.370%
50	5.249	5.211	5.260	VV	37535	579471	16.63%	0.406%
51	5.278	5.260	5.308	VV	51940	999911	28.70%	0.700%
52	5.354	5.308	5.383	VV	59419	1285392	36.89%	0.900%
53	5.407	5.383	5.428	VV	22756	488743	14.03%	0.342%
54	5.447	5.428	5.466	VV	15890	302838	8.69%	0.212%
55	5.488	5.466	5.501	VV	35397	504513	14.48%	0.353%
56	5.511	5.501	5.535	VV	29740	477169	13.70%	0.334%
57	5.552	5.535	5.566	VV	32148	484839	13.92%	0.339%
58	5.583	5.566	5.600	VV	37619	544369	15.62%	0.381%
59	5.619	5.600	5.661	VV	25111	695126	19.95%	0.487%
60	5.674	5.661	5.687	VV	16198	208150	5.97%	0.146%
61	5.733	5.687	5.763	VV	41445	1306462	37.50%	0.915%
62	5.781	5.763	5.815	VV	18958	419990	12.05%	0.294%
63	5.835	5.815	5.848	VV	15210	245312	7.04%	0.172%
64	5.907	5.848	5.948	VV	37870	1372658	39.40%	0.961%
65	5.970	5.948	5.984	VV	19347	307844	8.84%	0.215%
66	6.011	5.984	6.040	VV	52437	997296	28.62%	0.698%
67	6.055	6.040	6.106	VV	25153	577896	16.59%	0.405%
68	6.137	6.106	6.163	VV	16487	368095	10.56%	0.258%
69	6.185	6.163	6.206	VV	22277	295827	8.49%	0.207%
70	6.238	6.206	6.259	VV	18311	365192	10.48%	0.256%
71	6.287	6.259	6.353	VV	14700	465453	13.36%	0.326%
72	6.376	6.353	6.383	VV	5552	84397	2.42%	0.059%
73	6.396	6.383	6.403	VV	6301	69321	1.99%	0.049%
74	6.423	6.403	6.455	VV	10973	235920	6.77%	0.165%
75	6.479	6.455	6.494	VV	5617	112713	3.23%	0.079%
76	6.506	6.494	6.517	VV	5677	66436	1.91%	0.047%
77	6.534	6.517	6.545	VV	7011	101295	2.91%	0.071%
78	6.563	6.545	6.590	VV	7262	165868	4.76%	0.116%
79	6.608	6.590	6.632	VV	6724	128292	3.68%	0.090%
80	6.654	6.632	6.703	VV	4994	149076	4.28%	0.104%
81	6.729	6.703	6.740	VV	2709	49526	1.42%	0.035%
82	6.754	6.740	6.785	VV	3492	59405	1.70%	0.042%
83	6.822	6.785	6.845	VV	3063	69278	1.99%	0.048%
84	6.889	6.845	6.914	VV	12928	180195	5.17%	0.126%
85	6.934	6.914	6.952	VV	2520	45660	1.31%	0.032%
86	6.962	6.952	6.981	VV	2083	24549	0.70%	0.017%
87	6.988	6.981	7.003	VV	870	9915	0.28%	0.007%
88	7.020	7.003	7.041	VV	1781	22464	0.64%	0.016%
89	7.064	7.041	7.088	VV	2192	30551	0.88%	0.021%

Instrument :

FID_F

ClientSampleId :

HL2PX3DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/04/2025

Supervised By :Ankita Jodhani 02/04/2025

90	7.100	7.088	7.113	VV	738	6413	0.18%	0.004%
91	7.142	7.113	7.178	VV	1888	26687		
92	7.217	7.178	7.235	PV	550	8282		
93	7.267	7.235	7.290	VV	824	14729		
94	7.309	7.290	7.343	PV	1115	9786		
95	7.373	7.343	7.432	PV	2109	21143		
96	7.456	7.432	7.492	PV	2798	23984	0.69%	0.017%
97	7.510	7.492	7.537	PV	1149	6342	0.18%	0.004%
98	7.556	7.537	7.593	PV	125	-8080	-0.23%	-0.006%
99	7.601	7.593	7.613	PV	-359	-4374	-0.13%	-0.003%
100	7.629	7.613	7.637	PV	-261	-4871	-0.14%	-0.003%
101	7.661	7.637	7.709	PV	72	-9350	-0.27%	-0.007%
102	7.734	7.709	7.791	PV	-249	-19591	-0.56%	-0.014%
103	7.808	7.791	7.835	PV	-352	-10972	-0.31%	-0.008%
104	7.859	7.835	7.891	PV	370	-4787	-0.14%	-0.003%
105	7.907	7.891	7.927	PV	-336	-10922	-0.31%	-0.008%
106	8.060	8.043	8.085	VV	1510	20351	0.58%	0.014%
107	8.111	8.085	8.138	VV	855	14892	0.43%	0.010%
108	8.161	8.138	8.185	VV	175	702	0.02%	0.000%
109	8.200	8.185	8.231	PV	-93	-5693	-0.16%	-0.004%
110	8.265	8.231	8.277	PV	-14	-3674	-0.11%	-0.003%
111	8.294	8.277	8.335	PV	324	-1218	-0.03%	-0.001%
112	8.382	8.335	8.418	PV	1415	10555	0.30%	0.007%
113	8.486	8.418	8.501	PV	515	3102	0.09%	0.002%
114	8.516	8.501	8.528	VV	351	3375	0.10%	0.002%
115	8.560	8.528	8.588	VV	637	13519	0.39%	0.009%
116	8.606	8.588	8.618	VV	243	2780	0.08%	0.002%
117	8.638	8.618	8.648	VV	339	4876	0.14%	0.003%
118	8.664	8.648	8.680	VV	365	5130	0.15%	0.004%
119	8.724	8.680	8.766	VV	2278	37805	1.09%	0.026%
120	8.787	8.766	8.833	VV	1068	23720	0.68%	0.017%
121	8.955	8.941	8.978	VV	2147	39290	1.13%	0.028%
122	9.022	8.978	9.043	VV	3510	79470	2.28%	0.056%
123	9.059	9.043	9.069	VV	1910	27710	0.80%	0.019%
124	9.089	9.069	9.125	VV	3000	75511	2.17%	0.053%
125	9.140	9.125	9.151	VV	1291	18875	0.54%	0.013%
126	9.189	9.151	9.203	VV	1875	45892	1.32%	0.032%
127	9.216	9.203	9.234	VV	1709	29421	0.84%	0.021%
128	9.252	9.234	9.274	VV	1770	35608	1.02%	0.025%
129	9.312	9.274	9.348	VV	2281	76163	2.19%	0.053%
130	9.359	9.348	9.371	VV	1652	21836	0.63%	0.015%
131	9.386	9.371	9.413	VV	1814	42740	1.23%	0.030%
132	9.432	9.413	9.448	VV	2096	40449	1.16%	0.028%
133	9.461	9.448	9.504	VV	2355	68199	1.96%	0.048%
134	9.535	9.504	9.560	VV	2036	60200	1.73%	0.042%
135	9.621	9.560	9.649	VV	2571	110748	3.18%	0.078%
136	9.701	9.649	9.715	VV	3104	105539	3.03%	0.074%
137	9.724	9.715	9.738	VV	2698	35012	1.00%	0.025%
138	9.780	9.738	9.818	VV	5254	163099	4.68%	0.114%
139	9.844	9.818	9.881	VV	4152	131235	3.77%	0.092%
140	9.914	9.881	9.945	VV	3428	119763	3.44%	0.084%
141	9.958	9.945	9.975	VV	3330	58577	1.68%	0.041%

Instrument :

FID_F

ClientSampleId :

HL2PX3DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/04/2025

Supervised By :Ankita Jodhani 02/04/2025

142	10.002	9.975	10.014	VH	3826	81415	2.34%	0.057%
143	10.040	10.014	10.071	HH	32128	437148	12.34%	0.119%
144	10.080	10.071	10.100	HH	4744	75704	2.34%	0.057%
145	10.125	10.100	10.156	HH	4610	140052	2.34%	0.057%
146	10.175	10.156	10.202	HH	4667	113651	3.01%	0.073%
147	10.211	10.202	10.221	HH	3952	45525	3.01%	0.073%
148	10.272	10.221	10.314	HH	4589	223625	6.42%	0.157%
149	10.346	10.314	10.386	HH	4741	185194	5.32%	0.130%
150	10.410	10.386	10.425	HH	4929	108775	3.12%	0.076%
151	10.442	10.425	10.461	HH	5089	104948	3.01%	0.073%
152	10.514	10.461	10.534	HH	6626	238811	6.85%	0.167%
153	10.560	10.534	10.585	HH	9364	213214	6.12%	0.149%
154	10.623	10.585	10.632	HH	6487	170513	4.89%	0.119%
155	10.643	10.632	10.673	HH	6605	154146	4.42%	0.108%
156	10.709	10.673	10.733	HH	7057	227731	6.54%	0.159%
157	10.760	10.733	10.788	HH	6515	204266	5.86%	0.143%
158	10.818	10.788	10.865	HH	7412	317629	9.12%	0.222%
159	10.911	10.865	10.924	HH	8177	260335	7.47%	0.182%
160	10.935	10.924	10.948	HH	8052	114609	3.29%	0.080%
161	10.982	10.948	11.010	HH	14918	389875	11.19%	0.273%
162	11.025	11.010	11.059	HH	8677	243330	6.98%	0.170%
163	11.073	11.059	11.085	HH	7951	120983	3.47%	0.085%
164	11.113	11.085	11.131	HH	8588	226720	6.51%	0.159%
165	11.155	11.131	11.170	HH	9134	208542	5.99%	0.146%
166	11.189	11.170	11.214	HH	10095	241091	6.92%	0.169%
167	11.240	11.214	11.271	HH	9935	324343	9.31%	0.227%
168	11.305	11.271	11.352	HH	10824	481156	13.81%	0.337%
169	11.397	11.352	11.428	HH	11005	461348	13.24%	0.323%
170	11.473	11.428	11.497	HH	11463	455853	13.08%	0.319%
171	11.547	11.497	11.581	HH	12889	597928	17.16%	0.419%
172	11.613	11.581	11.631	HH	13591	379480	10.89%	0.266%
173	11.642	11.631	11.665	HH	12236	240081	6.89%	0.168%
174	11.706	11.665	11.750	HH	21987	765792	21.98%	0.536%
175	11.773	11.750	11.795	HH	13398	339089	9.73%	0.237%
176	11.820	11.795	11.831	HH	13097	281339	8.07%	0.197%
177	11.879	11.831	11.892	HH	14386	493443	14.16%	0.345%
178	11.935	11.892	11.966	HH	261431	3379594	97.00%	2.366%
179	12.037	12.009	12.068	HH	16468	562532	16.15%	0.394%
180	12.118	12.094	12.138	HH	17226	434937	12.48%	0.304%
181	12.168	12.155	12.208	HH	16644	518723	14.89%	0.363%
182	12.268	12.248	12.291	HH	20370	490490	14.08%	0.343%
183	12.392	12.338	12.461	HH	18489	1294029	37.14%	0.906%
184	12.596	12.581	12.633	HH	19751	600180	17.23%	0.420%
185	12.689	12.665	12.696	HH	19367	365375	10.49%	0.256%
186	12.782	12.743	12.822	HH	20574	937627	26.91%	0.656%
187	12.874	12.863	12.909	HH	21498	576970	16.56%	0.404%
188	12.990	12.961	13.017	HH	24034	739984	21.24%	0.518%
189	13.075	13.065	13.098	HH	21132	415787	11.93%	0.291%
190	13.165	13.130	13.176	HH	21074	561459	16.11%	0.393%
191	13.257	13.221	13.271	HH	22186	637657	18.30%	0.446%
192	13.374	13.307	13.405	HH	202040	3484182	100.00%	2.439%
193	13.475	13.457	13.528	HH	23856	971874	27.89%	0.680%
194	13.612	13.602	13.653	HH	24158	727200	20.87%	0.509%

Instrument :

FID_F

ClientSampleId :

HL2PX3DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

						Instrument : FID_F ClientSampleId : HL2PX3DL		
Run	Area	Area	Area	Area	Area	Area	Area	Area
195	13.716	13.688	13.742	HH	50568	1077850	30.94%	0.755%
196	13.809	13.795	13.840	HH	25396	667690	19.63%	0.479%
197	13.947	13.897	14.005	HH	87444	2389272	68.40%	0.921%
198	14.080	14.061	14.101	HH	29718	648253	18.83%	0.459%
199	14.181	14.165	14.198	HH	25721	493548	14.70%	0.359%
200	14.275	14.255	14.301	HH	26512	718144	20.89%	0.510%
Manual IntegrationsAPPROVED								
201	14.363	14.301	14.390	HH	29597	1436465	41.23%	1.006%
202	14.415	14.390	14.473	HH	27212	1314401	37.72%	0.920%
203	14.515	14.473	14.555	HH	27473	1289100	37.00%	0.902%
204	14.598	14.555	14.621	HH	27492	1064195	30.54%	0.745%
205	14.638	14.621	14.664	HH	27150	684002	19.63%	0.479%
206	14.691	14.664	14.728	HH	32736	1062122	30.48%	0.744%
207	14.757	14.728	14.798	HH	28975	1169958	33.58%	0.819%
208	14.818	14.798	14.832	HH	30246	605530	17.38%	0.424%
209	14.857	14.832	14.901	HH	43182	1316243	37.78%	0.921%
210	14.943	14.901	14.965	HH	28457	1059330	30.40%	0.742%
211	14.972	14.965	15.009	HH	27919	727955	20.89%	0.510%
212	15.029	15.009	15.041	HH	26974	512301	14.70%	0.359%
213	15.071	15.041	15.105	HH	73908	1628308	46.73%	1.140%
214	15.143	15.105	15.173	HH	28099	1102278	31.64%	0.772%
215	15.194	15.173	15.208	HH	28824	580322	16.66%	0.406%
216	15.232	15.208	15.263	HH	41733	1072073	30.77%	0.750%
217	15.292	15.263	15.337	HH	28669	1235662	35.46%	0.865%
218	15.369	15.337	15.408	HH	30558	1180987	33.90%	0.827%
219	15.435	15.408	15.449	HH	26862	656055	18.83%	0.459%
220	15.486	15.449	15.547	HH	27897	1564462	44.90%	1.095%
221	15.568	15.547	15.595	HH	27143	770685	22.12%	0.539%
222	15.617	15.595	15.638	HH	30090	743137	21.33%	0.520%
223	15.670	15.638	15.722	HH	29000	1400718	40.20%	0.981%
224	15.754	15.722	15.870	HH	41750	2720221	78.07%	1.904%
225	15.893	15.870	15.921	HH	27694	827111	23.74%	0.579%
226	15.927	15.921	15.937	HH	26620	244505	7.02%	0.171%
227	15.981	15.937	15.994	HH	28055	944295	27.10%	0.661%
228	16.009	15.994	16.032	HH	28392	632184	18.14%	0.443%
229	16.068	16.032	16.123	HH	32095	1622872	46.58%	1.136%
230	16.144	16.123	16.166	HH	28927	740640	21.26%	0.518%
231	16.208	16.166	16.223	HH	29085	964969	27.70%	0.675%
232	16.256	16.223	16.281	HH	48802	1272910	36.53%	0.891%
233	16.297	16.281	16.332	HH	31708	922618	26.48%	0.646%
234	16.349	16.332	16.368	HH	28844	611152	17.54%	0.428%
235	16.395	16.368	16.414	HH	28792	788160	22.62%	0.552%
236	16.462	16.414	16.520	HH	31749	1921512	55.15%	1.345%
237	16.571	16.520	16.606	HH	33857	1636883	46.98%	1.146%

rterres									
247	17.130	17.121	17.139	HH	30813	328872	9.44%	0.230%	
248	17.207	17.139	17.283	HH	52134	3062994	87		
249	17.331	17.283	17.357	HH	33183	1439134	41		
250	17.454	17.357	17.488	HH	38983	2719722	78		
251	17.528	17.488	17.595	HH	37075	2236395	64		
252	17.659	17.595	17.722	HH	51972	2858602	82		
253	17.774	17.722	17.811	HH	37625	1862676	53.46%	1.304%	
254	17.828	17.811	17.847	HH	33906	725794	20.83%	0.508%	
255	17.864	17.847	17.906	HH	34108	1181179	33.90%	0.827%	
256	17.940	17.906	17.975	HH	35792	1398134	40.13%	0.979%	
257	17.992	17.975	18.059	HV	35077	1738620	49.90%	1.217%	
258	18.095	18.059	18.126	VV	52109	1577574	45.28%	1.104%	
259	18.146	18.126	18.177	VV	32932	975458	28.00%	0.683%	
260	18.245	18.177	18.322	VV	38901	2859134	82.06%	2.001%	
261	18.370	18.322	18.400	VV	31114	1409793	40.46%	0.987%	
262	18.417	18.400	18.434	VV	31209	622380	17.86%	0.436%	
263	18.457	18.434	18.494	VV	31200	1068627	30.67%	0.748%	
264	18.519	18.494	18.551	VV	41489	1126575	32.33%	0.789%	
Sum of corrected areas:					142853145				

Instrument :

FID_F

ClientSampleId :

HL2PX3DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

Aliphatic EPH 011425.M Tue Feb 04 06:23:35 2025

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX4	SDG No.:	Q1237
Lab Sample ID:	Q1237-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.3
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 15:48	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	5.21		1	1.91	2.12	mg/kg FF015417.D
Aliphatic C9-C28	Aliphatic C9-C28	15.6		1	1.82	4.24	mg/kg FF015417.D
Total AliphaticEPH	Total AliphaticEPH	20.9			3.73	6.36	mg/kg
Total EPH	Total EPH	20.9			3.73	6.36	mg/kg

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX4	SDG No.:	Q1237
Lab Sample ID:	Q1237-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.3
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015417.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	15.6		1.82	4.24	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.21		1.91	2.12	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.4		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.5		40 - 140	63%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1237-04	Acq On:	31 Jan 2025 15:48
Client Sample ID:	HL2PX4	Operator:	YP\AJ
Data file:	FF015417.D	Misc:	
Instrument:	FID_F	ALS Vial:	74
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.214	6.833	3193762	23.96	300	ug/ml
Aliphatic C12-C16	6.834	10.268	3640897	26.306	200	ug/ml
Aliphatic C16-C21	10.269	13.636	14950016	103.49	300	ug/ml
Aliphatic C21-C28	13.637	17.303	9636381	67.664	400	ug/ml
Aliphatic C28-C40	17.304	22.207	7715690	73.703	600	ug/ml
Aliphatic EPH	3.214	22.207	39136746	295.124		ug/ml
ortho-Terphenyl (SURR)	11.932	11.932	5005275	31.48		ug/ml
1-chlorooctadecane (SURR)	13.369	13.369	4039765	32.4		ug/ml
Aliphatic C9-C28	3.214	17.303	31421056	221.42	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
 Data File : FF015417.D
 Signal(s) : FID2B.ch
 Acq On : 31 Jan 2025 15:48
 Operator : YP\AJ
 Sample : Q1237-04
 Misc :
 ALS Vial : 74 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 HL2PX4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
 Quant Time: Jan 31 23:22:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.932	5005275	31.482 ug/mlm
Spiked Amount	50.000	Recovery	= 62.96%
12) S 1-chlorooctadecane (S...	13.369	4039765	32.405 ug/mlm
Spiked Amount	50.000	Recovery	= 64.81%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
Data File : FF015417.D
Signal(s) : FID2B.ch
Acq On : 31 Jan 2025 15:48
Operator : YP\AJ
Sample : Q1237-04
Misc :
ALS Vial : 74 Sample Multiplier: 1

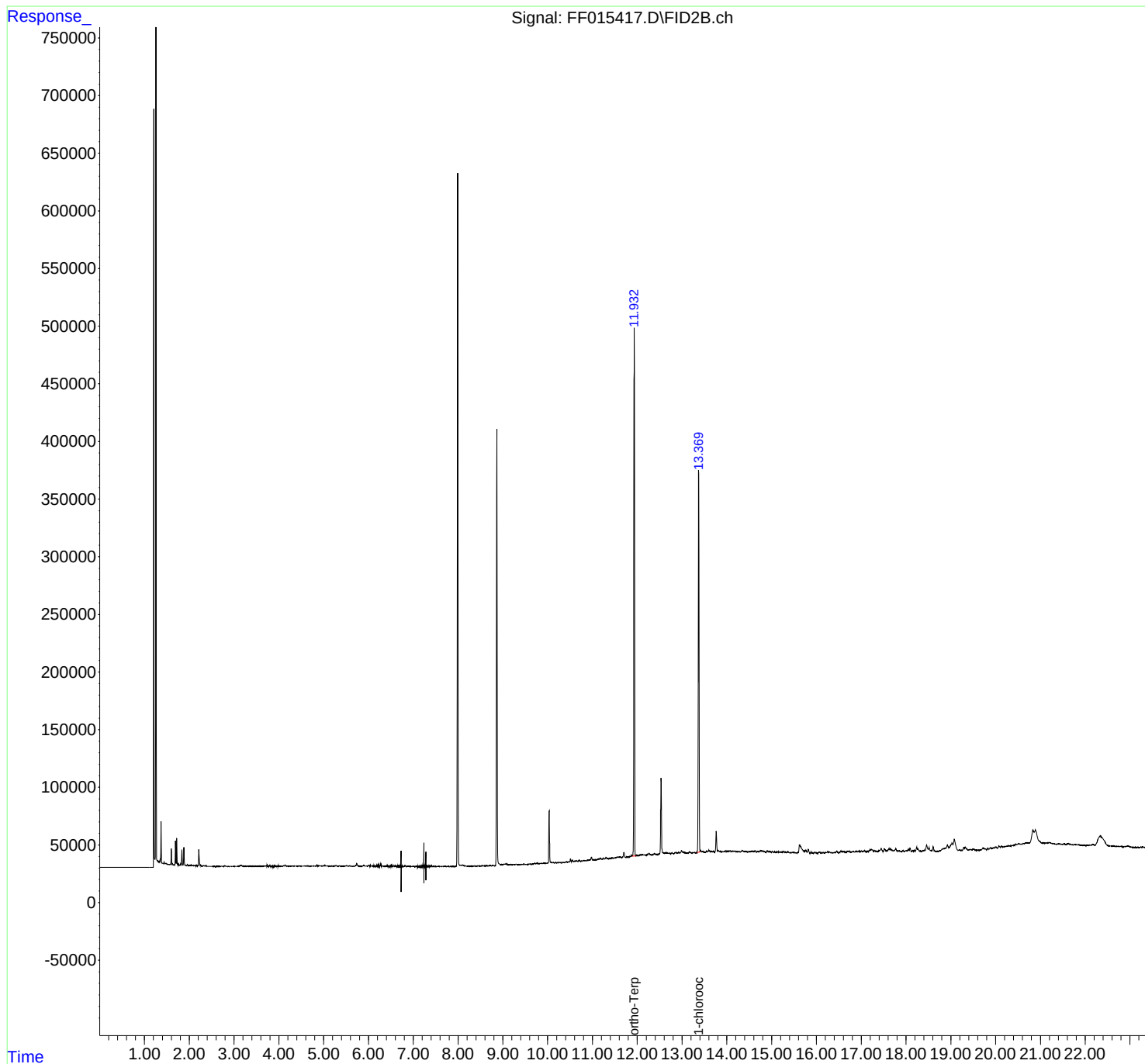
Instrument :
FID_F
ClientSampleId :
HL2PX4

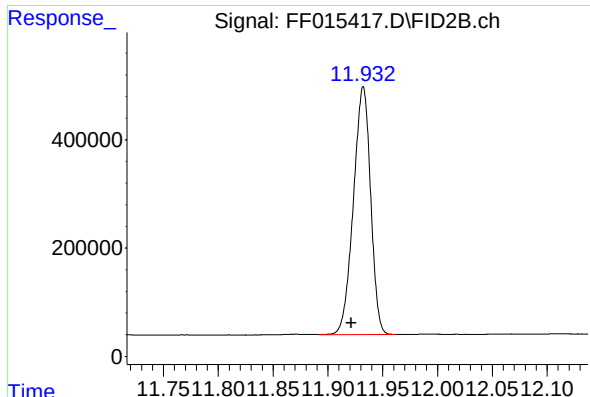
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
Quant Time: Jan 31 23:22:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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





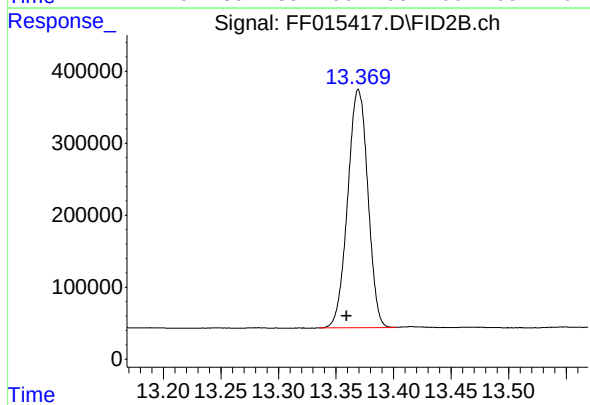
#9 ortho-Terphenyl (SURR)

R.T.: 11.932 min
Delta R.T.: 0.010 min
Response: 5005275
Conc: 31.48 ug/ml

Instrument :
FID_F
ClientSampleId :
HL2PX4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.369 min
Delta R.T.: 0.010 min
Response: 4039765
Conc: 32.40 ug/ml m

rtres

Instrument :

FID_F

ClientSampleId :

HL2PX4

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF02012

Data File : FF015417.D

Signal(s) : FID2B.ch

Acq On : 31 Jan 2025 15:48

Sample : Q1237-04

Misc :

ALS Vial : 74 Sample Multiplier: 1

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M

Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.924	2.852	2.989	BV	121	4813	0.09%	0.011%
2	3.003	2.989	3.032	PV	284	3678	0.07%	0.008%
3	3.042	3.032	3.055	VV	142	1683	0.03%	0.004%
4	3.092	3.055	3.107	VV	271	5914	0.11%	0.013%
5	3.133	3.107	3.142	VV	906	11242	0.21%	0.025%
6	3.165	3.142	3.208	VV	1036	27205	0.52%	0.061%
7	3.217	3.208	3.248	VV	390	8284	0.16%	0.019%
8	3.256	3.248	3.268	VV	351	4190	0.08%	0.009%
9	3.298	3.268	3.377	VV	525	27071	0.51%	0.061%
10	3.411	3.377	3.425	VV	521	13353	0.25%	0.030%
11	3.441	3.425	3.475	VV	568	15316	0.29%	0.034%
12	3.503	3.475	3.516	VV	621	13512	0.26%	0.030%
13	3.526	3.516	3.538	VV	562	7132	0.14%	0.016%
14	3.542	3.538	3.552	VV	565	4254	0.08%	0.010%
15	3.563	3.552	3.611	VV	605	19726	0.38%	0.044%
16	3.632	3.611	3.661	VV	677	18460	0.35%	0.042%
17	3.684	3.661	3.702	VV	758	16619	0.32%	0.037%
18	3.736	3.702	3.778	VV	1198	37876	0.72%	0.085%
19	3.791	3.778	3.867	VV	1347	38613	0.73%	0.087%
20	3.905	3.867	3.939	VV	1188	32731	0.62%	0.074%
21	3.994	3.939	4.006	VV	972	30201	0.57%	0.068%
22	4.013	4.006	4.074	VV	856	31112	0.59%	0.070%
23	4.109	4.074	4.124	VV	1366	29985	0.57%	0.067%
24	4.141	4.124	4.195	VV	2014	51151	0.97%	0.115%
25	4.208	4.195	4.239	VV	1030	25497	0.48%	0.057%
26	4.288	4.239	4.302	VV	1229	42873	0.82%	0.096%
27	4.310	4.302	4.325	VV	1241	16262	0.31%	0.037%
28	4.338	4.325	4.368	VV	1264	29457	0.56%	0.066%
29	4.383	4.368	4.434	VV	1136	41767	0.79%	0.094%
30	4.464	4.434	4.485	VV	1219	33198	0.63%	0.075%
31	4.511	4.485	4.551	VV	1212	46539	0.88%	0.105%
32	4.566	4.551	4.617	VV	1359	50854	0.97%	0.114%
33	4.637	4.617	4.682	VV	1368	48160	0.92%	0.108%
34	4.692	4.682	4.712	VV	1287	21491	0.41%	0.048%
35	4.736	4.712	4.764	VV	1412	40098	0.76%	0.090%
36	4.781	4.764	4.805	VV	1448	34097	0.65%	0.077%

Parameters									
37	4.820	4.805	4.832	VV	1405	21521	0.41%	0.048%	
38	4.852	4.832	4.891	VV	2314	58285			
39	4.912	4.891	4.946	VV	1680	50332			
40	4.985	4.946	4.996	VV	1673	47178			
41	5.029	4.996	5.059	VV	2000	63166			
42	5.079	5.059	5.113	VV	1723	49910			
43	5.146	5.113	5.163	VV	1509	42224	0.80%	0.095%	
44	5.182	5.163	5.228	VV	1651	58484	1.11%	0.132%	
45	5.272	5.228	5.306	VV	1901	76397	1.45%	0.172%	
46	5.351	5.306	5.388	VV	1919	79690	1.52%	0.179%	
47	5.400	5.388	5.423	VV	1614	31496	0.60%	0.071%	
48	5.450	5.423	5.461	VV	1566	33851	0.64%	0.076%	
49	5.510	5.461	5.535	VV	2238	79309	1.51%	0.178%	
50	5.547	5.535	5.562	VV	1831	28520	0.54%	0.064%	
51	5.579	5.562	5.596	VV	1975	35565	0.68%	0.080%	
52	5.622	5.596	5.660	VV	1768	63608	1.21%	0.143%	
53	5.670	5.660	5.683	VV	1654	22060	0.42%	0.050%	
54	5.711	5.683	5.720	VV	2188	43724	0.83%	0.098%	
55	5.740	5.720	5.814	VV	4137	129277	2.46%	0.291%	
56	5.830	5.814	5.844	VV	1872	32806	0.62%	0.074%	
57	5.904	5.844	5.942	VV	2430	119103	2.26%	0.268%	
58	5.966	5.942	5.981	VV	2078	45974	0.87%	0.103%	
59	6.007	5.981	6.039	VV	2879	78905	1.50%	0.178%	
60	6.052	6.039	6.061	VV	2126	27276	0.52%	0.061%	
61	6.070	6.061	6.101	VV	2141	45876	0.87%	0.103%	
62	6.130	6.101	6.162	VV	2073	70649	1.34%	0.159%	
63	6.183	6.162	6.215	VV	2485	64841	1.23%	0.146%	
64	6.238	6.215	6.254	VV	2324	51280	0.97%	0.115%	
65	6.277	6.254	6.348	VV	3123	130874	2.49%	0.294%	
66	6.362	6.348	6.382	VV	2126	41985	0.80%	0.094%	
67	6.448	6.382	6.481	VV	2472	130101	2.47%	0.293%	
68	6.496	6.481	6.507	VV	2364	34614	0.66%	0.078%	
69	6.532	6.507	6.548	VV	2357	53206	1.01%	0.120%	
70	6.575	6.548	6.592	VV	2551	61072	1.16%	0.137%	
71	6.602	6.592	6.666	VV	2402	98886	1.88%	0.222%	
72	6.676	6.666	6.695	VV	2351	36759	0.70%	0.083%	
73	6.725	6.695	6.781	VV	2524	104756	1.99%	0.236%	
74	6.814	6.781	6.867	VV	3205	120323	2.29%	0.271%	
75	6.886	6.867	6.909	VV	2644	57624	1.10%	0.130%	
76	6.920	6.909	6.982	VV	2112	91087	1.73%	0.205%	
77	7.018	6.982	7.035	VV	2171	68008	1.29%	0.153%	
78	7.064	7.035	7.091	VV	2176	71355	1.36%	0.161%	
79	7.141	7.091	7.165	VV	2430	96330	1.83%	0.217%	
80	7.167	7.165	7.192	VV	2329	34894	0.66%	0.079%	
81	7.196	7.192	7.201	VV	2443	12848	0.24%	0.029%	
82	7.213	7.201	7.258	VV	2920	81373	1.55%	0.183%	
83	7.269	7.258	7.286	VV	2470	38370	0.73%	0.086%	
84	7.316	7.286	7.342	PV	2539	77451	1.47%	0.174%	
85	7.368	7.342	7.381	VV	2352	52553	1.00%	0.118%	
86	7.401	7.381	7.429	VV	2774	71080	1.35%	0.160%	
87	7.452	7.429	7.483	VV	2336	70589	1.34%	0.159%	
88	7.509	7.483	7.525	VV	2029	50155	0.95%	0.113%	
89	7.549	7.525	7.569	VV	2054	52565	1.00%	0.118%	

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90	7.614	7.569	7.638	VV	1972	80978	1.54%	0.182%
91	7.649	7.638	7.668	VV	1963	34963		
92	7.678	7.668	7.707	VV	1957	42051		
93	7.745	7.707	7.762	VV	1730	56471		
94	7.780	7.762	7.788	VV	1655	25291		
95	7.808	7.788	7.842	VV	1701	52829		
96	7.860	7.842	7.888	VV	1684	44002	0.84%	0.099%
97	7.909	7.888	7.922	VV	1502	29321	0.56%	0.066%
98	8.056	8.042	8.074	VV	2510	44010	0.84%	0.099%
99	8.093	8.074	8.235	VV	2580	166658	3.17%	0.375%
100	8.251	8.235	8.274	VV	1335	29910	0.57%	0.067%
101	8.293	8.274	8.321	VV	1372	36296	0.69%	0.082%
102	8.380	8.321	8.414	VV	1278	66357	1.26%	0.149%
103	8.455	8.414	8.512	VV	1339	68821	1.31%	0.155%
104	8.562	8.512	8.588	VV	1426	56698	1.08%	0.128%
105	8.598	8.588	8.606	VV	1061	11115	0.21%	0.025%
106	8.628	8.606	8.653	VV	1293	31357	0.60%	0.071%
107	8.664	8.653	8.675	VV	1061	13819	0.26%	0.031%
108	8.719	8.675	8.766	VV	1526	65771	1.25%	0.148%
109	8.783	8.766	8.819	VV	1172	33882	0.64%	0.076%
110	8.995	8.978	9.004	VV	1679	24348	0.46%	0.055%
111	9.047	9.004	9.068	VV	2127	74088	1.41%	0.167%
112	9.083	9.068	9.142	VV	2149	72937	1.39%	0.164%
113	9.158	9.142	9.168	VV	1434	21403	0.41%	0.048%
114	9.185	9.168	9.208	VV	1685	35898	0.68%	0.081%
115	9.217	9.208	9.226	VV	1334	13664	0.26%	0.031%
116	9.248	9.226	9.270	VV	1417	34107	0.65%	0.077%
117	9.300	9.270	9.363	VV	1722	75362	1.43%	0.170%
118	9.392	9.363	9.413	VV	1321	36172	0.69%	0.081%
119	9.431	9.413	9.443	VV	1338	22411	0.43%	0.050%
120	9.460	9.443	9.500	VV	1442	43950	0.84%	0.099%
121	9.531	9.500	9.556	VV	1257	37672	0.72%	0.085%
122	9.586	9.556	9.599	VV	1526	32632	0.62%	0.073%
123	9.616	9.599	9.652	VV	1541	41857	0.80%	0.094%
124	9.716	9.652	9.736	VV	1990	75795	1.44%	0.171%
125	9.774	9.736	9.798	VV	2300	65366	1.24%	0.147%
126	9.855	9.798	9.874	VV	1773	69958	1.33%	0.157%
127	9.900	9.874	9.912	VV	1678	36074	0.69%	0.081%
128	9.919	9.912	9.933	VV	1676	21158	0.40%	0.048%
129	9.953	9.933	9.971	VV	1711	34895	0.66%	0.079%
130	9.997	9.971	10.007	VV	1781	34852	0.66%	0.078%
131	10.035	10.007	10.095	VV	46784	586760	11.16%	1.320%
132	10.116	10.095	10.151	VV	2212	65171	1.24%	0.147%
133	10.170	10.151	10.192	VV	2108	45487	0.86%	0.102%
134	10.209	10.192	10.220	VV	1795	29236	0.56%	0.066%
135	10.266	10.220	10.309	VV	1986	92762	1.76%	0.209%
136	10.337	10.309	10.355	VV	2025	48756	0.93%	0.110%
137	10.361	10.355	10.381	VV	1877	27131	0.52%	0.061%
138	10.409	10.381	10.422	VV	2148	47229	0.90%	0.106%
139	10.441	10.422	10.454	VV	2064	38815	0.74%	0.087%
140	10.509	10.454	10.532	VV	4568	124966	2.38%	0.281%
141	10.556	10.532	10.578	VV	3778	79630	1.51%	0.179%

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					rters			
142	10.648	10.578	10.671	VV	2775	143282	2.72%	0.322%
143	10.706	10.671	10.728	VV	3153	92434		
144	10.819	10.728	10.827	VV	2826	154817		
145	10.837	10.827	10.855	VV	2825	46044		
146	10.904	10.855	10.925	VV	3293	123667		
147	10.979	10.925	11.003	VV	5578	178553		
148	11.016	11.003	11.049	VV	3315	86955	1.65%	0.196%
149	11.065	11.049	11.085	VV	3152	65298	1.24%	0.147%
150	11.110	11.085	11.124	VV	3355	74388	1.41%	0.167%
151	11.145	11.124	11.163	VV	3916	86496	1.64%	0.195%
152	11.183	11.163	11.208	VV	4658	108646	2.07%	0.244%
153	11.236	11.208	11.266	VV	3982	127332	2.42%	0.286%
154	11.304	11.266	11.345	VV	5143	195499	3.72%	0.440%
155	11.355	11.345	11.367	VV	3668	47949	0.91%	0.108%
156	11.393	11.367	11.403	VV	4089	84553	1.61%	0.190%
157	11.439	11.403	11.448	VV	4192	108882	2.07%	0.245%
158	11.461	11.448	11.489	VV	4196	101008	1.92%	0.227%
159	11.543	11.489	11.572	VV	5023	222249	4.23%	0.500%
160	11.585	11.572	11.594	VV	4714	61902	1.18%	0.139%
161	11.610	11.594	11.655	VV	5153	170041	3.23%	0.383%
162	11.702	11.655	11.750	VV	8682	319887	6.08%	0.720%
163	11.770	11.750	11.792	VV	4832	113235	2.15%	0.255%
164	11.807	11.792	11.827	VV	4739	97662	1.86%	0.220%
165	11.870	11.827	11.888	VV	5952	189275	3.60%	0.426%
166	11.932	11.888	11.968	VV	462173	5260022	100.00%	11.833%
167	11.994	11.968	12.012	VV	5948	148304	2.82%	0.334%
168	12.018	12.012	12.037	VV	5684	83596	1.59%	0.188%
169	12.069	12.037	12.089	VV	6140	185020	3.52%	0.416%
170	12.114	12.089	12.147	VV	6400	210818	4.01%	0.474%
171	12.163	12.147	12.195	VV	5959	163740	3.11%	0.368%
172	12.229	12.195	12.239	VV	6632	158888	3.02%	0.357%
173	12.262	12.239	12.318	VV	7230	304487	5.79%	0.685%
174	12.385	12.318	12.416	VV	6695	359691	6.84%	0.809%
175	12.429	12.416	12.458	VV	6166	151770	2.89%	0.341%
176	12.530	12.458	12.632	VV	72055	1475964	28.06%	3.320%
177	12.648	12.632	12.664	VV	7566	139268	2.65%	0.313%
178	12.677	12.664	12.692	VV	6747	109076	2.07%	0.245%
179	12.705	12.692	12.744	VV	6864	204166	3.88%	0.459%
180	12.781	12.744	12.812	VV	6935	263893	5.02%	0.594%
181	12.866	12.812	12.904	VV	7160	371547	7.06%	0.836%
182	12.925	12.904	12.958	VV	7288	222116	4.22%	0.500%
183	12.987	12.958	13.018	VV	8755	273502	5.20%	0.615%
184	13.035	13.018	13.058	VV	7496	169655	3.23%	0.382%
185	13.071	13.058	13.137	VV	6691	301735	5.74%	0.679%
186	13.160	13.137	13.177	VV	7412	163062	3.10%	0.367%
187	13.187	13.177	13.228	VV	6862	198040	3.76%	0.446%
188	13.246	13.228	13.264	VV	6501	134955	2.57%	0.304%
189	13.281	13.264	13.305	VV	6736	159848	3.04%	0.360%
190	13.370	13.305	13.403	VV	337328	4422246	84.07%	9.949%
191	13.415	13.403	13.449	VV	8034	203689	3.87%	0.458%
192	13.468	13.449	13.505	VV	7174	230365	4.38%	0.518%
193	13.509	13.505	13.518	VV	6469	51245	0.97%	0.115%
194	13.547	13.518	13.563	VV	7393	186375	3.54%	0.419%

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							Instrument : FID_F	
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195	13.600	13.563	13.688	VV	8009	536374	10.20%	1.207%
196	13.701	13.688	13.725	VV	7185	147370	Manual IntegrationsAPPROVED	
197	13.761	13.725	13.795	VV	24315	501620		
198	13.806	13.795	13.838	VV	7508	187739		
199	13.847	13.838	13.891	VV	7141	209828		
200	13.911	13.891	13.928	VV	6693	139558		
201	13.978	13.928	14.005	VV	7056	306060	5.82%	0.689%
202	14.034	14.005	14.053	VV	6901	191067	3.63%	0.430%
203	14.071	14.053	14.101	VV	7324	191585	3.64%	0.431%
204	14.120	14.101	14.135	VV	7027	134801	2.56%	0.303%
205	14.147	14.135	14.161	VV	6762	104938	2.00%	0.236%
206	14.173	14.161	14.197	VV	6640	135605	2.58%	0.305%
207	14.209	14.197	14.232	VV	6302	126070	2.40%	0.284%
208	14.240	14.232	14.244	VV	6128	44790	0.85%	0.101%
209	14.265	14.244	14.301	VV	6212	203525	3.87%	0.458%
210	14.339	14.301	14.382	VV	6806	303470	5.77%	0.683%
211	14.421	14.382	14.433	VV	6076	181721	3.45%	0.409%
212	14.440	14.433	14.466	VV	5896	112561	2.14%	0.253%
213	14.498	14.466	14.538	VV	5950	247328	4.70%	0.556%
214	14.571	14.538	14.590	VV	6079	185141	3.52%	0.417%
215	14.599	14.590	14.609	VV	5912	65115	1.24%	0.146%
216	14.632	14.609	14.662	VV	6445	182388	3.47%	0.410%
217	14.689	14.662	14.724	VV	5745	203365	3.87%	0.458%
218	14.749	14.724	14.766	VV	6524	147590	2.81%	0.332%
219	14.780	14.766	14.792	VV	5794	88934	1.69%	0.200%
220	14.807	14.792	14.865	VV	5967	236812	4.50%	0.533%
221	14.906	14.865	14.925	VV	5772	186402	3.54%	0.419%
222	14.936	14.925	14.991	VV	5686	204704	3.89%	0.461%
223	15.019	14.991	15.048	VV	4963	160760	3.06%	0.362%
224	15.067	15.048	15.098	VV	4851	137571	2.62%	0.309%
225	15.116	15.098	15.130	VV	4707	87377	1.66%	0.197%
226	15.143	15.130	15.173	VV	4686	113615	2.16%	0.256%
227	15.223	15.173	15.236	VV	4604	165862	3.15%	0.373%
228	15.270	15.236	15.331	VV	4882	247291	4.70%	0.556%
229	15.360	15.331	15.404	VV	4644	174825	3.32%	0.393%
230	15.422	15.404	15.452	VV	3765	103598	1.97%	0.233%
231	15.472	15.452	15.571	VV	3828	249735	4.75%	0.562%
232	15.586	15.571	15.593	VV	3521	44230	0.84%	0.100%
233	15.621	15.593	15.731	VV	10149	554163	10.54%	1.247%
234	15.766	15.731	15.794	VV	5370	172791	3.28%	0.389%
235	15.819	15.794	15.861	VV	5873	163901	3.12%	0.369%
236	15.881	15.861	15.909	VV	3247	80846	1.54%	0.182%
237	15.924	15.909	15.937	VV	2549	42392	0.81%	0.095%
238	15.967	15.937	16.028	VV	3451	150029	2.85%	0.338%
239	16.073	16.028	16.120	VV	3224	151545	2.88%	0.341%
240	16.136	16.120	16.181	VV	2643	92223	1.75%	0.207%
241	16.205	16.181	16.222	VV	2792	62021	1.18%	0.140%
242	16.250	16.222	16.267	VV	3322	77755	1.48%	0.175%
243	16.285	16.267	16.321	VV	3071	91762	1.74%	0.206%
244	16.332	16.321	16.359	VV	2467	52465	1.00%	0.118%
245	16.386	16.359	16.405	VV	2491	63260	1.20%	0.142%
246	16.455	16.405	16.502	VV	3513	155228	2.95%	0.349%

Client Sampled : HL2PX4							Manual Integration	
247	16.549	16.502	16.569	VV	3509	116691	2.22%	0.263%
248	16.577	16.569	16.597	VV	3123	49046	0.61%	0.073%
249	16.616	16.597	16.660	VV	3045	97444	1.76%	0.208%
250	16.699	16.660	16.715	VV	3020	88712	1.35%	0.160%
251	16.734	16.715	16.792	VV	3576	122601	2.10%	0.249%
252	16.814	16.792	16.841	VV	2910	75036	1.21%	0.144%
253	16.878	16.841	16.915	VV	2614	110499	2.20%	0.260%
254	16.945	16.915	16.987	VV	2951	115527	1.21%	0.143%
255	17.006	16.987	17.028	VV	2910	63719	2.68%	0.317%
256	17.063	17.028	17.120	VV	2986	140959	3.00%	0.355%
257	17.201	17.120	17.213	VV	3985	157863	1.21%	0.144%
258	17.226	17.213	17.242	VV	3921	63899	1.31%	0.155%
259	17.250	17.242	17.281	VV	3589	69053	1.91%	0.226%
260	17.322	17.281	17.351	VV	2545	100283	4.56%	0.539%
261	17.445	17.351	17.491	VV	4690	239779	3.21%	0.379%
262	17.523	17.491	17.588	VV	3943	168692	1.73%	0.205%
263	17.619	17.588	17.634	VV	3976	91157	2.88%	0.341%
264	17.652	17.634	17.714	VV	4464	151593	2.72%	0.322%
265	17.766	17.714	17.804	VV	3549	143281	0.85%	0.101%
266	17.826	17.804	17.845	VV	2081	44950	1.05%	0.124%
267	17.865	17.845	17.902	VV	1871	55196	1.12%	0.132%
268	17.922	17.902	17.962	VV	1907	58889	1.11%	0.131%
269	17.992	17.962	18.022	VV	2007	58213	1.25%	0.148%
270	18.043	18.022	18.068	VV	2814	65916	1.54%	0.182%
271	18.090	18.068	18.121	VV	3980	80899	0.61%	0.073%
272	18.139	18.121	18.158	VV	1759	32343	0.75%	0.088%
273	18.182	18.158	18.201	VV	1883	39302	1.76%	0.208%
274	18.236	18.201	18.255	VV	4676	92408	1.35%	0.160%
275	18.264	18.255	18.315	VV	3098	71136	0.38%	0.044%
276	18.324	18.315	18.345	VV	1304	19734	0.68%	0.080%
277	18.374	18.345	18.394	VV	1479	35648	0.54%	0.064%
278	18.414	18.394	18.425	VV	1810	28406	3.10%	0.366%
279	18.459	18.425	18.498	VV	6159	162887	1.45%	0.171%
280	18.514	18.498	18.548	VV	3883	76162	0.27%	0.032%
281	18.556	18.548	18.567	VV	1362	14307	1.89%	0.224%
282	18.606	18.567	18.662	VV	4615	99660	0.16%	0.019%
283	18.668	18.662	18.702	VV	588	8564	6.97%	0.824%
284	18.923	18.702	18.961	VV	5717	366460	5.39%	0.637%
285	19.027	18.961	19.047	VV	7158	283265	7.00%	0.828%
286	19.079	19.047	19.178	VV	10056	367963	0.46%	0.054%
287	19.207	19.178	19.236	VV	909	24107	1.21%	0.143%
288	19.288	19.236	19.305	VV	3127	63590	1.83%	0.217%
289	19.326	19.305	19.394	VV	3138	96251	0.64%	0.076%
290	19.427	19.394	19.462	VV	1209	33791	0.86%	0.102%
291	19.515	19.462	19.561	VV	1102	45448	0.10%	0.012%
292	19.572	19.561	19.599	VV	379	5185	0.09%	0.010%
293	19.615	19.599	19.648	PV	431	4514	0.75%	0.089%
294	19.714	19.648	19.728	VV	1943	39370	0.84%	0.100%
295	19.739	19.728	19.795	VV	1569	44231	0.53%	0.063%
296	19.827	19.795	19.851	VV	1168	28121	0.80%	0.094%
297	19.881	19.851	19.905	VV	1970	41949	2.54%	0.301%
298	20.004	19.905	20.045	VV	2403	133583	1.55%	0.183%
299	20.076	20.045	20.103	VV	3073	81343		

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

300	20.133	20.103	20.166	VV	2680	85644	1.63%	0.193%
301	20.252	20.166	20.263	VV	2543	131320		
302	20.309	20.263	20.341	VV	2801	122679		
303	20.415	20.341	20.432	VV	3269	161763		
304	20.453	20.432	20.475	VV	3981	93129		
305	20.514	20.475	20.567	VV	4247	210830		
306	20.617	20.567	20.640	VV	4225	173985	3.31%	0.391%
307	20.679	20.640	20.718	VV	4711	211622	4.02%	0.476%
308	20.726	20.718	20.757	VV	4582	106002	2.02%	0.238%
309	20.833	20.757	20.861	VV	15108	651718	12.39%	1.466%
310	20.887	20.861	21.062	VV	15595	979468	18.62%	2.203%
311	21.081	21.062	21.102	VV	3913	91328	1.74%	0.205%
312	21.105	21.102	21.142	VV	3848	89699	1.71%	0.202%
313	21.153	21.142	21.165	VV	3822	52300	0.99%	0.118%
314	21.194	21.165	21.325	VV	4013	320565	6.09%	0.721%
315	21.337	21.325	21.364	VV	2520	56280	1.07%	0.127%
316	21.395	21.364	21.495	VV	2466	179203	3.41%	0.403%
317	21.532	21.495	21.564	VV	2239	84435	1.61%	0.190%
318	21.625	21.564	21.729	VV	2256	172026	3.27%	0.387%
319	21.770	21.729	21.982	VV	1169	106434	2.02%	0.239%
320	21.988	21.982	22.012	VV	214	1617	0.03%	0.004%
321	22.040	22.012	22.064	PV	151	2387	0.05%	0.005%
322	22.095	22.064	22.118	PV	106	1422	0.03%	0.003%
323	22.165	22.118	22.202	PBA	481	31258	0.59%	0.070%
Sum of corrected areas:						44451311		

Instrument :

FID_F

ClientSampleId :

HL2PX4

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Aliphatic EPH 011425.M Sat Feb 01 00:44:26 2025

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX5	SDG No.:	Q1237
Lab Sample ID:	Q1237-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.6
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 16:05	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.88	U	1	1.88	2.09	mg/kg	FC068165.D
Aliphatic C9-C28	Aliphatic C9-C28	5.12		1	1.80	4.17	mg/kg	FC068165.D
Total AliphaticEPH	Total AliphaticEPH	5.12	J		3.68	6.26	mg/kg	
Total EPH	Total EPH	5.12	J		3.68	6.26	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX5	SDG No.:	Q1237
Lab Sample ID:	Q1237-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068165.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.12		1.80	4.17	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.88	U	1.88	2.09	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.3		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.2		40 - 140	62%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1237-05	Acq On:	31 Jan 2025 16:05
Client Sample ID:	HL2PX5	Operator:	YP/AJ
Data file:	FC068165.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	3.128	6.394	897709	6.482	300	ug/ml
Aliphatic C12-C16	6.395	9.777	828773	6.018	200	ug/ml
Aliphatic C16-C21	9.778	13.129	6323447	46.834	300	ug/ml
Aliphatic C21-C28	13.130	16.780	1796200	14.12	400	ug/ml
Aliphatic C28-C40	16.781	21.588	2593400	25.023	600	ug/ml
Aliphatic EPH	3.128	21.588	12439529	98.478		ug/ml
ortho-Terphenyl (SURR)	11.421	11.421	4878753	31.22		ug/ml
1-chlorooctadecane (SURR)	12.860	12.860	3825270	33.26		ug/ml
Aliphatic C9-C28	3.128	16.780	9846129	73.454	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
 Data File : FC068165.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 16:05
 Operator : YP/AJ
 Sample : Q1237-05
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 HL2PX5

Integration File: autoint1.e
 Quant Time: Jan 31 22:16:26 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 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)	11.421	4878753	31.221 ug/ml
Spiked Amount	50.000	Recovery	= 62.44%
12) S 1-chlorooctadecane (S...	12.860	3825270	33.262 ug/ml
Spiked Amount	50.000	Recovery	= 66.52%

Target Compounds

(f)=RT Delta > 1/2 Window

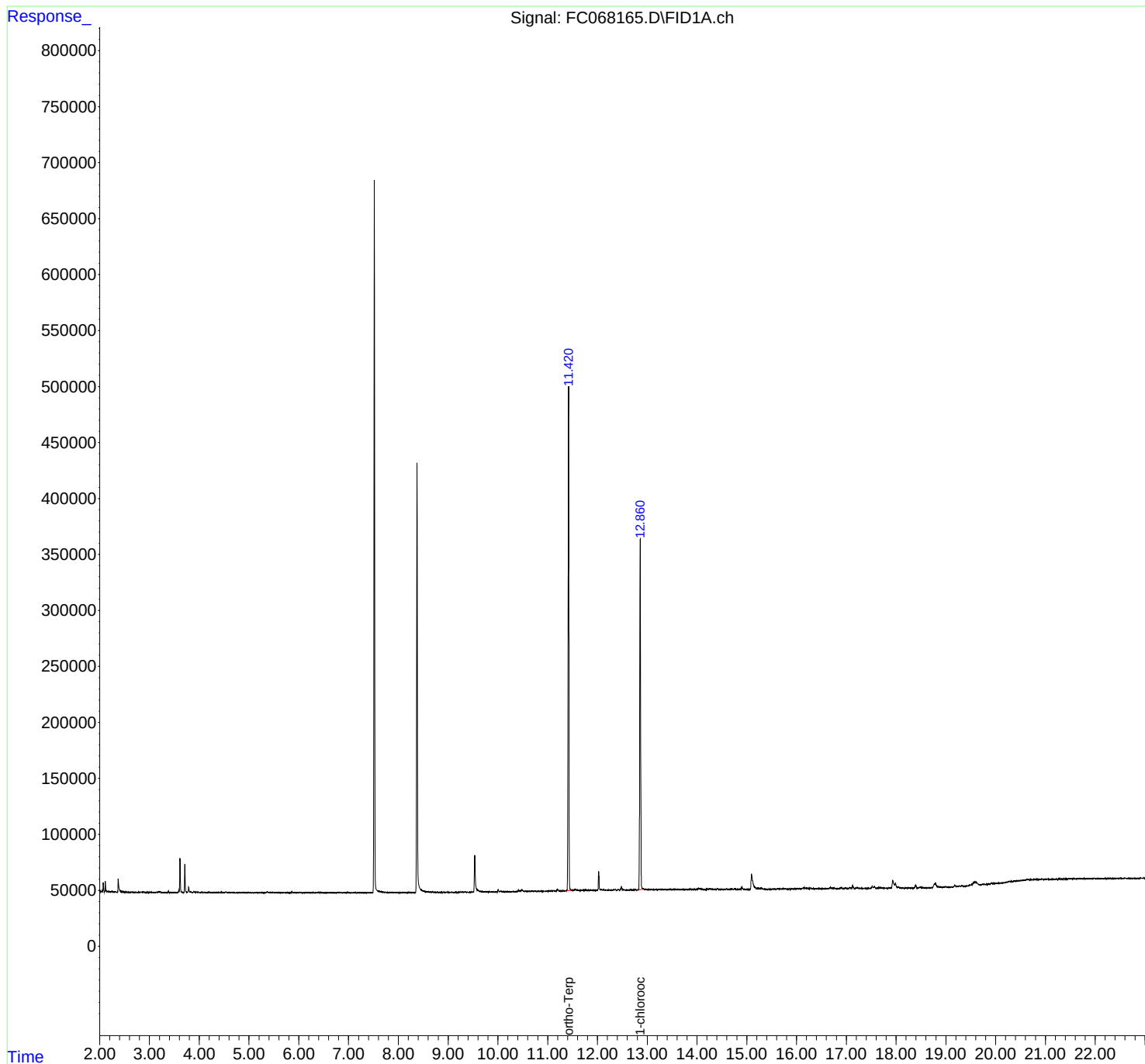
(m)=manual int.

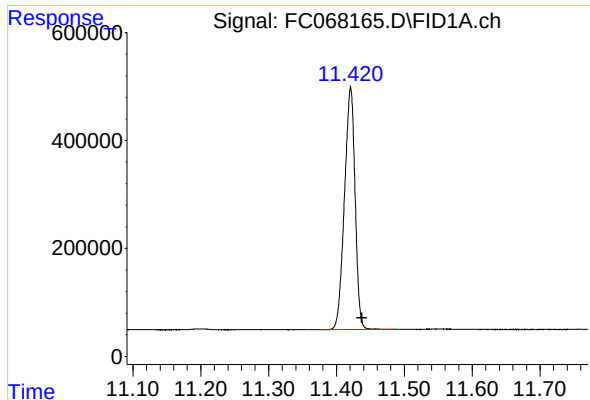
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068165.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 16:05
Operator : YP/AJ
Sample : Q1237-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
HL2PX5

Integration File: autoint1.e
Quant Time: Jan 31 22:16:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

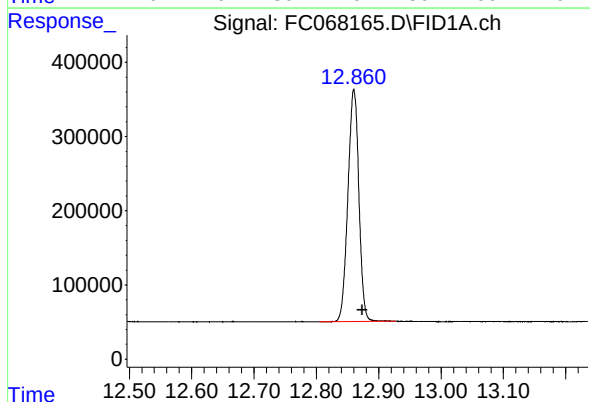




#9 ortho-Terphenyl (SURR)

R.T.: 11.421 min
Delta R.T.: -0.017 min
Response: 4878753
Conc: 31.22 ug/ml

Instrument :
FID_C
ClientSampleId :
HL2PX5



#12 1-chlorooctadecane (SURR)

R.T.: 12.860 min
Delta R.T.: -0.014 min
Response: 3825270
Conc: 33.26 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
 Data File : FC068165.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 16:05
 Sample : Q1237-05
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.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	3.034	3.004	3.072	PH	181	4108	0.08%	0.025%
2	3.101	3.094	3.119	VV	106	818	0.02%	0.005%
3	3.144	3.119	3.168	PV	329	6411	0.13%	0.039%
4	3.189	3.168	3.201	VV	528	6751	0.14%	0.041%
5	3.216	3.201	3.303	VV	989	14747	0.30%	0.090%
6	3.320	3.303	3.329	PV	77	874	0.02%	0.005%
7	3.381	3.329	3.426	VV	1338	14660	0.30%	0.089%
8	3.451	3.426	3.496	VV	90	2209	0.04%	0.013%
9	3.502	3.496	3.509	VV	79	332	0.01%	0.002%
10	3.521	3.509	3.534	VV	72	604	0.01%	0.004%
11	3.551	3.534	3.563	VV	136	1447	0.03%	0.009%
12	3.614	3.563	3.691	VV	30398	284113	5.73%	1.732%
13	3.710	3.691	3.762	VV	24751	215896	4.35%	1.316%
14	3.788	3.762	3.815	VV	4724	54923	1.11%	0.335%
15	3.825	3.815	3.870	VV	768	13805	0.28%	0.084%
16	3.888	3.870	3.938	VV	965	19130	0.39%	0.117%
17	3.949	3.938	4.027	VV	485	15741	0.32%	0.096%
18	4.051	4.027	4.072	VV	436	7618	0.15%	0.046%
19	4.085	4.072	4.137	VV	409	9506	0.19%	0.058%
20	4.148	4.137	4.174	VV	221	3231	0.07%	0.020%
21	4.193	4.174	4.258	VV	406	9085	0.18%	0.055%
22	4.283	4.258	4.304	VV	287	4117	0.08%	0.025%
23	4.349	4.304	4.369	VV	208	5308	0.11%	0.032%
24	4.386	4.369	4.415	VV	260	4183	0.08%	0.025%
25	4.438	4.415	4.460	VV	471	6427	0.13%	0.039%
26	4.478	4.460	4.495	VV	274	4475	0.09%	0.027%
27	4.506	4.495	4.519	VV	187	2244	0.05%	0.014%
28	4.538	4.519	4.581	VV	1027	13196	0.27%	0.080%
29	4.590	4.581	4.623	VV	231	3493	0.07%	0.021%
30	4.657	4.623	4.673	VV	217	4023	0.08%	0.025%
31	4.695	4.673	4.736	VV	290	5563	0.11%	0.034%
32	4.748	4.736	4.778	VV	158	2202	0.04%	0.013%
33	4.801	4.778	4.821	VV	180	2172	0.04%	0.013%
34	4.837	4.821	4.855	VV	157	1850	0.04%	0.011%
35	4.890	4.855	4.903	PV	221	4013	0.08%	0.024%
36	4.920	4.903	4.947	VV	178	2799	0.06%	0.017%

					rteres			
37	4.971	4.947	5.008	VV	221	4818	0.10%	0.029%
38	5.034	5.008	5.095	PV	164	4734	0.10%	0.029%
39	5.144	5.095	5.188	VV	359	9705	0.20%	0.059%
40	5.201	5.188	5.212	VV	170	1571	0.03%	0.010%
41	5.218	5.212	5.227	VV	98	773	0.02%	0.005%
42	5.251	5.227	5.297	VV	161	3726	0.08%	0.023%
43	5.315	5.297	5.343	VV	219	4201	0.08%	0.026%
44	5.362	5.343	5.475	VV	993	28950	0.58%	0.176%
45	5.500	5.475	5.534	VV	363	7600	0.15%	0.046%
46	5.561	5.534	5.584	VV	227	4435	0.09%	0.027%
47	5.597	5.584	5.631	VV	276	5311	0.11%	0.032%
48	5.662	5.631	5.698	VV	161	3843	0.08%	0.023%
49	5.719	5.698	5.743	VV	209	2577	0.05%	0.016%
50	5.763	5.743	5.782	VV	187	2475	0.05%	0.015%
51	5.815	5.782	5.837	VV	152	2879	0.06%	0.018%
52	5.859	5.837	5.949	VV	920	20322	0.41%	0.124%
53	6.016	5.949	6.061	VV	468	10739	0.22%	0.065%
54	6.075	6.061	6.085	VV	144	1375	0.03%	0.008%
55	6.096	6.085	6.121	VV	127	2049	0.04%	0.012%
56	6.145	6.121	6.168	VV	271	4560	0.09%	0.028%
57	6.179	6.168	6.284	VV	219	8104	0.16%	0.049%
58	6.291	6.284	6.348	VV	201	3763	0.08%	0.023%
59	6.355	6.348	6.368	VV	96	787	0.02%	0.005%
60	6.387	6.368	6.426	VV	555	11264	0.23%	0.069%
61	6.441	6.426	6.500	VV	332	7447	0.15%	0.045%
62	6.511	6.500	6.550	VV	144	2809	0.06%	0.017%
63	6.607	6.550	6.629	VV	155	5114	0.10%	0.031%
64	6.635	6.629	6.653	VV	91	1180	0.02%	0.007%
65	6.681	6.653	6.733	VV	130	4389	0.09%	0.027%
66	6.788	6.733	6.814	VV	301	9137	0.18%	0.056%
67	6.829	6.814	6.877	VV	254	7509	0.15%	0.046%
68	6.912	6.877	6.925	VV	250	4730	0.10%	0.029%
69	6.990	6.925	7.024	VV	339	11644	0.23%	0.071%
70	7.046	7.024	7.073	VV	169	3528	0.07%	0.022%
71	7.091	7.073	7.128	VV	198	4296	0.09%	0.026%
72	7.150	7.128	7.179	VV	161	3246	0.07%	0.020%
73	7.212	7.179	7.259	PV	237	6667	0.13%	0.041%
74	7.291	7.259	7.314	VV	185	3628	0.07%	0.022%
75	7.334	7.314	7.349	VV	145	2211	0.04%	0.013%
76	7.372	7.349	7.381	VV	138	2159	0.04%	0.013%
77	7.390	7.381	7.418	VV	149	1546	0.03%	0.009%
78	7.432	7.418	7.480	PV	81	2196	0.04%	0.013%
79	7.658	7.648	7.814	VV	947	49043	0.99%	0.299%
80	7.841	7.814	7.855	VV	302	6255	0.13%	0.038%
81	7.870	7.855	7.891	VV	209	4106	0.08%	0.025%
82	7.902	7.891	7.927	VV	246	3652	0.07%	0.022%
83	7.939	7.927	7.952	VV	208	2256	0.05%	0.014%
84	7.985	7.952	8.031	VV	226	7006	0.14%	0.043%
85	8.080	8.031	8.130	VV	391	10155	0.20%	0.062%
86	8.145	8.130	8.184	VV	247	3675	0.07%	0.022%
87	8.200	8.184	8.215	VV	135	1670	0.03%	0.010%
88	8.230	8.215	8.255	VV	200	2314	0.05%	0.014%
89	8.262	8.255	8.277	VV	80	694	0.01%	0.004%

					rteres			
90	8.296	8.277	8.310	PV	128	1323	0.03%	0.008%
91	8.320	8.310	8.339	VV	100	1267	0.03%	0.008%
92	8.583	8.575	8.666	VV	815	29917	0.60%	0.182%
93	8.690	8.666	8.743	VV	424	14497	0.29%	0.088%
94	8.754	8.743	8.787	VV	313	5914	0.12%	0.036%
95	8.816	8.787	8.882	VV	300	10957	0.22%	0.067%
96	8.904	8.882	8.944	VV	271	6179	0.12%	0.038%
97	8.956	8.944	9.014	VV	176	4551	0.09%	0.028%
98	9.029	9.014	9.056	VV	103	1547	0.03%	0.009%
99	9.069	9.056	9.077	VV	64	500	0.01%	0.003%
100	9.088	9.077	9.115	VV	127	1769	0.04%	0.011%
101	9.127	9.115	9.143	VV	150	1651	0.03%	0.010%
102	9.173	9.143	9.237	VV	153	3710	0.07%	0.023%
103	9.276	9.237	9.314	VV	400	7593	0.15%	0.046%
104	9.357	9.314	9.381	VV	246	5979	0.12%	0.036%
105	9.401	9.381	9.480	VV	160	5433	0.11%	0.033%
106	9.536	9.480	9.658	PV	33002	516999	10.42%	3.151%
107	9.674	9.658	9.728	VV	662	19823	0.40%	0.121%
108	9.751	9.728	9.814	VV	357	14902	0.30%	0.091%
109	9.837	9.814	9.880	VV	214	6135	0.12%	0.037%
110	9.894	9.880	9.900	VV	115	1285	0.03%	0.008%
111	9.908	9.900	9.951	VV	183	3494	0.07%	0.021%
112	9.959	9.951	9.966	VV	113	948	0.02%	0.006%
113	10.006	9.966	10.038	VV	2201	33012	0.67%	0.201%
114	10.060	10.038	10.100	VV	552	14157	0.29%	0.086%
115	10.111	10.100	10.119	VV	261	2702	0.05%	0.016%
116	10.149	10.119	10.191	VV	292	9439	0.19%	0.058%
117	10.205	10.191	10.231	VV	326	5293	0.11%	0.032%
118	10.296	10.231	10.317	VV	267	9212	0.19%	0.056%
119	10.342	10.317	10.357	VV	331	6393	0.13%	0.039%
120	10.413	10.357	10.458	VV	1109	42285	0.85%	0.258%
121	10.483	10.458	10.574	VV	1487	53964	1.09%	0.329%
122	10.643	10.574	10.674	VV	460	23756	0.48%	0.145%
123	10.680	10.674	10.700	VV	471	5927	0.12%	0.036%
124	10.750	10.700	10.768	VV	494	16951	0.34%	0.103%
125	10.809	10.768	10.845	VV	556	18846	0.38%	0.115%
126	10.888	10.845	10.924	VV	435	17297	0.35%	0.105%
127	10.947	10.924	11.013	VV	477	20950	0.42%	0.128%
128	11.046	11.013	11.074	VV	760	20825	0.42%	0.127%
129	11.113	11.074	11.158	VV	870	27761	0.56%	0.169%
130	11.200	11.158	11.240	VV	1922	47161	0.95%	0.287%
131	11.266	11.240	11.288	VV	675	14878	0.30%	0.091%
132	11.309	11.288	11.337	VV	588	15210	0.31%	0.093%
133	11.420	11.337	11.518	VV	454954	4962149	100.00%	30.244%
134	11.553	11.518	11.688	VV	1614	107959	2.18%	0.658%
135	11.710	11.688	11.734	VV	851	22562	0.45%	0.138%
136	11.760	11.734	11.817	VV	1291	45490	0.92%	0.277%
137	11.869	11.817	11.948	VV	955	61628	1.24%	0.376%
138	12.027	11.948	12.101	VV	17449	253856	5.12%	1.547%
139	12.122	12.101	12.208	VV	1122	60567	1.22%	0.369%
140	12.229	12.208	12.301	VV	973	48118	0.97%	0.293%
141	12.337	12.301	12.401	VV	1215	55103	1.11%	0.336%

					rteres			
142	12.420	12.401	12.441	VV	1256	24598	0.50%	0.150%
143	12.482	12.441	12.601	VV	3320	112816	2.27%	0.688%
144	12.622	12.601	12.648	VV	803	20558	0.41%	0.125%
145	12.665	12.648	12.684	VV	889	17483	0.35%	0.107%
146	12.694	12.684	12.714	VV	852	13591	0.27%	0.083%
147	12.776	12.714	12.803	VV	847	42377	0.85%	0.258%
148	12.860	12.803	13.011	VV	314947	3962625	79.86%	24.152%
149	13.051	13.011	13.111	VV	1029	56711	1.14%	0.346%
150	13.157	13.111	13.208	VV	1049	50204	1.01%	0.306%
151	13.257	13.208	13.284	VV	1068	43497	0.88%	0.265%
152	13.299	13.284	13.331	VV	1035	25435	0.51%	0.155%
153	13.338	13.331	13.364	VV	901	16412	0.33%	0.100%
154	13.378	13.364	13.402	VV	895	17723	0.36%	0.108%
155	13.462	13.402	13.495	VV	998	47808	0.96%	0.291%
156	13.523	13.495	13.591	VV	1055	51907	1.05%	0.316%
157	13.613	13.591	13.691	VV	925	48814	0.98%	0.298%
158	13.700	13.691	13.722	VV	838	14041	0.28%	0.086%
159	13.752	13.722	13.785	VV	806	27510	0.55%	0.168%
160	13.847	13.785	13.878	VV	1018	46261	0.93%	0.282%
161	13.905	13.878	13.946	VV	889	31689	0.64%	0.193%
162	14.044	13.946	14.147	VV	1665	111172	2.24%	0.678%
163	14.172	14.147	14.194	VV	814	19043	0.38%	0.116%
164	14.242	14.194	14.381	VV	1155	90098	1.82%	0.549%
165	14.408	14.381	14.434	VV	826	22667	0.46%	0.138%
166	14.450	14.434	14.519	VV	652	28525	0.57%	0.174%
167	14.550	14.519	14.567	VV	578	16151	0.33%	0.098%
168	14.598	14.567	14.650	VV	754	30986	0.62%	0.189%
169	14.712	14.650	14.734	VV	956	34078	0.69%	0.208%
170	14.756	14.734	14.811	VV	1007	30980	0.62%	0.189%
171	14.852	14.811	14.872	VV	575	18890	0.38%	0.115%
172	14.902	14.872	14.936	VV	2798	45802	0.92%	0.279%
173	14.979	14.936	15.031	VV	527	23118	0.47%	0.141%
174	15.097	15.031	15.211	VV	13788	401264	8.09%	2.446%
175	15.239	15.211	15.265	VV	1399	36427	0.73%	0.222%
176	15.288	15.265	15.327	VV	1838	36858	0.74%	0.225%
177	15.348	15.327	15.411	VV	504	18120	0.37%	0.110%
178	15.439	15.411	15.471	VV	333	10784	0.22%	0.066%
179	15.485	15.471	15.508	VV	303	6150	0.12%	0.037%
180	15.539	15.508	15.588	VV	549	20139	0.41%	0.123%
181	15.636	15.588	15.711	VV	581	29861	0.60%	0.182%
182	15.732	15.711	15.774	VV	978	21327	0.43%	0.130%
183	15.786	15.774	15.838	VV	533	11744	0.24%	0.072%
184	15.852	15.838	15.864	VV	195	3267	0.07%	0.020%
185	15.914	15.864	15.950	VV	473	17179	0.35%	0.105%
186	16.067	15.950	16.091	VV	575	36867	0.74%	0.225%
187	16.129	16.091	16.194	VV	1183	54880	1.11%	0.334%
188	16.211	16.194	16.251	VV	1309	24907	0.50%	0.152%
189	16.287	16.251	16.334	VV	1119	28974	0.58%	0.177%
190	16.355	16.334	16.391	VV	535	13447	0.27%	0.082%
191	16.432	16.391	16.458	VV	531	17217	0.35%	0.105%
192	16.465	16.458	16.494	VV	551	8829	0.18%	0.054%
193	16.535	16.494	16.563	VV	475	15707	0.32%	0.096%
194	16.680	16.563	16.711	VV	1519	54672	1.10%	0.333%

					rteres			
195	16.724	16.711	16.741	VV	962	14105	0.28%	0.086%
196	16.754	16.741	16.818	VV	691	20664	0.42%	0.126%
197	16.898	16.818	16.944	VV	897	39486	0.80%	0.241%
198	16.989	16.944	17.034	VV	671	26925	0.54%	0.164%
199	17.069	17.034	17.101	VV	1218	33203	0.67%	0.202%
200	17.126	17.101	17.174	VV	2464	50396	1.02%	0.307%
201	17.215	17.174	17.328	VV	928	41163	0.83%	0.251%
202	17.346	17.328	17.421	VV	340	14358	0.29%	0.088%
203	17.442	17.421	17.474	VV	398	8674	0.17%	0.053%
204	17.519	17.474	17.541	VV	1916	36180	0.73%	0.221%
205	17.562	17.541	17.624	VV	1738	37509	0.76%	0.229%
206	17.654	17.624	17.754	VV	1141	44775	0.90%	0.273%
207	17.774	17.754	17.817	VV	653	11815	0.24%	0.072%
208	17.934	17.817	17.968	VV	6977	180109	3.63%	1.098%
209	17.985	17.968	18.034	VV	4220	97025	1.96%	0.591%
210	18.051	18.034	18.161	VV	1329	40279	0.81%	0.245%
211	18.198	18.161	18.224	VV	369	8932	0.18%	0.054%
212	18.261	18.224	18.328	VV	301	11709	0.24%	0.071%
213	18.392	18.328	18.431	PV	2541	52540	1.06%	0.320%
214	18.488	18.431	18.571	VV	817	33178	0.67%	0.202%
215	18.588	18.571	18.617	VV	211	2550	0.05%	0.016%
216	18.655	18.617	18.677	PV	180	2074	0.04%	0.013%
217	18.784	18.677	18.938	VV	3647	162532	3.28%	0.991%
218	18.986	18.938	19.021	VV	518	14845	0.30%	0.090%
219	19.057	19.021	19.104	VV	268	8446	0.17%	0.051%
220	19.179	19.104	19.241	PV	1387	35750	0.72%	0.218%
221	19.280	19.241	19.303	VV	598	16041	0.32%	0.098%
222	19.326	19.303	19.391	VV	749	17103	0.34%	0.104%
223	19.596	19.391	19.711	PV	3366	253595	5.11%	1.546%
224	19.771	19.711	19.790	VV	751	31063	0.63%	0.189%
225	19.918	19.790	19.951	VV	1352	65190	1.31%	0.397%
226	20.013	19.951	20.038	VV	824	37956	0.76%	0.231%
227	20.116	20.038	20.131	VV	938	43260	0.87%	0.264%
228	20.281	20.131	20.301	VV	1732	121706	2.45%	0.742%
229	20.633	20.301	20.681	VV	2414	411964	8.30%	2.511%
230	20.771	20.681	20.814	VV	1938	153655	3.10%	0.937%
231	20.835	20.814	20.903	VV	1801	89887	1.81%	0.548%
232	20.931	20.903	20.986	VV	2083	79778	1.61%	0.486%
233	21.028	20.986	21.111	VV	1480	98322	1.98%	0.599%
234	21.261	21.111	21.324	VV	948	112299	2.26%	0.684%
235	21.371	21.324	21.400	VV	663	26839	0.54%	0.164%
236	21.490	21.400	21.532	VV	544	33428	0.67%	0.204%
237	21.575	21.532	21.604	VV	221	6861	0.14%	0.042%
Sum of corrected areas:					16407077			

Aliphatic EPH 012425.M Fri Jan 31 22:49:13 2025

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX6	SDG No.:	Q1237
Lab Sample ID:	Q1237-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 16:42	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	32.2		1	1.95	2.17	mg/kg FC068166.D
Aliphatic C9-C28	Aliphatic C9-C28	64.5		1	1.86	4.33	mg/kg FC068166.D
Total AliphaticEPH	Total AliphaticEPH	96.7			3.81	6.50	mg/kg
Total EPH	Total EPH	96.7			3.81	6.50	mg/kg

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	01/30/25
Project:	Nelson	Date Received:	01/30/25
Client Sample ID:	HL2PX6	SDG No.:	Q1237
Lab Sample ID:	Q1237-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068166.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	64.5		1.86	4.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	32.2		1.95	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.7		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.1		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1237-06	Acq On:	31 Jan 2025 16:42
Client Sample ID:	HL2PX6	Operator:	YP/AJ
Data file:	FC068166.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	3.128	6.394	958463	6.921	300	ug/ml
Aliphatic C12-C16	6.395	9.777	3664490	26.61	200	ug/ml
Aliphatic C16-C21	9.778	13.129	42673438	316.054	300	ug/ml
Aliphatic C21-C28	13.130	16.780	69108410	543.273	400	ug/ml
Aliphatic C28-C40	16.781	21.588	46106706	444.879	600	ug/ml
Aliphatic EPH	3.128	21.588	162511507	1340		ug/ml
ortho-Terphenyl (SURR)	11.422	11.422	5791006	37.06		ug/ml
1-chlorooctadecane (SURR)	12.864	12.864	4455451	38.74		ug/ml
Aliphatic C9-C28	3.128	16.780	116404801	892.858	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
 Data File : FC068166.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 16:42
 Operator : YP/AJ
 Sample : Q1237-06
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 HL2PX6

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Jan 31 22:16:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 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)	11.422	5791006	37.058 ug/mlm
Spiked Amount 50.000		Recovery =	74.12%
12) S 1-chlorooctadecane (S...	12.864	4455451	38.742 ug/ml
Spiked Amount 50.000		Recovery =	77.48%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068166.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 16:42
Operator : YP/AJ
Sample : Q1237-06
Misc :
ALS Vial : 15 Sample Multiplier: 1

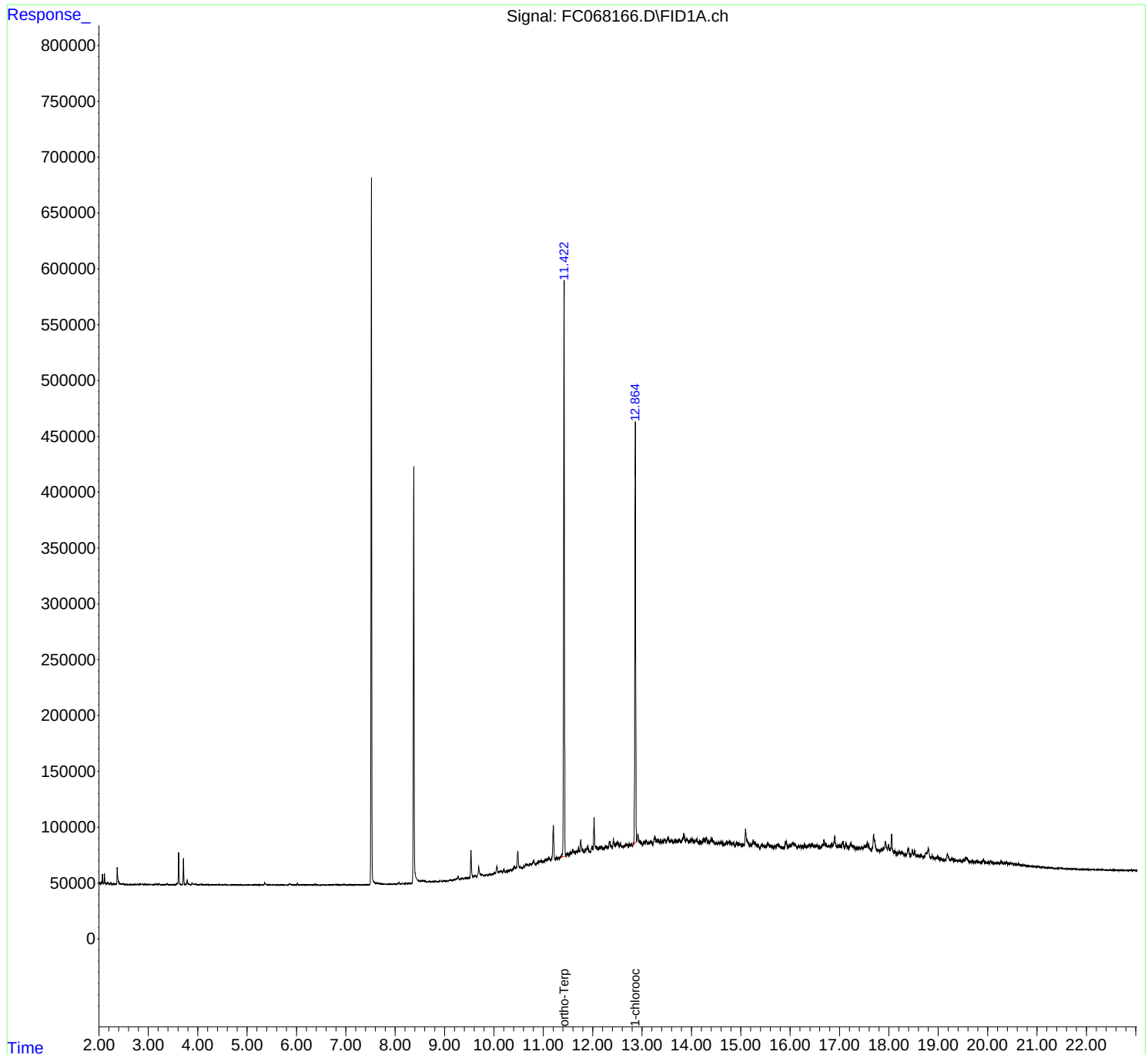
Instrument :
FID_C
ClientSampleId :
HL2PX6

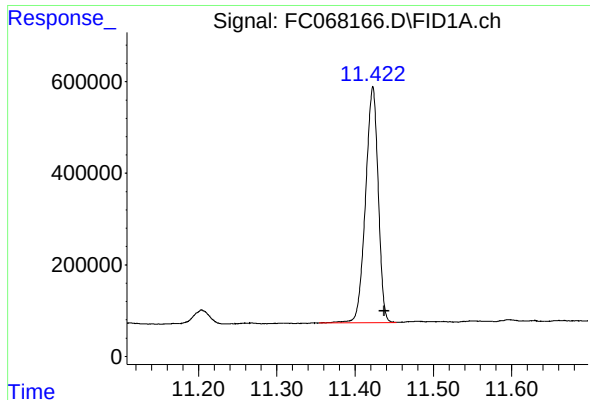
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Jan 31 22:16:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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





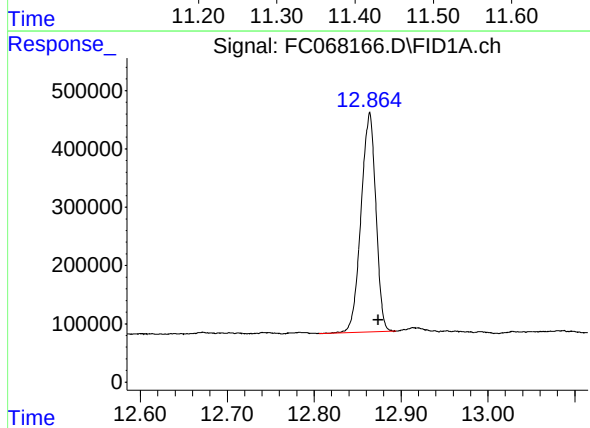
#9 ortho-Terphenyl (SURR)

R.T.: 11.422 min
Delta R.T.: -0.015 min
Response: 5791006
Conc: 37.06 ug/ml

Instrument :
FID_C
ClientSampleId :
HL2PX6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025



#12 1-chlorooctadecane (SURR)

R.T.: 12.864 min
Delta R.T.: -0.010 min
Response: 4455451
Conc: 38.74 ug/ml

rters

Instrument :

FID_C

ClientSampleId :

HL2PX6

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC01312

Data File : FC068166.D

Signal(s) : FID1A.ch

Acq On : 31 Jan 2025 16:42

Sample : Q1237-06

Misc :

ALS Vial : 15 Sample Multiplier: 1

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.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	3.022	3.004	3.111	BV	198	395	0.01%	0.000%
2	3.139	3.111	3.161	PV	356	7105	0.10%	0.004%
3	3.169	3.161	3.176	VV	348	2763	0.04%	0.002%
4	3.188	3.176	3.201	VV	452	5051	0.07%	0.003%
5	3.216	3.201	3.282	VV	818	12566	0.17%	0.007%
6	3.290	3.282	3.304	VV	71	483	0.01%	0.000%
7	3.350	3.304	3.368	PV	255	3710	0.05%	0.002%
8	3.381	3.368	3.404	VV	1129	10046	0.14%	0.006%
9	3.427	3.404	3.457	PV	233	3492	0.05%	0.002%
10	3.585	3.457	3.595	VV	1683	27106	0.37%	0.015%
11	3.614	3.595	3.691	VV	28859	253561	3.47%	0.144%
12	3.711	3.691	3.756	VV	23590	201130	2.75%	0.114%
13	3.788	3.756	3.810	VV	4426	55524	0.76%	0.032%
14	3.820	3.810	3.864	VV	851	13211	0.18%	0.007%
15	3.885	3.864	3.926	VV	1910	31442	0.43%	0.018%
16	3.939	3.926	3.971	VV	591	12159	0.17%	0.007%
17	3.978	3.971	4.024	VV	371	7680	0.11%	0.004%
18	4.050	4.024	4.066	VV	482	6959	0.10%	0.004%
19	4.087	4.066	4.154	VV	567	13263	0.18%	0.008%
20	4.165	4.154	4.175	VV	227	2166	0.03%	0.001%
21	4.191	4.175	4.267	VV	399	8708	0.12%	0.005%
22	4.285	4.267	4.298	VV	344	3878	0.05%	0.002%
23	4.322	4.298	4.376	VV	308	10720	0.15%	0.006%
24	4.387	4.376	4.401	VV	266	2596	0.04%	0.001%
25	4.435	4.401	4.463	VV	560	8614	0.12%	0.005%
26	4.478	4.463	4.501	VV	203	2739	0.04%	0.002%
27	4.537	4.501	4.558	VV	600	8078	0.11%	0.005%
28	4.567	4.558	4.601	VV	256	3251	0.04%	0.002%
29	4.608	4.601	4.625	VV	194	1727	0.02%	0.001%
30	4.639	4.625	4.671	VV	189	3384	0.05%	0.002%
31	4.716	4.671	4.744	VV	180	5268	0.07%	0.003%
32	4.749	4.744	4.768	VV	191	1479	0.02%	0.001%
33	4.779	4.768	4.813	VV	73	1678	0.02%	0.001%
34	4.840	4.813	4.854	VV	179	3227	0.04%	0.002%
35	4.874	4.854	4.899	VV	282	5483	0.08%	0.003%
36	4.940	4.899	5.013	VV	259	11056	0.15%	0.006%

					retention				
37	5.027	5.013	5.071	VV	244	4151	0.06%	0.002%	
38	5.142	5.071	5.201	PV	543	14714			
39	5.205	5.201	5.258	VV	186	3050			
40	5.264	5.258	5.295	VV	126	1687			
41	5.317	5.295	5.337	VV	322	4514			
42	5.357	5.337	5.406	VV	1813	35484			
43	5.427	5.406	5.467	VV	555	12850	0.18%	0.007%	
44	5.489	5.467	5.531	VV	263	7776	0.11%	0.004%	
45	5.554	5.531	5.584	VV	512	8585	0.12%	0.005%	
46	5.598	5.584	5.634	VV	221	4651	0.06%	0.003%	
47	5.648	5.634	5.669	VV	212	3470	0.05%	0.002%	
48	5.690	5.669	5.721	VV	214	4219	0.06%	0.002%	
49	5.730	5.721	5.744	VV	167	1773	0.02%	0.001%	
50	5.762	5.744	5.791	VV	231	3673	0.05%	0.002%	
51	5.802	5.791	5.808	VV	63	413	0.01%	0.000%	
52	5.859	5.808	5.941	VV	1238	32337	0.44%	0.018%	
53	5.956	5.941	5.981	VV	190	3464	0.05%	0.002%	
54	6.018	5.981	6.063	VV	1081	18952	0.26%	0.011%	
55	6.075	6.063	6.118	VV	227	5051	0.07%	0.003%	
56	6.145	6.118	6.170	VV	317	6448	0.09%	0.004%	
57	6.187	6.170	6.225	VV	305	5921	0.08%	0.003%	
58	6.236	6.225	6.271	VV	144	2472	0.03%	0.001%	
59	6.293	6.271	6.348	VV	365	7103	0.10%	0.004%	
60	6.379	6.348	6.431	VV	731	14402	0.20%	0.008%	
61	6.442	6.431	6.498	VV	232	5487	0.08%	0.003%	
62	6.508	6.498	6.515	VV	128	1050	0.01%	0.001%	
63	6.523	6.515	6.548	VV	133	1558	0.02%	0.001%	
64	6.565	6.548	6.579	PV	217	2369	0.03%	0.001%	
65	6.590	6.579	6.647	VV	142	3227	0.04%	0.002%	
66	6.658	6.647	6.667	VV	126	1085	0.01%	0.001%	
67	6.679	6.667	6.718	VV	169	2600	0.04%	0.001%	
68	6.728	6.718	6.740	VV	96	775	0.01%	0.000%	
69	6.773	6.740	6.904	VV	728	24745	0.34%	0.014%	
70	6.910	6.904	6.928	VV	211	1821	0.02%	0.001%	
71	6.956	6.928	7.015	VV	531	12669	0.17%	0.007%	
72	7.046	7.015	7.058	PV	105	1556	0.02%	0.001%	
73	7.060	7.058	7.068	VV	132	477	0.01%	0.000%	
74	7.090	7.068	7.141	PV	264	4200	0.06%	0.002%	
75	7.161	7.141	7.194	VV	156	2215	0.03%	0.001%	
76	7.213	7.194	7.257	VV	404	5742	0.08%	0.003%	
77	7.278	7.257	7.317	PV	91	2073	0.03%	0.001%	
78	7.328	7.317	7.347	VV	134	1531	0.02%	0.001%	
79	7.366	7.347	7.428	VV	182	5017	0.07%	0.003%	
80	7.441	7.428	7.456	PV	170	1681	0.02%	0.001%	
81	7.462	7.456	7.471	VV	115	739	0.01%	0.000%	
82	7.631	7.604	7.648	VV	1710	37531	0.51%	0.021%	
83	7.659	7.648	7.680	VV	1337	21781	0.30%	0.012%	
84	7.697	7.680	7.754	VV	951	31425	0.43%	0.018%	
85	7.778	7.754	7.800	VV	549	12473	0.17%	0.007%	
86	7.810	7.800	7.822	VV	426	5440	0.07%	0.003%	
87	7.902	7.822	7.929	VV	452	22256	0.30%	0.013%	
88	7.966	7.929	8.006	VV	497	14816	0.20%	0.008%	
89	8.079	8.006	8.103	VV	1613	38930	0.53%	0.022%	

Instrument :

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HL2PX6

Manual IntegrationsAPPROVED

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90	8.144	8.103	8.165	VV	724	17771	0.24%	0.010%
91	8.231	8.165	8.248	VV	1071	30466		
92	8.296	8.248	8.310	VV	692	21413		
93	8.325	8.310	8.341	VV	691	11579		
94	8.506	8.488	8.543	VV	3064	90595		
95	8.559	8.543	8.578	VV	3097	57051		
96	8.591	8.578	8.605	VV	2708	40786	0.56%	0.023%
97	8.614	8.605	8.648	VV	2506	54024	0.74%	0.031%
98	8.692	8.648	8.737	VV	2543	105996	1.45%	0.060%
99	8.758	8.737	8.779	VV	2233	49188	0.67%	0.028%
100	8.814	8.779	8.825	VV	2421	58277	0.80%	0.033%
101	8.837	8.825	8.858	VV	2316	40074	0.55%	0.023%
102	8.904	8.858	8.921	VV	2674	78942	1.08%	0.045%
103	8.935	8.921	8.950	VV	2153	35699	0.49%	0.020%
104	8.976	8.950	9.008	VV	2703	81450	1.11%	0.046%
105	9.035	9.008	9.064	VV	2554	76191	1.04%	0.043%
106	9.118	9.064	9.145	VV	3170	134476	1.84%	0.076%
107	9.198	9.145	9.211	VV	3641	124968	1.71%	0.071%
108	9.227	9.211	9.241	VV	3901	66560	0.91%	0.038%
109	9.276	9.241	9.304	VV	6529	176106	2.41%	0.100%
110	9.357	9.304	9.378	VV	5070	184913	2.53%	0.105%
111	9.405	9.378	9.418	VV	4723	105259	1.44%	0.060%
112	9.436	9.418	9.478	VV	5041	166337	2.28%	0.094%
113	9.536	9.478	9.597	VV	29112	665090	9.10%	0.378%
114	9.627	9.597	9.658	VV	7087	228137	3.12%	0.129%
115	9.693	9.658	9.798	VV	14728	695873	9.52%	0.395%
116	9.803	9.798	9.816	VV	6731	73326	1.00%	0.042%
117	9.841	9.816	9.876	VV	7393	244647	3.35%	0.139%
118	9.909	9.876	9.934	VV	7929	258167	3.53%	0.147%
119	9.945	9.934	9.960	VV	7551	113889	1.56%	0.065%
120	10.007	9.960	10.032	VV	9085	357471	4.89%	0.203%
121	10.061	10.032	10.104	VV	14709	475716	6.51%	0.270%
122	10.119	10.104	10.128	VV	10180	136091	1.86%	0.077%
123	10.147	10.128	10.171	VV	10612	261306	3.58%	0.148%
124	10.204	10.171	10.229	VV	12424	362133	4.96%	0.206%
125	10.254	10.229	10.274	VV	10290	269486	3.69%	0.153%
126	10.341	10.274	10.360	VV	11739	547759	7.50%	0.311%
127	10.412	10.360	10.444	VV	14436	633251	8.67%	0.359%
128	10.485	10.444	10.514	VV	28179	762622	10.44%	0.433%
129	10.525	10.514	10.551	VV	13911	296337	4.06%	0.168%
130	10.563	10.551	10.581	VV	13359	236255	3.23%	0.134%
131	10.607	10.581	10.621	VV	14881	332778	4.55%	0.189%
132	10.643	10.621	10.662	VV	16196	365065	5.00%	0.207%
133	10.681	10.662	10.706	VV	16344	416282	5.70%	0.236%
134	10.758	10.706	10.768	VV	16510	586259	8.02%	0.333%
135	10.807	10.768	10.848	VV	19729	822567	11.26%	0.467%
136	10.890	10.848	10.902	VV	18090	552852	7.57%	0.314%
137	10.941	10.902	10.960	VV	18636	627681	8.59%	0.356%
138	10.970	10.960	10.986	VV	18993	292934	4.01%	0.166%
139	11.000	10.986	11.016	VV	18905	330123	4.52%	0.187%
140	11.034	11.016	11.047	VV	19802	354311	4.85%	0.201%
141	11.072	11.047	11.087	VV	20269	475986	6.51%	0.270%

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HL2PX6

Manual IntegrationsAPPROVED

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							Instrument : FID_C	
							Client:Sampled : HL2PX6	
Parameters							Manual Integration	
142	11.112	11.087	11.151	VV	21998	781903	10.70%	0.444%
143	11.204	11.151	11.238	VV	50239	1463414	20.70%	0.444%
144	11.267	11.238	11.281	VV	21877	542449	7.47%	0.102%
145	11.308	11.281	11.341	VV	21405	754595	10.70%	0.444%
146	11.422	11.341	11.454	VV	530866	7307814	100.70%	0.444%
147	11.480	11.454	11.492	VV	25537	548262	2.47%	0.102%
148	11.499	11.492	11.504	VV	24701	180437	2.47%	0.102%
149	11.511	11.504	11.531	VV	24694	394865	5.40%	0.224%
150	11.551	11.531	11.578	VV	26109	705753	9.66%	0.401%
151	11.597	11.578	11.617	VV	28691	639529	8.75%	0.363%
152	11.628	11.617	11.644	VV	26885	422365	5.78%	0.240%
153	11.662	11.644	11.674	VV	26762	472884	6.47%	0.268%
154	11.683	11.674	11.694	VV	26488	314711	4.31%	0.179%
155	11.712	11.694	11.731	VV	30242	605701	8.29%	0.344%
156	11.760	11.731	11.828	VV	37038	1717436	23.50%	0.975%
157	11.893	11.828	11.954	VV	30432	2111793	28.90%	1.199%
158	11.987	11.954	12.004	VV	31441	868790	11.89%	0.493%
159	12.030	12.004	12.063	VV	56692	1320945	18.08%	0.750%
160	12.076	12.063	12.116	VV	30568	947537	12.97%	0.538%
161	12.131	12.116	12.144	VV	30547	499538	6.84%	0.284%
162	12.187	12.144	12.214	VV	31163	1251726	17.13%	0.710%
163	12.265	12.214	12.311	VV	30851	1730414	23.68%	0.982%
164	12.343	12.311	12.396	VV	35344	1612262	22.06%	0.915%
165	12.421	12.396	12.442	VV	37139	916416	12.54%	0.520%
166	12.453	12.442	12.464	VV	32524	441859	6.05%	0.251%
167	12.484	12.464	12.498	VV	34397	657680	9.00%	0.373%
168	12.508	12.498	12.540	VV	34960	831997	11.39%	0.472%
169	12.562	12.540	12.590	VV	34045	947784	12.97%	0.538%
170	12.601	12.590	12.631	VV	30849	750555	10.27%	0.426%
171	12.639	12.631	12.651	VV	30947	370305	5.07%	0.210%
172	12.672	12.651	12.724	VV	33193	1396611	19.11%	0.793%
173	12.744	12.724	12.764	VV	32505	749106	10.25%	0.425%
174	12.784	12.764	12.806	VV	32936	801912	10.97%	0.455%
175	12.864	12.806	12.894	VV	412053	6214521	85.04%	3.527%
176	12.916	12.894	13.011	VV	40992	2477442	33.90%	1.406%
177	13.084	13.011	13.122	VV	35495	2259168	30.91%	1.282%
178	13.134	13.122	13.152	VV	33958	581691	7.96%	0.330%
179	13.187	13.152	13.218	VV	34959	1338597	18.32%	0.760%
180	13.256	13.218	13.331	VV	39162	2418819	33.10%	1.373%
181	13.341	13.331	13.361	VV	35474	629819	8.62%	0.357%
182	13.381	13.361	13.400	VV	35554	781640	10.70%	0.444%
183	13.462	13.400	13.485	VV	36542	1786938	24.45%	1.014%
184	13.529	13.485	13.583	VV	37811	2070445	28.33%	1.175%
185	13.604	13.583	13.637	VV	35413	1122075	15.35%	0.637%
186	13.700	13.637	13.718	VV	35597	1651645	22.60%	0.937%
187	13.754	13.718	13.793	VV	36426	1548028	21.18%	0.879%
188	13.847	13.793	13.881	VV	41018	1945200	26.62%	1.104%
189	13.902	13.881	13.967	VV	36011	1787850	24.46%	1.015%
190	14.007	13.967	14.068	VV	36525	2099918	28.74%	1.192%
191	14.110	14.068	14.151	VV	36164	1704454	23.32%	0.967%
192	14.176	14.151	14.203	VV	34160	1033280	14.14%	0.587%
193	14.242	14.203	14.268	VV	36217	1336642	18.29%	0.759%
194	14.273	14.268	14.284	VV	34908	325689	4.46%	0.185%

Manual IntegrationsAPPROVED

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195	14.303	14.284	14.328	VV	37121	944820	12.93%	0.536%
196	14.338	14.328	14.371	VV	33884	854774	11.93%	0.536%
197	14.408	14.371	14.481	VV	35790	2238928	30.93%	0.536%
198	14.494	14.481	14.518	VV	32353	697681	9.93%	0.536%
199	14.554	14.518	14.584	VV	32887	1280443	17.93%	0.536%
200	14.597	14.584	14.662	VV	33176	1490890	20.93%	0.536%
201	14.714	14.662	14.733	VV	34047	1333221	18.24%	0.757%
202	14.769	14.733	14.779	VV	32928	897275	12.28%	0.509%
203	14.787	14.779	14.818	VV	32959	736110	10.07%	0.418%
204	14.834	14.818	14.891	VV	32095	1358525	18.59%	0.771%
205	14.911	14.891	14.929	VV	32215	701382	9.60%	0.398%
206	14.954	14.929	15.001	VV	31618	1346206	18.42%	0.764%
207	15.006	15.001	15.033	VV	30377	579204	7.93%	0.329%
208	15.048	15.033	15.071	VV	30020	677763	9.27%	0.385%
209	15.096	15.071	15.176	VV	44092	2161481	29.58%	1.227%
210	15.190	15.176	15.210	VV	30279	598716	8.19%	0.340%
211	15.250	15.210	15.273	VV	34489	1204701	16.49%	0.684%
212	15.284	15.273	15.328	VV	32336	1012309	13.85%	0.575%
213	15.345	15.328	15.391	VV	30566	1078567	14.76%	0.612%
214	15.443	15.391	15.455	VV	30330	1116642	15.28%	0.634%
215	15.462	15.455	15.514	VV	29417	1011811	13.85%	0.574%
216	15.540	15.514	15.647	VV	31363	2307048	31.57%	1.310%
217	15.660	15.647	15.678	VV	28223	510821	6.99%	0.290%
218	15.695	15.678	15.714	VV	28588	610554	8.35%	0.347%
219	15.735	15.714	15.751	VV	30192	638673	8.74%	0.363%
220	15.770	15.751	15.845	VV	29996	1566777	21.44%	0.889%
221	15.852	15.845	15.859	VV	27309	227936	3.12%	0.129%
222	15.914	15.859	15.961	VV	32740	1786324	24.44%	1.014%
223	15.988	15.961	16.001	VV	28549	673855	9.22%	0.382%
224	16.015	16.001	16.024	VV	29218	403546	5.52%	0.229%
225	16.056	16.024	16.151	VV	31307	2213744	30.29%	1.257%
226	16.161	16.151	16.194	VV	28771	722942	9.89%	0.410%
227	16.208	16.194	16.224	VV	29119	501907	6.87%	0.285%
228	16.247	16.224	16.268	VV	28167	705464	9.65%	0.400%
229	16.290	16.268	16.335	VV	29619	1131956	15.49%	0.643%
230	16.377	16.335	16.416	VV	29112	1364921	18.68%	0.775%
231	16.440	16.416	16.498	VV	29593	1405512	19.23%	0.798%
232	16.536	16.498	16.622	VV	28940	2050575	28.06%	1.164%
233	16.658	16.622	16.666	VV	29315	742322	10.16%	0.421%
234	16.686	16.666	16.710	VV	32977	793432	10.86%	0.450%
235	16.721	16.710	16.753	VV	29888	749565	10.26%	0.425%
236	16.767	16.753	16.784	VV	28205	516357	7.07%	0.293%
237	16.798	16.784	16.810	VV	27639	426838	5.84%	0.242%
238	16.832	16.810	16.864	VV	29498	924716	12.65%	0.525%
239	16.869	16.864	16.874	VV	29119	164736	2.25%	0.094%
240	16.902	16.874	16.955	VV	36442	1471470	20.14%	0.835%
241	16.975	16.955	17.027	VV	28622	1191547	16.31%	0.676%
242	17.070	17.027	17.108	VV	32153	1383797	18.94%	0.785%
243	17.131	17.108	17.187	VV	30283	1309276	17.92%	0.743%
244	17.221	17.187	17.254	VV	29659	1123728	15.38%	0.638%
245	17.262	17.254	17.339	VV	27738	1335379	18.27%	0.758%
246	17.346	17.339	17.388	VV	25262	737366	10.09%	0.419%

					rters			
247	17.401	17.388	17.424	VV	26191	558165	7.64%	0.317%
248	17.450	17.424	17.476	VV	26752	795272	10.62%	0.399%
249	17.563	17.476	17.581	VV	30035	1706637	23.77%	0.742%
250	17.592	17.581	17.618	VV	27756	577073	7.79%	0.317%
251	17.627	17.618	17.647	VV	24780	434983	5.84%	0.242%
252	17.690	17.647	17.762	VV	37691	1964642	26.63%	0.893%
253	17.777	17.762	17.824	VV	23948	867973	11.88%	0.493%
254	17.847	17.824	17.874	VV	24177	703145	9.62%	0.399%
255	17.889	17.874	17.903	VV	25024	427040	5.84%	0.242%
256	17.926	17.903	17.968	VV	30415	1062688	14.54%	0.603%
257	17.988	17.968	18.027	VV	27931	895657	12.26%	0.508%
258	18.054	18.027	18.107	VV	37060	1246610	17.06%	0.708%
259	18.121	18.107	18.155	VV	22460	609000	8.33%	0.346%
260	18.210	18.155	18.234	VV	22049	962863	13.18%	0.547%
261	18.261	18.234	18.284	VV	20874	627701	8.59%	0.356%
262	18.290	18.284	18.321	VV	20381	426014	5.83%	0.242%
263	18.337	18.321	18.351	VV	18895	338335	4.63%	0.192%
264	18.393	18.351	18.441	VV	24583	1118798	15.31%	0.635%
265	18.477	18.441	18.499	VV	23110	691090	9.46%	0.392%
266	18.523	18.499	18.568	VV	22537	796373	10.90%	0.452%
267	18.578	18.568	18.623	VV	18651	589444	8.07%	0.335%
268	18.652	18.623	18.698	VV	18712	776485	10.63%	0.441%
269	18.748	18.698	18.770	VV	20935	793531	10.86%	0.450%
270	18.797	18.770	18.853	VV	23885	962790	13.17%	0.546%
271	18.875	18.853	18.894	VV	17892	408751	5.59%	0.232%
272	18.904	18.894	18.944	VV	15830	454444	6.22%	0.258%
273	18.985	18.944	19.054	VV	16789	1010354	13.83%	0.573%
274	19.061	19.054	19.078	VV	14360	200839	2.75%	0.114%
275	19.083	19.078	19.130	VV	14293	428396	5.86%	0.243%
276	19.181	19.130	19.251	VV	19260	1113248	15.23%	0.632%
277	19.285	19.251	19.324	VV	14810	602048	8.24%	0.342%
278	19.330	19.324	19.354	VV	13716	232699	3.18%	0.132%
279	19.369	19.354	19.396	VV	13224	315595	4.32%	0.179%
280	19.426	19.396	19.448	VV	13035	396083	5.42%	0.225%
281	19.459	19.448	19.490	VV	12655	308518	4.22%	0.175%
282	19.553	19.490	19.568	VV	15686	628140	8.60%	0.357%
283	19.582	19.568	19.633	VV	14714	508142	6.95%	0.288%
284	19.698	19.633	19.751	VV	12210	810644	11.09%	0.460%
285	19.788	19.751	19.858	VV	11924	724880	9.92%	0.411%
286	19.869	19.858	19.878	VV	11096	130714	1.79%	0.074%
287	19.915	19.878	19.946	VV	13149	471050	6.45%	0.267%
288	19.973	19.946	20.040	VV	11175	603920	8.26%	0.343%
289	20.063	20.040	20.091	VV	12197	337896	4.62%	0.192%
290	20.101	20.091	20.168	VV	11273	472482	6.47%	0.268%
291	20.180	20.168	20.228	VV	10646	360065	4.93%	0.204%
292	20.269	20.228	20.324	VV	11401	600408	8.22%	0.341%
293	20.368	20.324	20.438	VV	10129	654529	8.96%	0.372%
294	20.458	20.438	20.478	VV	9464	221719	3.03%	0.126%
295	20.493	20.478	20.538	VV	9354	327140	4.48%	0.186%
296	20.547	20.538	20.604	VV	8666	335625	4.59%	0.191%
297	20.627	20.604	20.814	VV	9249	978006	13.38%	0.555%
298	20.820	20.814	20.895	VV	7192	324788	4.44%	0.184%
299	20.907	20.895	20.952	VV	6673	218839	2.99%	0.124%

Instrument :

FID_C

ClientSampleId :

HL2PX6

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

300	20.962	20.952	20.970	VV	6191	66150	0.91%	0.038%
301	20.981	20.970	20.993	VV	6276	86133		
302	21.022	20.993	21.101	VV	6432	382587		
303	21.109	21.101	21.117	VV	5570	52735		
304	21.135	21.117	21.203	VV	5559	276839		
305	21.212	21.203	21.221	VV	5226	53536		
306	21.231	21.221	21.318	VV	5205	289928	3.97%	0.165%
307	21.330	21.318	21.344	VV	4682	72213	0.99%	0.041%
308	21.363	21.344	21.381	VV	4540	95897	1.31%	0.054%
309	21.403	21.381	21.451	VV	4586	185358	2.54%	0.105%
310	21.488	21.451	21.596	VV	4714	364206	4.98%	0.207%
311	21.616	21.596	21.651	VBA	4017	141940	1.94%	0.081%
Sum of corrected areas:					176176178			

Instrument :
FID_C
ClientSampleId :
HL2PX6

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Aliphatic EPH 012425.M Fri Jan 31 22:49:40 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC012425AL

AreaCount

Parameter Range	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.D	
Aliphatic C9-C12	39119921.000	19595370.000	8560674.000	4475977.000	2092923.000	
Aliphatic C12-C16	26002482.000	13035277.000	5712859.000	2968256.000	1369659.000	
Aliphatic C16-C21	37691789.000	18971800.000	8404107.000	4402241.000	2042530.000	
Aliphatic C21-C28	46742612.000	23877310.000	10488572.000	5543696.000	2601900.000	
Aliphatic C28-C40	54828663.000	28773658.000	12627086.000	6741853.000	3399332.000	
Aliphatic EPH	204385467.000	104253415.000	45793298.000	24132023.000	11506344.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	138488.1739998	5.827				
Aliphatic C12-C16	137713.071	5.793				
Aliphatic C16-C21	135019.2893328	6.678				
Aliphatic C21-C28	127207.526	7.047				
Aliphatic C28-C40	103638.8596662	9.431				
Aliphatic EPH	123700.6552216	7.023				

Concentration

Parameter Range	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.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	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.D	
Aliphatic C9-C12	130399.736666	130635.800000	142677.900000	149199.233333	139528.200000	
Aliphatic C12-C16	130012.410000	130352.770000	142821.475000	148412.800000	136965.900000	
Aliphatic C16-C21	125639.296666	126478.666666	140068.450000	146741.366666	136168.666666	

Initial Calibration Report for SequenceID : FC012425AL

Aliphatic C21-C28	116856.530000	119386.550000	131107.150000	138592.400000	130095.000000	
Aliphatic C28-C40	91381.105000	95912.193333	105225.716666	112364.216666	113311.066666	
Aliphatic EPH	113547.481666	115837.127777	127203.605555	134066.794444	127848.266666	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
 Data File : FC068103.D
 Signal(s) : FID1A.ch
 Acq On : 24 Jan 2025 08:47
 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: Jan 25 04:21:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:20:44 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)	11.437	14573832	90.197 ug/ml
Spiked Amount 50.000		Recovery =	180.39%
12) S 1-chlorooctadecane (S...	12.874	10772279	90.162 ug/ml
Spiked Amount 50.000		Recovery =	180.32%
Target Compounds			
1) T n-Nonane (C9)	3.236	12896666	91.779 ug/ml
2) T n-Decane (C10)	4.295	13082082	91.420 ug/ml
3) T A~Naphthalene (C11.7)	5.865	14453299	92.959 ug/ml
4) T n-Dodecane (C12)	6.306	13141173	90.994 ug/ml
5) T A~2-methylnaphthalene...	6.919	14003977	93.520 ug/ml
6) T n-Tetradecane (C14)	8.094	12889444	91.139 ug/ml
7) T n-Hexadecane (C16)	9.690	13113038	90.926 ug/ml
8) T n-Octadecane (C18)	11.130	13072737	89.981 ug/ml
10) T n-Eicosane (C20)	12.434	12431492	89.576 ug/ml
11) T n-Heneicosane (C21)	13.044	12187560	89.521 ug/ml
13) T n-Docosane (C22)	13.628	12054623	90.262 ug/ml
14) T n-Tetracosane (C24)	14.728	11873929	89.419 ug/ml
15) T n-Hexacosane (C26)	15.746	11563228	88.873 ug/ml
16) T n-Octacosane (C28)	16.694	11250832	87.913 ug/ml
17) T n-Tricontane (C30)	17.581	11253721	85.521 ug/ml
18) T n-Dotriacontane (C32)	18.410	10723134	84.881 ug/ml
19) T n-Tetratriacontane (C34)	19.191	9454823	86.012 ug/ml
20) T n-Hexatriacontane (C36)	19.928	8235414	87.729 ug/ml
21) T n-Octatriacontane (C38)	20.642	7745753	88.219 ug/ml
22) T n-Tetracontane (C40)	21.501	7415818	90.622 ug/ml

(f)=RT Delta > 1/2 Window

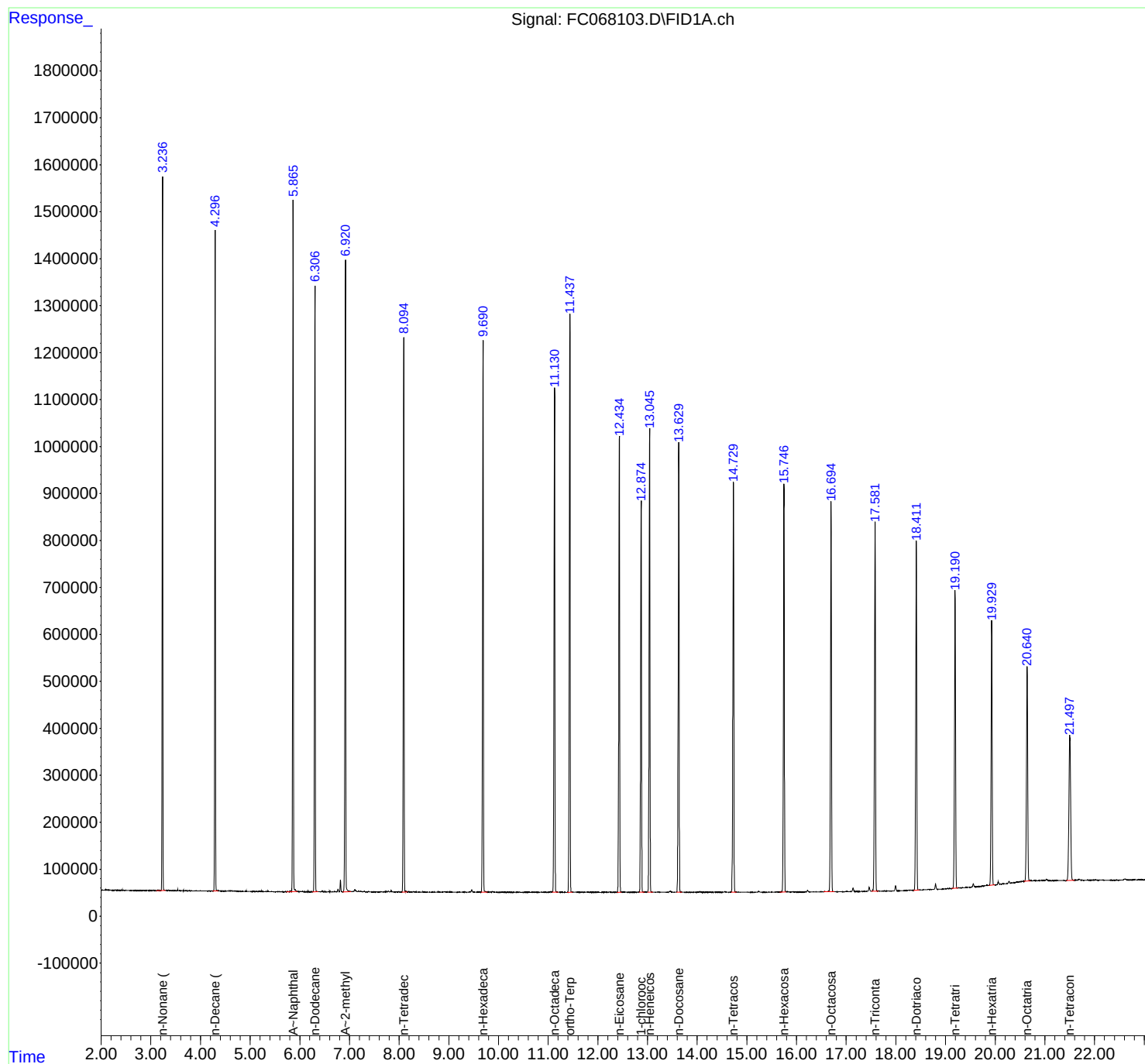
(m)=manual int.

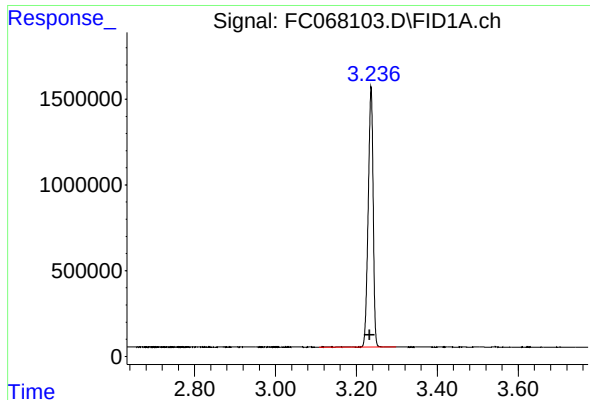
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068103.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 08:47
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 25 04:21:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

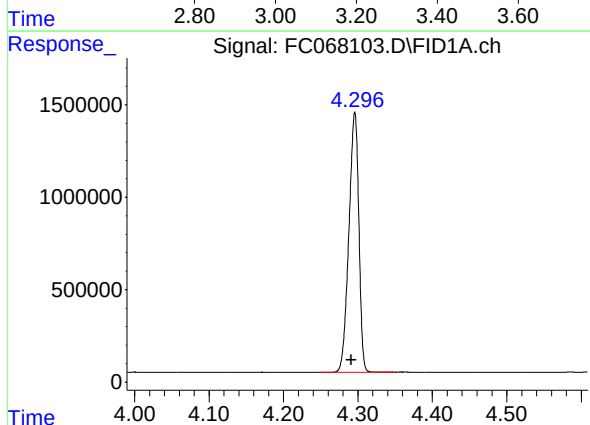




#1 n-Nonane (C9)

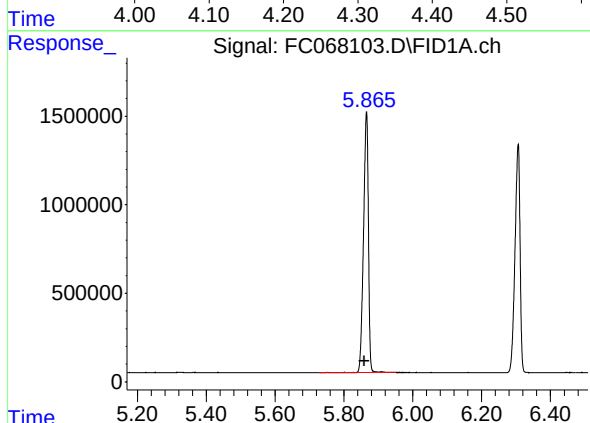
R.T.: 3.236 min
Delta R.T.: 0.003 min
Response: 12896666
Conc: 91.78 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



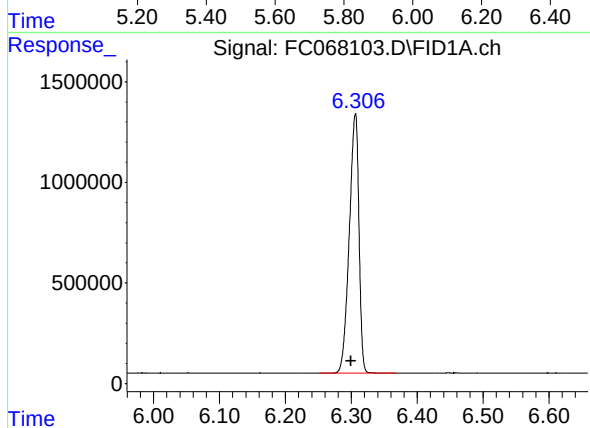
#2 n-Decane (C10)

R.T.: 4.295 min
Delta R.T.: 0.004 min
Response: 13082082
Conc: 91.42 ug/ml



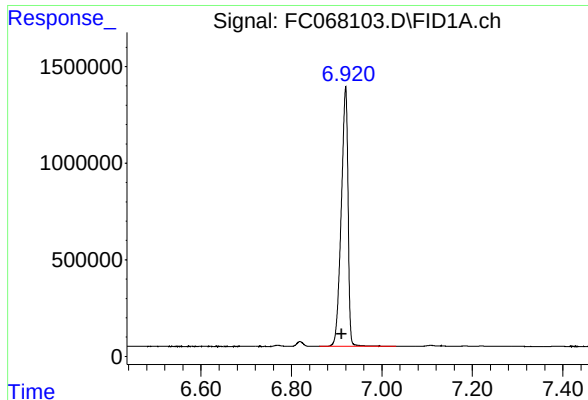
#3 A~Naphthalene (C11.7)

R.T.: 5.865 min
Delta R.T.: 0.006 min
Response: 14453299
Conc: 92.96 ug/ml



#4 n-Dodecane (C12)

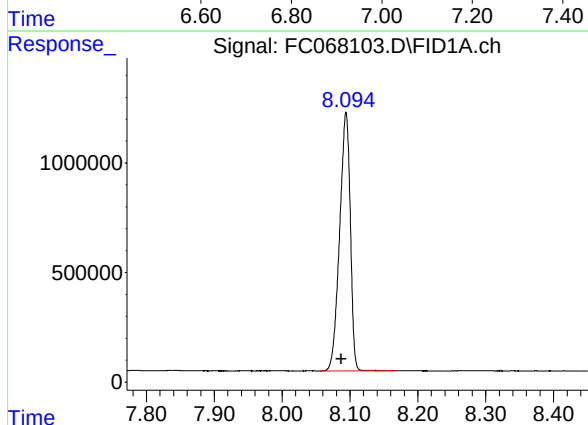
R.T.: 6.306 min
Delta R.T.: 0.006 min
Response: 13141173
Conc: 90.99 ug/ml



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

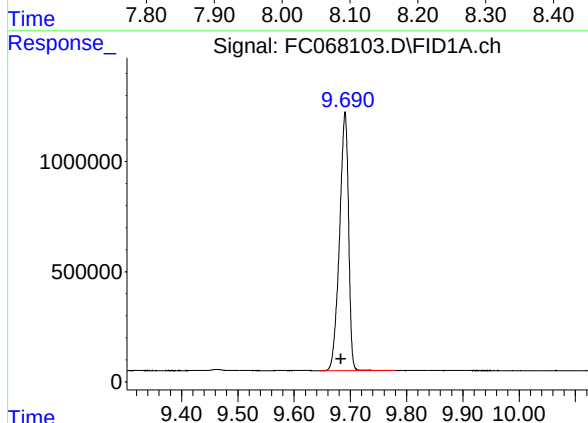
R.T.: 6.919 min
Delta R.T.: 0.008 min
Response: 14003977
Conc: 93.52 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



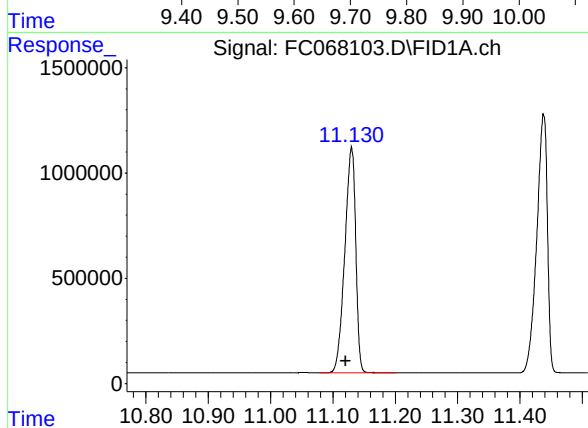
#6 n-Tetradecane (C14)

R.T.: 8.094 min
Delta R.T.: 0.007 min
Response: 12889444
Conc: 91.14 ug/ml



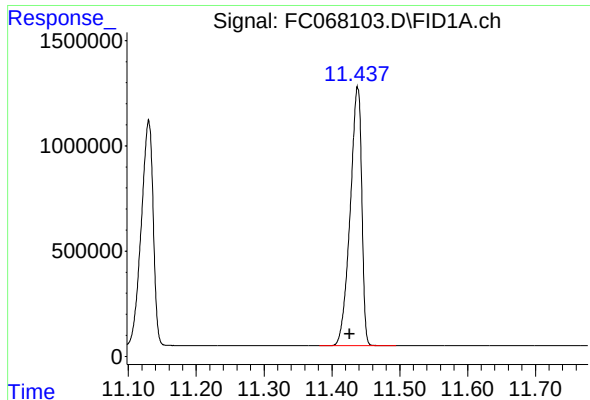
#7 n-Hexadecane (C16)

R.T.: 9.690 min
Delta R.T.: 0.007 min
Response: 13113038
Conc: 90.93 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.130 min
Delta R.T.: 0.009 min
Response: 13072737
Conc: 89.98 ug/ml



#9 ortho-Terphenyl (SURR)

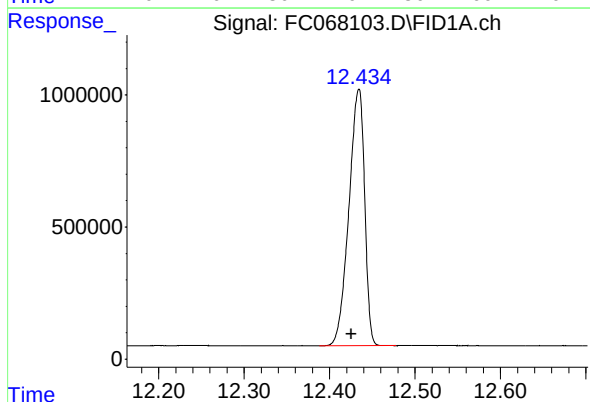
R.T.: 11.437 min
Delta R.T.: 0.011 min
Response: 14573832
Conc: 90.20 ug/ml

Instrument :

FID_C

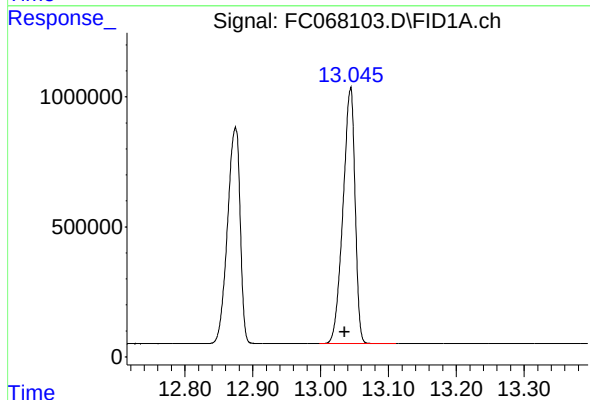
ClientSampleId :

100 PPM ALIPHATIC HC STD1



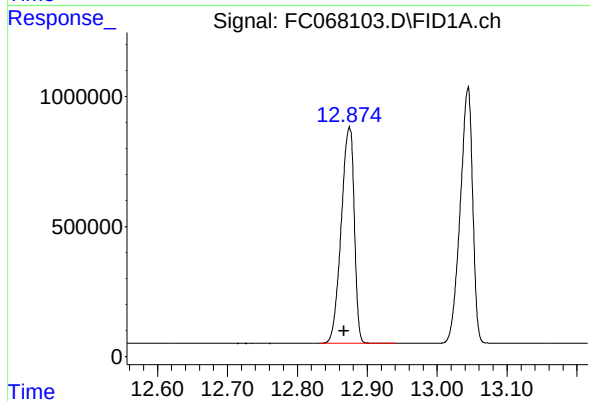
#10 n-Eicosane (C20)

R.T.: 12.434 min
Delta R.T.: 0.008 min
Response: 12431492
Conc: 89.58 ug/ml



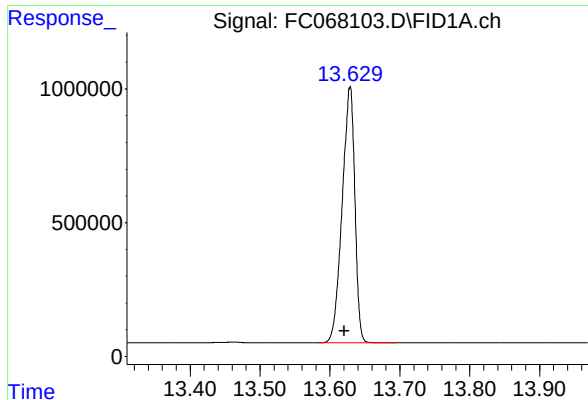
#11 n-Heneicosane (C21)

R.T.: 13.044 min
Delta R.T.: 0.008 min
Response: 12187560
Conc: 89.52 ug/ml



#12 1-chlorooctadecane (SURR)

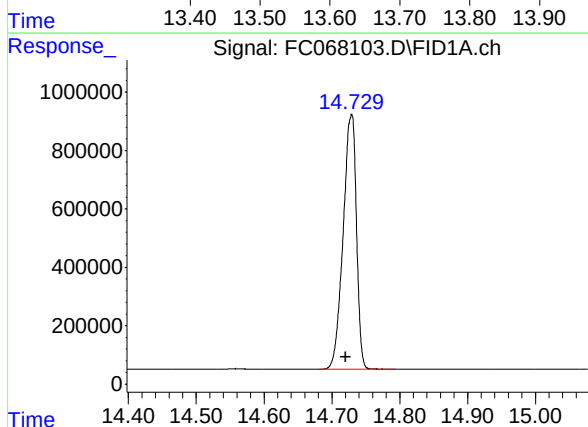
R.T.: 12.874 min
Delta R.T.: 0.007 min
Response: 10772279
Conc: 90.16 ug/ml



#13 n-Docosane (C22)

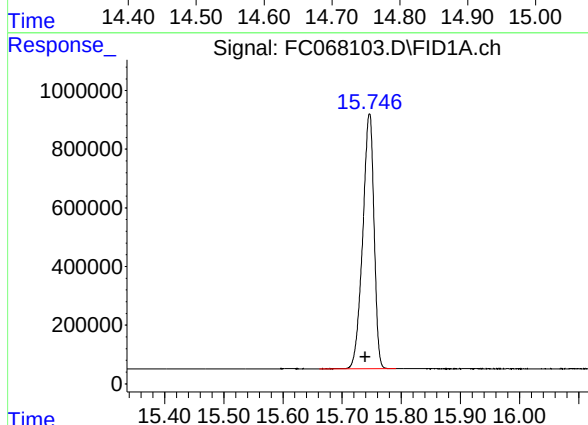
R.T.: 13.628 min
Delta R.T.: 0.008 min
Response: 12054623
Conc: 90.26 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



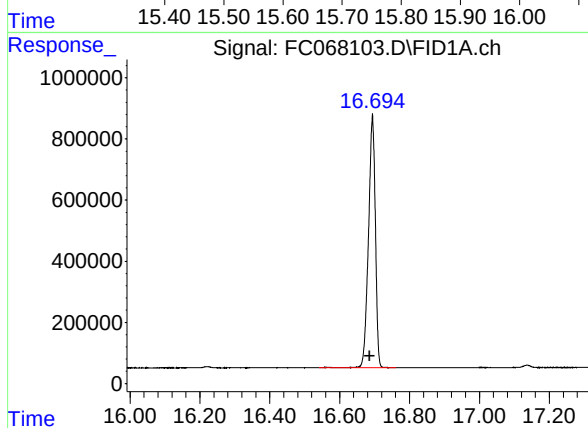
#14 n-Tetracosane (C24)

R.T.: 14.728 min
Delta R.T.: 0.008 min
Response: 11873929
Conc: 89.42 ug/ml



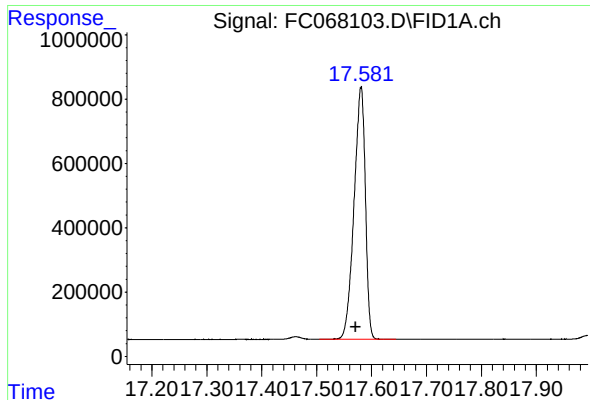
#15 n-Hexacosane (C26)

R.T.: 15.746 min
Delta R.T.: 0.007 min
Response: 11563228
Conc: 88.87 ug/ml



#16 n-Octacosane (C28)

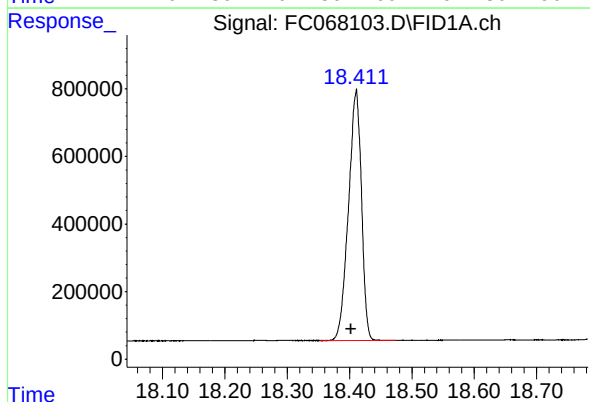
R.T.: 16.694 min
Delta R.T.: 0.008 min
Response: 11250832
Conc: 87.91 ug/ml



#17 n-Tricontane (C30)

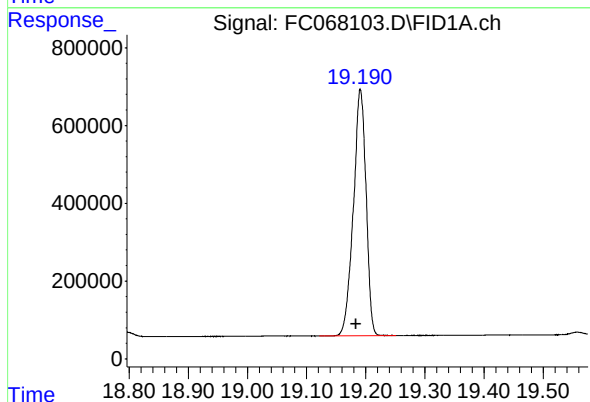
R.T.: 17.581 min
Delta R.T.: 0.009 min
Response: 11253721
Conc: 85.52 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



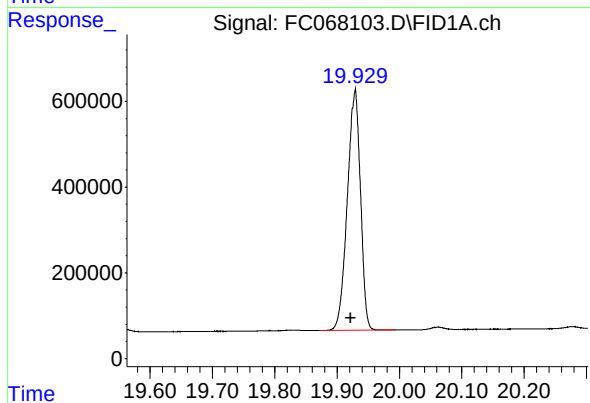
#18 n-Dotriacontane (C32)

R.T.: 18.410 min
Delta R.T.: 0.008 min
Response: 10723134
Conc: 84.88 ug/ml



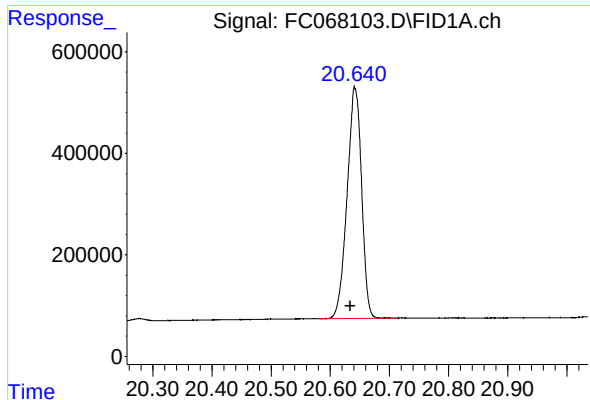
#19 n-Tetratriacontane (C34)

R.T.: 19.191 min
Delta R.T.: 0.008 min
Response: 9454823
Conc: 86.01 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.928 min
Delta R.T.: 0.006 min
Response: 8235414
Conc: 87.73 ug/ml



#21 n-Octatriacontane (C38)

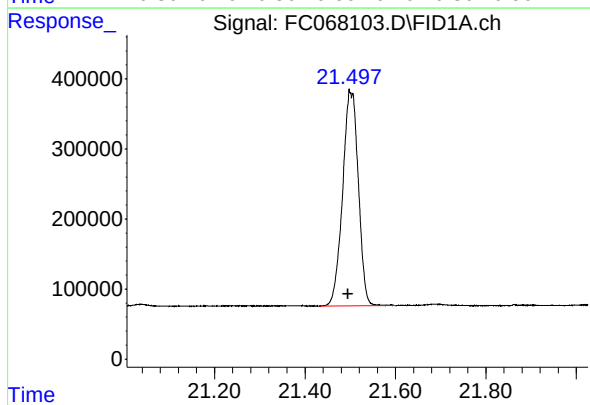
R.T.: 20.642 min
Delta R.T.: 0.008 min
Response: 7745753
Conc: 88.22 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.501 min
Delta R.T.: 0.006 min
Response: 7415818
Conc: 90.62 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068103.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 08:47
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 012425.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	3.236	3.108	3.298	BB	1476777	12896666	88.49%	4.995%
2	4.295	4.248	4.351	BB	1389988	13082082	89.76%	5.067%
3	5.865	5.728	5.951	BB	1463650	14453299	99.17%	5.598%
4	6.306	6.251	6.368	BB	1273767	13141173	90.17%	5.090%
5	6.919	6.861	7.031	BB	1308343	14003977	96.09%	5.424%
6	8.094	8.054	8.168	BB	1186157	12889444	88.44%	4.992%
7	9.690	9.644	9.781	BB	1180215	13113038	89.98%	5.079%
8	11.130	11.078	11.201	BB	1079467	13072737	89.70%	5.063%
9	11.437	11.381	11.494	BB	1234445	14573832	100.00%	5.645%
10	12.434	12.388	12.478	BB	978654	12431492	85.30%	4.815%
11	12.874	12.831	12.941	BB	832699	10772279	73.92%	4.172%
12	13.044	12.998	13.111	BB	991571	12187560	83.63%	4.720%
13	13.628	13.584	13.694	BB	957218	12054623	82.71%	4.669%
14	14.728	14.681	14.794	BB	869860	11873929	81.47%	4.599%
15	15.746	15.661	15.791	BB	868521	11563228	79.34%	4.479%
16	16.694	16.541	16.761	BB	818402	11250832	77.20%	4.358%
17	17.581	17.504	17.644	BB	789424	11253721	77.22%	4.359%
18	18.410	18.351	18.474	BB	740134	10723134	73.58%	4.153%
19	19.191	19.121	19.251	BB	633829	9454823	64.88%	3.662%
20	19.928	19.871	19.994	BB	551088	8235414	56.51%	3.190%
21	20.642	20.581	20.711	BB	456102	7745753	53.15%	3.000%
22	21.501	21.431	21.601	BB	302473	7415818	50.88%	2.872%
Sum of corrected areas:						258188854		

Aliphatic EPH 012425.M Sat Jan 25 04:55:10 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
 Data File : FC068104.D
 Signal(s) : FID1A.ch
 Acq On : 24 Jan 2025 09:23
 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: Jan 25 04:21:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:20:44 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)	11.431	7322791	45.321 ug/ml
Spiked Amount 50.000		Recovery =	90.64%
12) S 1-chlorooctadecane (S...	12.869	5415134	45.324 ug/ml
Spiked Amount 50.000		Recovery =	90.65%
Target Compounds			
1) T n-Nonane (C9)	3.234	6442775	45.850 ug/ml
2) T n-Decane (C10)	4.293	6559814	45.841 ug/ml
3) T A~Naphthalene (C11.7)	5.861	7202894	46.327 ug/ml
4) T n-Dodecane (C12)	6.301	6592781	45.651 ug/ml
5) T A~2-methylnaphthalene...	6.914	6965539	46.516 ug/ml
6) T n-Tetradecane (C14)	8.090	6460619	45.682 ug/ml
7) T n-Hexadecane (C16)	9.686	6574658	45.589 ug/ml
8) T n-Octadecane (C18)	11.124	6583402	45.314 ug/ml
10) T n-Eicosane (C20)	12.428	6256943	45.085 ug/ml
11) T n-Heneicosane (C21)	13.039	6131455	45.037 ug/ml
13) T n-Docosane (C22)	13.623	6085749	45.568 ug/ml
14) T n-Tetracosane (C24)	14.724	6046058	45.531 ug/ml
15) T n-Hexacosane (C26)	15.743	5918808	45.491 ug/ml
16) T n-Octacosane (C28)	16.690	5826695	45.529 ug/ml
17) T n-Tricontane (C30)	17.575	5915990	44.958 ug/ml
18) T n-Dotriacontane (C32)	18.406	5678551	44.949 ug/ml
19) T n-Tetratriacontane (C34)	19.187	4970299	45.215 ug/ml
20) T n-Hexatriacontane (C36)	19.924	4283541	45.631 ug/ml
21) T n-Octatriacontane (C38)	20.638	4034854	45.955 ug/ml
22) T n-Tetracontane (C40)	21.498	3890423	47.541 ug/ml

(f)=RT Delta > 1/2 Window

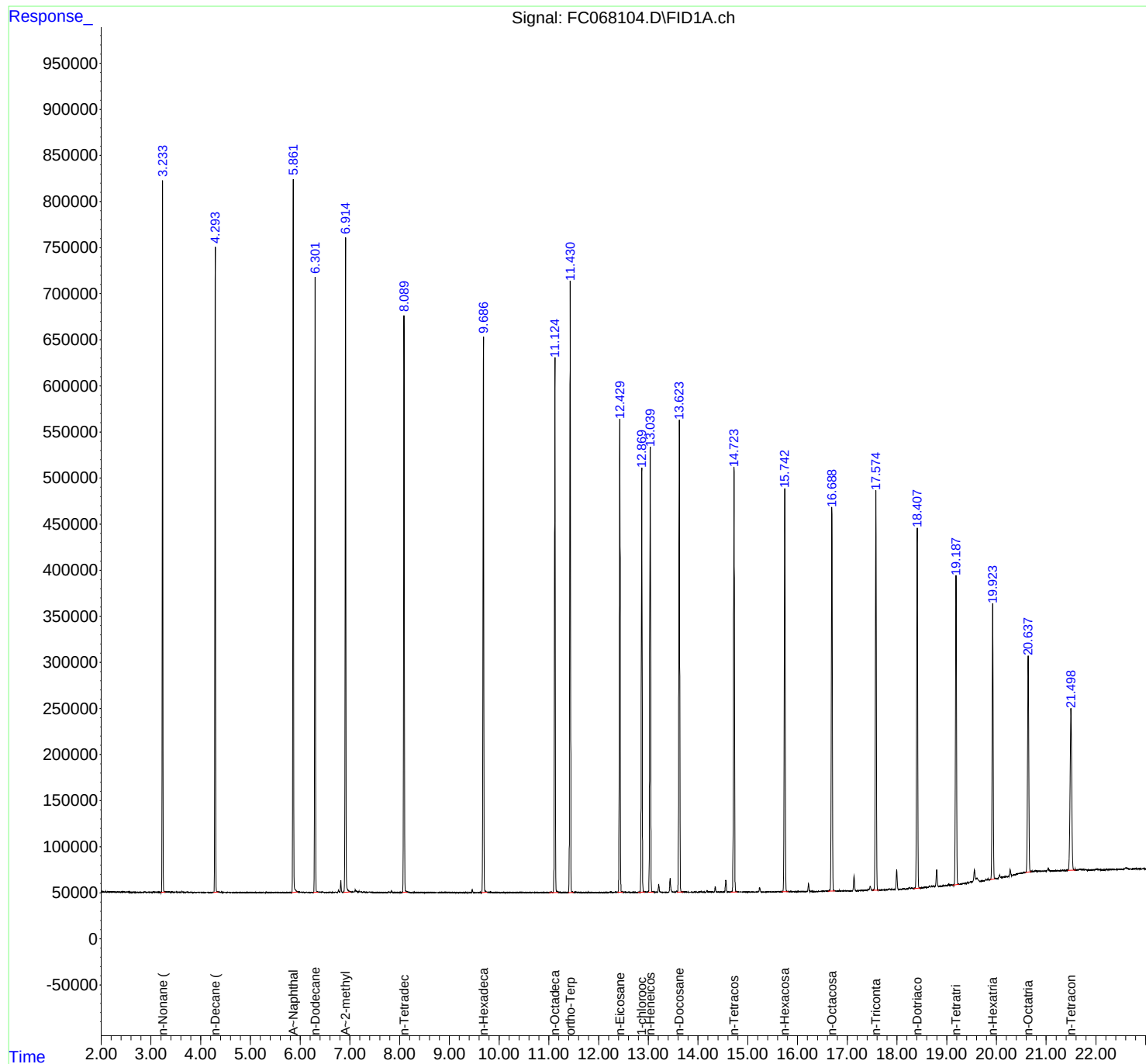
(m)=manual int.

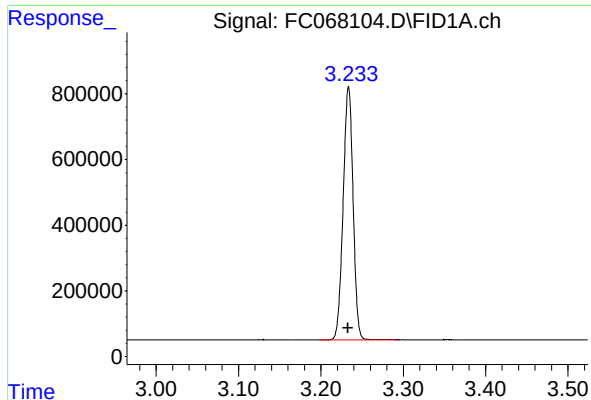
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068104.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:23
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 25 04:21:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

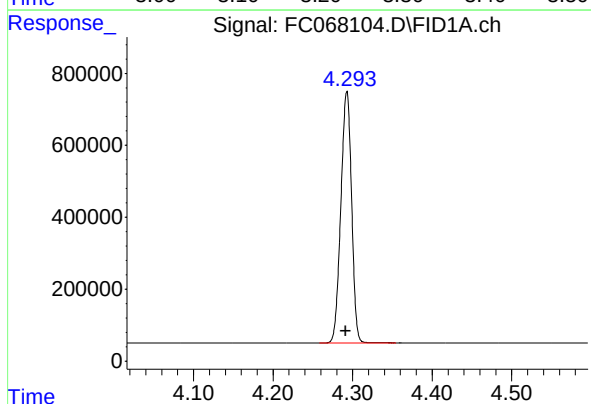




#1 n-Nonane (C9)

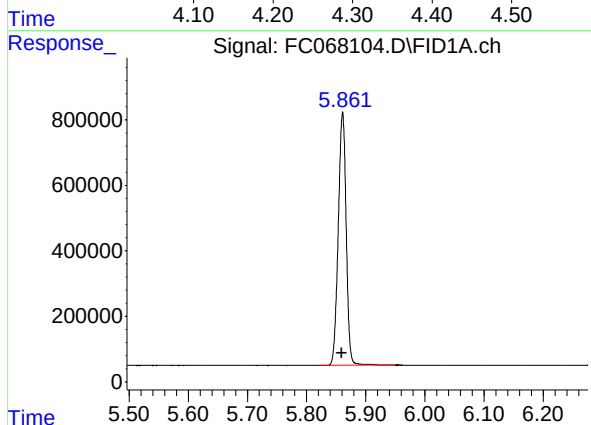
R.T.: 3.234 min
Delta R.T.: 0.000 min
Response: 6442775
Conc: 45.85 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



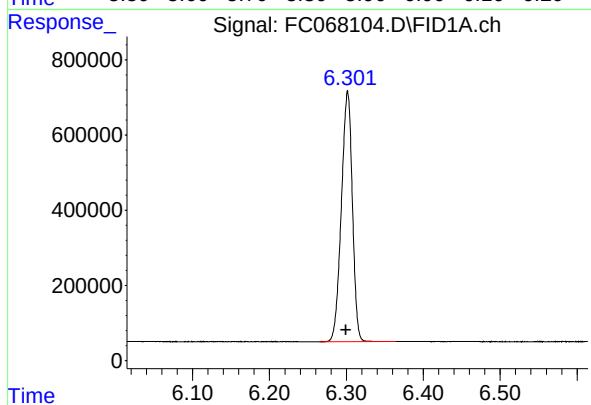
#2 n-Decane (C10)

R.T.: 4.293 min
Delta R.T.: 0.001 min
Response: 6559814
Conc: 45.84 ug/ml



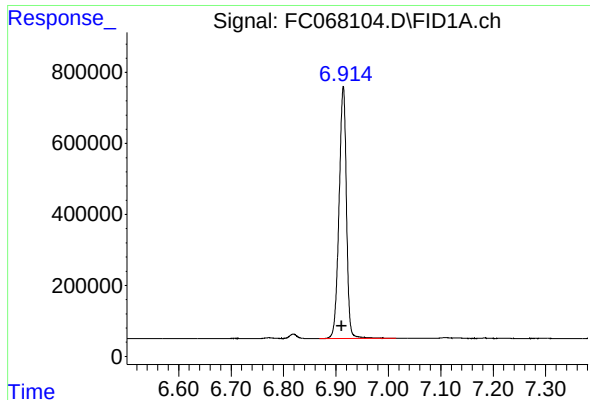
#3 A~Naphthalene (C11.7)

R.T.: 5.861 min
Delta R.T.: 0.002 min
Response: 7202894
Conc: 46.33 ug/ml



#4 n-Dodecane (C12)

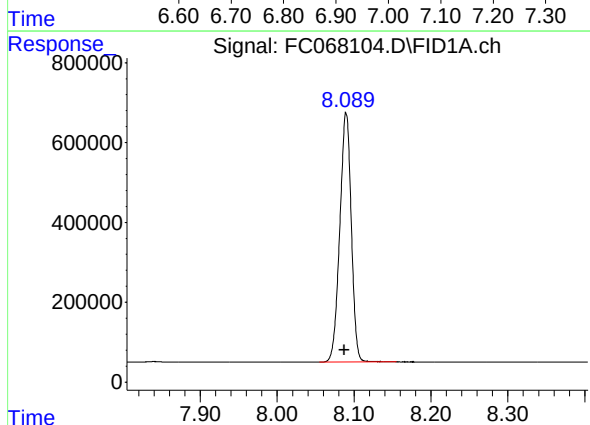
R.T.: 6.301 min
Delta R.T.: 0.002 min
Response: 6592781
Conc: 45.65 ug/ml



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

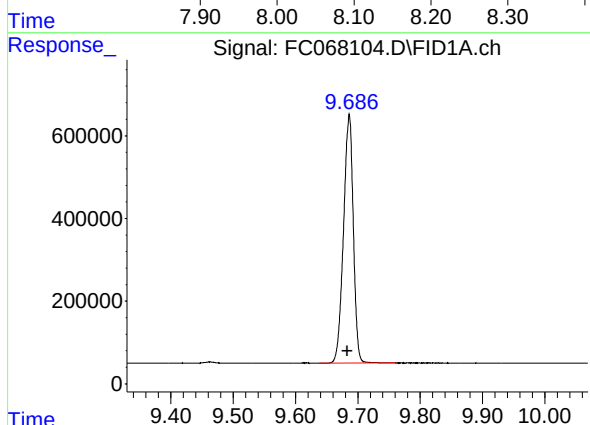
R.T.: 6.914 min
Delta R.T.: 0.003 min
Response: 6965539
Conc: 46.52 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



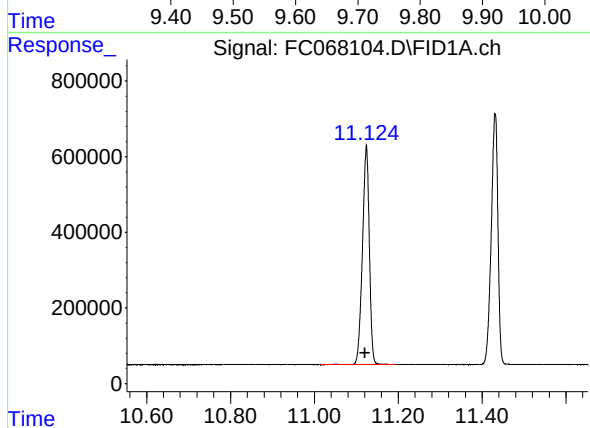
#6 n-Tetradecane (C14)

R.T.: 8.090 min
Delta R.T.: 0.002 min
Response: 6460619
Conc: 45.68 ug/ml



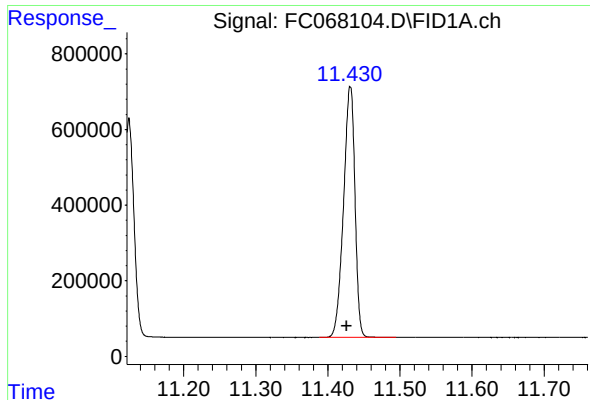
#7 n-Hexadecane (C16)

R.T.: 9.686 min
Delta R.T.: 0.003 min
Response: 6574658
Conc: 45.59 ug/ml



#8 n-Octadecane (C18)

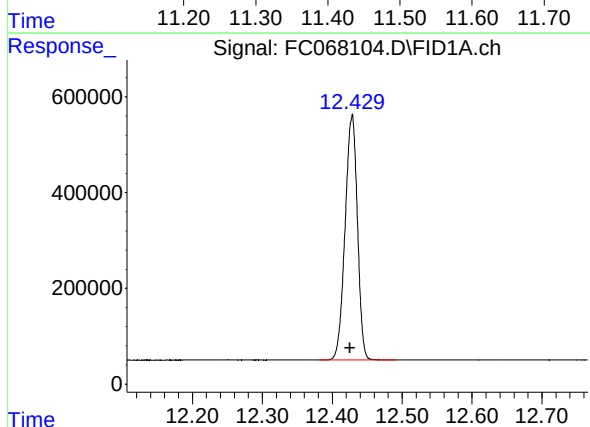
R.T.: 11.124 min
Delta R.T.: 0.003 min
Response: 6583402
Conc: 45.31 ug/ml



#9 ortho-Terphenyl (SURR)

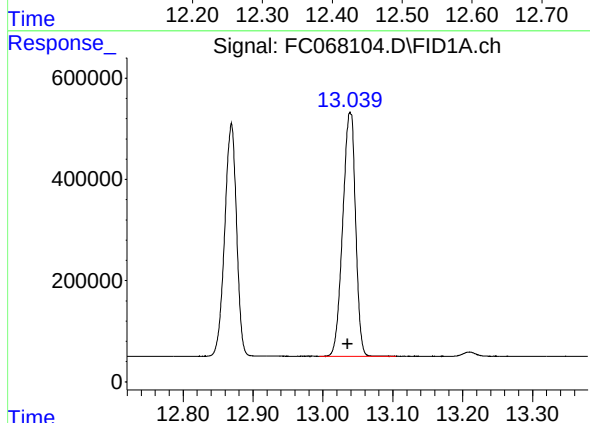
R.T.: 11.431 min
Delta R.T.: 0.005 min
Response: 7322791
Conc: 45.32 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



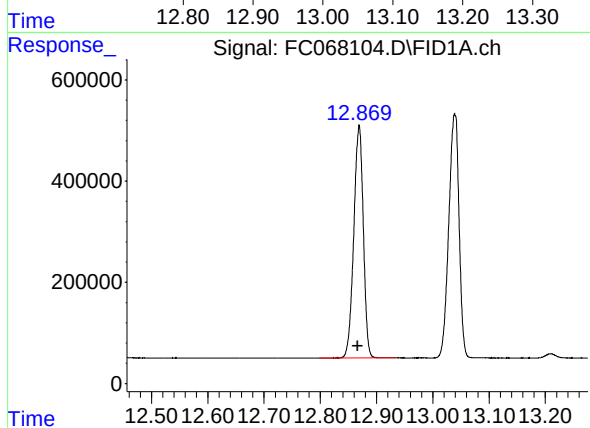
#10 n-Eicosane (C20)

R.T.: 12.428 min
Delta R.T.: 0.003 min
Response: 6256943
Conc: 45.08 ug/ml



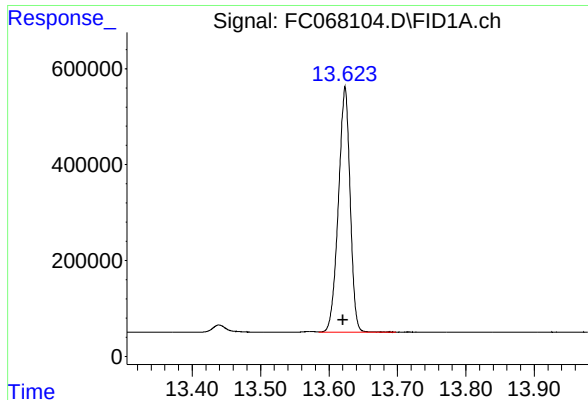
#11 n-Heneicosane (C21)

R.T.: 13.039 min
Delta R.T.: 0.003 min
Response: 6131455
Conc: 45.04 ug/ml



#12 1-chlorooctadecane (SURR)

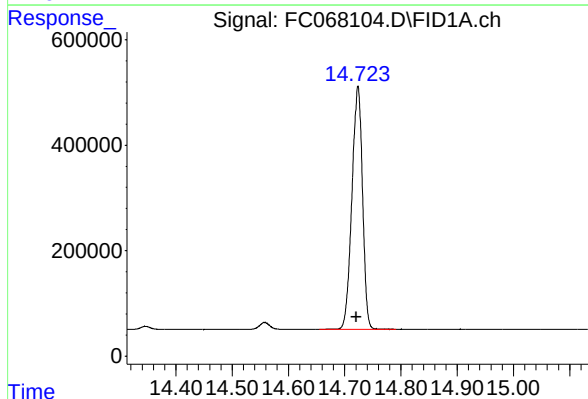
R.T.: 12.869 min
Delta R.T.: 0.002 min
Response: 5415134
Conc: 45.32 ug/ml



#13 n-Docosane (C22)

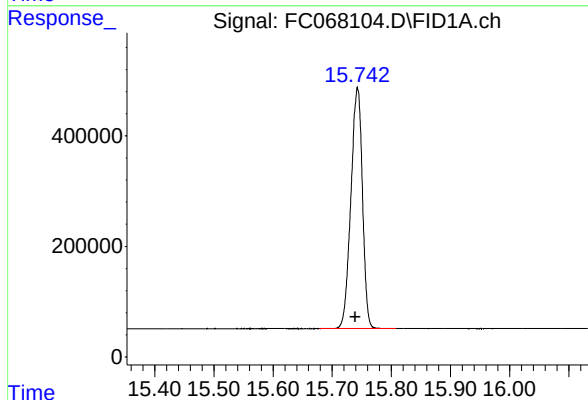
R.T.: 13.623 min
Delta R.T.: 0.003 min
Response: 6085749
Conc: 45.57 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



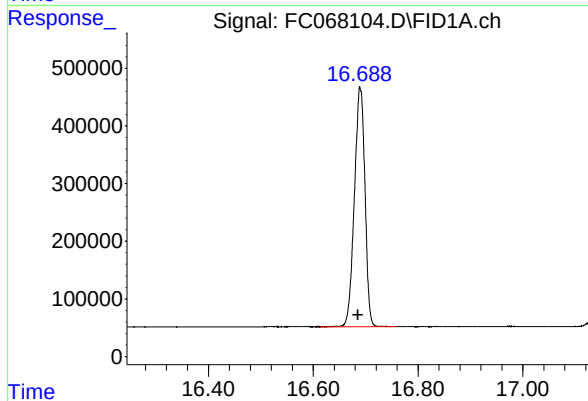
#14 n-Tetracosane (C24)

R.T.: 14.724 min
Delta R.T.: 0.003 min
Response: 6046058
Conc: 45.53 ug/ml



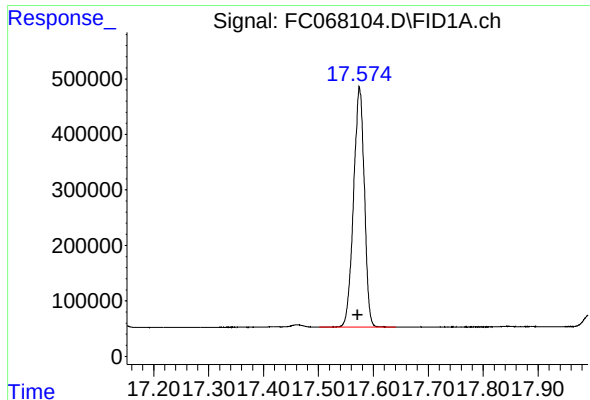
#15 n-Hexacosane (C26)

R.T.: 15.743 min
Delta R.T.: 0.003 min
Response: 5918808
Conc: 45.49 ug/ml



#16 n-Octacosane (C28)

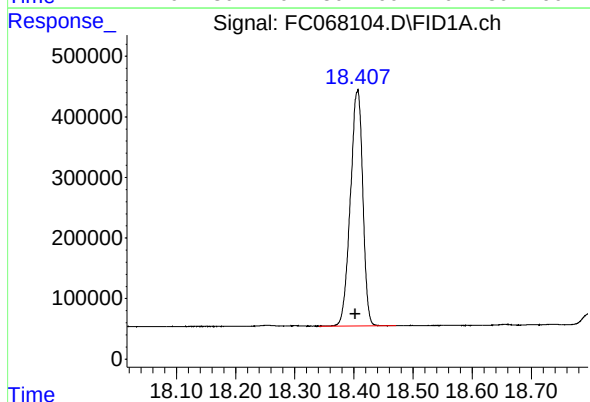
R.T.: 16.690 min
Delta R.T.: 0.004 min
Response: 5826695
Conc: 45.53 ug/ml



#17 n-Tricontane (C30)

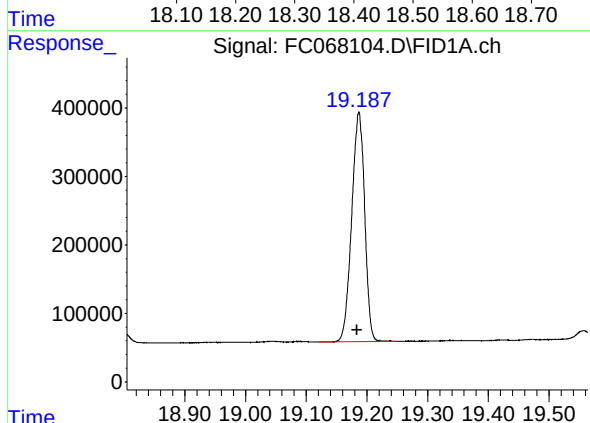
R.T.: 17.575 min
Delta R.T.: 0.004 min
Response: 5915990
Conc: 44.96 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



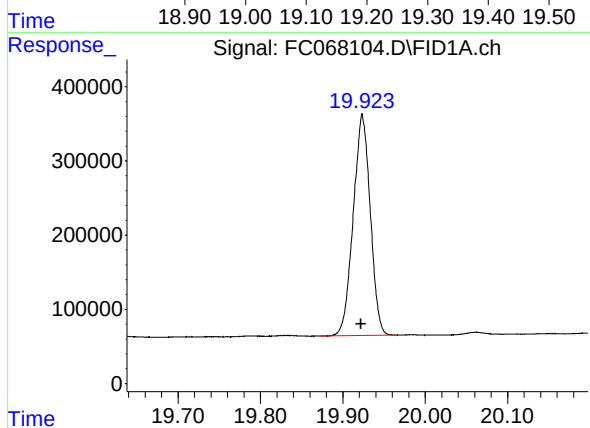
#18 n-Dotriacontane (C32)

R.T.: 18.406 min
Delta R.T.: 0.004 min
Response: 5678551
Conc: 44.95 ug/ml



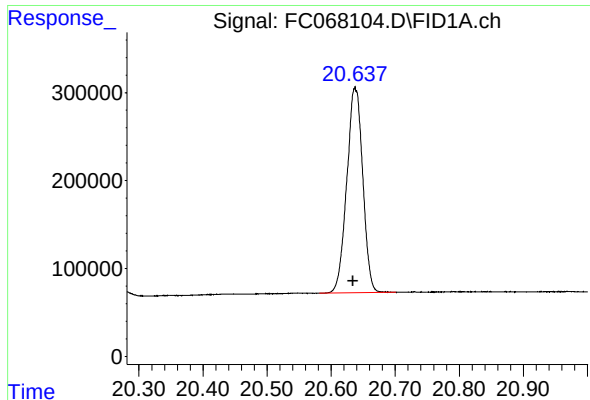
#19 n-Tetratriacontane (C34)

R.T.: 19.187 min
Delta R.T.: 0.003 min
Response: 4970299
Conc: 45.22 ug/ml



#20 n-Hexatriacontane (C36)

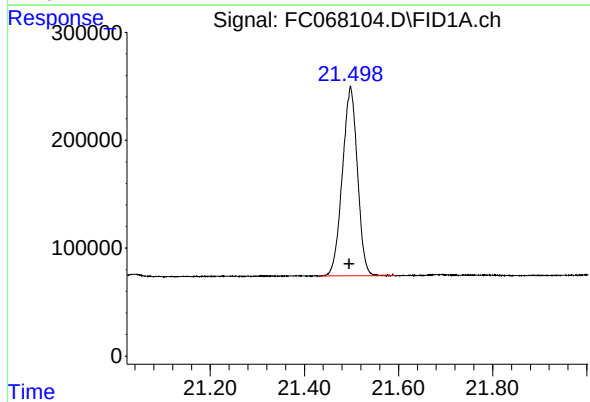
R.T.: 19.924 min
Delta R.T.: 0.002 min
Response: 4283541
Conc: 45.63 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.638 min
Delta R.T.: 0.003 min
Response: 4034854
Conc: 45.95 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.498 min
Delta R.T.: 0.003 min
Response: 3890423
Conc: 47.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068104.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:23
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 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.234	3.198	3.291	BB	774278	6442775	87.98%	4.912%
2	4.293	4.258	4.355	BB	693906	6559814	89.58%	5.001%
3	5.861	5.821	5.951	BB	772740	7202894	98.36%	5.492%
4	6.301	6.265	6.365	BB	662417	6592781	90.03%	5.027%
5	6.914	6.868	7.015	BB	713919	6965539	95.12%	5.311%
6	8.090	8.055	8.155	BB	627229	6460619	88.23%	4.926%
7	9.686	9.638	9.761	BB	591032	6574658	89.78%	5.013%
8	11.124	11.011	11.195	BB	577849	6583402	89.90%	5.019%
9	11.431	11.388	11.495	BB	668563	7322791	100.00%	5.583%
10	12.428	12.381	12.491	BB	508780	6256943	85.44%	4.770%
11	12.869	12.798	12.935	BB	454323	5415134	73.95%	4.129%
12	13.039	12.995	13.105	BB	483558	6131455	83.73%	4.675%
13	13.623	13.585	13.698	VB	513190	6085749	83.11%	4.640%
14	14.724	14.655	14.791	BB	462982	6046058	82.56%	4.610%
15	15.743	15.678	15.808	BB	432175	5918808	80.83%	4.513%
16	16.690	16.611	16.758	BB	414810	5826695	79.57%	4.442%
17	17.575	17.501	17.641	BB	432146	5915990	80.79%	4.511%
18	18.406	18.341	18.471	BB	388200	5678551	77.55%	4.329%
19	19.187	19.121	19.248	BB	335389	4970299	67.87%	3.789%
20	19.924	19.871	19.965	BB	294922	4283541	58.50%	3.266%
21	20.638	20.581	20.701	BB	232299	4034854	55.10%	3.076%
22	21.498	21.431	21.595	BB	175086	3890423	53.13%	2.966%
Sum of corrected areas:						131159772		

Aliphatic EPH 012425.M Sat Jan 25 04:55:33 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
 Data File : FC068105.D
 Signal(s) : FID1A.ch
 Acq On : 24 Jan 2025 09:58
 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: Jan 25 04:21:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:20:44 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)	11.426	3231539	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	12.867	2389546	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.233	2810367	20.000 ug/ml
2) T n-Decane (C10)	4.291	2861961	20.000 ug/ml
3) T A~Naphthalene (C11.7)	5.859	3109613	20.000 ug/ml
4) T n-Dodecane (C12)	6.300	2888346	20.000 ug/ml
5) T A~2-methylnaphthalene...	6.911	2994869	20.000 ug/ml
6) T n-Tetradecane (C14)	8.087	2828524	20.000 ug/ml
7) T n-Hexadecane (C16)	9.683	2884335	20.000 ug/ml
8) T n-Octadecane (C18)	11.120	2905661	20.000 ug/ml
10) T n-Eicosane (C20)	12.426	2775623	20.000 ug/ml
11) T n-Heneicosane (C21)	13.035	2722823	20.000 ug/ml
13) T n-Docosane (C22)	13.620	2671035	20.000 ug/ml
14) T n-Tetracosane (C24)	14.720	2655805	20.000 ug/ml
15) T n-Hexacosane (C26)	15.739	2602198	20.000 ug/ml
16) T n-Octacosane (C28)	16.686	2559534	20.000 ug/ml
17) T n-Tricontane (C30)	17.571	2631800	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.402	2526641	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.183	2198499	20.000 ug/ml
20) T n-Hexatriacontane (C36)	19.922	1877473	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.634	1756021	20.000 ug/ml
22) T n-Tetracontane (C40)	21.495	1636652	20.000 ug/ml

(f)=RT Delta > 1/2 Window

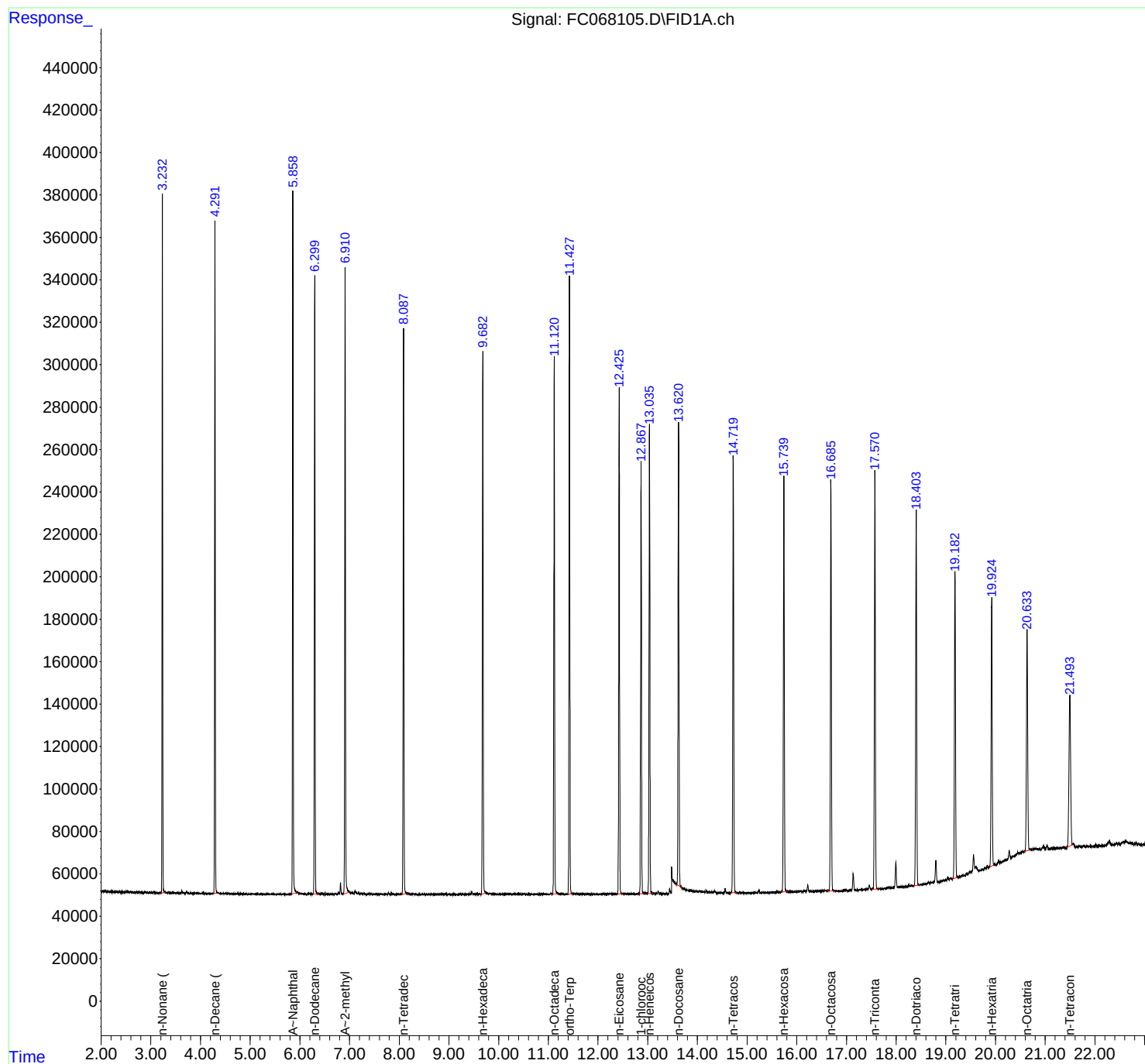
(m)=manual int.

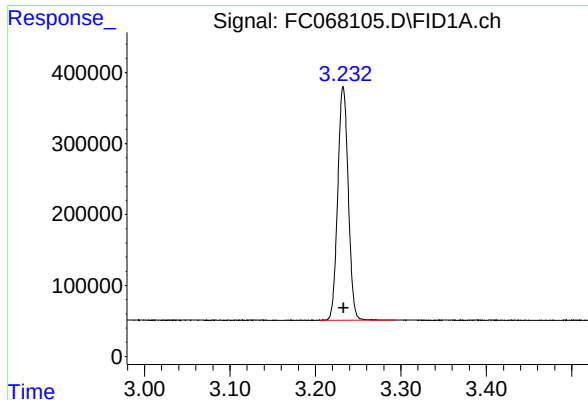
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068105.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:58
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 25 04:21:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

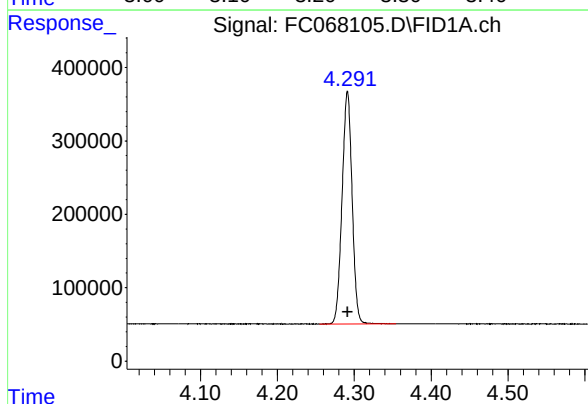




#1 n-Nonane (C9)

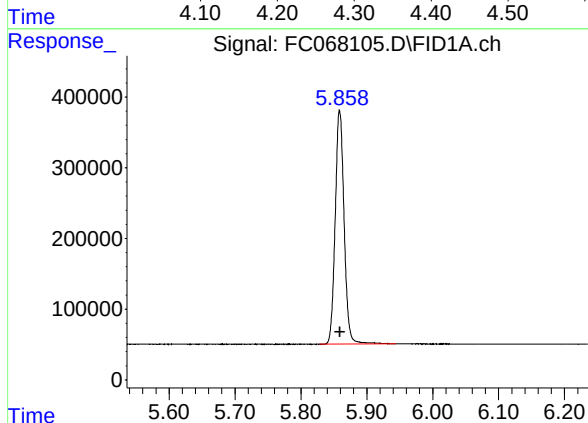
R.T.: 3.233 min
Delta R.T.: 0.000 min
Response: 2810367
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



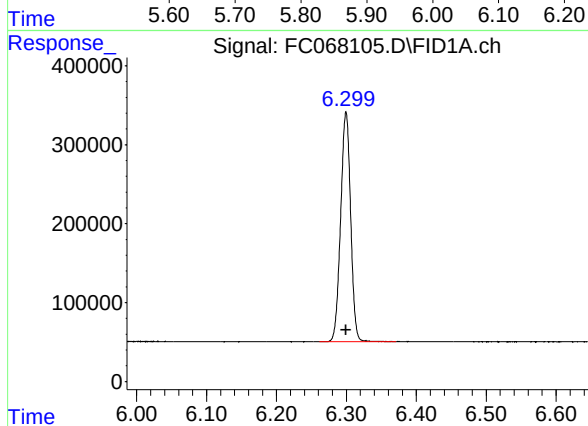
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: 0.000 min
Response: 2861961
Conc: 20.00 ug/ml



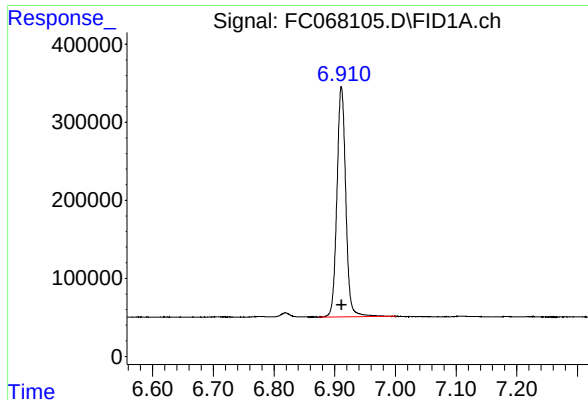
#3 A~Naphthalene (C11.7)

R.T.: 5.859 min
Delta R.T.: 0.000 min
Response: 3109613
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

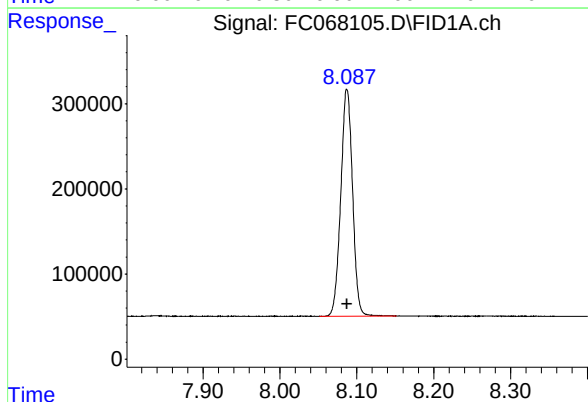
R.T.: 6.300 min
Delta R.T.: 0.000 min
Response: 2888346
Conc: 20.00 ug/ml



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

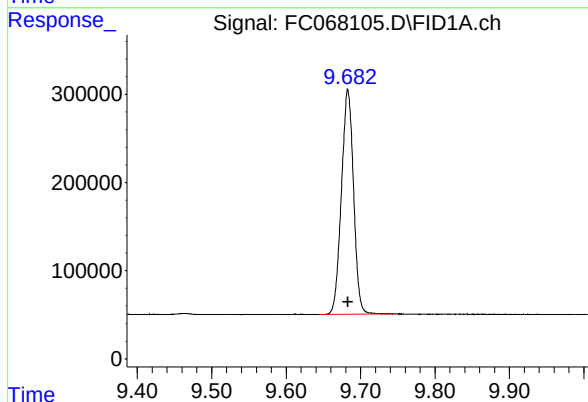
R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 2994869
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



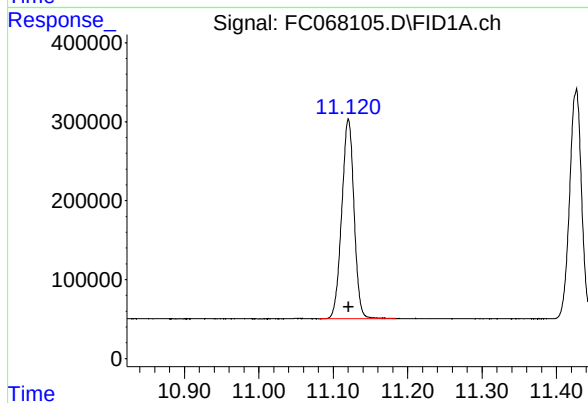
#6 n-Tetradecane (C14)

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 2828524
Conc: 20.00 ug/ml



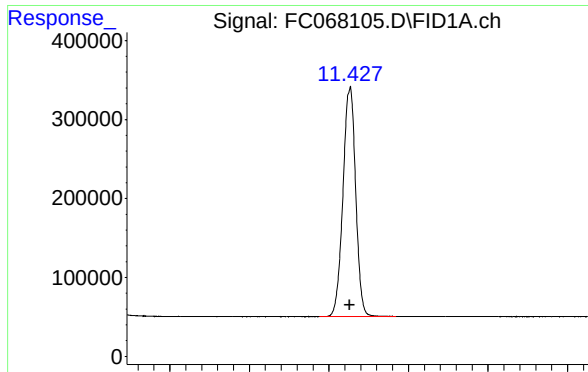
#7 n-Hexadecane (C16)

R.T.: 9.683 min
Delta R.T.: 0.000 min
Response: 2884335
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

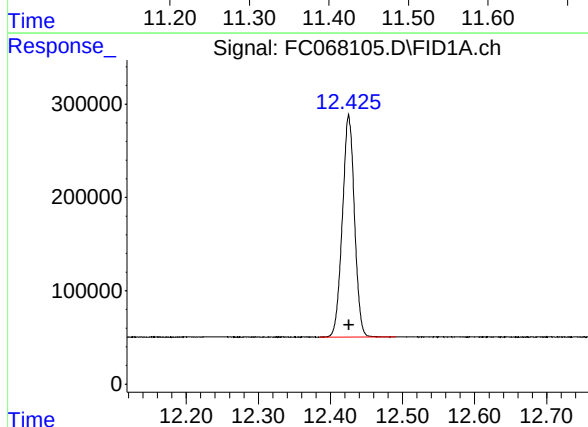
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 2905661
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

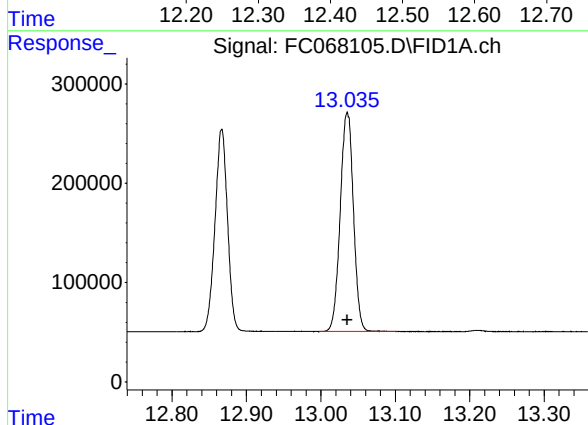
R.T.: 11.426 min
Delta R.T.: 0.000 min
Response: 3231539
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



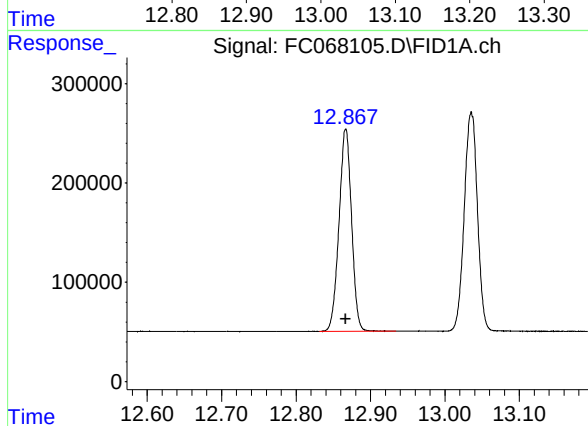
#10 n-Eicosane (C20)

R.T.: 12.426 min
Delta R.T.: 0.000 min
Response: 2775623
Conc: 20.00 ug/ml



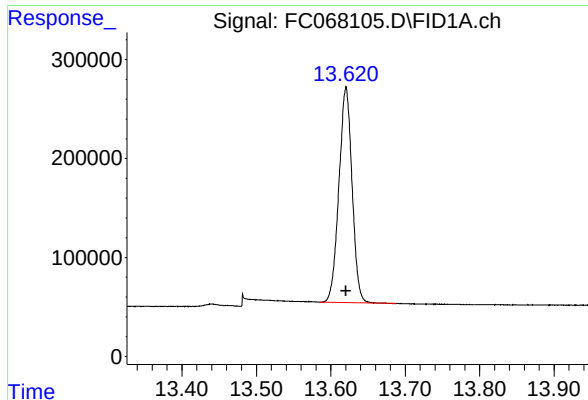
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 2722823
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

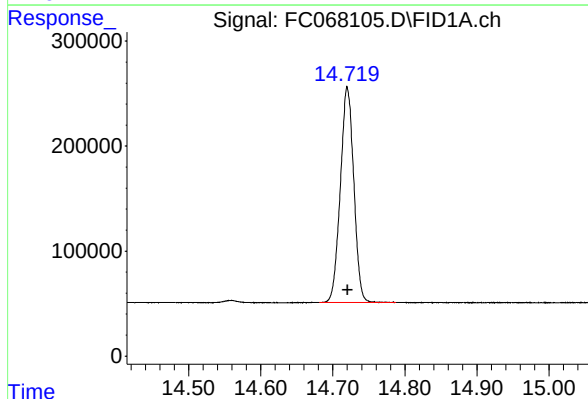
R.T.: 12.867 min
Delta R.T.: 0.000 min
Response: 2389546
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

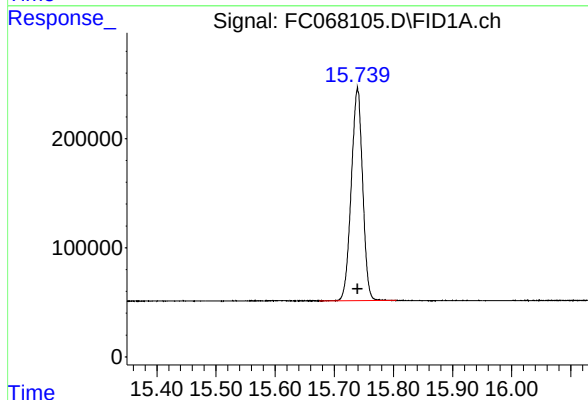
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 2671035
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



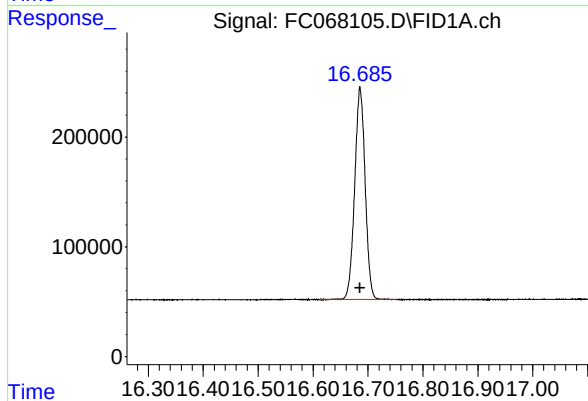
#14 n-Tetracosane (C24)

R.T.: 14.720 min
Delta R.T.: 0.000 min
Response: 2655805
Conc: 20.00 ug/ml



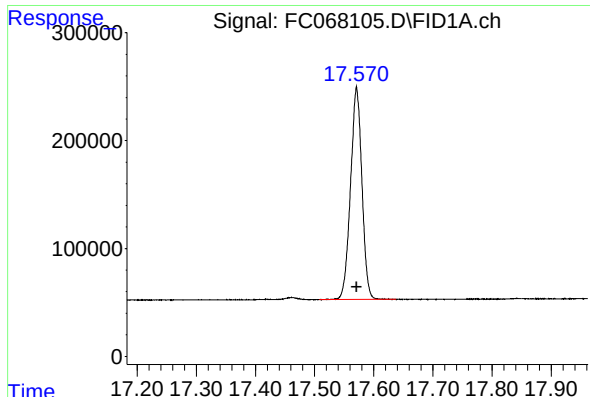
#15 n-Hexacosane (C26)

R.T.: 15.739 min
Delta R.T.: 0.000 min
Response: 2602198
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

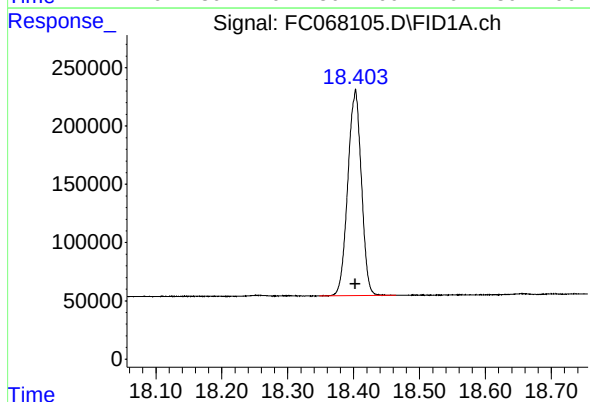
R.T.: 16.686 min
Delta R.T.: 0.000 min
Response: 2559534
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

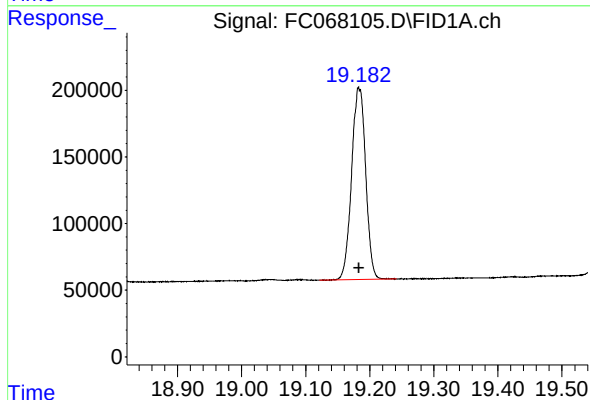
R.T.: 17.571 min
Delta R.T.: 0.000 min
Response: 2631800
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



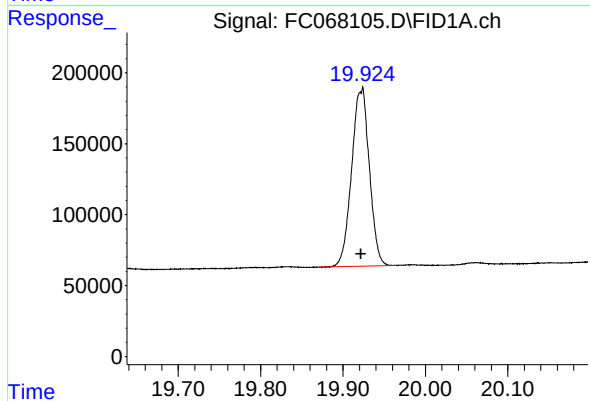
#18 n-Dotriacontane (C32)

R.T.: 18.402 min
Delta R.T.: 0.000 min
Response: 2526641
Conc: 20.00 ug/ml



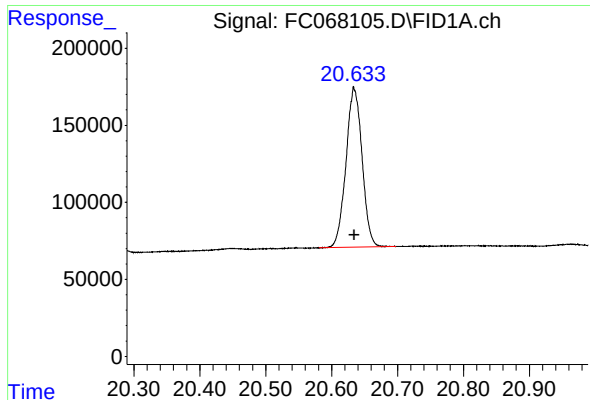
#19 n-Tetratriacontane (C34)

R.T.: 19.183 min
Delta R.T.: 0.000 min
Response: 2198499
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

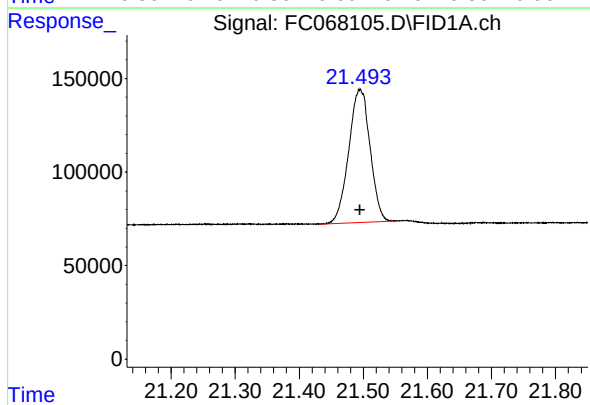
R.T.: 19.922 min
Delta R.T.: 0.000 min
Response: 1877473
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.634 min
Delta R.T.: 0.000 min
Response: 1756021
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.495 min
Delta R.T.: 0.000 min
Response: 1636652
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068105.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:58
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 012425.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	3.294	BB	327194	2810367	86.97%	4.886%
2	4.291	4.254	4.354	BB	316289	2861961	88.56%	4.976%
3	5.859	5.828	5.944	BB	331378	3109613	96.23%	5.406%
4	6.300	6.261	6.371	BB	291129	2888346	89.38%	5.022%
5	6.911	6.874	7.001	BB	294657	2994869	92.68%	5.207%
6	8.087	8.051	8.151	BB	267213	2828524	87.53%	4.918%
7	9.683	9.644	9.748	BB	252616	2884335	89.26%	5.015%
8	11.120	11.081	11.184	BB	252573	2905661	89.92%	5.052%
9	11.426	11.388	11.484	BB	292475	3231539	100.00%	5.618%
10	12.426	12.384	12.491	BB	237052	2775623	85.89%	4.826%
11	12.867	12.831	12.934	BB	204470	2389546	73.94%	4.154%
12	13.035	12.998	13.101	BB	221132	2722823	84.26%	4.734%
13	13.620	13.584	13.688	BB	216950	2671035	82.66%	4.644%
14	14.720	14.681	14.788	BB	203668	2655805	82.18%	4.617%
15	15.739	15.674	15.804	BB	193474	2602198	80.53%	4.524%
16	16.686	16.611	16.751	BB	191675	2559534	79.20%	4.450%
17	17.571	17.508	17.638	BB	195840	2631800	81.44%	4.576%
18	18.402	18.348	18.464	BB	172625	2526641	78.19%	4.393%
19	19.183	19.121	19.241	BB	143315	2198499	68.03%	3.822%
20	19.922	19.871	19.964	BB	123626	1877473	58.10%	3.264%
21	20.634	20.581	20.698	BB	103180	1756021	54.34%	3.053%
22	21.495	21.431	21.551	BB	71090	1636652	50.65%	2.845%
Sum of corrected areas:							57518864	

Aliphatic EPH 012425.M Sat Jan 25 04:55:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
 Data File : FC068106.D
 Signal(s) : FID1A.ch
 Acq On : 24 Jan 2025 10:34
 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: Jan 25 04:21:55 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:20:44 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)	11.425	1693195	10.479 ug/ml
Spiked Amount 50.000		Recovery =	20.96%
12) S 1-chlorooctadecane (S...	12.865	1244032	10.412 ug/ml
Spiked Amount 50.000		Recovery =	20.82%
Target Compounds			
1) T n-Nonane (C9)	3.232	1475263	10.499 ug/ml
2) T n-Decane (C10)	4.291	1496558	10.458 ug/ml
3) T A~Naphthalene (C11.7)	5.859	1594666	10.256 ug/ml
4) T n-Dodecane (C12)	6.299	1504156	10.415 ug/ml
5) T A~2-methylnaphthalene...	6.911	1531057	10.225 ug/ml
6) T n-Tetradecane (C14)	8.087	1470817	10.400 ug/ml
7) T n-Hexadecane (C16)	9.682	1497439	10.383 ug/ml
8) T n-Octadecane (C18)	11.120	1516982	10.442 ug/ml
10) T n-Eicosane (C20)	12.424	1453910	10.476 ug/ml
11) T n-Heneicosane (C21)	13.035	1431349	10.514 ug/ml
13) T n-Docosane (C22)	13.620	1411126	10.566 ug/ml
14) T n-Tetracosane (C24)	14.719	1400111	10.544 ug/ml
15) T n-Hexacosane (C26)	15.737	1370317	10.532 ug/ml
16) T n-Octacosane (C28)	16.685	1362142	10.644 ug/ml
17) T n-Tricontane (C30)	17.570	1402454	10.658 ug/ml
18) T n-Dotriacontane (C32)	18.401	1354078	10.718 ug/ml
19) T n-Tetratriacontane (C34)	19.183	1175638	10.695 ug/ml
20) T n-Hexatriacontane (C36)	19.921	1013341	10.795 ug/ml
21) T n-Octatriacontane (C38)	20.635	924019	10.524 ug/ml
22) T n-Tetracontane (C40)	21.497	872323	10.660 ug/ml

(f)=RT Delta > 1/2 Window

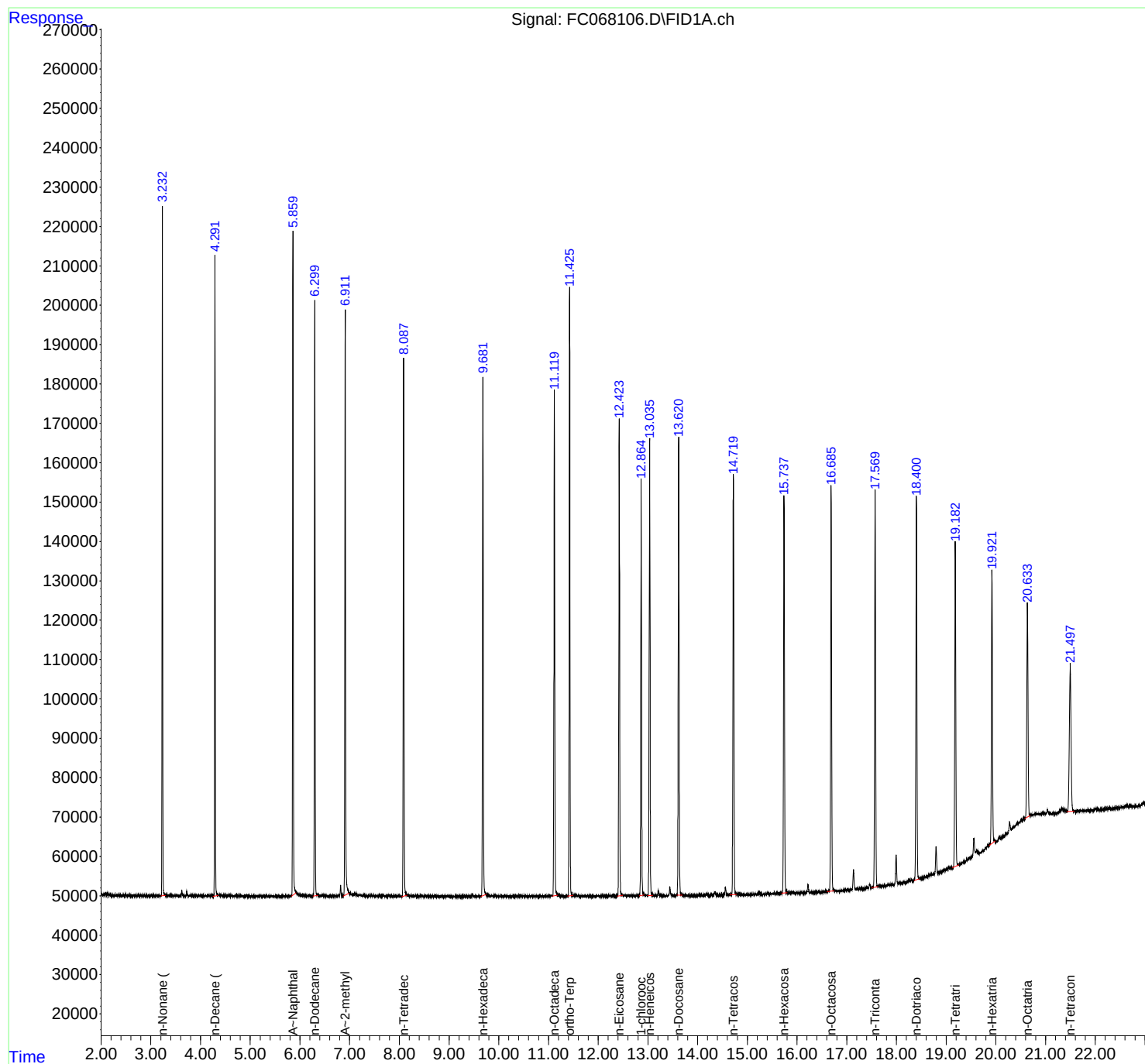
(m)=manual int.

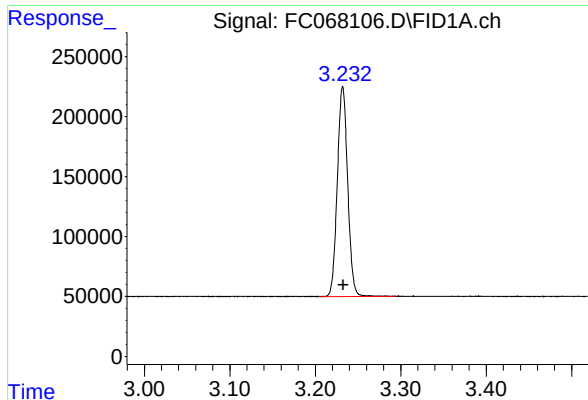
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068106.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 10:34
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 25 04:21:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

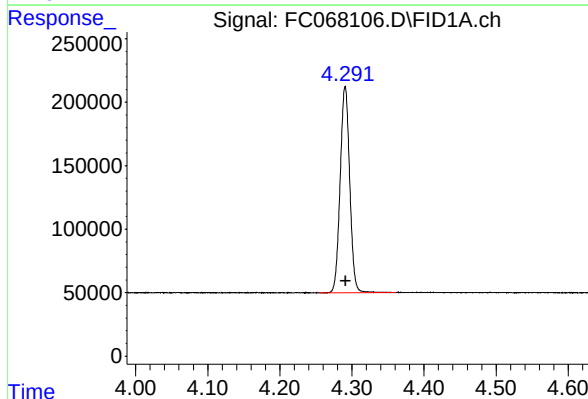




#1 n-Nonane (C9)

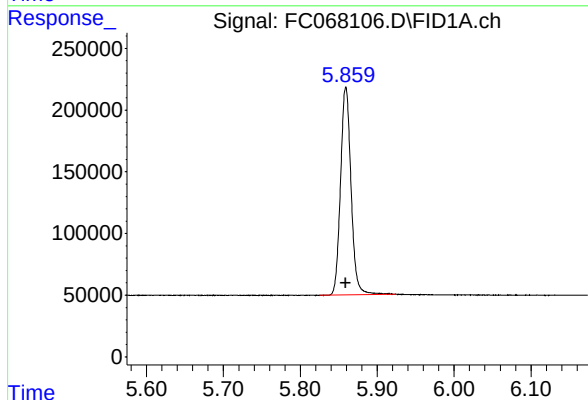
R.T.: 3.232 min
Delta R.T.: 0.000 min
Response: 1475263
Conc: 10.50 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



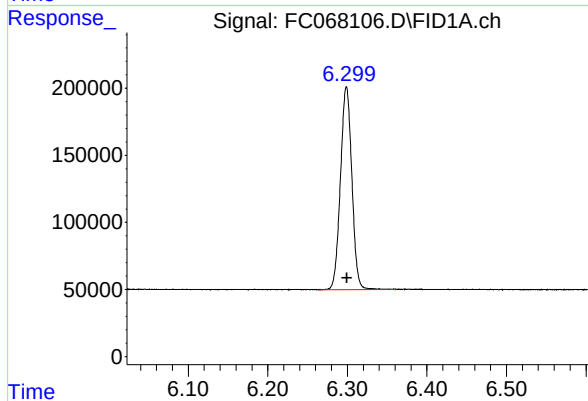
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: 0.000 min
Response: 1496558
Conc: 10.46 ug/ml



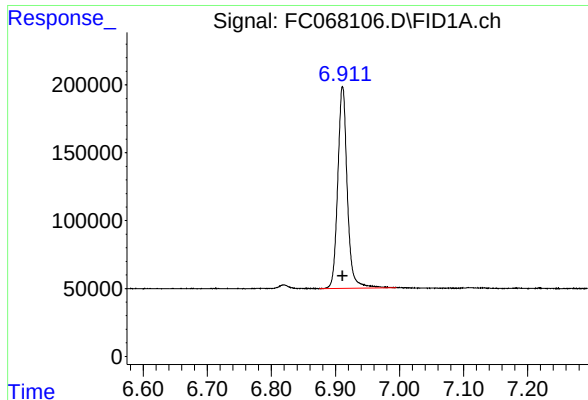
#3 A~Naphthalene (C11.7)

R.T.: 5.859 min
Delta R.T.: 0.000 min
Response: 1594666
Conc: 10.26 ug/ml



#4 n-Dodecane (C12)

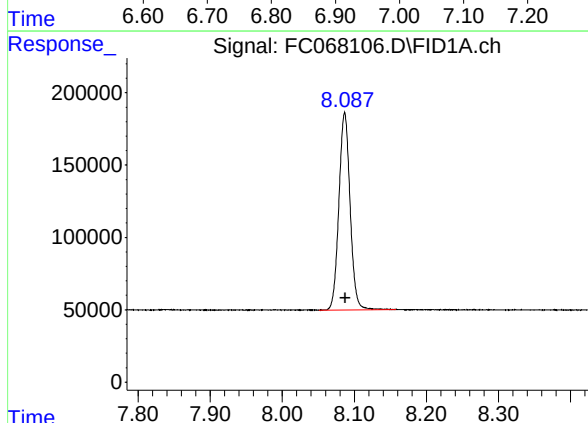
R.T.: 6.299 min
Delta R.T.: 0.000 min
Response: 1504156
Conc: 10.42 ug/ml



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

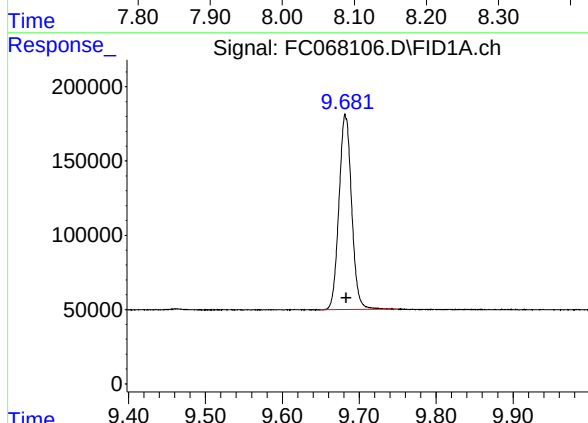
R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 1531057
Conc: 10.22 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



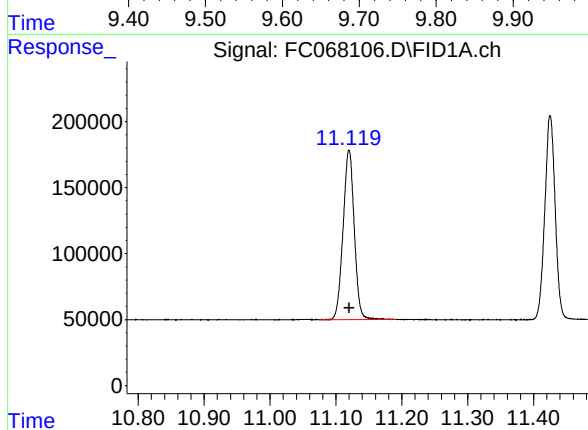
#6 n-Tetradecane (C14)

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 1470817
Conc: 10.40 ug/ml



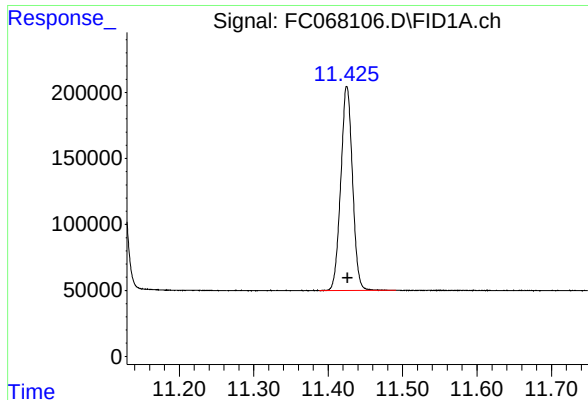
#7 n-Hexadecane (C16)

R.T.: 9.682 min
Delta R.T.: 0.000 min
Response: 1497439
Conc: 10.38 ug/ml



#8 n-Octadecane (C18)

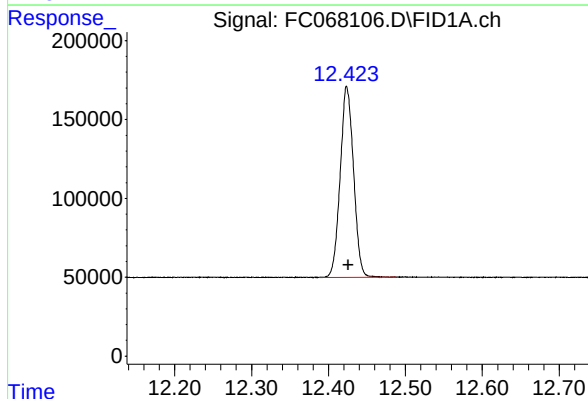
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 1516982
Conc: 10.44 ug/ml



#9 ortho-Terphenyl (SURR)

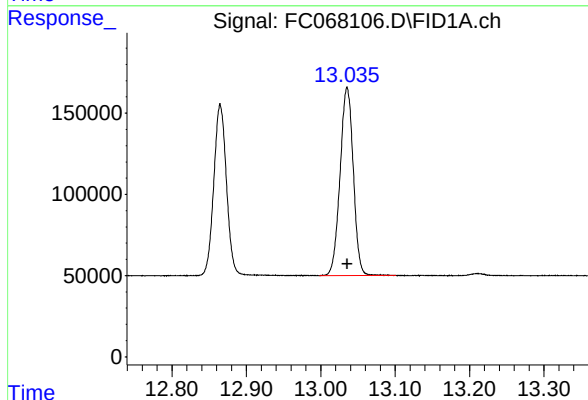
R.T.: 11.425 min
Delta R.T.: -0.001 min
Response: 1693195
Conc: 10.48 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



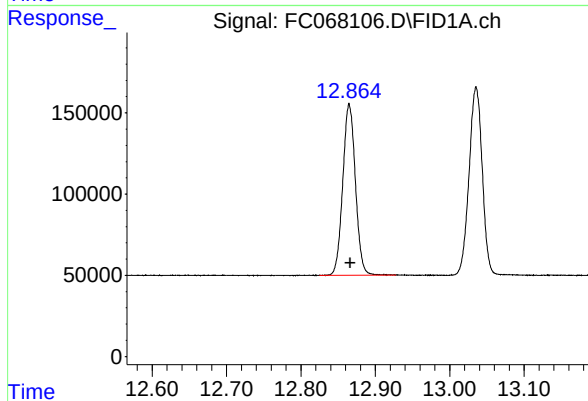
#10 n-Eicosane (C20)

R.T.: 12.424 min
Delta R.T.: -0.001 min
Response: 1453910
Conc: 10.48 ug/ml



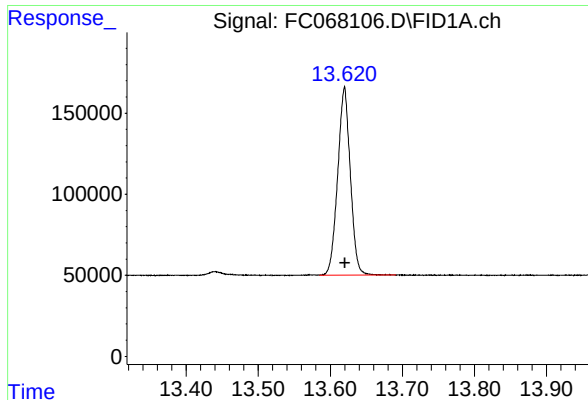
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 1431349
Conc: 10.51 ug/ml



#12 1-chlorooctadecane (SURR)

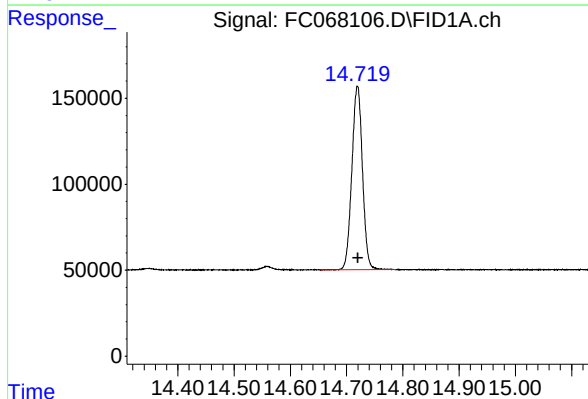
R.T.: 12.865 min
Delta R.T.: -0.002 min
Response: 1244032
Conc: 10.41 ug/ml



#13 n-Docosane (C22)

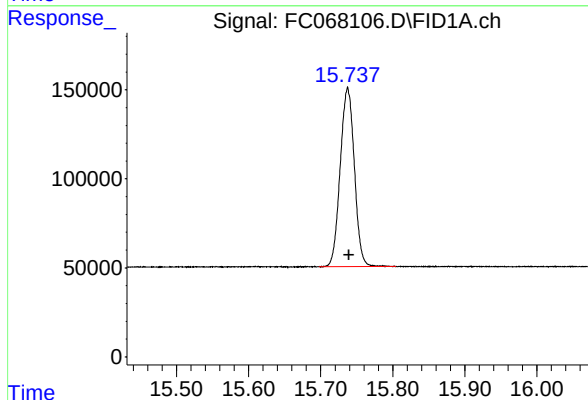
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 1411126
Conc: 10.57 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



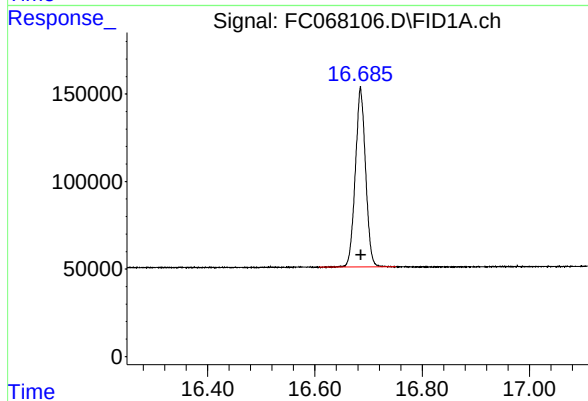
#14 n-Tetracosane (C24)

R.T.: 14.719 min
Delta R.T.: 0.000 min
Response: 1400111
Conc: 10.54 ug/ml



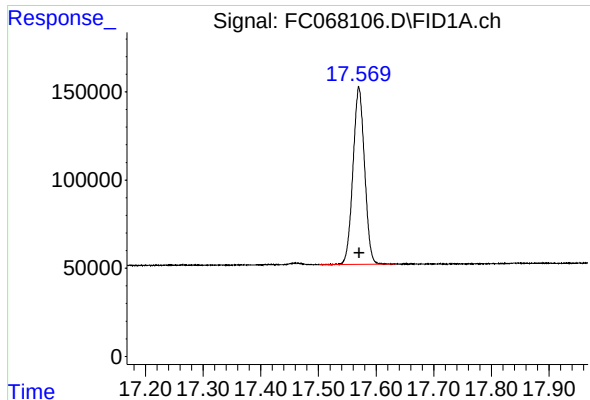
#15 n-Hexacosane (C26)

R.T.: 15.737 min
Delta R.T.: -0.002 min
Response: 1370317
Conc: 10.53 ug/ml



#16 n-Octacosane (C28)

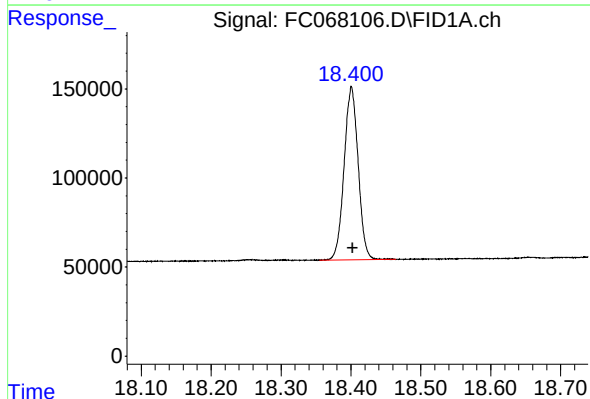
R.T.: 16.685 min
Delta R.T.: 0.000 min
Response: 1362142
Conc: 10.64 ug/ml



#17 n-Tricontane (C30)

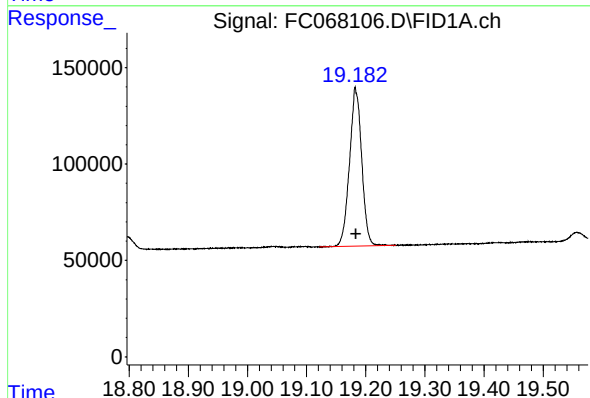
R.T.: 17.570 min
Delta R.T.: 0.000 min
Response: 1402454
Conc: 10.66 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



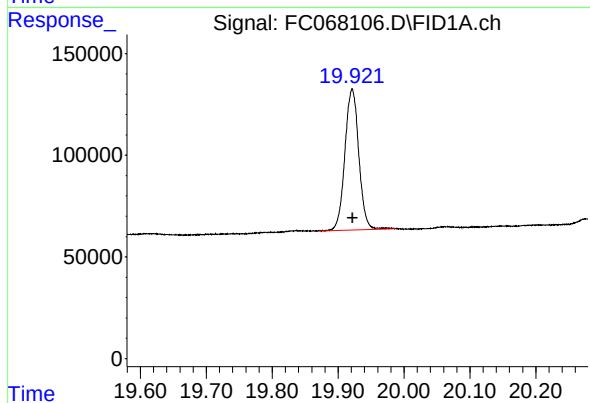
#18 n-Dotriacontane (C32)

R.T.: 18.401 min
Delta R.T.: -0.002 min
Response: 1354078
Conc: 10.72 ug/ml



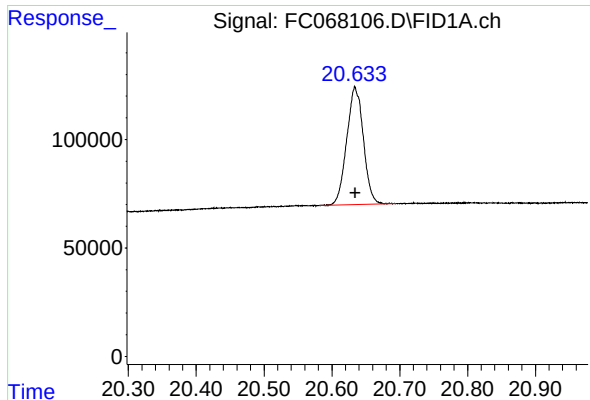
#19 n-Tetatriacontane (C34)

R.T.: 19.183 min
Delta R.T.: 0.000 min
Response: 1175638
Conc: 10.69 ug/ml



#20 n-Hexatriacontane (C36)

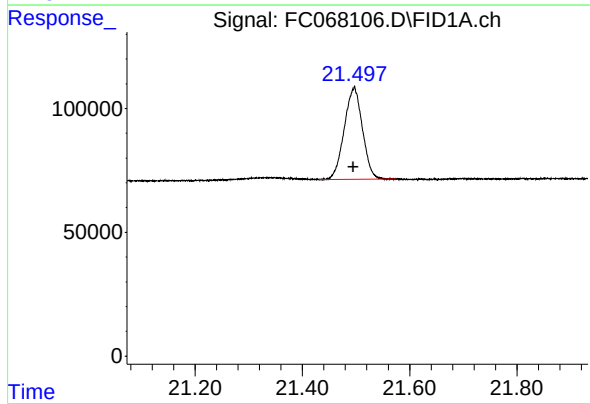
R.T.: 19.921 min
Delta R.T.: 0.000 min
Response: 1013341
Conc: 10.79 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.635 min
Delta R.T.: 0.000 min
Response: 924019
Conc: 10.52 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.497 min
Delta R.T.: 0.002 min
Response: 872323
Conc: 10.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068106.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 10:34
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 012425.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	3.232	3.204	3.294	BB	173891	1475263	87.13%	4.886%
2	4.291	4.254	4.361	BB	162720	1496558	88.39%	4.956%
3	5.859	5.824	5.924	BB	168195	1594666	94.18%	5.281%
4	6.299	6.264	6.361	BB	150731	1504156	88.84%	4.981%
5	6.911	6.874	6.994	BB	149273	1531057	90.42%	5.071%
6	8.087	8.051	8.158	BB	136084	1470817	86.87%	4.871%
7	9.682	9.648	9.748	BB	131211	1497439	88.44%	4.959%
8	11.120	11.074	11.191	BB	128815	1516982	89.59%	5.024%
9	11.425	11.388	11.491	BB	155292	1693195	100.00%	5.608%
10	12.424	12.388	12.488	BB	120109	1453910	85.87%	4.815%
11	12.865	12.824	12.928	BB	105028	1244032	73.47%	4.120%
12	13.035	12.998	13.101	BB	115485	1431349	84.54%	4.740%
13	13.620	13.584	13.691	BB	115583	1411126	83.34%	4.673%
14	14.719	14.651	14.788	BB	106542	1400111	82.69%	4.637%
15	15.737	15.698	15.804	BB	100036	1370317	80.93%	4.538%
16	16.685	16.608	16.751	BB	102147	1362142	80.45%	4.511%
17	17.570	17.501	17.634	BB	100184	1402454	82.83%	4.645%
18	18.401	18.354	18.464	BB	97240	1354078	79.97%	4.484%
19	19.183	19.121	19.251	BB	79568	1175638	69.43%	3.893%
20	19.921	19.871	19.988	BB	69262	1013341	59.85%	3.356%
21	20.635	20.581	20.694	BB	53776	924019	54.57%	3.060%
22	21.497	21.431	21.574	BB	37309	872323	51.52%	2.889%
Sum of corrected areas:							30194970	

Aliphatic EPH 012425.M Sat Jan 25 04:56:01 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
 Data File : FC068107.D
 Signal(s) : FID1A.ch
 Acq On : 24 Jan 2025 11:10
 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: Jan 25 04:22:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:20:44 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)	11.425	791222	4.897 ug/ml
Spiked Amount 50.000		Recovery =	9.79%
12) S 1-chlorooctadecane (S...	12.866	575543	4.817 ug/ml
Spiked Amount 50.000		Recovery =	9.63%
Target Compounds			
1) T n-Nonane (C9)	3.233	694002	4.939 ug/ml
2) T n-Decane (C10)	4.291	696954	4.870 ug/ml
3) T A~Naphthalene (C11.7)	5.860	735461	4.730 ug/ml
4) T n-Dodecane (C12)	6.298	701967	4.861 ug/ml
5) T A~2-methylnaphthalene...	6.912	679817	4.540 ug/ml
6) T n-Tetradecane (C14)	8.087	678873	4.800 ug/ml
7) T n-Hexadecane (C16)	9.682	690786	4.790 ug/ml
8) T n-Octadecane (C18)	11.119	701017	4.825 ug/ml
10) T n-Eicosane (C20)	12.425	676915	4.878 ug/ml
11) T n-Heneicosane (C21)	13.035	664598	4.882 ug/ml
13) T n-Docosane (C22)	13.620	653737	4.895 ug/ml
14) T n-Tetracosane (C24)	14.720	647347	4.875 ug/ml
15) T n-Hexacosane (C26)	15.738	640168	4.920 ug/ml
16) T n-Octacosane (C28)	16.685	660648	5.162 ug/ml
17) T n-Tricontane (C30)	17.571	717917	5.456 ug/ml
18) T n-Dotriacontane (C32)	18.400	712580	5.641 ug/ml
19) T n-Tetratriacontane (C34)	19.183	604670	5.501 ug/ml
20) T n-Hexatriacontane (C36)	19.922	497419	5.299 ug/ml
21) T n-Octatriacontane (C38)	20.635	450417	5.130 ug/ml
22) T n-Tetracontane (C40)	21.497	416329	5.088 ug/ml

(f)=RT Delta > 1/2 Window

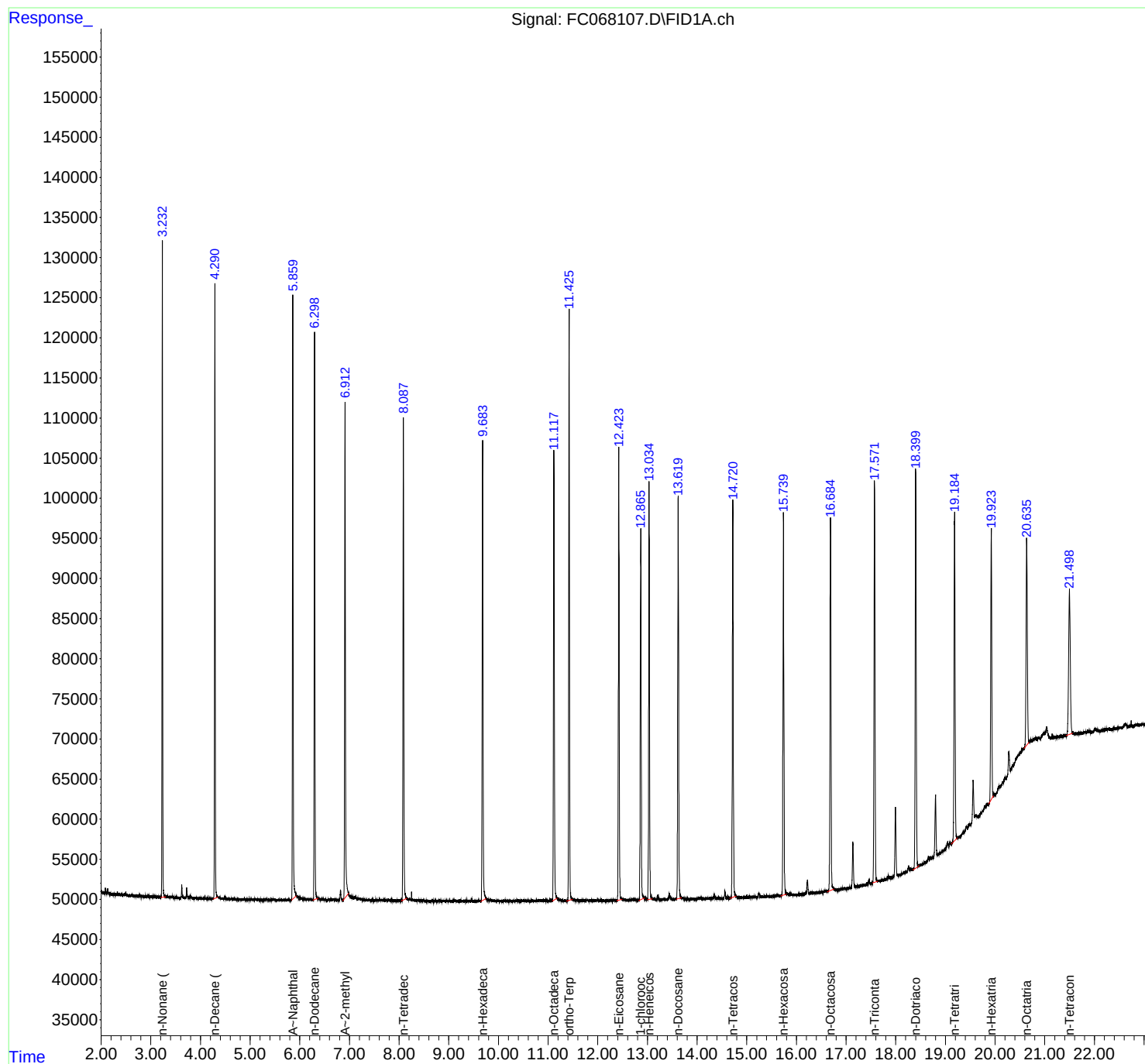
(m)=manual int.

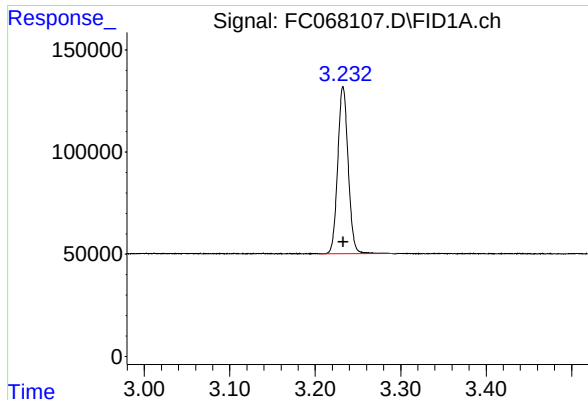
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068107.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:10
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jan 25 04:22:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

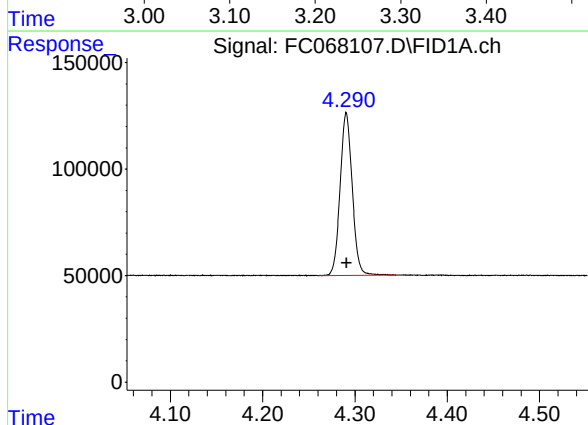




#1 n-Nonane (C9)

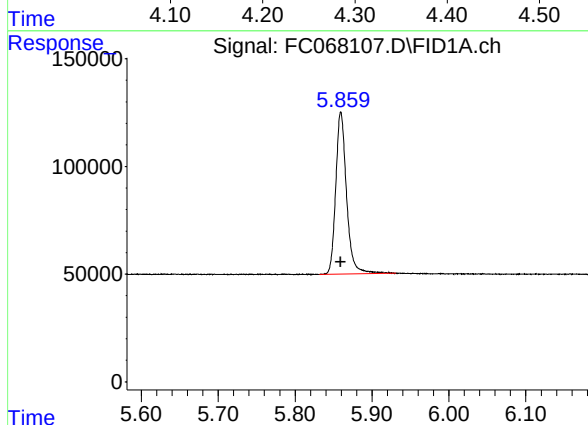
R.T.: 3.233 min
Delta R.T.: 0.000 min
Response: 694002
Conc: 4.94 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



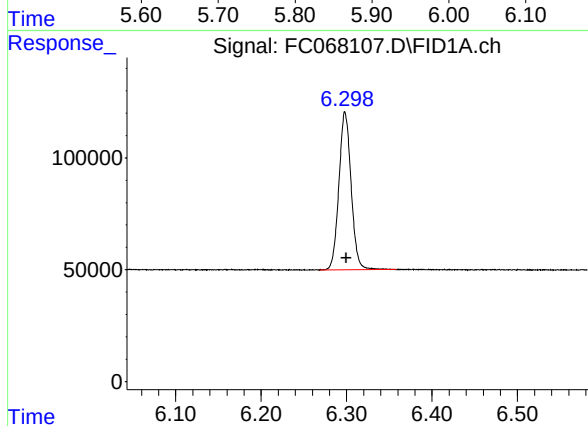
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: 0.000 min
Response: 696954
Conc: 4.87 ug/ml



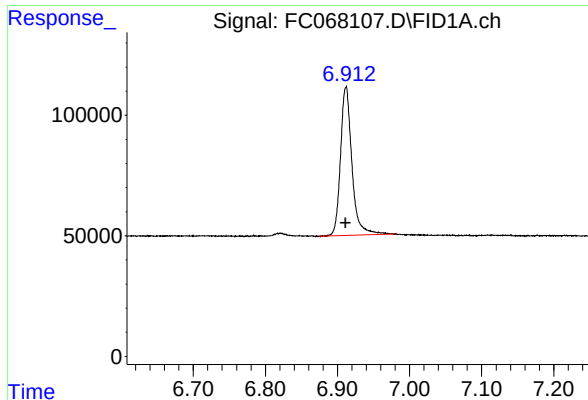
#3 A~Naphthalene (C11.7)

R.T.: 5.860 min
Delta R.T.: 0.000 min
Response: 735461
Conc: 4.73 ug/ml



#4 n-Dodecane (C12)

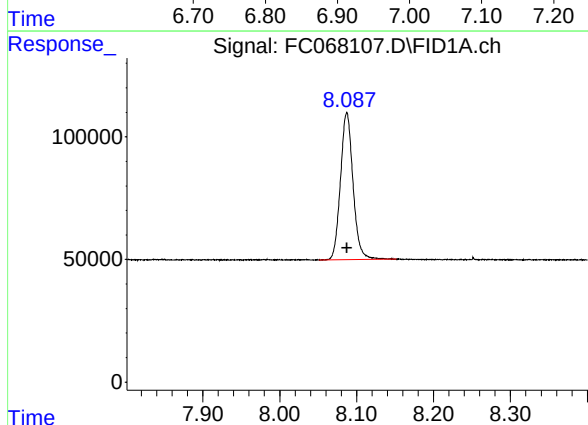
R.T.: 6.298 min
Delta R.T.: -0.001 min
Response: 701967
Conc: 4.86 ug/ml



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

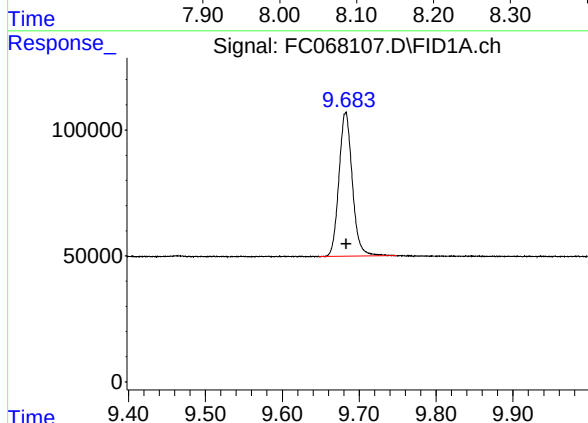
R.T.: 6.912 min
Delta R.T.: 0.000 min
Response: 679817
Conc: 4.54 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



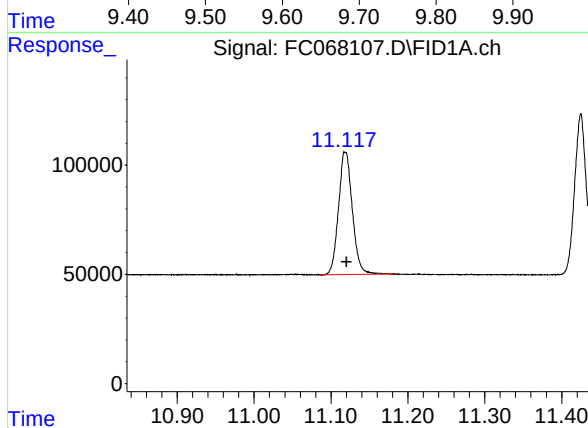
#6 n-Tetradecane (C14)

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 678873
Conc: 4.80 ug/ml



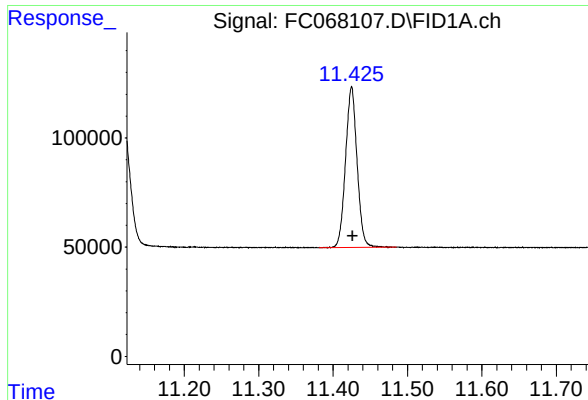
#7 n-Hexadecane (C16)

R.T.: 9.682 min
Delta R.T.: 0.000 min
Response: 690786
Conc: 4.79 ug/ml



#8 n-Octadecane (C18)

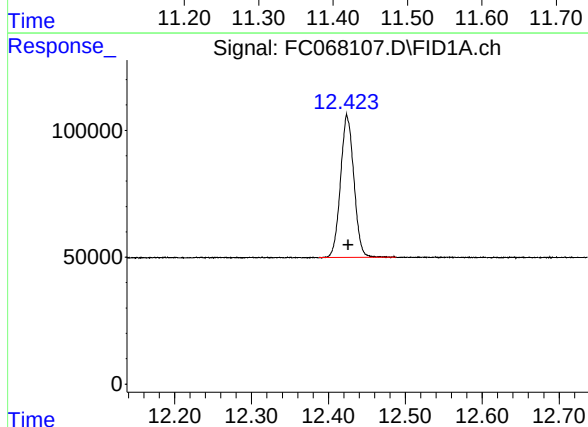
R.T.: 11.119 min
Delta R.T.: -0.002 min
Response: 701017
Conc: 4.83 ug/ml



#9 ortho-Terphenyl (SURR)

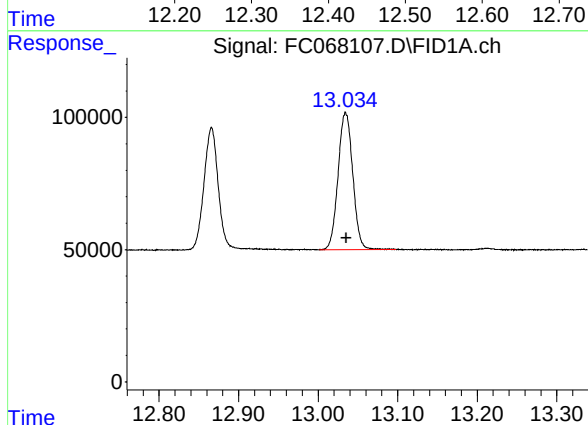
R.T.: 11.425 min
Delta R.T.: -0.001 min
Response: 791222
Conc: 4.90 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



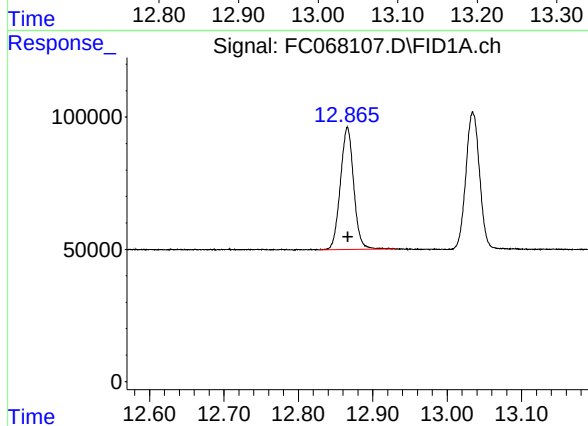
#10 n-Eicosane (C20)

R.T.: 12.425 min
Delta R.T.: 0.000 min
Response: 676915
Conc: 4.88 ug/ml



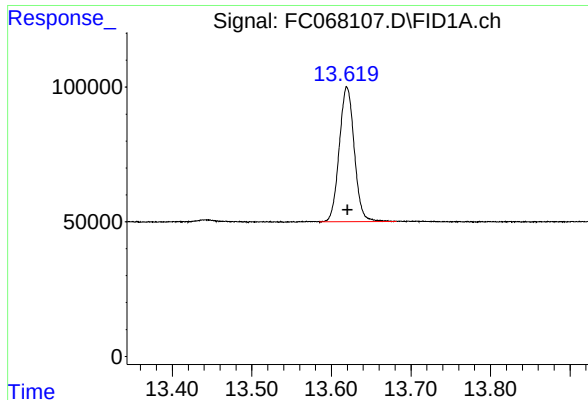
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 664598
Conc: 4.88 ug/ml



#12 1-chlorooctadecane (SURR)

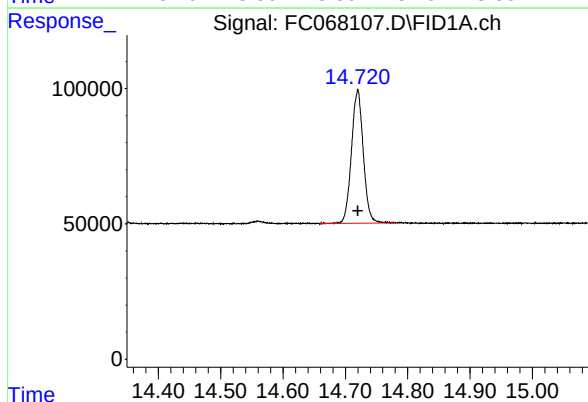
R.T.: 12.866 min
Delta R.T.: 0.000 min
Response: 575543
Conc: 4.82 ug/ml



#13 n-Docosane (C22)

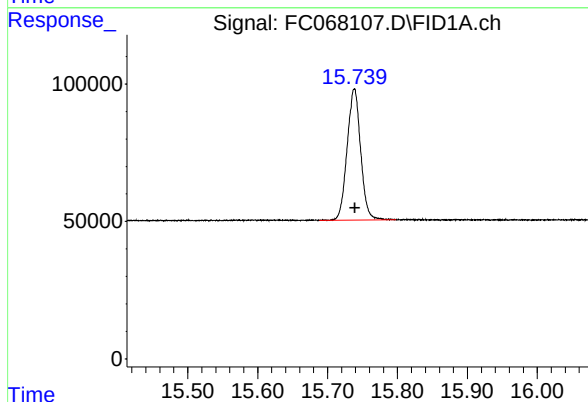
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 653737
Conc: 4.90 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



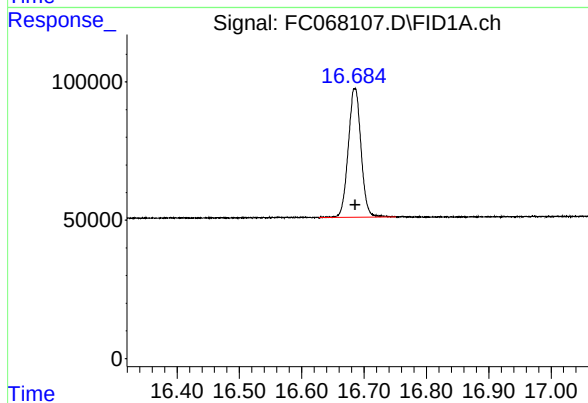
#14 n-Tetracosane (C24)

R.T.: 14.720 min
Delta R.T.: 0.000 min
Response: 647347
Conc: 4.87 ug/ml



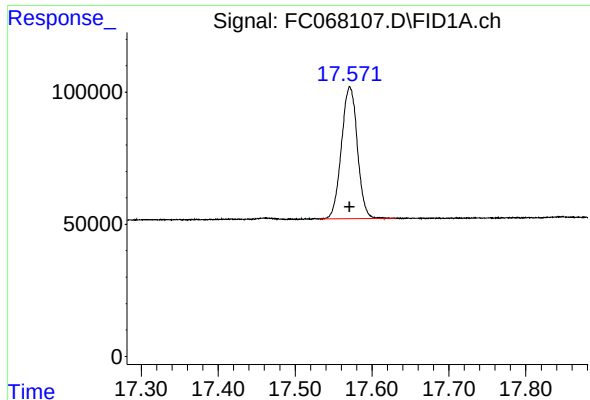
#15 n-Hexacosane (C26)

R.T.: 15.738 min
Delta R.T.: 0.000 min
Response: 640168
Conc: 4.92 ug/ml



#16 n-Octacosane (C28)

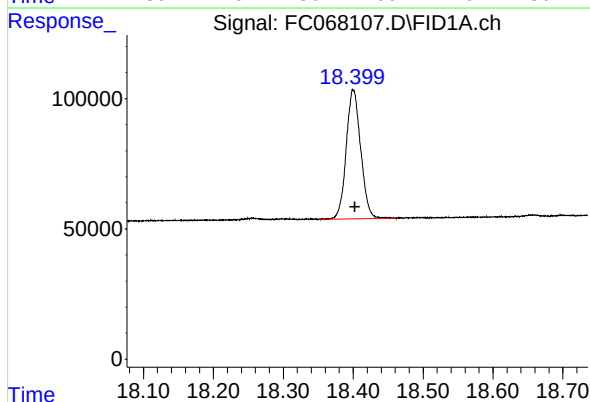
R.T.: 16.685 min
Delta R.T.: 0.000 min
Response: 660648
Conc: 5.16 ug/ml



#17 n-Tricontane (C30)

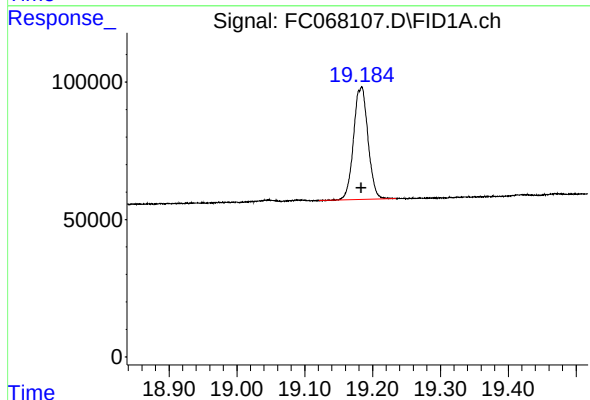
R.T.: 17.571 min
Delta R.T.: 0.000 min
Response: 717917
Conc: 5.46 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



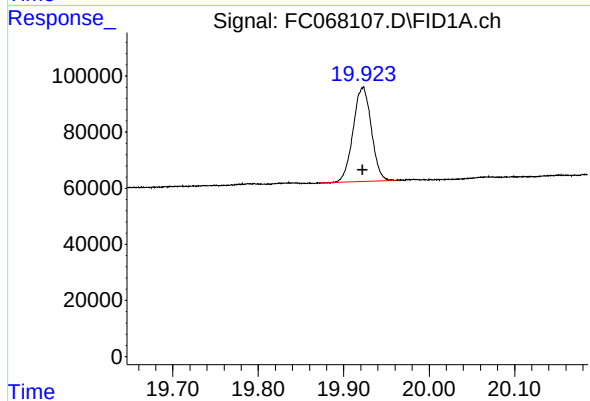
#18 n-Dotriacontane (C32)

R.T.: 18.400 min
Delta R.T.: -0.002 min
Response: 712580
Conc: 5.64 ug/ml



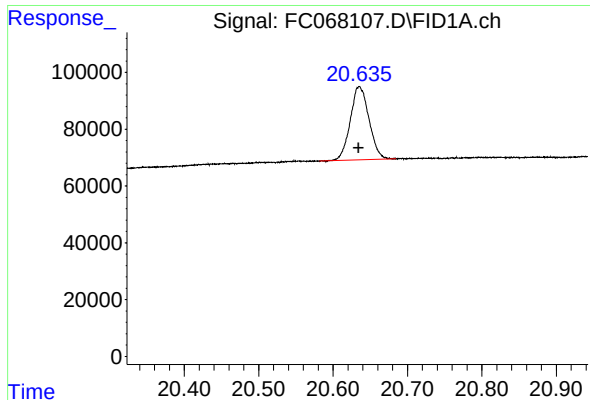
#19 n-Tetratriacontane (C34)

R.T.: 19.183 min
Delta R.T.: 0.000 min
Response: 604670
Conc: 5.50 ug/ml



#20 n-Hexatriacontane (C36)

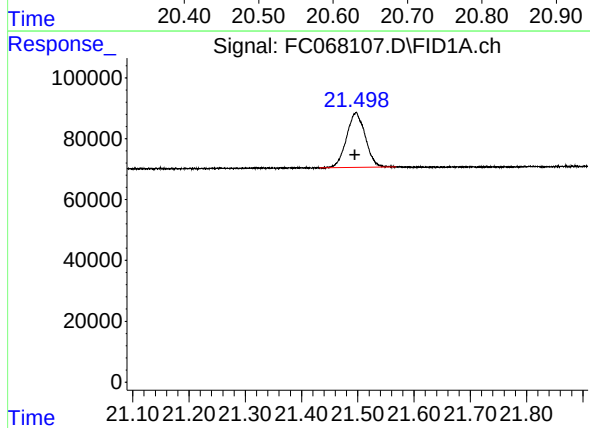
R.T.: 19.922 min
Delta R.T.: 0.000 min
Response: 497419
Conc: 5.30 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.635 min
Delta R.T.: 0.001 min
Response: 450417
Conc: 5.13 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.497 min
Delta R.T.: 0.002 min
Response: 416329
Conc: 5.09 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068107.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:10
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 012425.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	3.205	3.295	BB	81211	694002	87.71%	4.857%
2	4.291	4.261	4.345	BB	76093	696954	88.09%	4.878%
3	5.860	5.831	5.931	BB	74115	735461	92.95%	5.147%
4	6.298	6.268	6.358	BB	70358	701967	88.72%	4.913%
5	6.912	6.875	6.981	BB	61540	679817	85.92%	4.758%
6	8.087	8.051	8.151	BB	59884	678873	85.80%	4.751%
7	9.682	9.648	9.748	BB	57178	690786	87.31%	4.835%
8	11.119	11.085	11.185	BB	56462	701017	88.60%	4.906%
9	11.425	11.381	11.485	BB	73366	791222	100.00%	5.538%
10	12.425	12.388	12.488	BB	55734	676915	85.55%	4.738%
11	12.866	12.828	12.931	BB	45879	575543	72.74%	4.028%
12	13.035	13.001	13.098	BB	51716	664598	84.00%	4.651%
13	13.620	13.585	13.681	BB	49760	653737	82.62%	4.575%
14	14.720	14.658	14.781	BB	49743	647347	81.82%	4.531%
15	15.738	15.688	15.798	BB	47829	640168	80.91%	4.480%
16	16.685	16.628	16.751	BB	46740	660648	83.50%	4.624%
17	17.571	17.531	17.631	BB	49806	717917	90.74%	5.024%
18	18.400	18.351	18.461	BB	49533	712580	90.06%	4.987%
19	19.183	19.121	19.235	BB	41551	604670	76.42%	4.232%
20	19.922	19.871	19.961	BB	33283	497419	62.87%	3.481%
21	20.635	20.581	20.685	BB	25685	450417	56.93%	3.152%
22	21.497	21.431	21.568	BB	18210	416329	52.62%	2.914%
Sum of corrected areas:							14288387	

Aliphatic EPH 012425.M Sat Jan 25 04:56:17 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
 Data File : FC068108.D
 Signal(s) : FID1A.ch
 Acq On : 24 Jan 2025 11:46
 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: Jan 25 04:32:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 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)	11.426	3210149	20.543 ug/ml
Spiked Amount 50.000		Recovery =	41.09%
12) S 1-chlorooctadecane (S...	12.866	2353417	20.464 ug/ml
Spiked Amount 50.000		Recovery =	40.93%
Target Compounds			
1) T n-Nonane (C9)	3.233	2856850	20.863 ug/ml
2) T n-Decane (C10)	4.291	2892910	20.837 ug/ml
3) T A~Naphthalene (C11.7)	5.859	3146417	20.959 ug/ml
4) T n-Dodecane (C12)	6.299	2898986	20.752 ug/ml
5) T A~2-methylnaphthalene...	6.912	3016045	20.998 ug/ml
6) T n-Tetradecane (C14)	8.088	2823344	20.687 ug/ml
7) T n-Hexadecane (C16)	9.682	2866683	20.631 ug/ml
8) T n-Octadecane (C18)	11.120	2860062	20.441 ug/ml
10) T n-Eicosane (C20)	12.425	2726294	20.376 ug/ml
11) T n-Heneicosane (C21)	13.035	2669582	20.326 ug/ml
13) T n-Docosane (C22)	13.621	2632473	20.323 ug/ml
14) T n-Tetracosane (C24)	14.720	2607107	20.307 ug/ml
15) T n-Hexacosane (C26)	15.738	2544255	20.219 ug/ml
16) T n-Octacosane (C28)	16.686	2514179	20.102 ug/ml
17) T n-Tricontane (C30)	17.572	2583068	19.984 ug/ml
18) T n-Dotriacontane (C32)	18.402	2485515	19.882 ug/ml
19) T n-Tetratriacontane (C34)	19.184	2168265	19.989 ug/ml
20) T n-Hexatriacontane (C36)	19.922	1856990	20.066 ug/ml
21) T n-Octatriacontane (C38)	20.634	1734577	20.243 ug/ml
22) T n-Tetracontane (C40)	21.496	1670521	20.660 ug/ml

(f)=RT Delta > 1/2 Window

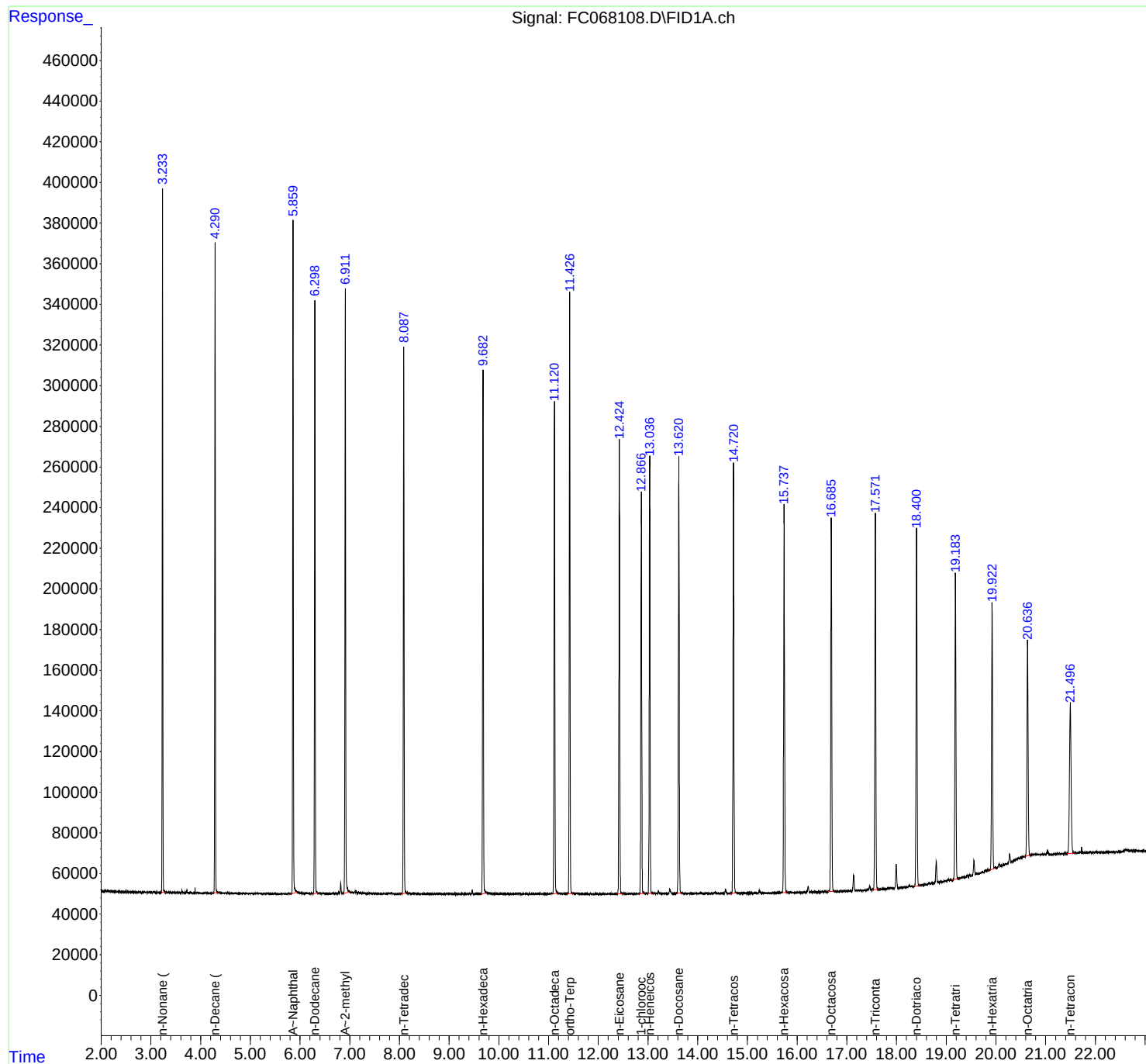
(m)=manual int.

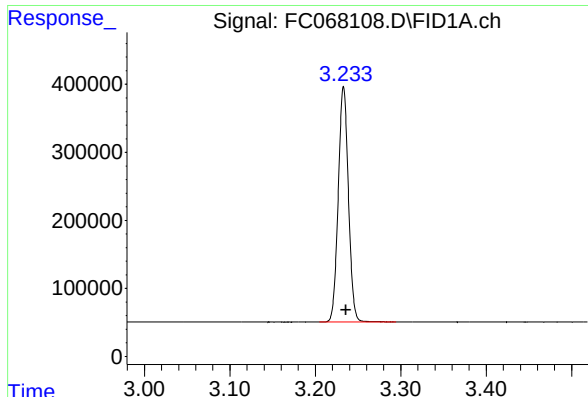
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068108.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:46
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 25 04:32:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 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)

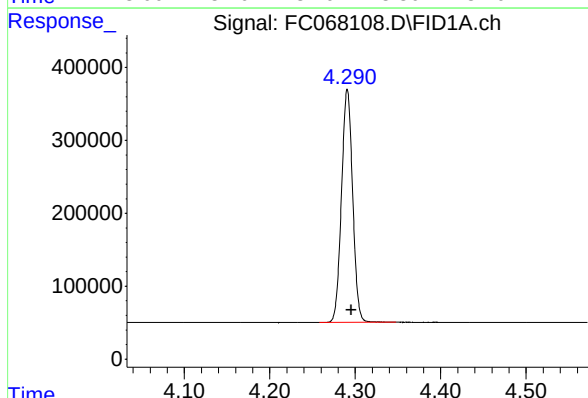
R.T.: 3.233 min
Delta R.T.: -0.003 min
Response: 2856850
Conc: 20.86 ug/ml

Instrument :

FID_C

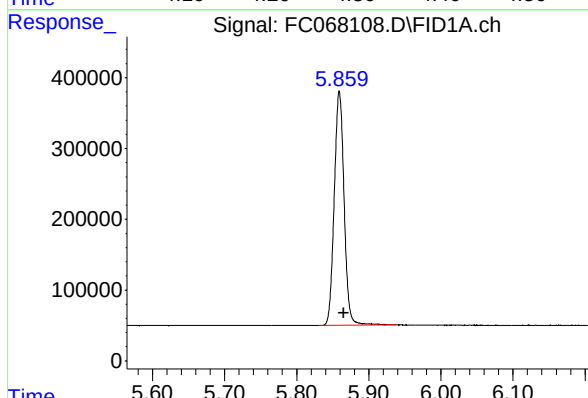
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



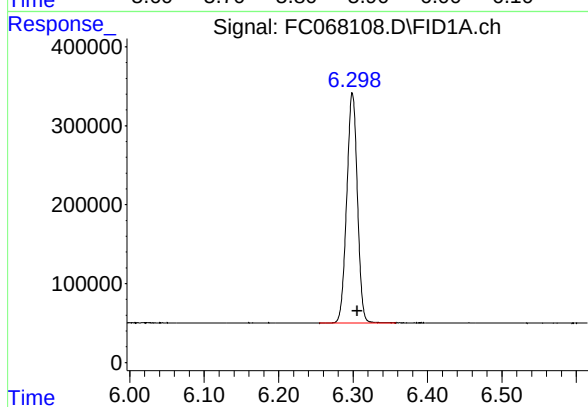
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: -0.005 min
Response: 2892910
Conc: 20.84 ug/ml



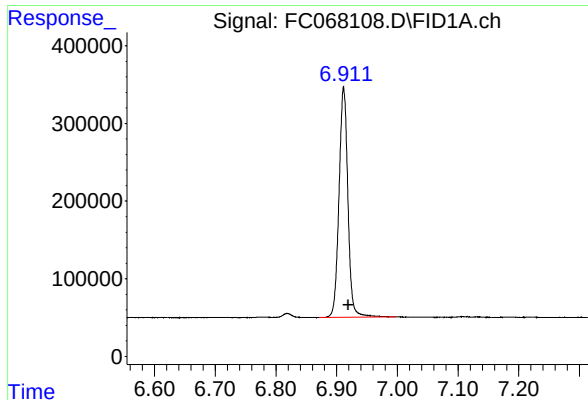
#3 A~Naphthalene (C11.7)

R.T.: 5.859 min
Delta R.T.: -0.006 min
Response: 3146417
Conc: 20.96 ug/ml



#4 n-Dodecane (C12)

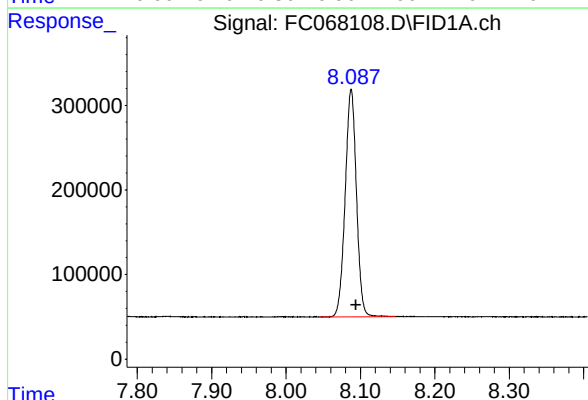
R.T.: 6.299 min
Delta R.T.: -0.006 min
Response: 2898986
Conc: 20.75 ug/ml



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

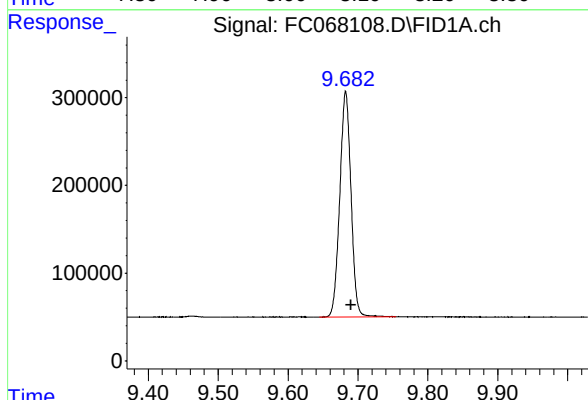
R.T.: 6.912 min
Delta R.T.: -0.008 min
Response: 3016045
Conc: 21.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



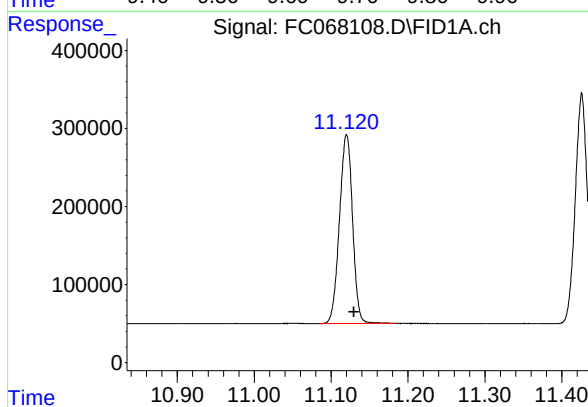
#6 n-Tetradecane (C14)

R.T.: 8.088 min
Delta R.T.: -0.006 min
Response: 2823344
Conc: 20.69 ug/ml



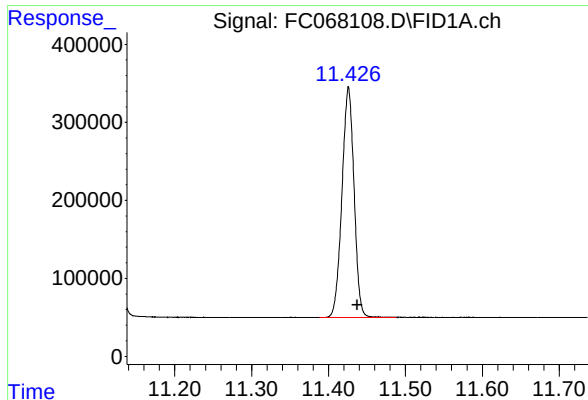
#7 n-Hexadecane (C16)

R.T.: 9.682 min
Delta R.T.: -0.008 min
Response: 2866683
Conc: 20.63 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.120 min
Delta R.T.: -0.009 min
Response: 2860062
Conc: 20.44 ug/ml



#9 ortho-Terphenyl (SURR)

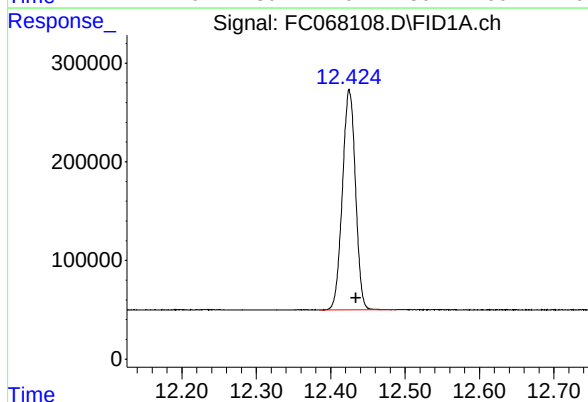
R.T.: 11.426 min
Delta R.T.: -0.011 min
Response: 3210149
Conc: 20.54 ug/ml

Instrument :

FID_C

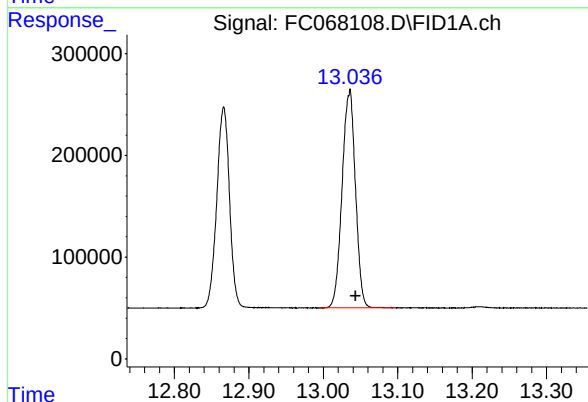
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



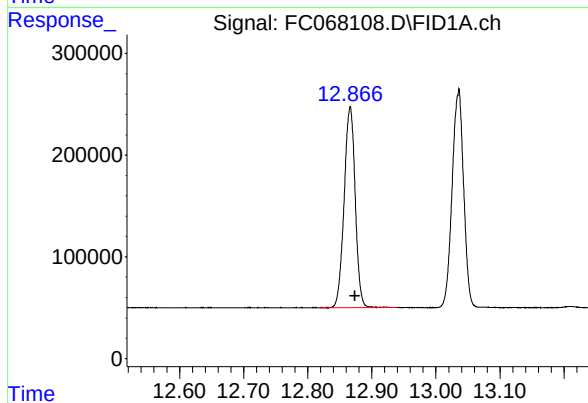
#10 n-Eicosane (C20)

R.T.: 12.425 min
Delta R.T.: -0.009 min
Response: 2726294
Conc: 20.38 ug/ml



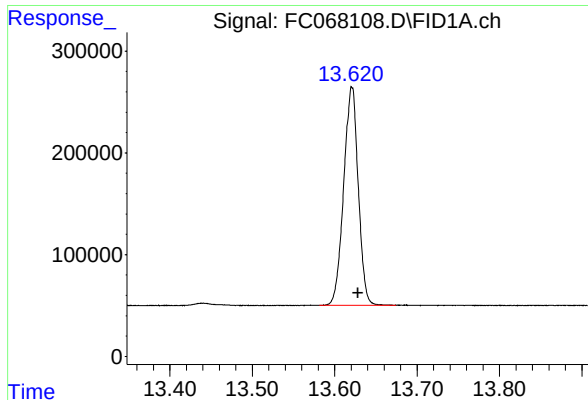
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: -0.009 min
Response: 2669582
Conc: 20.33 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.866 min
Delta R.T.: -0.008 min
Response: 2353417
Conc: 20.46 ug/ml



#13 n-Docosane (C22)

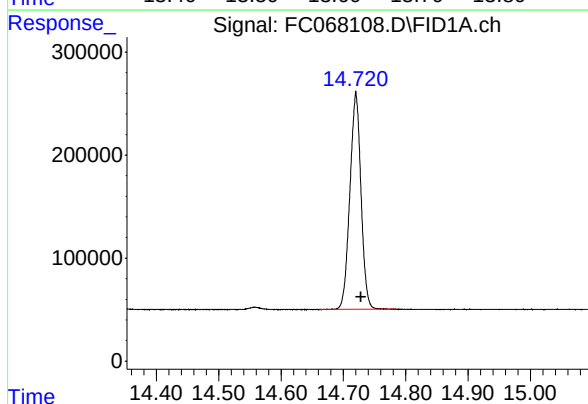
R.T.: 13.621 min
Delta R.T.: -0.008 min
Response: 2632473
Conc: 20.32 ug/ml

Instrument :

FID_C

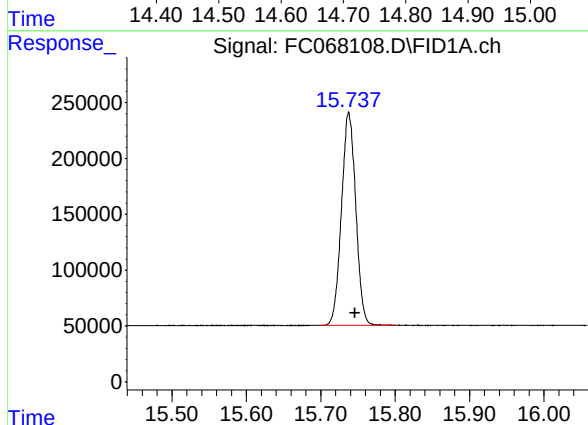
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



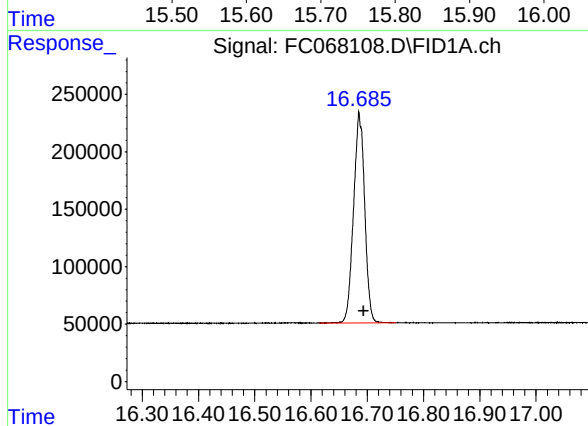
#14 n-Tetracosane (C24)

R.T.: 14.720 min
Delta R.T.: -0.008 min
Response: 2607107
Conc: 20.31 ug/ml



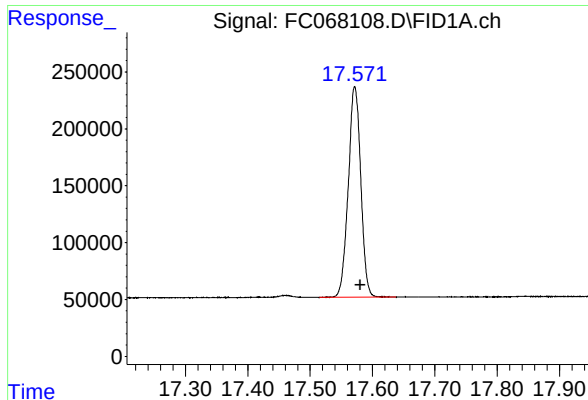
#15 n-Hexacosane (C26)

R.T.: 15.738 min
Delta R.T.: -0.008 min
Response: 2544255
Conc: 20.22 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.686 min
Delta R.T.: -0.007 min
Response: 2514179
Conc: 20.10 ug/ml



#17 n-Tricontane (C30)

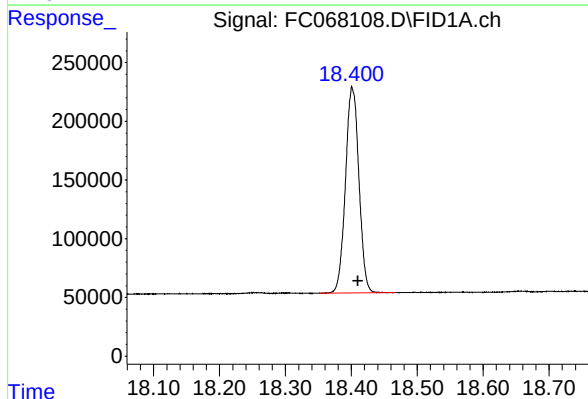
R.T.: 17.572 min
Delta R.T.: -0.009 min
Response: 2583068
Conc: 19.98 ug/ml

Instrument :

FID_C

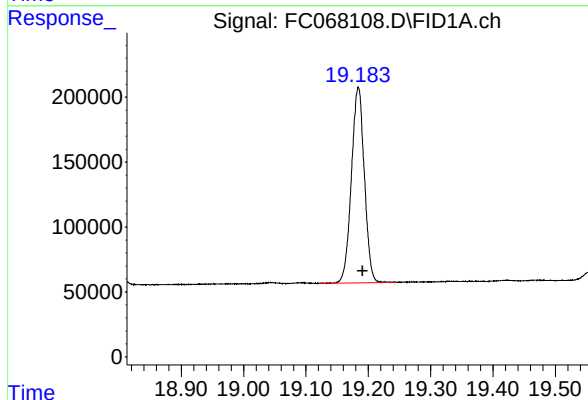
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



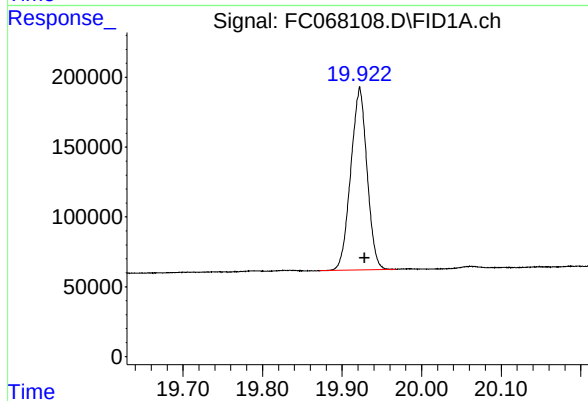
#18 n-Dotriacontane (C32)

R.T.: 18.402 min
Delta R.T.: -0.009 min
Response: 2485515
Conc: 19.88 ug/ml



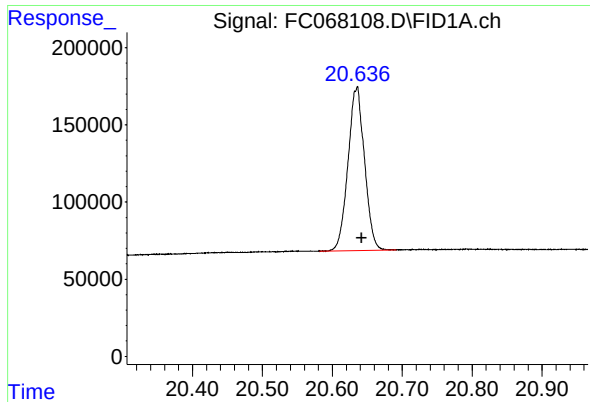
#19 n-Tetatriacontane (C34)

R.T.: 19.184 min
Delta R.T.: -0.007 min
Response: 2168265
Conc: 19.99 ug/ml



#20 n-Hexatriacontane (C36)

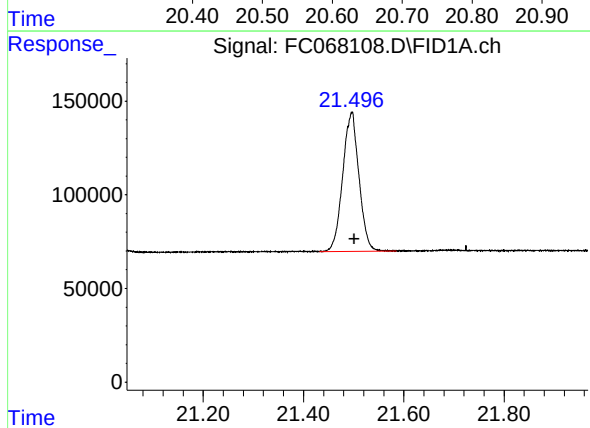
R.T.: 19.922 min
Delta R.T.: -0.006 min
Response: 1856990
Conc: 20.07 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.634 min
Delta R.T.: -0.008 min
Response: 1734577
Conc: 20.24 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.496 min
Delta R.T.: -0.005 min
Response: 1670521
Conc: 20.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068108.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:46
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 012425.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	3.294	BB	343704	2856850	88.99%	5.002%
2	4.291	4.258	4.348	BB	319572	2892910	90.12%	5.065%
3	5.859	5.831	5.938	BB	328241	3146417	98.01%	5.509%
4	6.299	6.254	6.358	BB	290866	2898986	90.31%	5.075%
5	6.912	6.871	6.998	BB	295864	3016045	93.95%	5.280%
6	8.088	8.044	8.148	BB	268893	2823344	87.95%	4.943%
7	9.682	9.644	9.754	BB	254778	2866683	89.30%	5.019%
8	11.120	11.084	11.184	BB	242579	2860062	89.09%	5.007%
9	11.426	11.388	11.488	BB	290771	3210149	100.00%	5.620%
10	12.425	12.384	12.488	BB	223122	2726294	84.93%	4.773%
11	12.866	12.818	12.938	BB	197552	2353417	73.31%	4.120%
12	13.035	12.994	13.098	BB	211315	2669582	83.16%	4.674%
13	13.621	13.581	13.674	BB	216625	2632473	82.00%	4.609%
14	14.720	14.661	14.784	BB	209276	2607107	81.21%	4.564%
15	15.738	15.698	15.801	BB	189595	2544255	79.26%	4.454%
16	16.686	16.614	16.751	BB	174808	2514179	78.32%	4.402%
17	17.572	17.514	17.638	BB	185211	2583068	80.47%	4.522%
18	18.402	18.351	18.468	BB	175194	2485515	77.43%	4.352%
19	19.184	19.121	19.244	BB	150939	2168265	67.54%	3.796%
20	19.922	19.871	19.968	BB	128729	1856990	57.85%	3.251%
21	20.634	20.581	20.691	BB	104780	1734577	54.03%	3.037%
22	21.496	21.431	21.584	BB	73905	1670521	52.04%	2.925%
Sum of corrected areas:							57117687	

Aliphatic EPH 012425.M Sat Jan 25 04:56:39 2025

Initial Calibration Report for SequenceID : FF011425AL

AreaCount

Parameter Range	FF015228.D	FF015229.D	FF015230.D	FF015231.D	FF015232.D	
Aliphatic C9-C12	37432719.000	18836584.000	8059831.000	4319049.000	2067202.000	
Aliphatic C12-C16	25922760.000	13078920.000	5606705.000	2982461.000	1423232.000	
Aliphatic C16-C21	40150174.000	20337980.000	8832349.000	4678010.000	2245943.000	
Aliphatic C21-C28	52162194.000	26703436.000	11627257.000	6148419.000	2982055.000	
Aliphatic C28-C40	56522552.000	29298738.000	12720684.000	6776286.000	3378667.000	
Aliphatic EPH	212190399.000	108255658.000	46846826.000	24904225.000	12097099.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	133293.0479996	6.136				
Aliphatic C12-C16	138403.375	5.921				
Aliphatic C16-C21	144457.8926662	6.554				
Aliphatic C21-C28	142415.3205	7.059				
Aliphatic C28-C40	104686.5493332	8.162				
Aliphatic EPH	128213.3416664	6.917				

Concentration

Parameter Range	FF015228.D	FF015229.D	FF015230.D	FF015231.D	FF015232.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	FF015228.D	FF015229.D	FF015230.D	FF015231.D	FF015232.D	
Aliphatic C9-C12	124775.730000	125577.226666	134330.516666	143968.300000	137813.466666	
Aliphatic C12-C16	129613.800000	130789.200000	140167.625000	149123.050000	142323.200000	
Aliphatic C16-C21	133833.913333	135586.533333	147205.816666	155933.666666	149729.533333	

Initial Calibration Report for SequenceID : FF011425AL

Aliphatic C21-C28	130405.485000	133517.180000	145340.712500	153710.475000	149102.750000	
Aliphatic C28-C40	94204.253333	97662.460000	106005.700000	112938.100000	112622.233333	
Aliphatic EPH	117883.555000	120284.064444	130130.072222	138356.805555	134412.211111	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
 Data File : FF015228.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jan 2025 12:54
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Jan 14 14:41:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 14:38:51 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)	11.933	14803044	95.689 ug/ml
Spiked Amount 50.000		Recovery =	191.38%
12) S 1-chlorooctadecane (S...	13.367	11613955	95.363 ug/ml
Spiked Amount 50.000		Recovery =	190.73%
Target Compounds			
1) T n-Nonane (C9)	3.319	12288531	96.315 ug/ml
2) T n-Decane (C10)	4.572	12506840	96.250 ug/ml
3) T A~Naphthalene (C11.7)	6.273	13644886	96.164 ug/ml
4) T n-Dodecane (C12)	6.737	12637348	96.372 ug/ml
5) T A~2-methylnaphthalene...	7.368	13336102	96.434 ug/ml
6) T n-Tetradecane (C14)	8.562	12663593	96.307 ug/ml
7) T n-Hexadecane (C16)	10.169	13259167	95.880 ug/ml
8) T n-Octadecane (C18)	11.614	13610495	95.497 ug/ml
10) T n-Eicosane (C20)	12.922	13326803	95.090 ug/ml
11) T n-Heneicosane (C21)	13.535	13212876	95.134 ug/ml
13) T n-Docosane (C22)	14.121	13242501	95.056 ug/ml
14) T n-Tetracosane (C24)	15.224	13307039	94.533 ug/ml
15) T n-Hexacosane (C26)	16.247	13028327	94.652 ug/ml
16) T n-Octacosane (C28)	17.197	12584327	94.076 ug/ml
17) T n-Tricontane (C30)	18.085	12325032	93.184 ug/ml
18) T n-Dotriacontane (C32)	18.918	11414286	93.082 ug/ml
19) T n-Tetratriacontane (C34)	19.700	9634494	93.489 ug/ml
20) T n-Hexatriacontane (C36)	20.440	8013382	94.257 ug/ml
21) T n-Octatriacontane (C38)	21.177	7610463	95.312 ug/ml
22) T n-Tetracontane (C40)	22.091	7524895	96.698 ug/ml

(f)=RT Delta > 1/2 Window

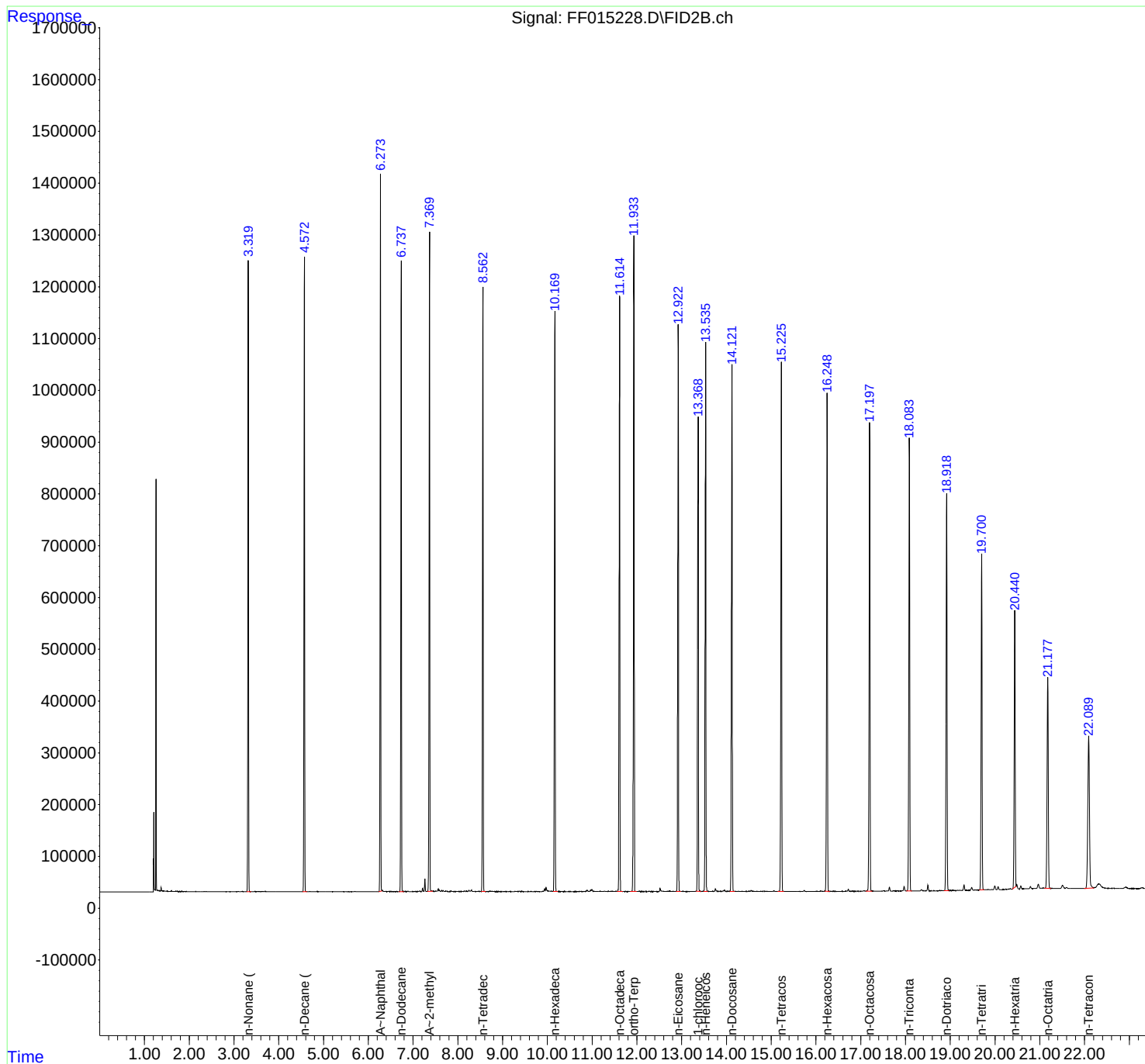
(m)=manual int.

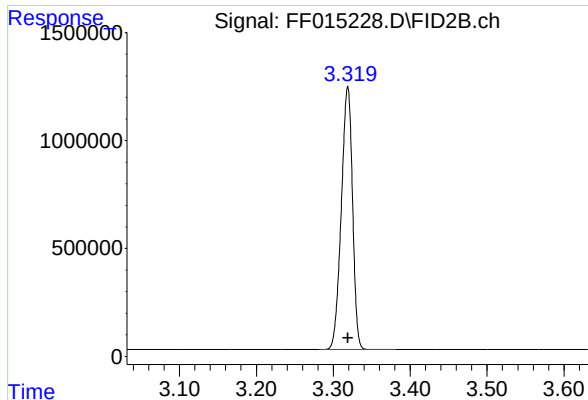
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015228.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 12:54
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 14 14:41:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 14:38:51 2025
Response via : Initial Calibration
Integrator: ChemStation

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

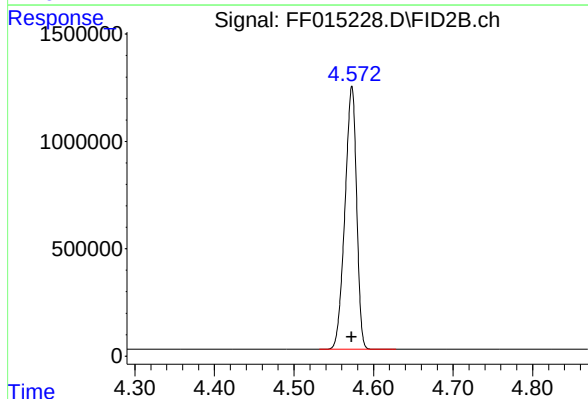




#1 n-Nonane (C9)

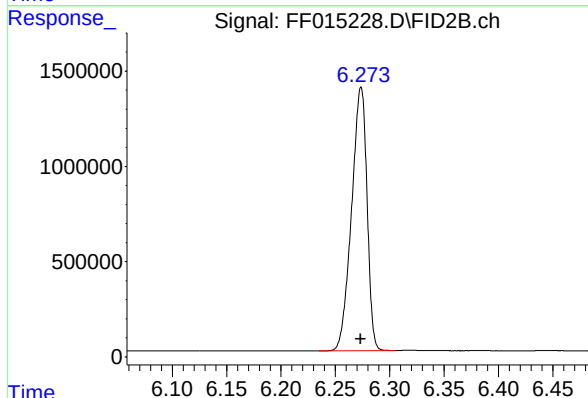
R.T.: 3.319 min
Delta R.T.: 0.000 min
Response: 12288531
Conc: 96.31 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM ALIPHATIC HC STD1



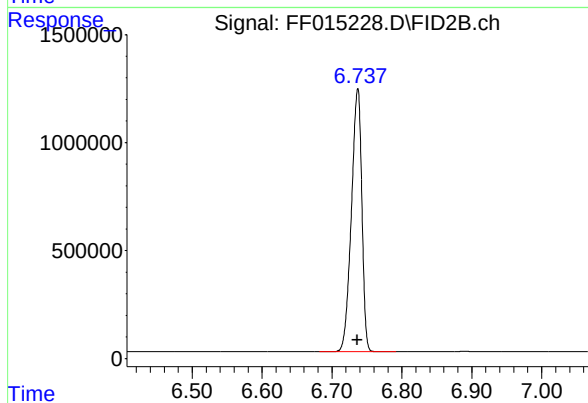
#2 n-Decane (C10)

R.T.: 4.572 min
Delta R.T.: 0.000 min
Response: 12506840
Conc: 96.25 ug/ml



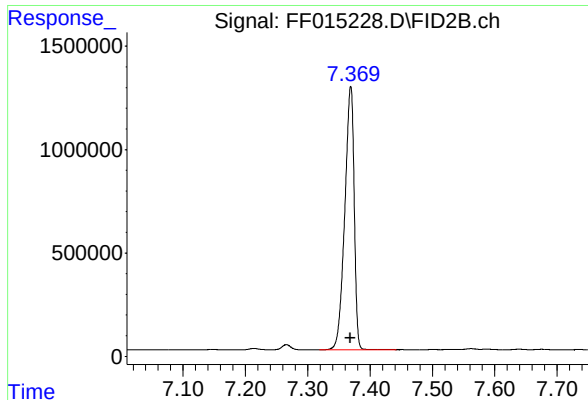
#3 n-Undecane (C11.7)

R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 13644886
Conc: 96.16 ug/ml



#4 n-Dodecane (C12)

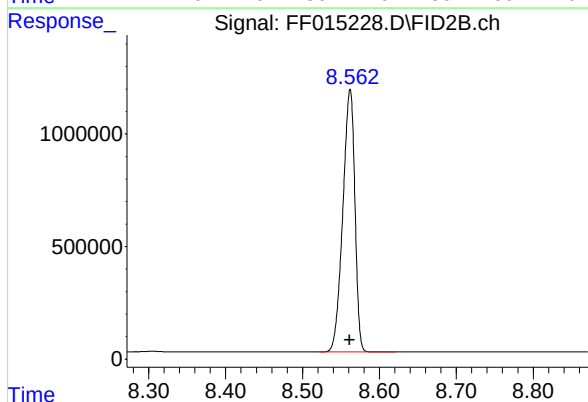
R.T.: 6.737 min
Delta R.T.: 0.000 min
Response: 12637348
Conc: 96.37 ug/ml



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

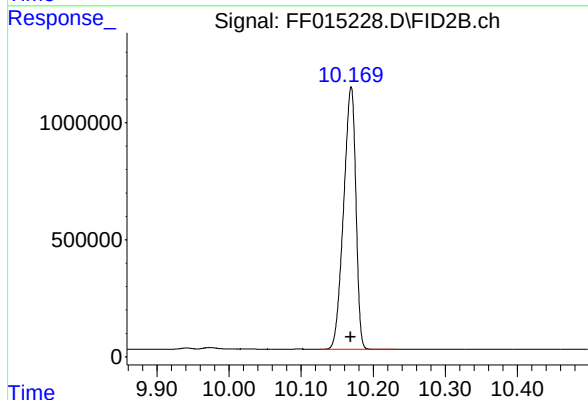
R.T.: 7.368 min
Delta R.T.: 0.000 min
Response: 13336102
Conc: 96.43 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM ALIPHATIC HC STD1



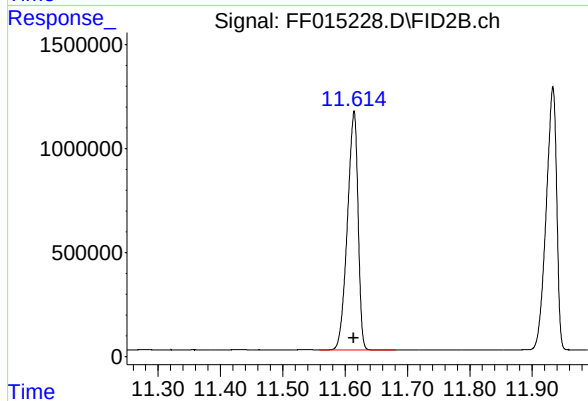
#6 n-Tetradecane (C14)

R.T.: 8.562 min
Delta R.T.: 0.000 min
Response: 12663593
Conc: 96.31 ug/ml



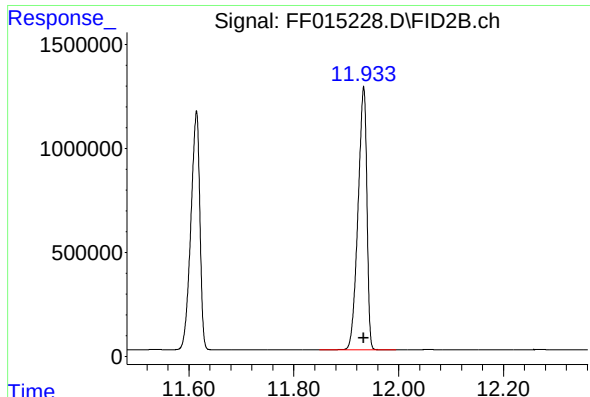
#7 n-Hexadecane (C16)

R.T.: 10.169 min
Delta R.T.: 0.000 min
Response: 13259167
Conc: 95.88 ug/ml



#8 n-Octadecane (C18)

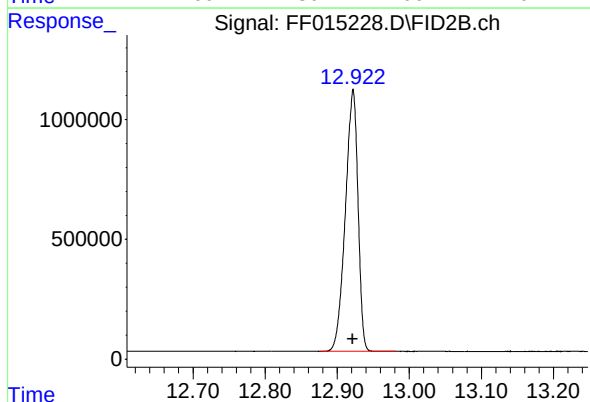
R.T.: 11.614 min
Delta R.T.: 0.000 min
Response: 13610495
Conc: 95.50 ug/ml



#9 ortho-Terphenyl (SURR)

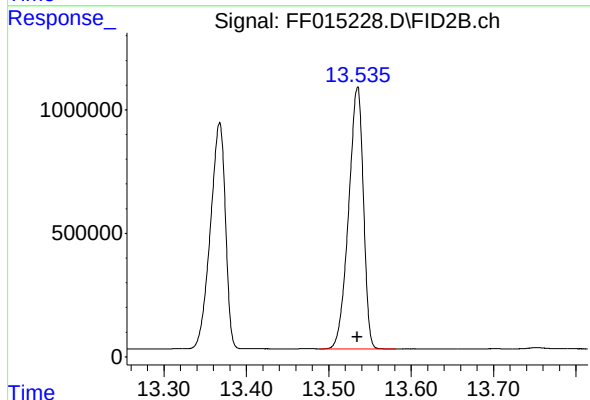
R.T.: 11.933 min
Delta R.T.: 0.000 min
Response: 14803044
Conc: 95.69 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM ALIPHATIC HC STD1



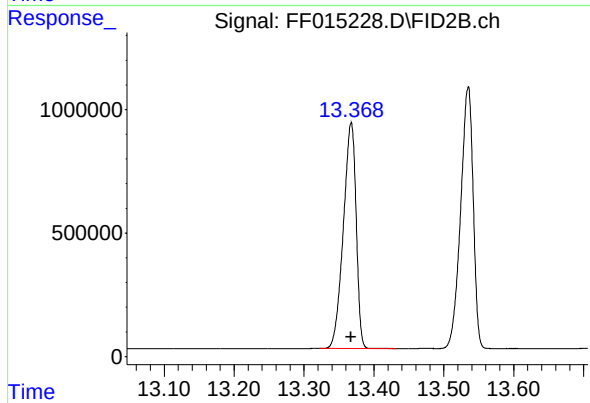
#10 n-Eicosane (C20)

R.T.: 12.922 min
Delta R.T.: 0.000 min
Response: 13326803
Conc: 95.09 ug/ml



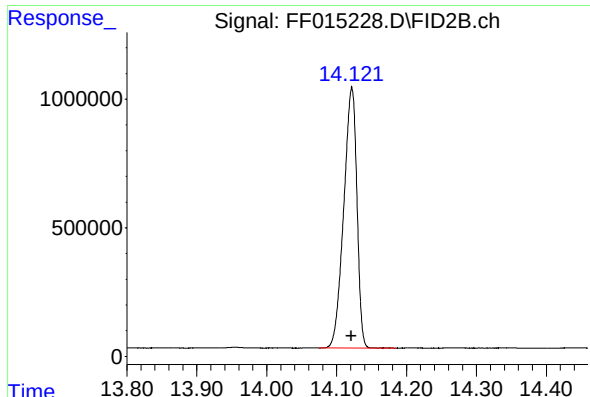
#11 n-Heneicosane (C21)

R.T.: 13.535 min
Delta R.T.: 0.000 min
Response: 13212876
Conc: 95.13 ug/ml



#12 1-chlorooctadecane (SURR)

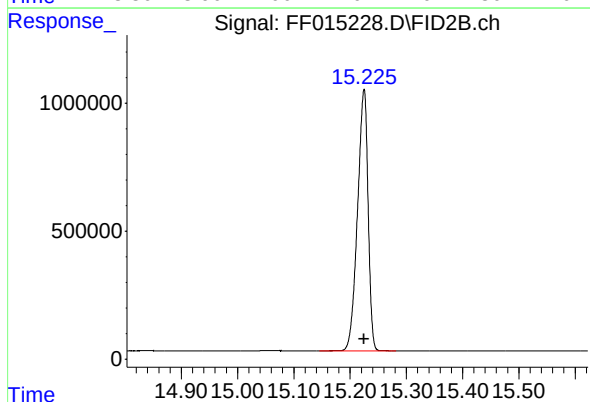
R.T.: 13.367 min
Delta R.T.: 0.000 min
Response: 11613955
Conc: 95.36 ug/ml



#13 n-Docosane (C22)

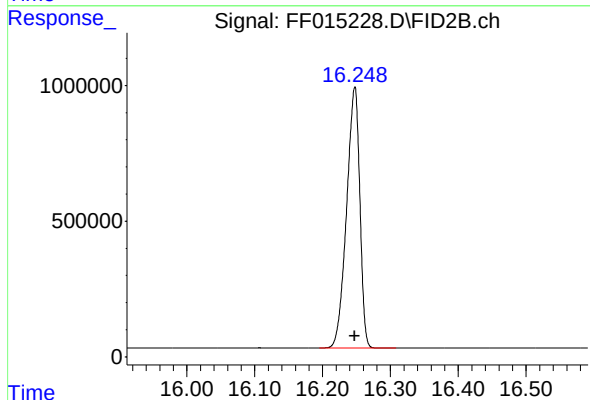
R.T.: 14.121 min
Delta R.T.: 0.000 min
Response: 13242501
Conc: 95.06 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM ALIPHATIC HC STD1



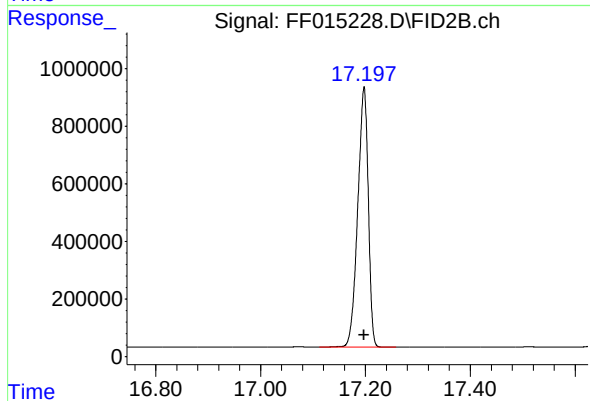
#14 n-Tetracosane (C24)

R.T.: 15.224 min
Delta R.T.: 0.000 min
Response: 13307039
Conc: 94.53 ug/ml



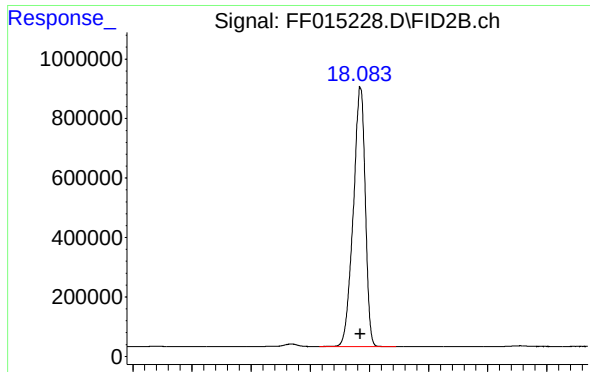
#15 n-Hexacosane (C26)

R.T.: 16.247 min
Delta R.T.: 0.000 min
Response: 13028327
Conc: 94.65 ug/ml



#16 n-Octacosane (C28)

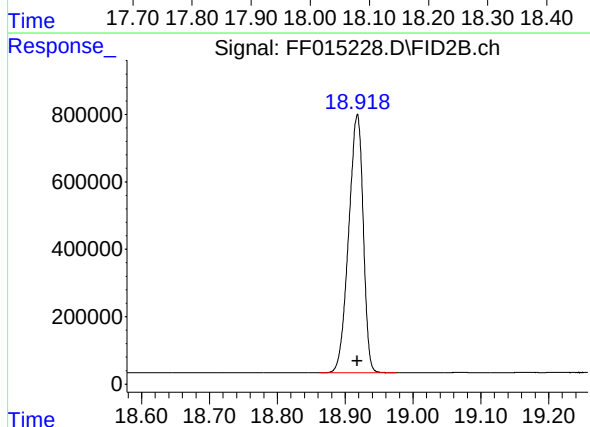
R.T.: 17.197 min
Delta R.T.: 0.000 min
Response: 12584327
Conc: 94.08 ug/ml



#17 n-Tricontane (C30)

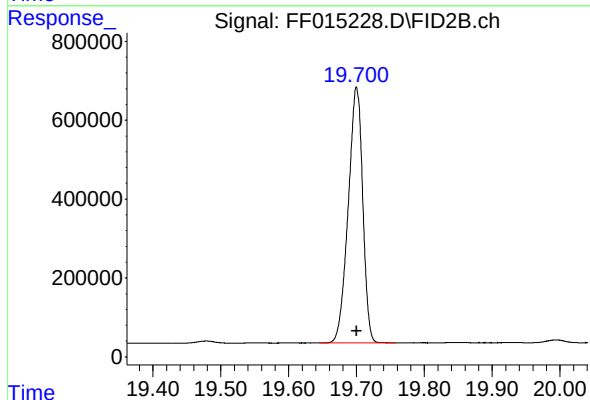
R.T.: 18.085 min
Delta R.T.: 0.000 min
Response: 12325032
Conc: 93.18 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM ALIPHATIC HC STD1



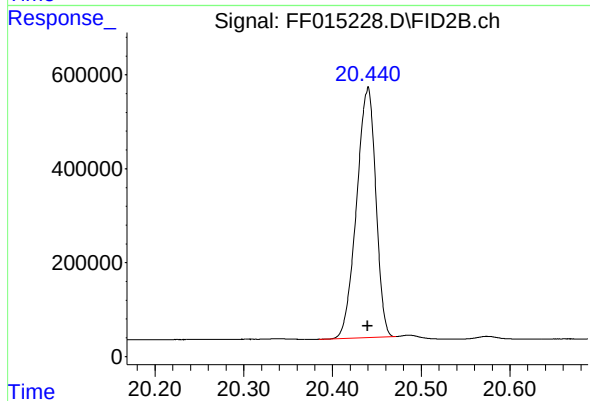
#18 n-Dotriacontane (C32)

R.T.: 18.918 min
Delta R.T.: 0.000 min
Response: 11414286
Conc: 93.08 ug/ml



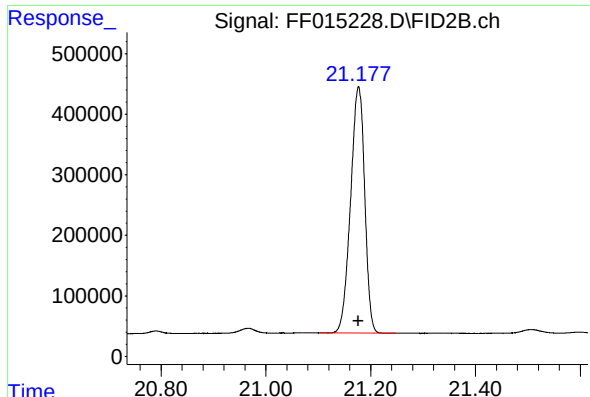
#19 n-Tetatriacontane (C34)

R.T.: 19.700 min
Delta R.T.: 0.000 min
Response: 9634494
Conc: 93.49 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.440 min
Delta R.T.: 0.000 min
Response: 8013382
Conc: 94.26 ug/ml



#21 n-Octatriacontane (C38)

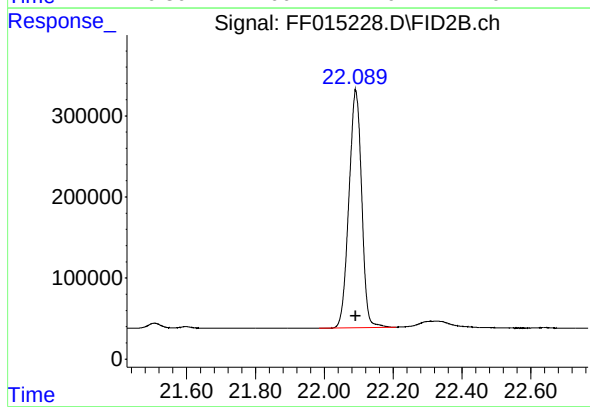
R.T.: 21.177 min
Delta R.T.: 0.000 min
Response: 7610463
Conc: 95.31 ug/ml

Instrument :

FID_F

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.091 min
Delta R.T.: 0.000 min
Response: 7524895
Conc: 96.70 ug/ml

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
 Data File : FF015228.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jan 2025 12:54
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH
 011425.M
 Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.319	3.282	3.382	BB	1215299	12288531	83.01%	4.627%
2	4.572	4.532	4.628	BB	1214843	12506840	84.49%	4.709%
3	6.273	6.235	6.306	BV	1408282	13644886	92.18%	5.138%
4	6.737	6.682	6.792	BB	1202347	12637348	85.37%	4.758%
5	7.368	7.318	7.442	PB	1275259	13336102	90.09%	5.021%
6	8.562	8.522	8.622	BB	1167524	12663593	85.55%	4.768%
7	10.169	10.125	10.232	BB	1117505	13259167	89.57%	4.992%
8	11.614	11.558	11.682	BB	1160300	13610495	91.94%	5.125%
9	11.933	11.848	11.995	BB	1248907	14803044	100.00%	5.574%
10	12.922	12.875	12.982	BB	1087815	13326803	90.03%	5.018%
11	13.367	13.322	13.432	BB	920544	11613955	78.46%	4.373%
12	13.535	13.488	13.582	BB	1063276	13212876	89.26%	4.975%
13	14.121	14.075	14.185	BB	1014742	13242501	89.46%	4.986%
14	15.224	15.145	15.282	BB	1026703	13307039	89.89%	5.010%
15	16.247	16.195	16.308	BB	972349	13028327	88.01%	4.905%
16	17.197	17.112	17.258	BB	905763	12584327	85.01%	4.738%
17	18.085	18.015	18.145	BB	875573	12325032	83.26%	4.641%
18	18.918	18.862	18.975	BB	767257	11414286	77.11%	4.298%
19	19.700	19.645	19.758	BB	645416	9634494	65.08%	3.628%
20	20.440	20.385	20.472	BV	527488	8013382	54.13%	3.017%
21	21.177	21.102	21.248	BB	407004	7610463	51.41%	2.866%
22	22.091	21.985	22.208	BB	292806	7524895	50.83%	2.833%
Sum of corrected areas:							265588386	

Aliphatic EPH 011425.M Tue Jan 14 18:14:26 2025

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
 Data File : FF015229.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jan 2025 13:23
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Jan 14 14:43:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 14:38:51 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)	11.927	7473922	48.862 ug/ml
Spiked Amount 50.000		Recovery =	97.72%
12) S 1-chlorooctadecane (S...	13.363	5871481	48.793 ug/ml
Spiked Amount 50.000		Recovery =	97.59%
Target Compounds			
1) T n-Nonane (C9)	3.316	6173307	48.912 ug/ml
2) T n-Decane (C10)	4.569	6296033	48.958 ug/ml
3) T A~Naphthalene (C11.7)	6.269	6879432	48.979 ug/ml
4) T n-Dodecane (C12)	6.733	6367244	49.028 ug/ml
5) T A~2-methylnaphthalene...	7.364	6684586	48.878 ug/ml
6) T n-Tetradecane (C14)	8.558	6383197	49.020 ug/ml
7) T n-Hexadecane (C16)	10.165	6695723	48.934 ug/ml
8) T n-Octadecane (C18)	11.608	6889558	48.881 ug/ml
10) T n-Eicosane (C20)	12.918	6757719	48.798 ug/ml
11) T n-Heneicosane (C21)	13.531	6690703	48.767 ug/ml
13) T n-Docosane (C22)	14.117	6737631	48.897 ug/ml
14) T n-Tetracosane (C24)	15.220	6796566	48.842 ug/ml
15) T n-Hexacosane (C26)	16.241	6673341	48.978 ug/ml
16) T n-Octacosane (C28)	17.192	6495898	49.031 ug/ml
17) T n-Tricontane (C30)	18.080	6418636	49.009 ug/ml
18) T n-Dotriacontane (C32)	18.913	6014157	49.359 ug/ml
19) T n-Tetratriacontane (C34)	19.697	5024631	49.164 ug/ml
20) T n-Hexatriacontane (C36)	20.437	4129543	49.040 ug/ml
21) T n-Octatriacontane (C38)	21.173	3867451	48.946 ug/ml
22) T n-Tetracontane (C40)	22.090	3844320	49.599 ug/ml

(f)=RT Delta > 1/2 Window

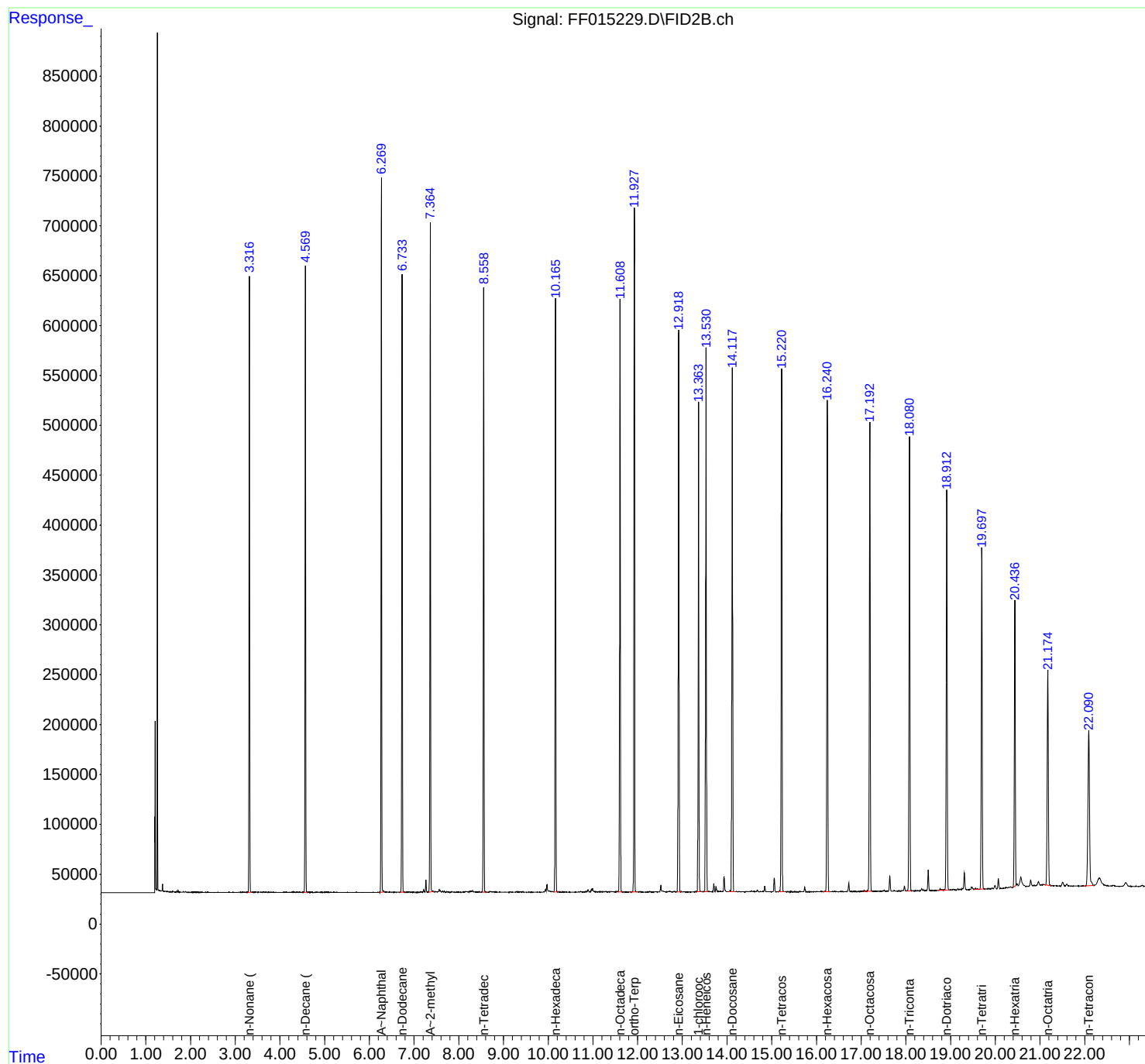
(m)=manual int.

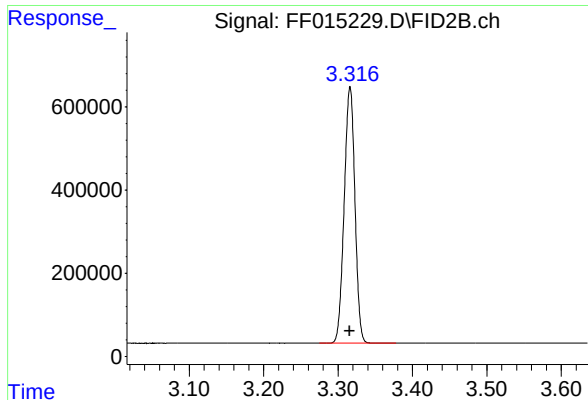
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015229.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 13:23
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 14 14:43:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 14:38:51 2025
Response via : Initial Calibration
Integrator: ChemStation

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

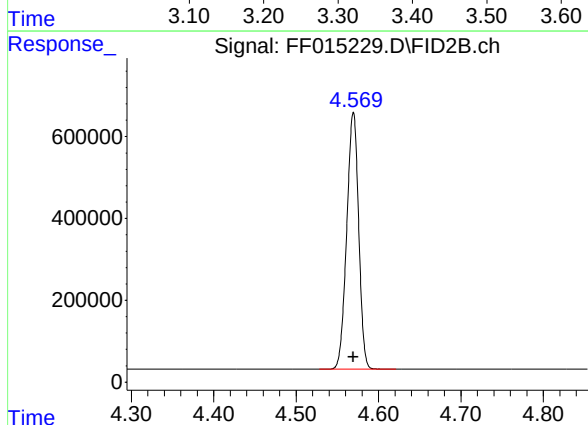




#1 n-Nonane (C9)

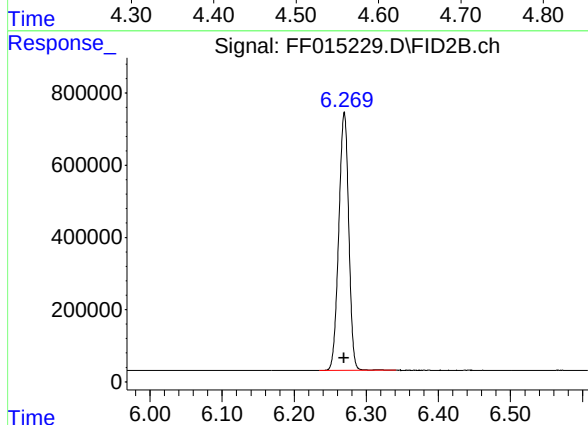
R.T.: 3.316 min
Delta R.T.: 0.000 min
Response: 6173307
Conc: 48.91 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM ALIPHATIC HC STD2



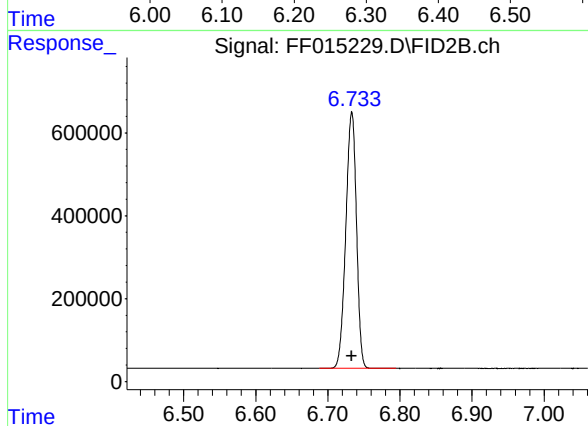
#2 n-Decane (C10)

R.T.: 4.569 min
Delta R.T.: 0.000 min
Response: 6296033
Conc: 48.96 ug/ml



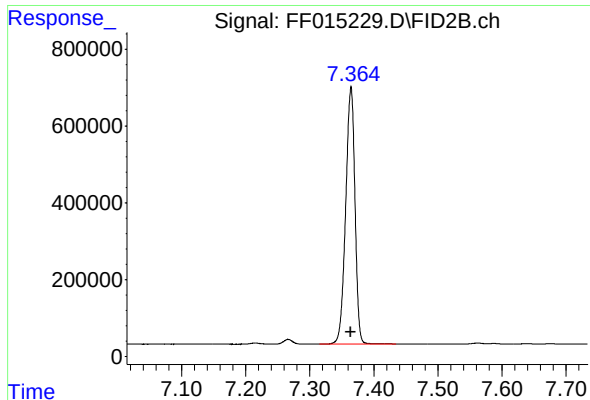
#3 A~Naphthalene (C11.7)

R.T.: 6.269 min
Delta R.T.: 0.000 min
Response: 6879432
Conc: 48.98 ug/ml



#4 n-Dodecane (C12)

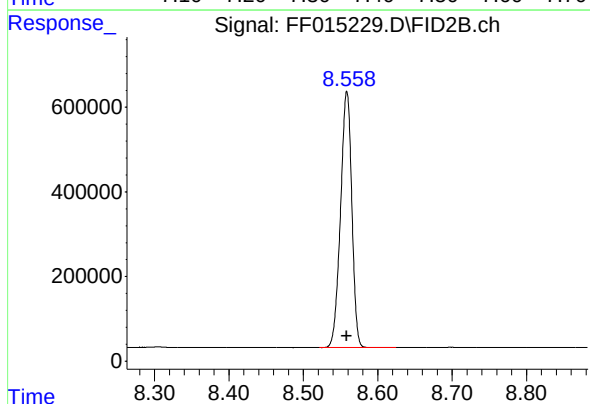
R.T.: 6.733 min
Delta R.T.: 0.000 min
Response: 6367244
Conc: 49.03 ug/ml



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

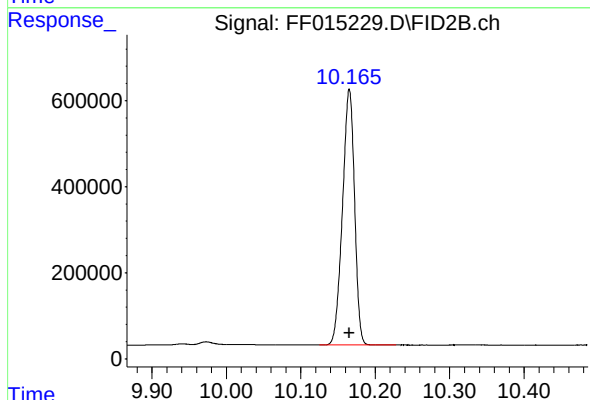
R.T.: 7.364 min
Delta R.T.: 0.000 min
Response: 6684586
Conc: 48.88 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM ALIPHATIC HC STD2



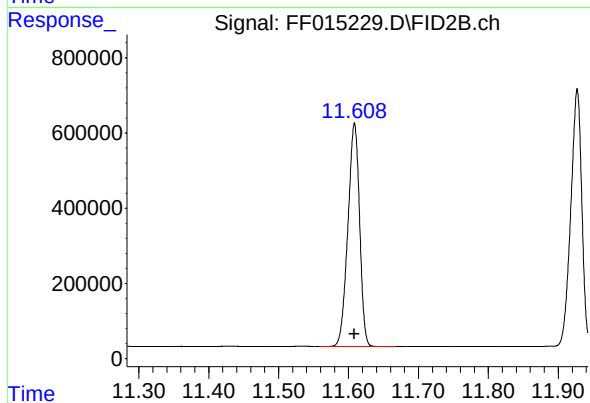
#6 n-Tetradecane (C14)

R.T.: 8.558 min
Delta R.T.: 0.000 min
Response: 6383197
Conc: 49.02 ug/ml



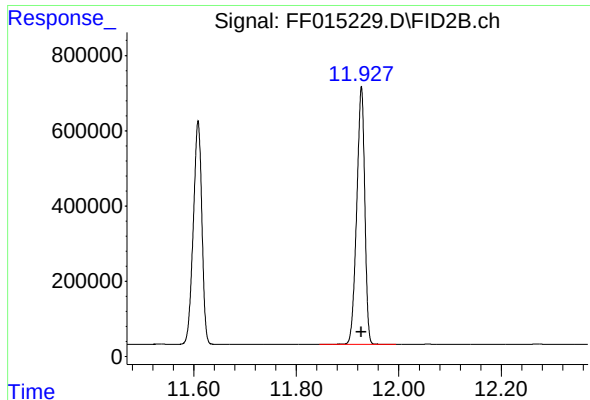
#7 n-Hexadecane (C16)

R.T.: 10.165 min
Delta R.T.: 0.000 min
Response: 6695723
Conc: 48.93 ug/ml



#8 n-Octadecane (C18)

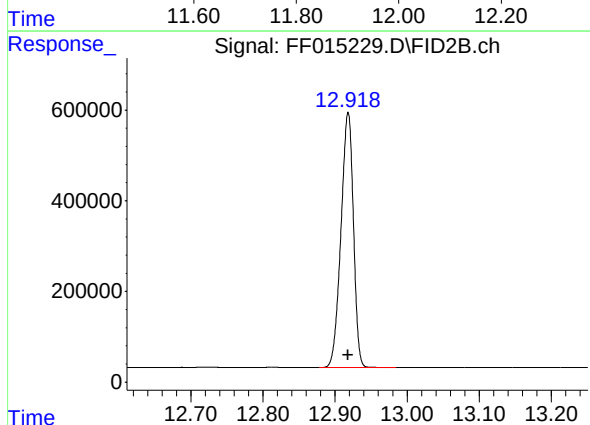
R.T.: 11.608 min
Delta R.T.: 0.000 min
Response: 6889558
Conc: 48.88 ug/ml



#9 ortho-Terphenyl (SURR)

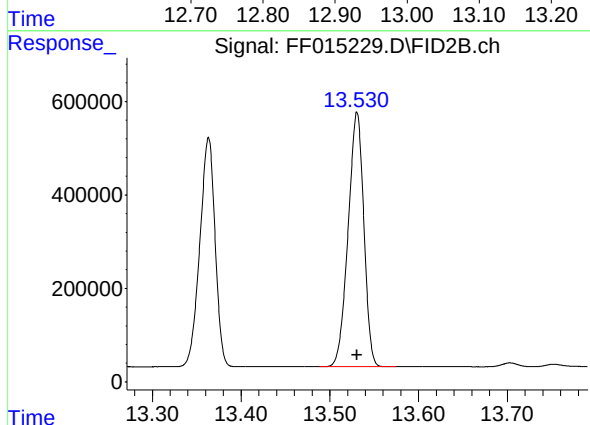
R.T.: 11.927 min
Delta R.T.: 0.000 min
Response: 7473922
Conc: 48.86 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM ALIPHATIC HC STD2



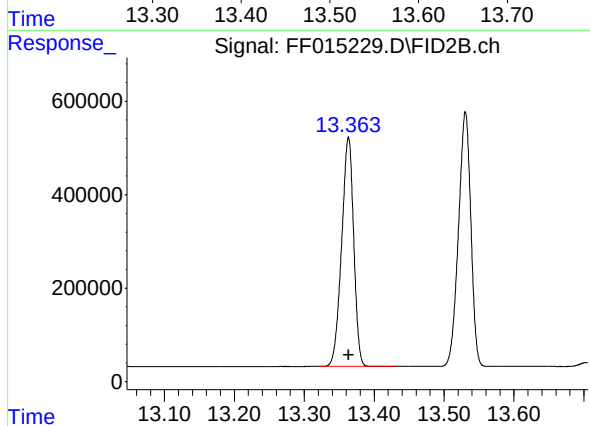
#10 n-Eicosane (C20)

R.T.: 12.918 min
Delta R.T.: 0.000 min
Response: 6757719
Conc: 48.80 ug/ml



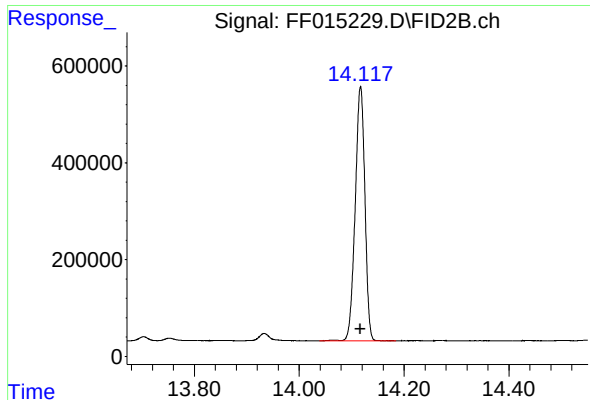
#11 n-Heneicosane (C21)

R.T.: 13.531 min
Delta R.T.: 0.000 min
Response: 6690703
Conc: 48.77 ug/ml



#12 1-chlorooctadecane (SURR)

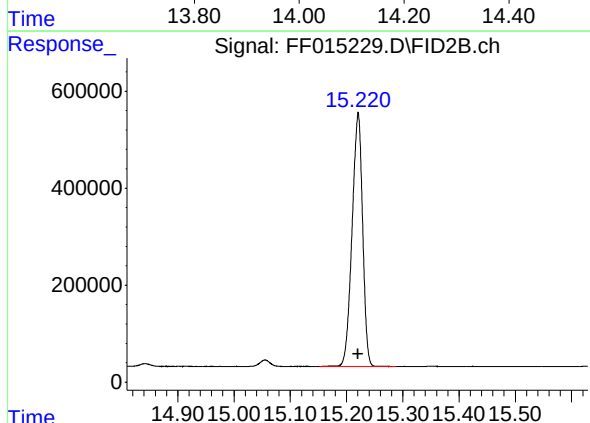
R.T.: 13.363 min
Delta R.T.: 0.000 min
Response: 5871481
Conc: 48.79 ug/ml



#13 n-Docosane (C22)

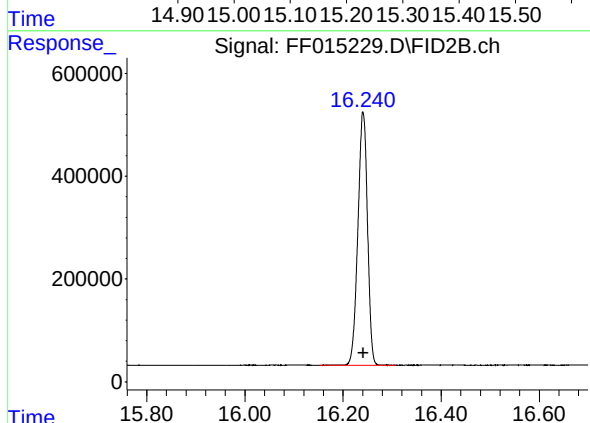
R.T.: 14.117 min
Delta R.T.: 0.000 min
Response: 6737631
Conc: 48.90 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM ALIPHATIC HC STD2



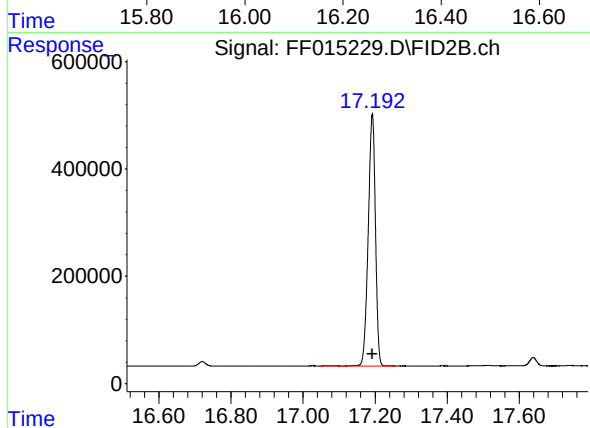
#14 n-Tetracosane (C24)

R.T.: 15.220 min
Delta R.T.: 0.000 min
Response: 6796566
Conc: 48.84 ug/ml



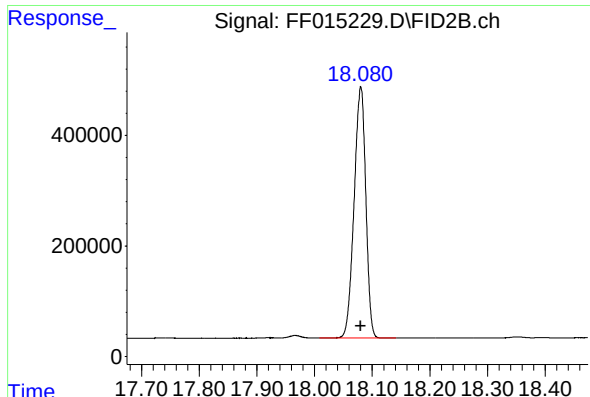
#15 n-Hexacosane (C26)

R.T.: 16.241 min
Delta R.T.: 0.000 min
Response: 6673341
Conc: 48.98 ug/ml



#16 n-Octacosane (C28)

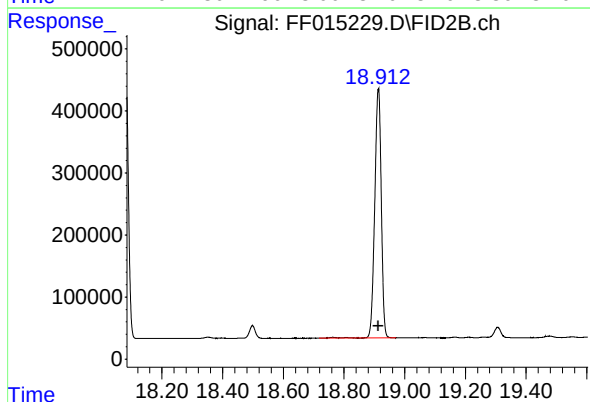
R.T.: 17.192 min
Delta R.T.: 0.000 min
Response: 6495898
Conc: 49.03 ug/ml



#17 n-Tricontane (C30)

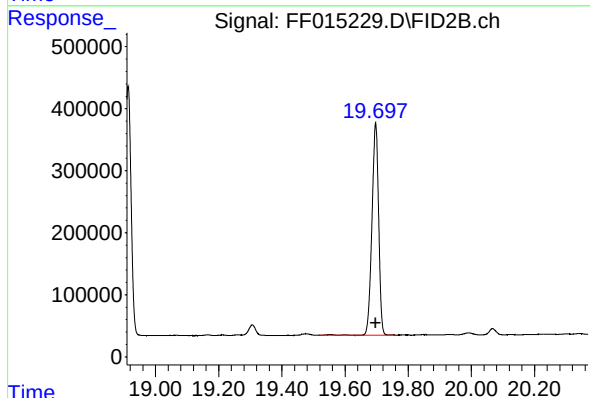
R.T.: 18.080 min
Delta R.T.: 0.000 min
Response: 6418636
Conc: 49.01 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM ALIPHATIC HC STD2



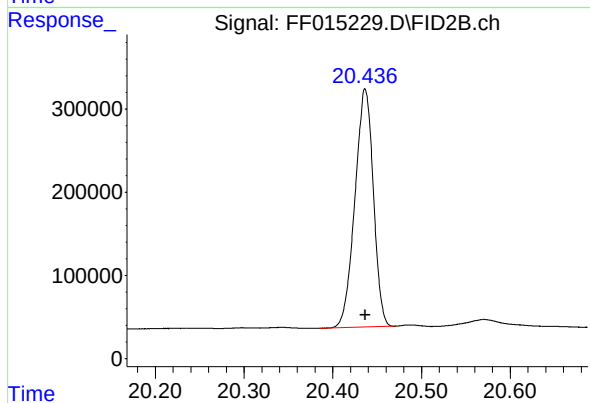
#18 n-Dotriacontane (C32)

R.T.: 18.913 min
Delta R.T.: 0.000 min
Response: 6014157
Conc: 49.36 ug/ml



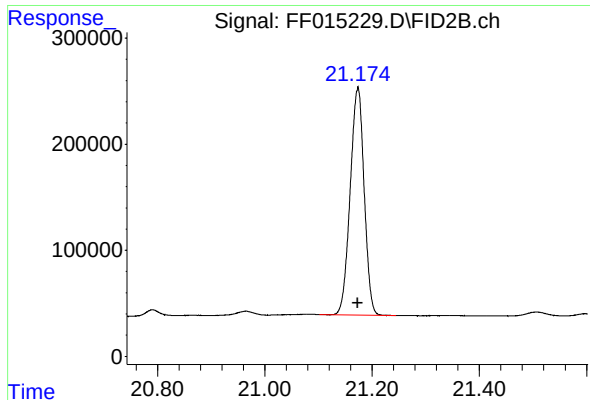
#19 n-Tetatriacontane (C34)

R.T.: 19.697 min
Delta R.T.: 0.000 min
Response: 5024631
Conc: 49.16 ug/ml



#20 n-Hexatriacontane (C36)

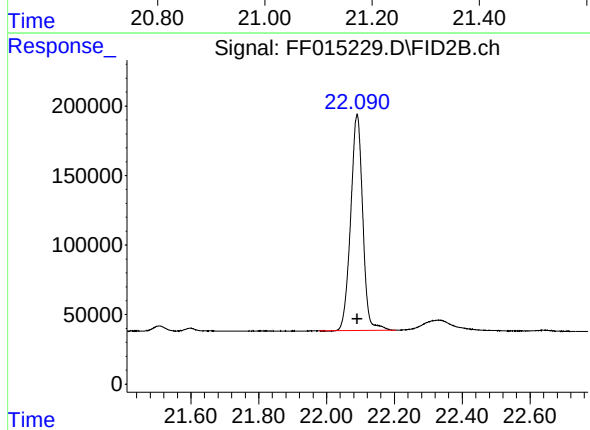
R.T.: 20.437 min
Delta R.T.: 0.000 min
Response: 4129543
Conc: 49.04 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.173 min
Delta R.T.: 0.000 min
Response: 3867451
Conc: 48.95 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.090 min
Delta R.T.: 0.000 min
Response: 3844320
Conc: 49.60 ug/ml

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015229.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 13:23
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH
011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.316	3.275	3.378	BB	612013	6173307	82.60%	4.567%
2	4.569	4.528	4.621	BB	624331	6296033	84.24%	4.658%
3	6.269	6.235	6.341	BB	706763	6879432	92.05%	5.090%
4	6.733	6.688	6.795	BB	622682	6367244	85.19%	4.711%
5	7.364	7.315	7.435	BB	669956	6684586	89.44%	4.945%
6	8.558	8.521	8.625	BB	605503	6383197	85.41%	4.723%
7	10.165	10.125	10.228	BB	593818	6695723	89.59%	4.954%
8	11.608	11.558	11.668	BB	592141	6889558	92.18%	5.097%
9	11.927	11.845	11.995	BB	688148	7473922	100.00%	5.529%
10	12.918	12.878	12.985	BB	563801	6757719	90.42%	5.000%
11	13.363	13.321	13.431	BB	493808	5871481	78.56%	4.344%
12	13.531	13.488	13.575	BB	546883	6690703	89.52%	4.950%
13	14.117	14.038	14.185	BB	526796	6737631	90.15%	4.985%
14	15.220	15.151	15.288	BB	524667	6796566	90.94%	5.028%
15	16.241	16.151	16.308	BB	492183	6673341	89.29%	4.937%
16	17.192	17.045	17.258	BB	468351	6495898	86.91%	4.806%
17	18.080	18.008	18.141	BB	457761	6418636	85.88%	4.749%
18	18.913	18.718	18.971	BB	403408	6014157	80.47%	4.449%
19	19.697	19.518	19.761	BB	341922	5024631	67.23%	3.717%
20	20.437	20.385	20.471	BV	285203	4129543	55.25%	3.055%
21	21.173	21.101	21.245	BB	214859	3867451	51.75%	2.861%
22	22.090	21.978	22.205	BB	155532	3844320	51.44%	2.844%
Sum of corrected areas:						135165079		

Aliphatic EPH 011425.M Tue Jan 14 18:14:57 2025

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
 Data File : FF015230.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jan 2025 14:01
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Jan 14 14:39:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 14:38:51 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)	11.920	3227403	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.358	2548697	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.302	2645794	20.000 ug/ml
2) T n-Decane (C10)	4.556	2696276	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.259	2946721	20.000 ug/ml
4) T n-Dodecane (C12)	6.723	2717761	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.354	2864501	20.000 ug/ml
6) T n-Tetradecane (C14)	8.551	2726969	20.000 ug/ml
7) T n-Hexadecane (C16)	10.158	2879736	20.000 ug/ml
8) T n-Octadecane (C18)	11.602	2978815	20.000 ug/ml
10) T n-Eicosane (C20)	12.913	2940634	20.000 ug/ml
11) T n-Heneicosane (C21)	13.526	2912900	20.000 ug/ml
13) T n-Docosane (C22)	14.112	2924017	20.000 ug/ml
14) T n-Tetracosane (C24)	15.215	2969264	20.000 ug/ml
15) T n-Hexacosane (C26)	16.239	2900118	20.000 ug/ml
16) T n-Octacosane (C28)	17.188	2833858	20.000 ug/ml
17) T n-Tricontane (C30)	18.077	2825626	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.909	2622183	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.693	2195313	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.434	1797979	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.172	1671820	20.000 ug/ml
22) T n-Tetracontane (C40)	22.087	1607763	20.000 ug/ml

(f)=RT Delta > 1/2 Window

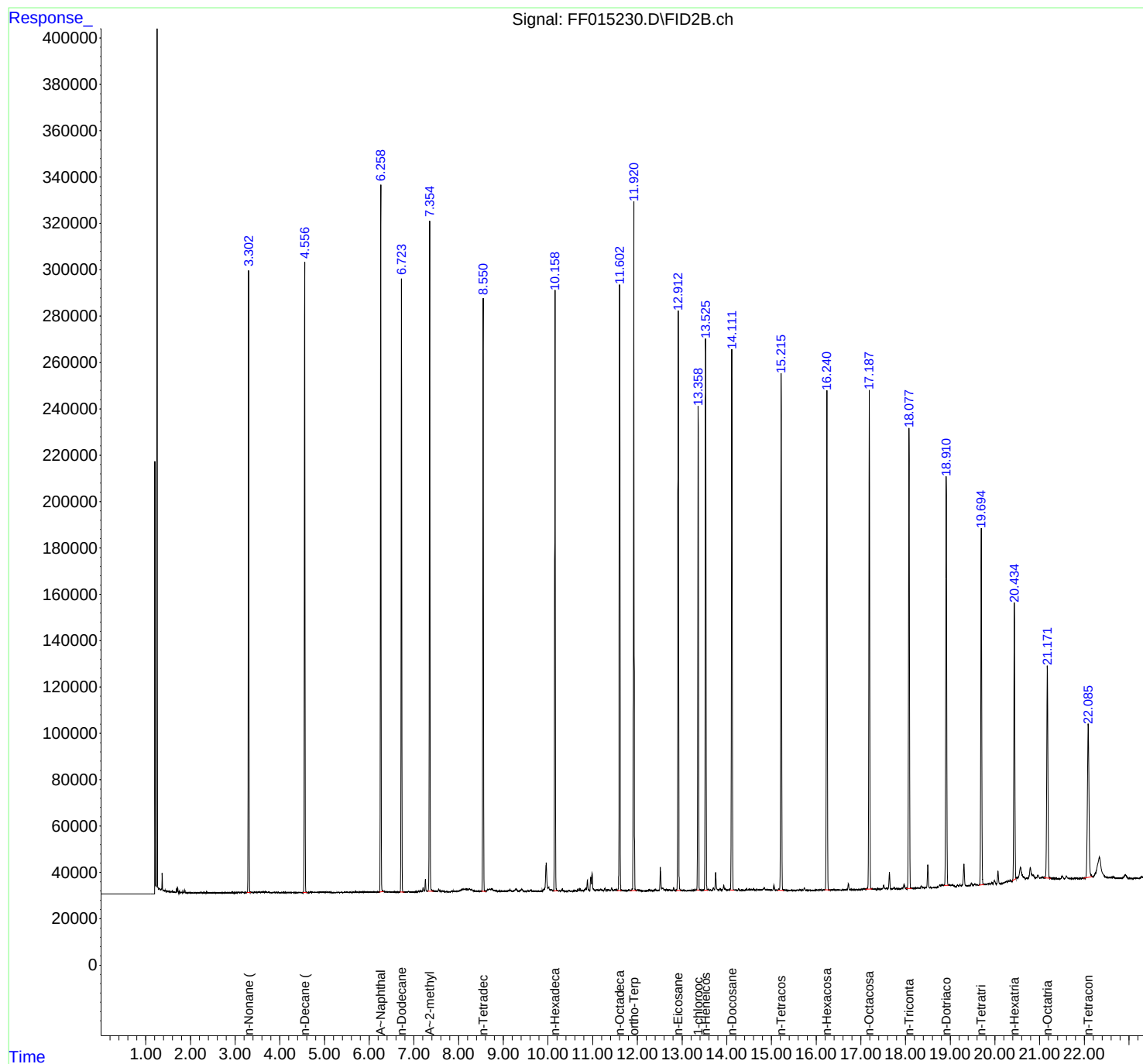
(m)=manual int.

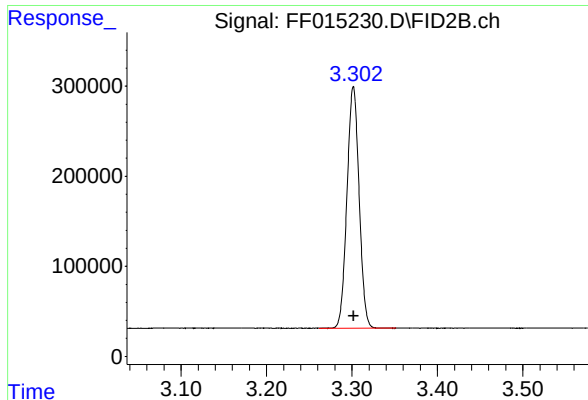
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015230.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 14:01
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 14 14:39:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 14:38:51 2025
Response via : Initial Calibration
Integrator: ChemStation

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

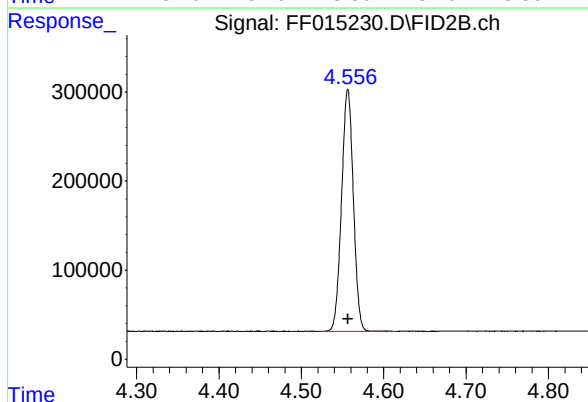




#1 n-Nonane (C9)

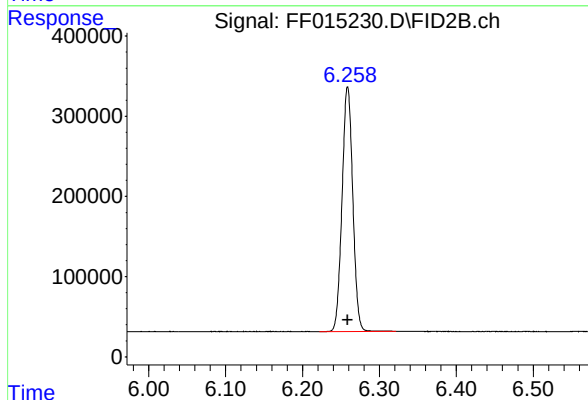
R.T.: 3.302 min
Delta R.T.: 0.000 min
Response: 2645794
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD3



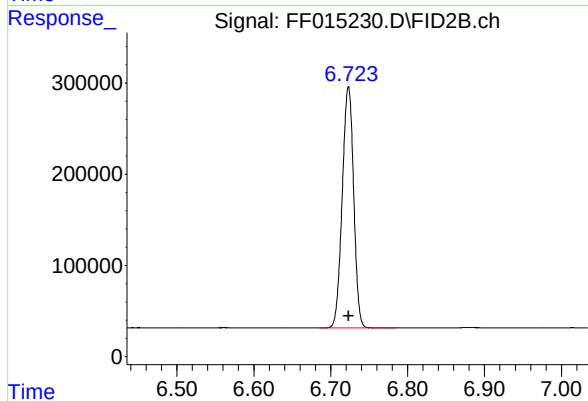
#2 n-Decane (C10)

R.T.: 4.556 min
Delta R.T.: 0.000 min
Response: 2696276
Conc: 20.00 ug/ml



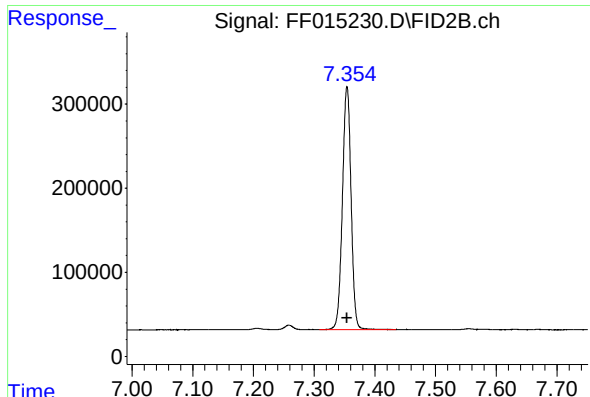
#3 A~Naphthalene (C11.7)

R.T.: 6.259 min
Delta R.T.: 0.000 min
Response: 2946721
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

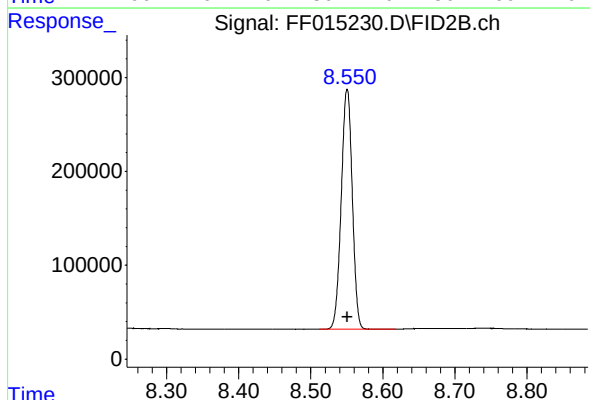
R.T.: 6.723 min
Delta R.T.: 0.000 min
Response: 2717761
Conc: 20.00 ug/ml



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

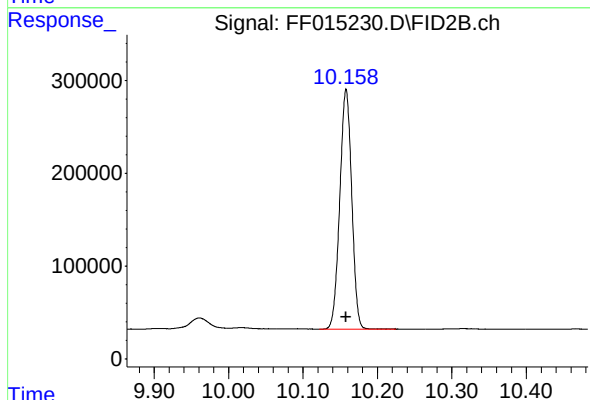
R.T.: 7.354 min
Delta R.T.: 0.000 min
Response: 2864501
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD3



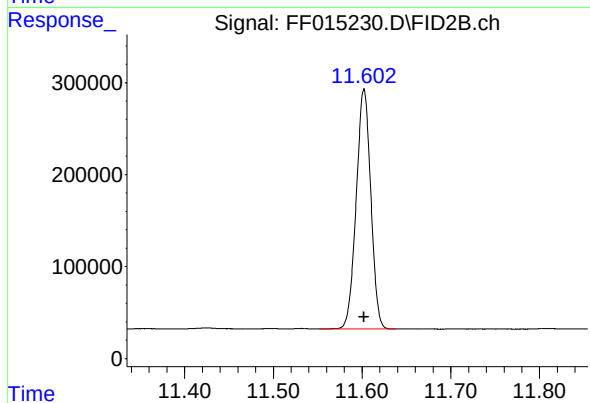
#6 n-Tetradecane (C14)

R.T.: 8.551 min
Delta R.T.: 0.000 min
Response: 2726969
Conc: 20.00 ug/ml



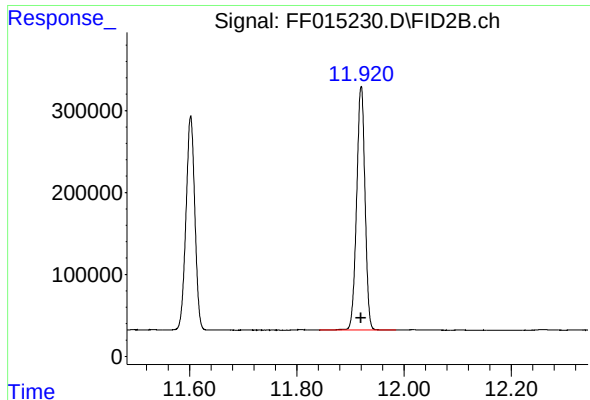
#7 n-Hexadecane (C16)

R.T.: 10.158 min
Delta R.T.: 0.000 min
Response: 2879736
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

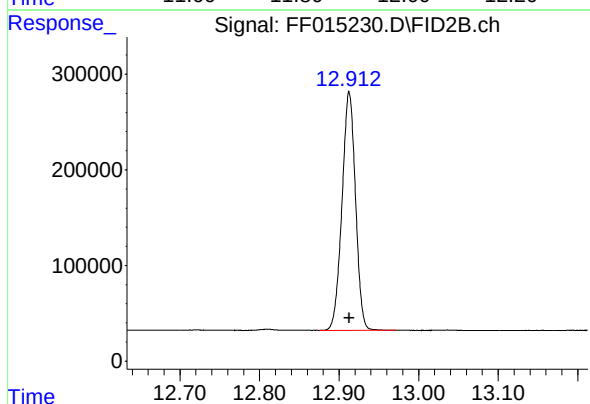
R.T.: 11.602 min
Delta R.T.: 0.000 min
Response: 2978815
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

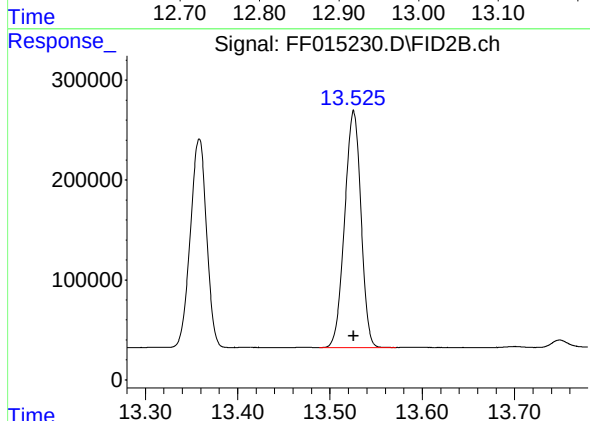
R.T.: 11.920 min
Delta R.T.: 0.000 min
Response: 3227403
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD3



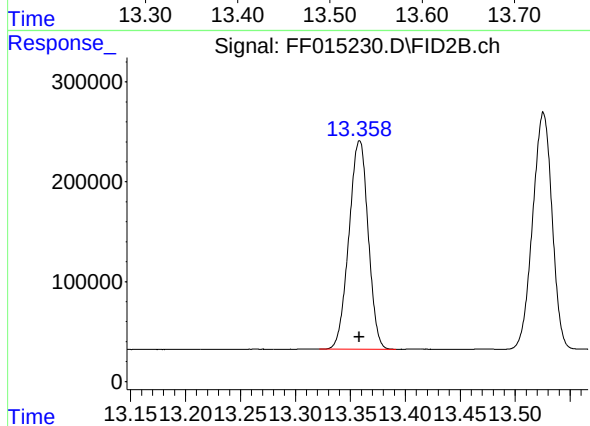
#10 n-Eicosane (C20)

R.T.: 12.913 min
Delta R.T.: 0.000 min
Response: 2940634
Conc: 20.00 ug/ml



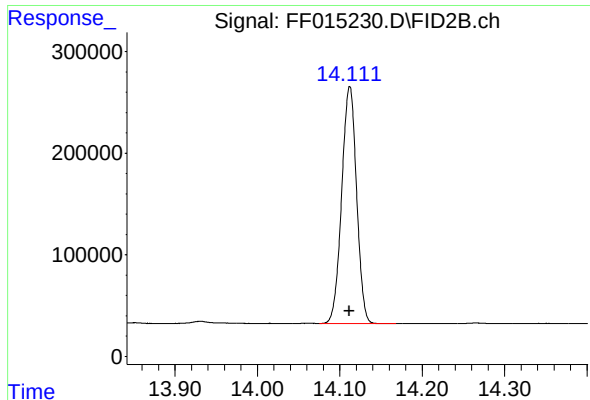
#11 n-Heneicosane (C21)

R.T.: 13.526 min
Delta R.T.: 0.000 min
Response: 2912900
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

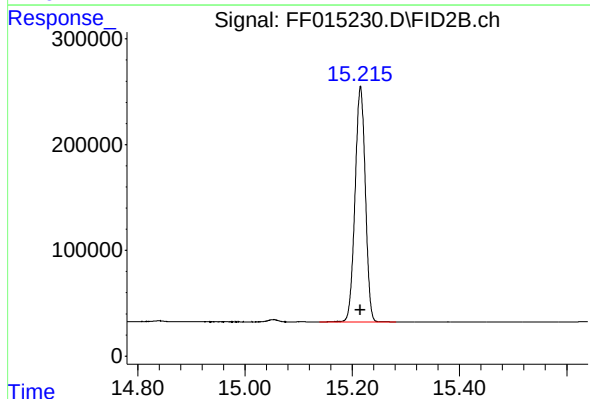
R.T.: 13.358 min
Delta R.T.: 0.000 min
Response: 2548697
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

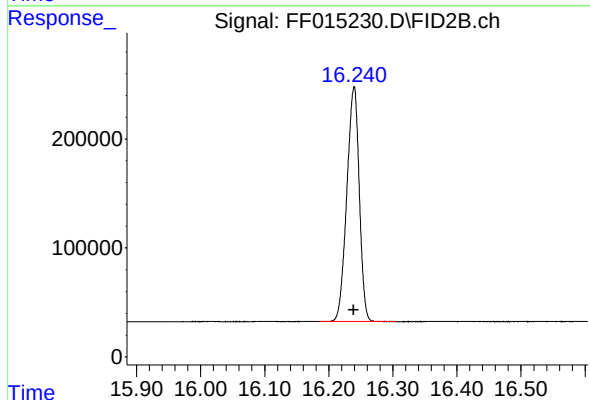
R.T.: 14.112 min
Delta R.T.: 0.000 min
Response: 2924017
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD3



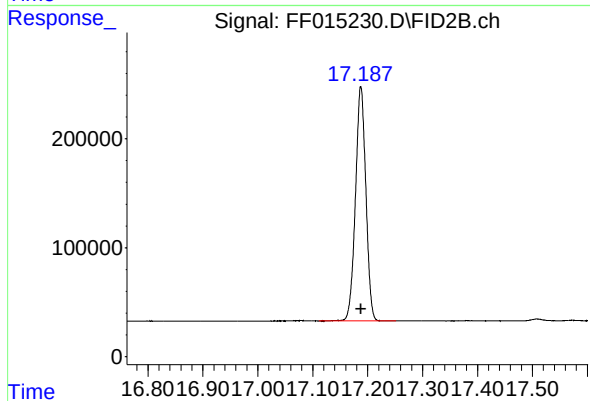
#14 n-Tetracosane (C24)

R.T.: 15.215 min
Delta R.T.: 0.000 min
Response: 2969264
Conc: 20.00 ug/ml



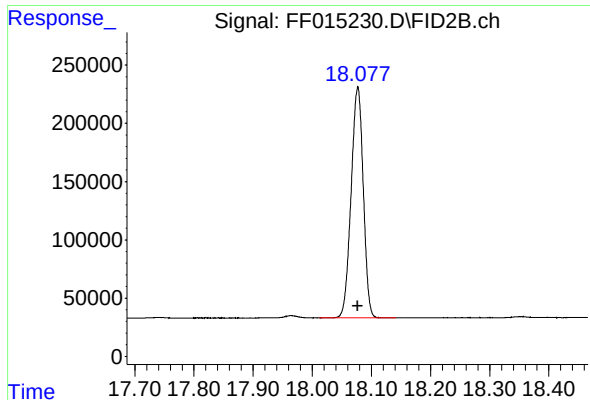
#15 n-Hexacosane (C26)

R.T.: 16.239 min
Delta R.T.: 0.000 min
Response: 2900118
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

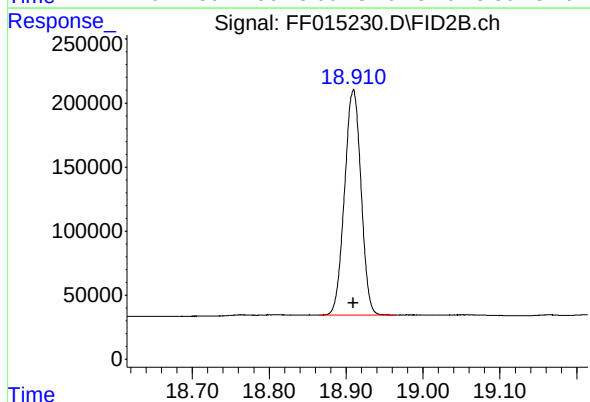
R.T.: 17.188 min
Delta R.T.: 0.000 min
Response: 2833858
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

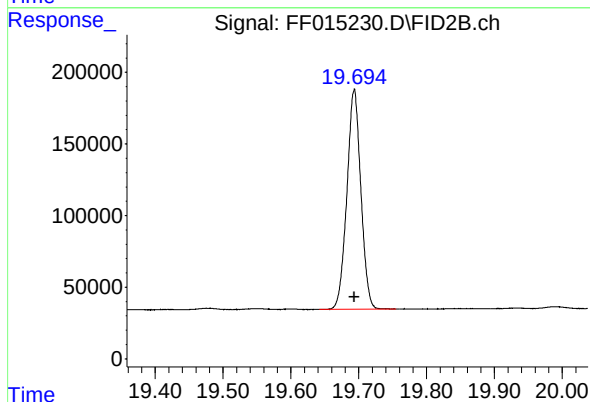
R.T.: 18.077 min
Delta R.T.: 0.000 min
Response: 2825626
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD3



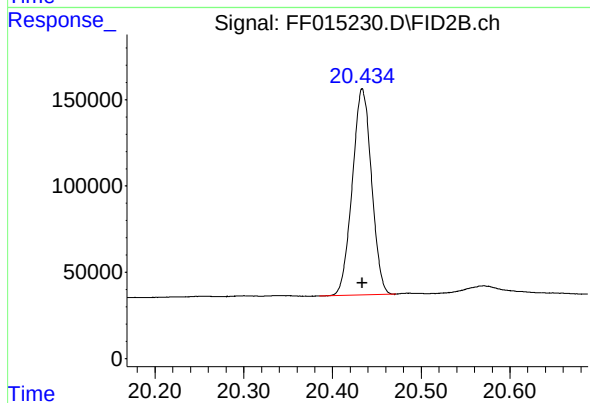
#18 n-Dotriacontane (C32)

R.T.: 18.909 min
Delta R.T.: 0.000 min
Response: 2622183
Conc: 20.00 ug/ml



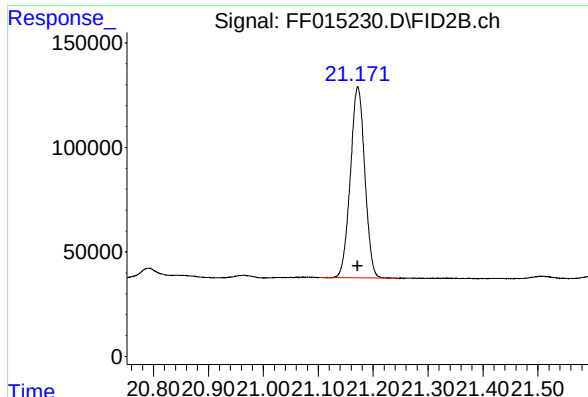
#19 n-Tetatriacontane (C34)

R.T.: 19.693 min
Delta R.T.: 0.000 min
Response: 2195313
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

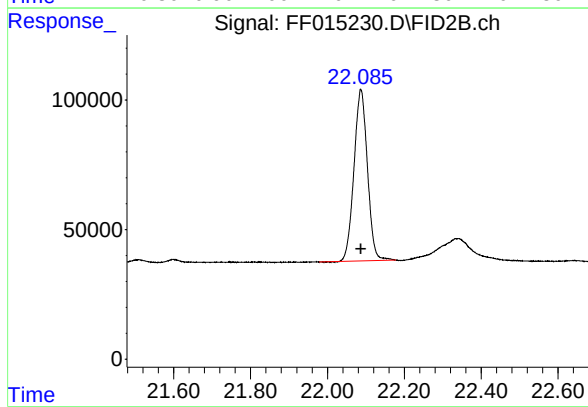
R.T.: 20.434 min
Delta R.T.: 0.000 min
Response: 1797979
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.172 min
Delta R.T.: 0.000 min
Response: 1671820
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.087 min
Delta R.T.: 0.000 min
Response: 1607763
Conc: 20.00 ug/ml

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015230.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 14:01
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH
011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.302	3.262	3.352	BB	268399	2645794	81.98%	4.528%
2	4.556	4.522	4.615	BB	270031	2696276	83.54%	4.614%
3	6.259	6.222	6.322	BB	305594	2946721	91.30%	5.043%
4	6.723	6.685	6.785	BB	263216	2717761	84.21%	4.651%
5	7.354	7.308	7.435	BB	289873	2864501	88.76%	4.902%
6	8.551	8.512	8.618	BB	257067	2726969	84.49%	4.667%
7	10.158	10.122	10.225	BB	258355	2879736	89.23%	4.928%
8	11.602	11.552	11.638	BB	260933	2978815	92.30%	5.098%
9	11.920	11.842	11.985	BB	300170	3227403	100.00%	5.523%
10	12.913	12.875	12.972	BB	248671	2940634	91.11%	5.032%
11	13.358	13.322	13.392	BB	208967	2548697	78.97%	4.362%
12	13.526	13.488	13.572	BB	236608	2912900	90.26%	4.985%
13	14.112	14.075	14.168	BB	233536	2924017	90.60%	5.004%
14	15.215	15.138	15.282	BB	222216	2969264	92.00%	5.081%
15	16.239	16.185	16.305	BB	214637	2900118	89.86%	4.963%
16	17.188	17.112	17.252	BB	215418	2833858	87.81%	4.850%
17	18.077	18.012	18.142	BB	198780	2825626	87.55%	4.836%
18	18.909	18.865	18.965	BB	175164	2622183	81.25%	4.487%
19	19.693	19.642	19.755	BB	153394	2195313	68.02%	3.757%
20	20.434	20.385	20.472	BV	118530	1797979	55.71%	3.077%
21	21.172	21.102	21.242	BB	91424	1671820	51.80%	2.861%
22	22.087	21.978	22.178	BB	66057	1607763	49.82%	2.751%
Sum of corrected areas:						58434149		

Aliphatic EPH 011425.M Tue Jan 14 18:15:16 2025

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
 Data File : FF015231.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jan 2025 14:29
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Jan 14 14:45:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 14:38:51 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)	11.921	1715465	10.884 ug/ml
Spiked Amount 50.000		Recovery =	21.77%
12) S 1-chlorooctadecane (S...	13.358	1340917	10.834 ug/ml
Spiked Amount 50.000		Recovery =	21.67%
Target Compounds			
1) T n-Nonane (C9)	3.313	1419051	10.904 ug/ml
2) T n-Decane (C10)	4.566	1445970	10.905 ug/ml
3) T A~Naphthalene (C11.7)	6.267	1565148	10.834 ug/ml
4) T n-Dodecane (C12)	6.729	1454028	10.871 ug/ml
5) T A~2-methylnaphthalene...	7.361	1507370	10.747 ug/ml
6) T n-Tetradecane (C14)	8.555	1456275	10.862 ug/ml
7) T n-Hexadecane (C16)	10.161	1526186	10.841 ug/ml
8) T n-Octadecane (C18)	11.604	1579981	10.881 ug/ml
10) T n-Eicosane (C20)	12.914	1556715	10.903 ug/ml
11) T n-Heneicosane (C21)	13.526	1541314	10.898 ug/ml
13) T n-Docosane (C22)	14.112	1547397	10.895 ug/ml
14) T n-Tetracosane (C24)	15.216	1563755	10.900 ug/ml
15) T n-Hexacosane (C26)	16.237	1537116	10.931 ug/ml
16) T n-Octacosane (C28)	17.188	1500151	10.961 ug/ml
17) T n-Tricontane (C30)	18.075	1500605	11.055 ug/ml
18) T n-Dotriacontane (C32)	18.910	1408194	11.124 ug/ml
19) T n-Tetratriacontane (C34)	19.695	1168997	11.041 ug/ml
20) T n-Hexatriacontane (C36)	20.434	933456	10.792 ug/ml
21) T n-Octatriacontane (C38)	21.171	885440	10.878 ug/ml
22) T n-Tetracontane (C40)	22.086	879594	10.978 ug/ml

(f)=RT Delta > 1/2 Window

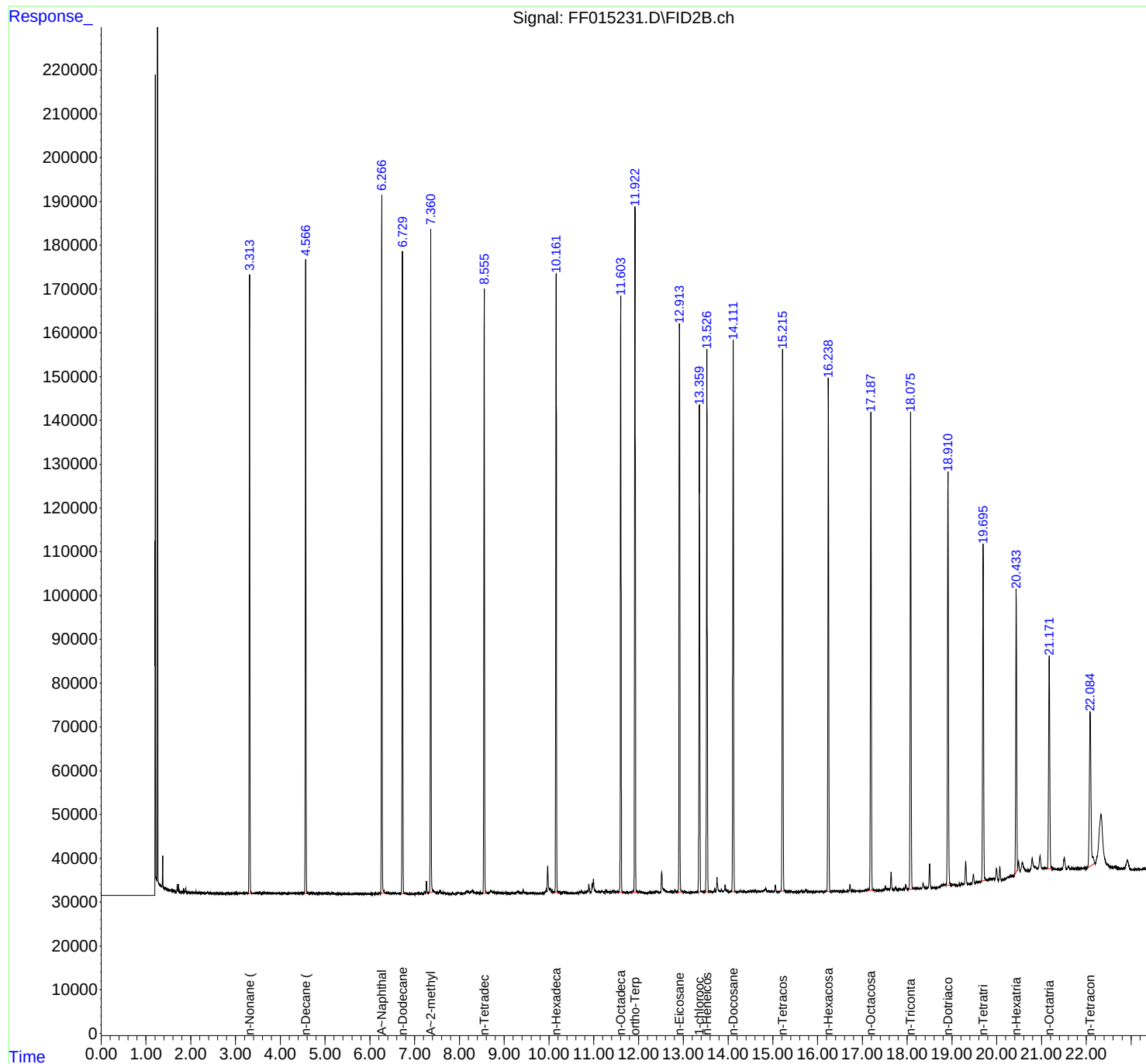
(m)=manual int.

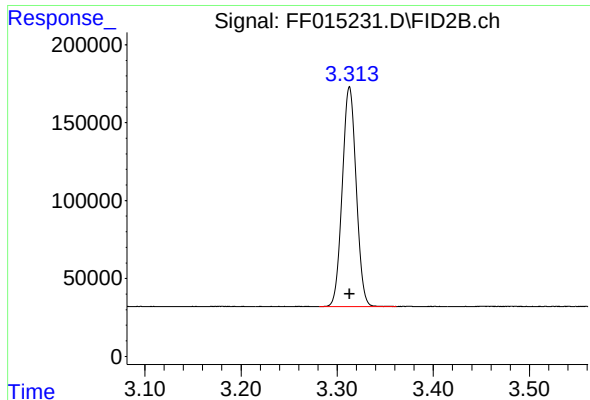
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015231.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 14:29
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 14 14:45:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 14:38:51 2025
Response via : Initial Calibration
Integrator: ChemStation

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

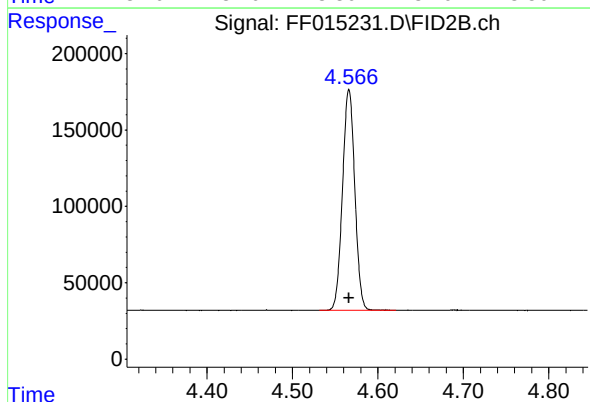




#1 n-Nonane (C9)

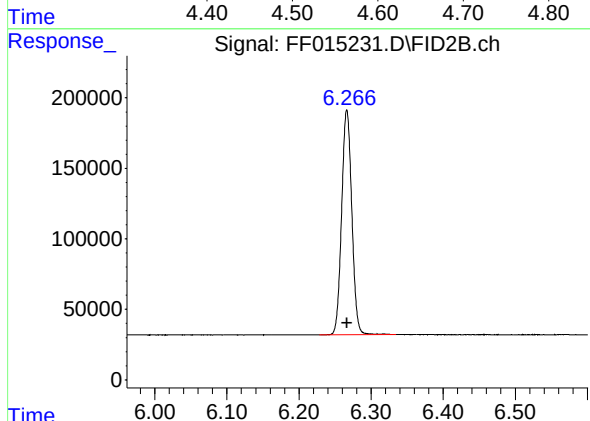
R.T.: 3.313 min
Delta R.T.: 0.000 min
Response: 1419051
Conc: 10.90 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM ALIPHATIC HC STD4



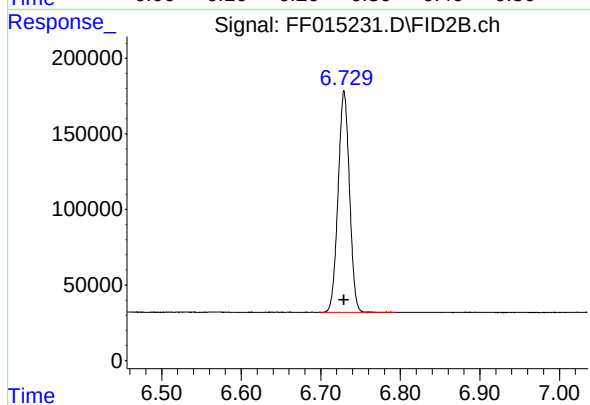
#2 n-Decane (C10)

R.T.: 4.566 min
Delta R.T.: 0.000 min
Response: 1445970
Conc: 10.90 ug/ml



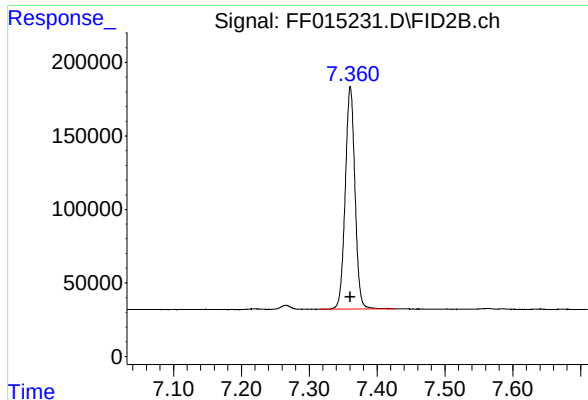
#3 A~Naphthalene (C11.7)

R.T.: 6.267 min
Delta R.T.: 0.000 min
Response: 1565148
Conc: 10.83 ug/ml



#4 n-Dodecane (C12)

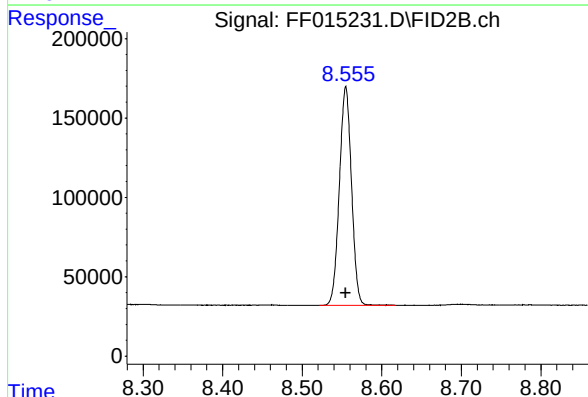
R.T.: 6.729 min
Delta R.T.: 0.000 min
Response: 1454028
Conc: 10.87 ug/ml



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

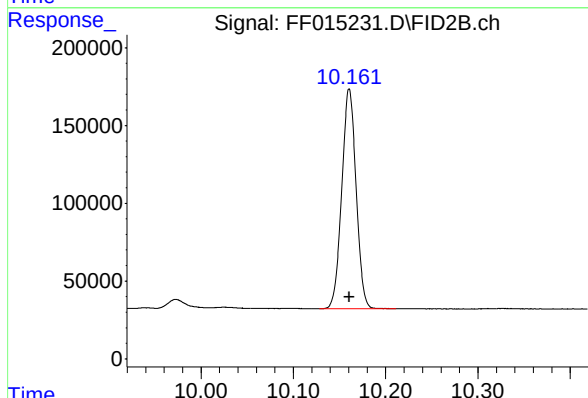
R.T.: 7.361 min
Delta R.T.: 0.000 min
Response: 1507370
Conc: 10.75 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM ALIPHATIC HC STD4



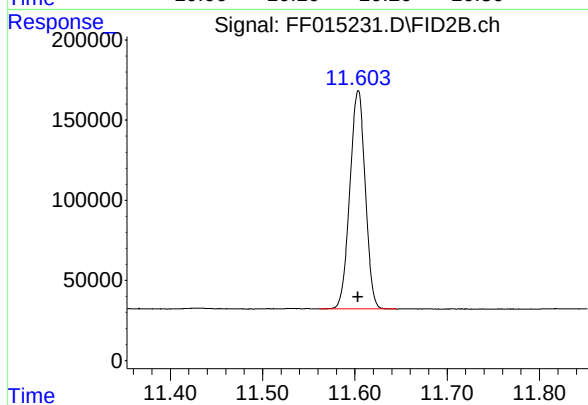
#6 n-Tetradecane (C14)

R.T.: 8.555 min
Delta R.T.: 0.000 min
Response: 1456275
Conc: 10.86 ug/ml



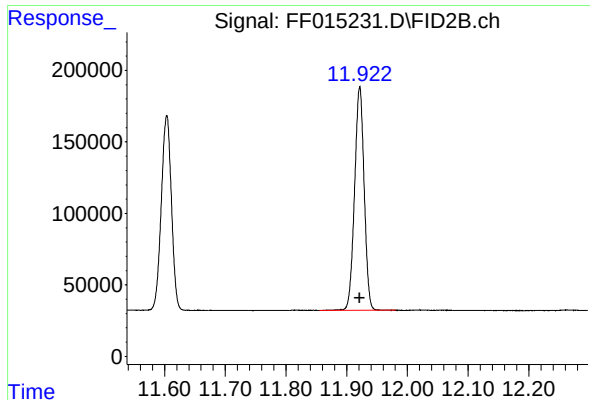
#7 n-Hexadecane (C16)

R.T.: 10.161 min
Delta R.T.: 0.000 min
Response: 1526186
Conc: 10.84 ug/ml



#8 n-Octadecane (C18)

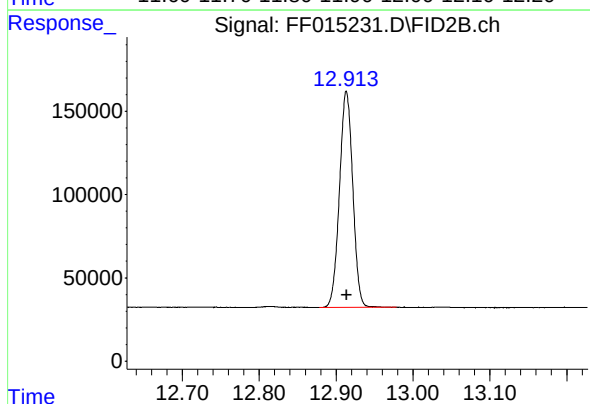
R.T.: 11.604 min
Delta R.T.: 0.000 min
Response: 1579981
Conc: 10.88 ug/ml



#9 ortho-Terphenyl (SURR)

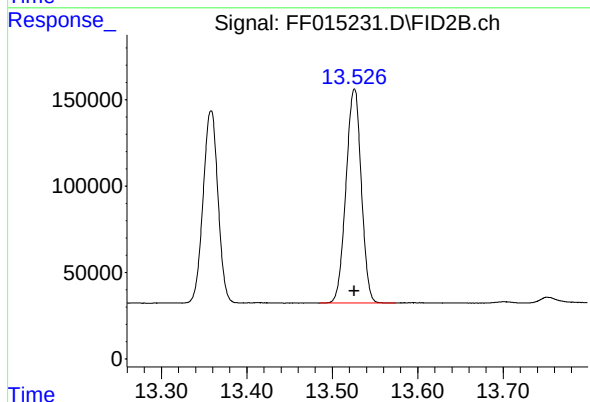
R.T.: 11.921 min
Delta R.T.: 0.000 min
Response: 1715465
Conc: 10.88 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM ALIPHATIC HC STD4



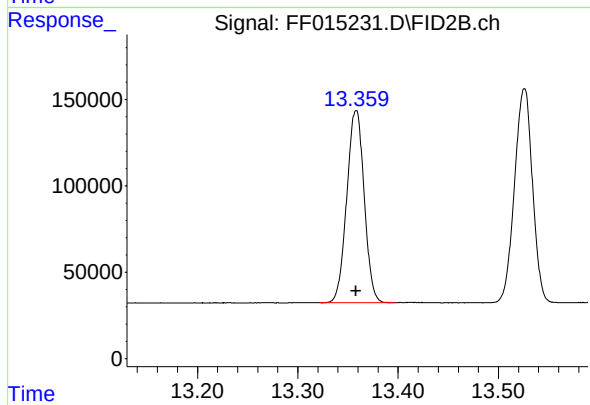
#10 n-Eicosane (C20)

R.T.: 12.914 min
Delta R.T.: 0.000 min
Response: 1556715
Conc: 10.90 ug/ml



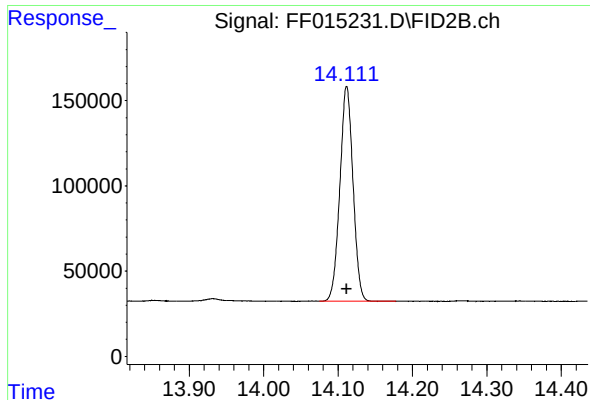
#11 n-Heneicosane (C21)

R.T.: 13.526 min
Delta R.T.: 0.000 min
Response: 1541314
Conc: 10.90 ug/ml



#12 1-chlorooctadecane (SURR)

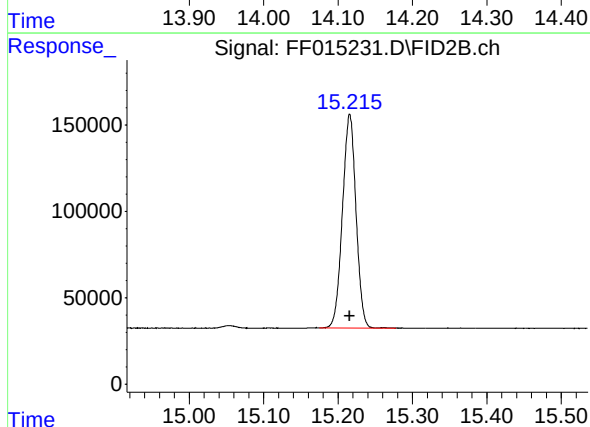
R.T.: 13.358 min
Delta R.T.: 0.000 min
Response: 1340917
Conc: 10.83 ug/ml



#13 n-Docosane (C22)

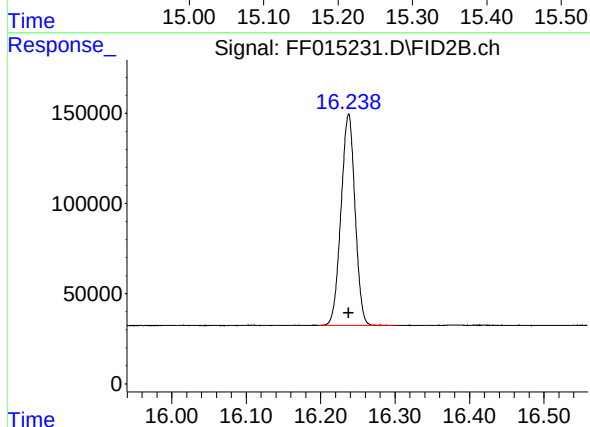
R.T.: 14.112 min
Delta R.T.: 0.000 min
Response: 1547397
Conc: 10.89 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM ALIPHATIC HC STD4



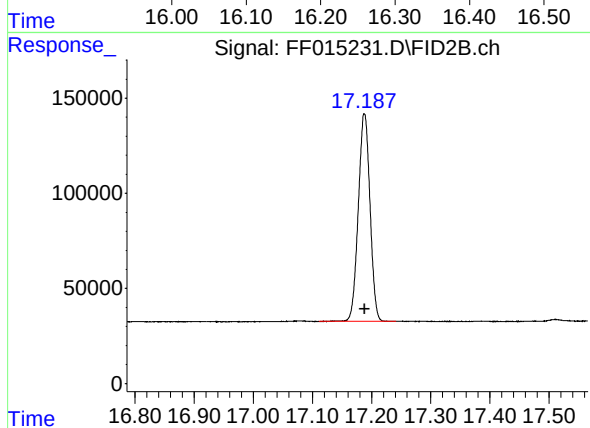
#14 n-Tetracosane (C24)

R.T.: 15.216 min
Delta R.T.: 0.000 min
Response: 1563755
Conc: 10.90 ug/ml



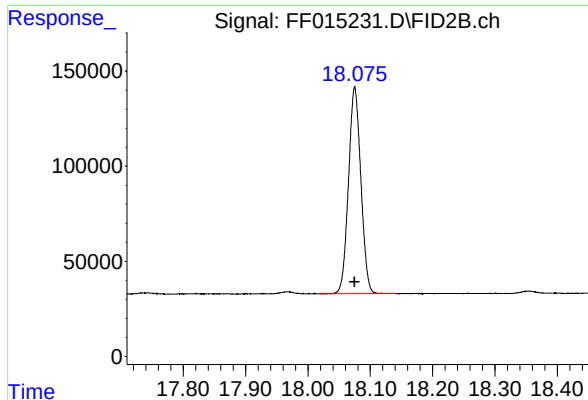
#15 n-Hexacosane (C26)

R.T.: 16.237 min
Delta R.T.: 0.000 min
Response: 1537116
Conc: 10.93 ug/ml



#16 n-Octacosane (C28)

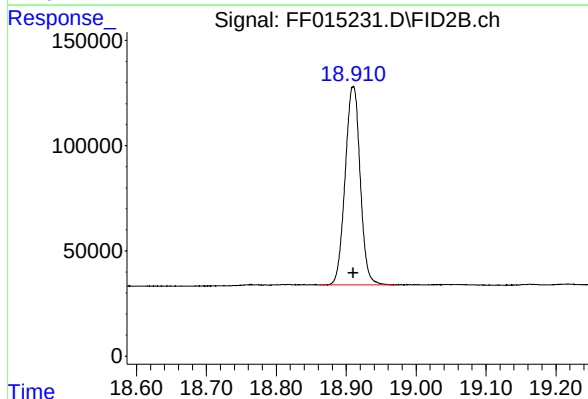
R.T.: 17.188 min
Delta R.T.: 0.000 min
Response: 1500151
Conc: 10.96 ug/ml



#17 n-Tricontane (C30)

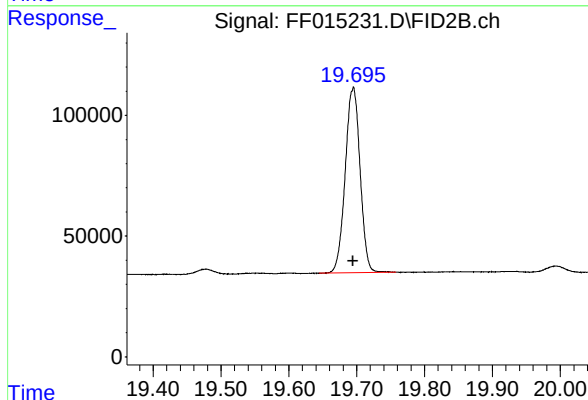
R.T.: 18.075 min
Delta R.T.: 0.000 min
Response: 1500605
Conc: 11.05 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM ALIPHATIC HC STD4



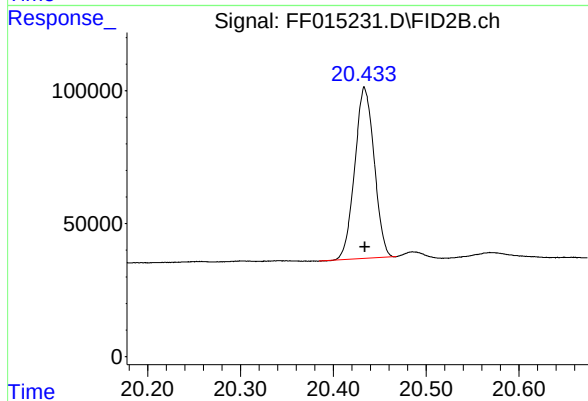
#18 n-Dotriacontane (C32)

R.T.: 18.910 min
Delta R.T.: 0.000 min
Response: 1408194
Conc: 11.12 ug/ml



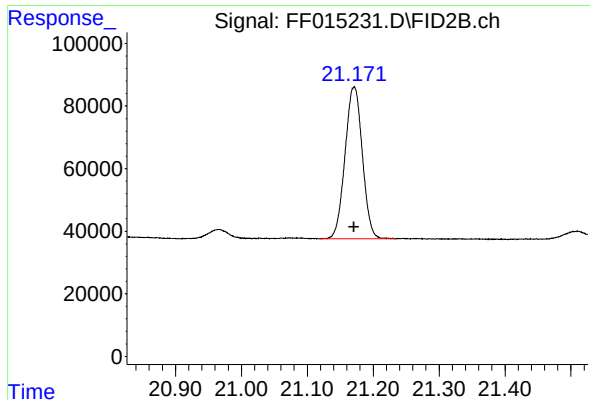
#19 n-Tetatriacontane (C34)

R.T.: 19.695 min
Delta R.T.: 0.000 min
Response: 1168997
Conc: 11.04 ug/ml



#20 n-Hexatriacontane (C36)

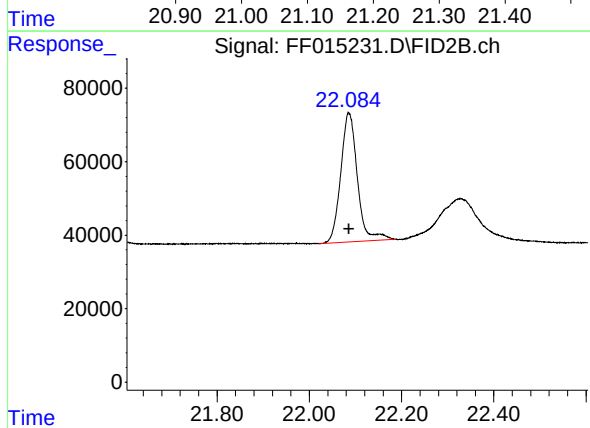
R.T.: 20.434 min
Delta R.T.: 0.000 min
Response: 933456
Conc: 10.79 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.171 min
Delta R.T.: 0.000 min
Response: 885440
Conc: 10.88 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.086 min
Delta R.T.: 0.000 min
Response: 879594
Conc: 10.98 ug/ml

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015231.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 14:29
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH
011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.313	3.281	3.361	BB	140476	1419051	82.72%	4.573%
2	4.566	4.531	4.621	BB	144109	1445970	84.29%	4.659%
3	6.267	6.228	6.335	BB	158471	1565148	91.24%	5.043%
4	6.729	6.698	6.795	BB	144774	1454028	84.76%	4.685%
5	7.361	7.315	7.428	BB	151131	1507370	87.87%	4.857%
6	8.555	8.521	8.618	BB	137501	1456275	84.89%	4.693%
7	10.161	10.128	10.211	BB	141171	1526186	88.97%	4.918%
8	11.604	11.561	11.645	BB	137235	1579981	92.10%	5.091%
9	11.921	11.855	11.981	BB	156281	1715465	100.00%	5.528%
10	12.914	12.878	12.978	BB	129099	1556715	90.75%	5.016%
11	13.358	13.321	13.398	BB	111483	1340917	78.17%	4.321%
12	13.526	13.485	13.575	BB	123769	1541314	89.85%	4.967%
13	14.112	14.075	14.178	BB	126219	1547397	90.20%	4.986%
14	15.216	15.175	15.278	BB	123128	1563755	91.16%	5.039%
15	16.237	16.198	16.301	BB	117412	1537116	89.60%	4.953%
16	17.188	17.111	17.241	BB	109473	1500151	87.45%	4.834%
17	18.075	18.018	18.141	BB	108539	1500605	87.48%	4.835%
18	18.910	18.861	18.971	BB	94663	1408194	82.09%	4.538%
19	19.695	19.645	19.758	BB	76366	1168997	68.14%	3.767%
20	20.434	20.385	20.467	BV	63693	933456	54.41%	3.008%
21	21.171	21.118	21.235	BB	48499	885440	51.62%	2.853%
22	22.086	22.021	22.188	BB	35233	879594	51.27%	2.834%
Sum of corrected areas:						31033125		

Aliphatic EPH 011425.M Tue Jan 14 18:15:48 2025

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
 Data File : FF015232.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jan 2025 14:58
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Jan 14 15:33:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:32:54 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)	11.922	822616	5.174 ug/ml
Spiked Amount 50.000		Recovery =	10.35%
12) S 1-chlorooctadecane (S...	13.359	641187	5.143 ug/ml
Spiked Amount 50.000		Recovery =	10.29%
Target Compounds			
1) T n-Nonane (C9)	3.314	679044	5.173 ug/ml
2) T n-Decane (C10)	4.567	692027	5.174 ug/ml
3) T A~Naphthalene (C11.7)	6.267	746581	5.133 ug/ml
4) T n-Dodecane (C12)	6.730	696131	5.162 ug/ml
5) T A~2-methylnaphthalene...	7.361	712729	5.065 ug/ml
6) T n-Tetradecane (C14)	8.555	696375	5.154 ug/ml
7) T n-Hexadecane (C16)	10.161	726857	5.130 ug/ml
8) T n-Octadecane (C18)	11.604	757015	5.169 ug/ml
10) T n-Eicosane (C20)	12.914	748861	5.194 ug/ml
11) T n-Heneicosane (C21)	13.526	740067	5.184 ug/ml
13) T n-Docosane (C22)	14.112	742815	5.182 ug/ml
14) T n-Tetracosane (C24)	15.216	757377	5.221 ug/ml
15) T n-Hexacosane (C26)	16.238	740421	5.210 ug/ml
16) T n-Octacosane (C28)	17.189	741442	5.328 ug/ml
17) T n-Tricontane (C30)	18.077	766987	5.507 ug/ml
18) T n-Dotriacontane (C32)	18.909	729037	5.589 ug/ml
19) T n-Tetratriacontane (C34)	19.694	600214	5.521 ug/ml
20) T n-Hexatriacontane (C36)	20.433	469008	5.332 ug/ml
21) T n-Octatriacontane (C38)	21.170	432331	5.246 ug/ml
22) T n-Tetracontane (C40)	22.086	381090	4.803 ug/ml

(f)=RT Delta > 1/2 Window

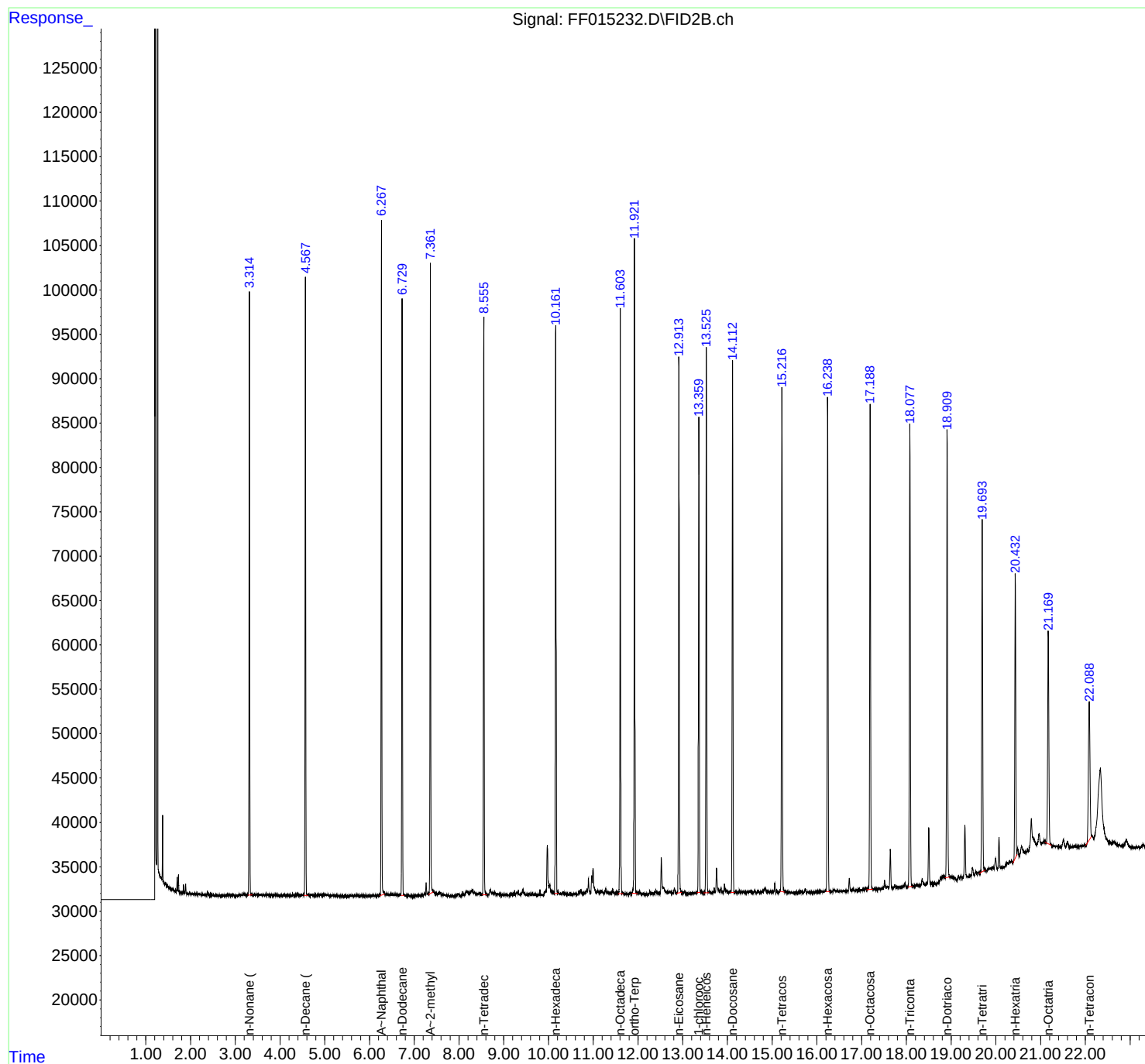
(m)=manual int.

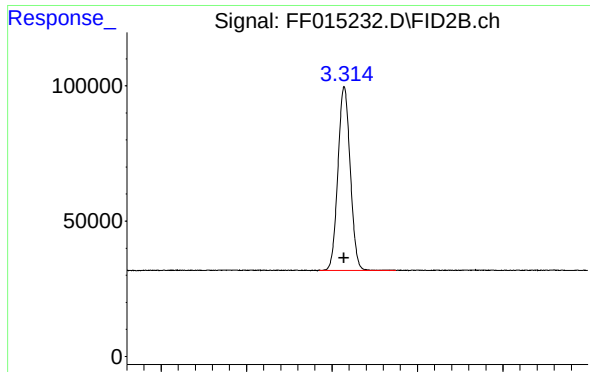
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015232.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 14:58
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jan 14 15:33:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:32:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

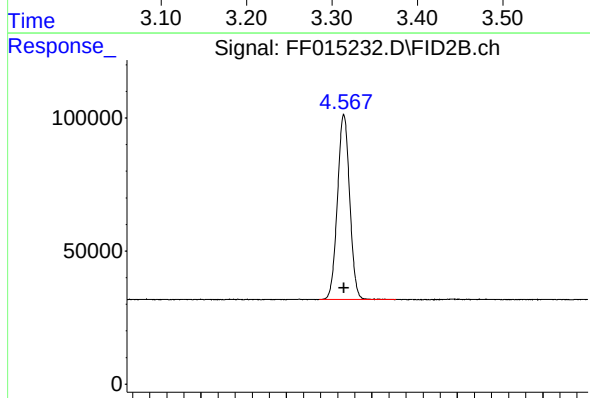




#1 n-Nonane (C9)

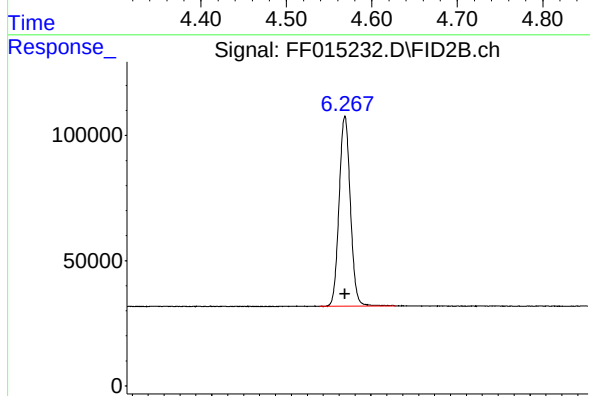
R.T.: 3.314 min
Delta R.T.: 0.000 min
Response: 679044
Conc: 5.17 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM ALIPHATIC HC STD5



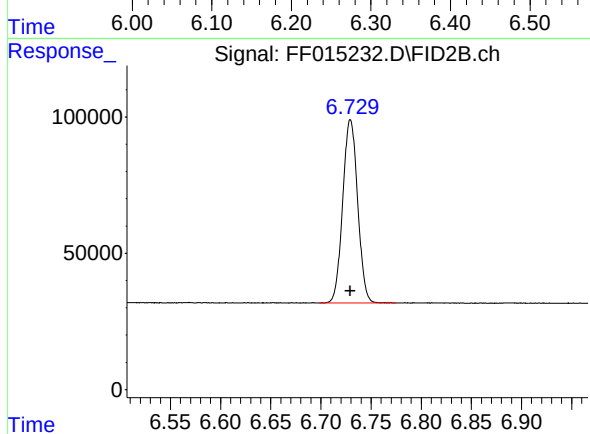
#2 n-Decane (C10)

R.T.: 4.567 min
Delta R.T.: 0.000 min
Response: 692027
Conc: 5.17 ug/ml



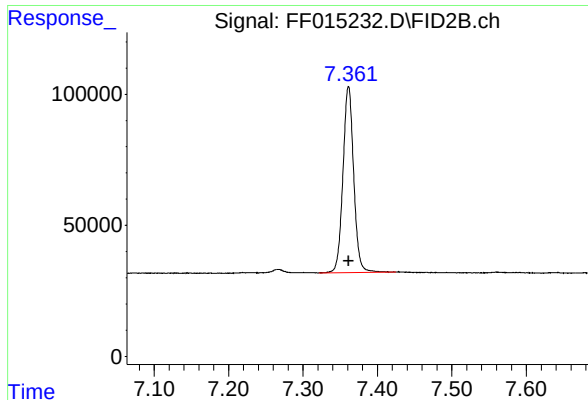
#3 A~Naphthalene (C11.7)

R.T.: 6.267 min
Delta R.T.: 0.000 min
Response: 746581
Conc: 5.13 ug/ml



#4 n-Dodecane (C12)

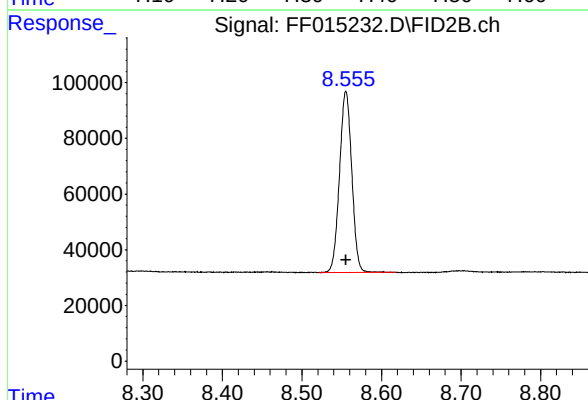
R.T.: 6.730 min
Delta R.T.: 0.000 min
Response: 696131
Conc: 5.16 ug/ml



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

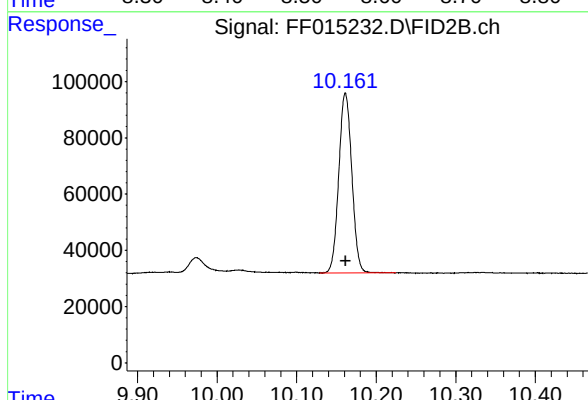
R.T.: 7.361 min
Delta R.T.: 0.000 min
Response: 712729
Conc: 5.07 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM ALIPHATIC HC STD5



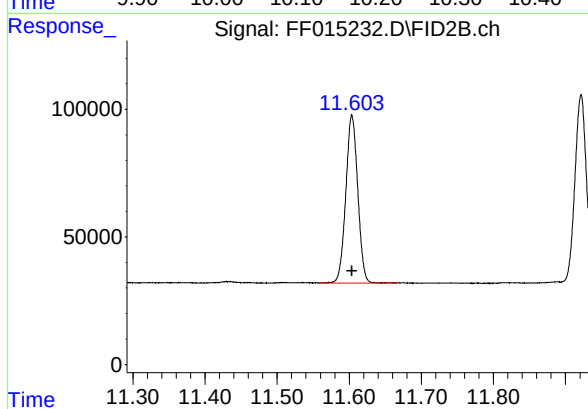
#6 n-Tetradecane (C14)

R.T.: 8.555 min
Delta R.T.: 0.000 min
Response: 696375
Conc: 5.15 ug/ml



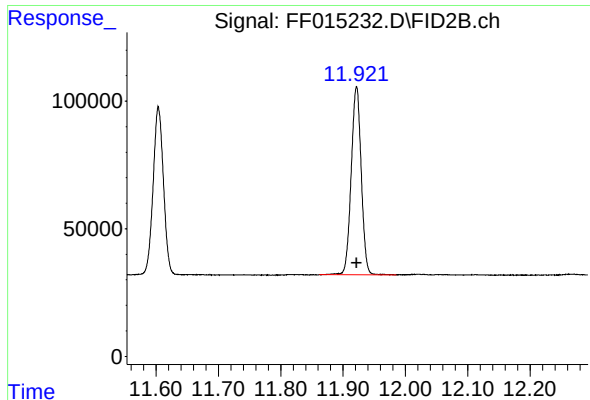
#7 n-Hexadecane (C16)

R.T.: 10.161 min
Delta R.T.: 0.000 min
Response: 726857
Conc: 5.13 ug/ml



#8 n-Octadecane (C18)

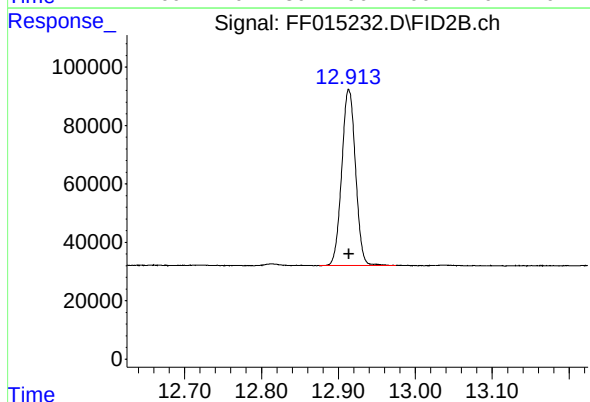
R.T.: 11.604 min
Delta R.T.: 0.000 min
Response: 757015
Conc: 5.17 ug/ml



#9 ortho-Terphenyl (SURR)

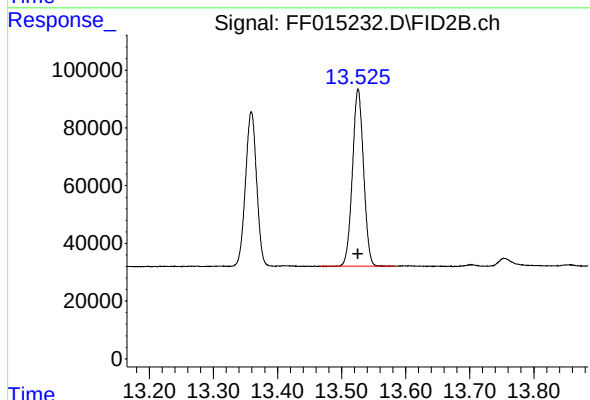
R.T.: 11.922 min
Delta R.T.: 0.000 min
Response: 822616
Conc: 5.17 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM ALIPHATIC HC STD5



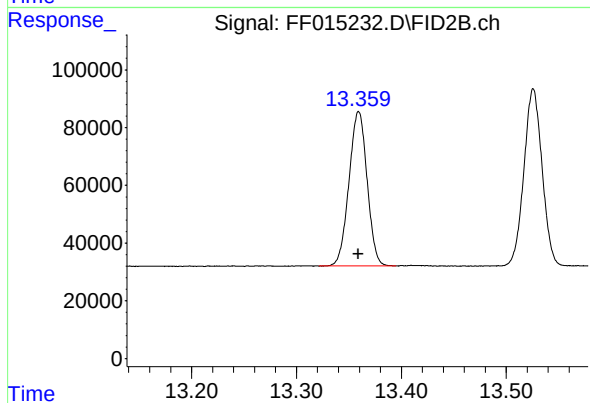
#10 n-Eicosane (C20)

R.T.: 12.914 min
Delta R.T.: 0.000 min
Response: 748861
Conc: 5.19 ug/ml



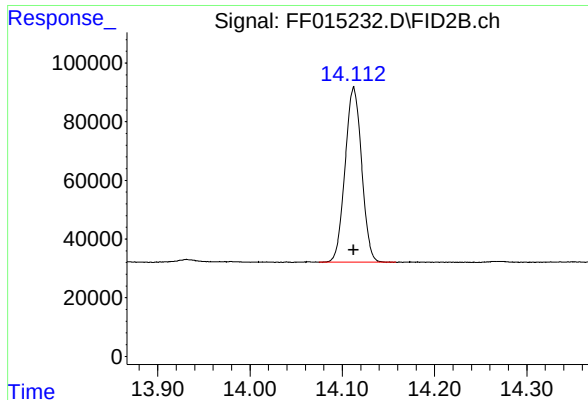
#11 n-Heneicosane (C21)

R.T.: 13.526 min
Delta R.T.: 0.000 min
Response: 740067
Conc: 5.18 ug/ml



#12 1-chlorooctadecane (SURR)

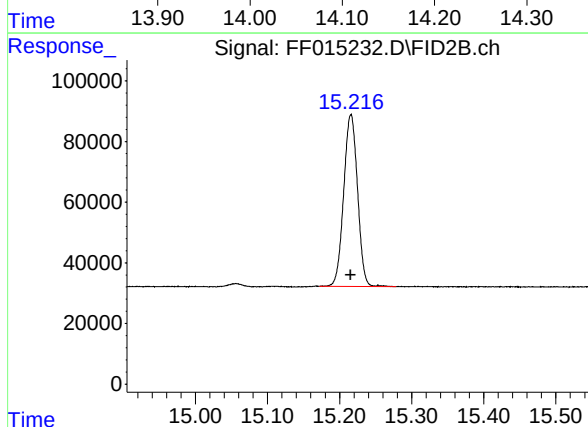
R.T.: 13.359 min
Delta R.T.: 0.000 min
Response: 641187
Conc: 5.14 ug/ml



#13 n-Docosane (C22)

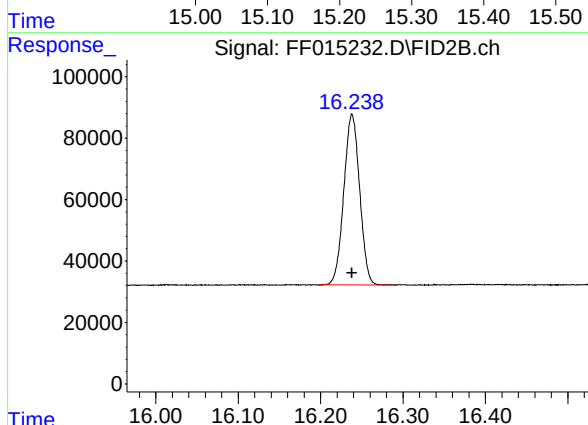
R.T.: 14.112 min
Delta R.T.: 0.000 min
Response: 742815
Conc: 5.18 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM ALIPHATIC HC STD5



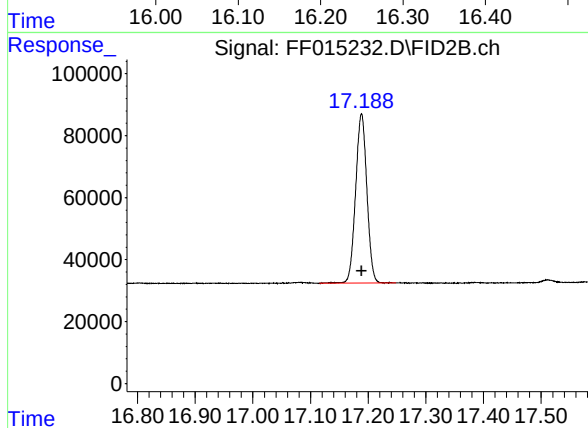
#14 n-Tetracosane (C24)

R.T.: 15.216 min
Delta R.T.: 0.000 min
Response: 757377
Conc: 5.22 ug/ml



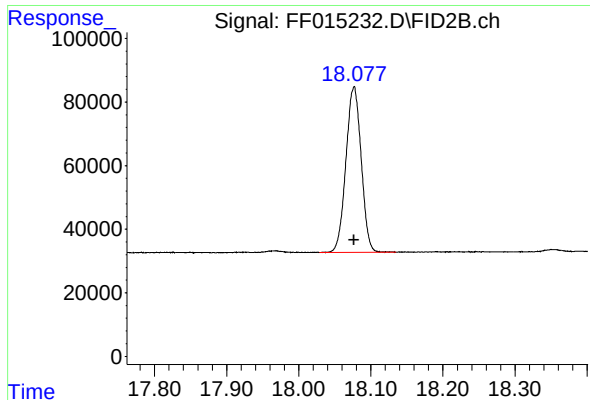
#15 n-Hexacosane (C26)

R.T.: 16.238 min
Delta R.T.: 0.000 min
Response: 740421
Conc: 5.21 ug/ml



#16 n-Octacosane (C28)

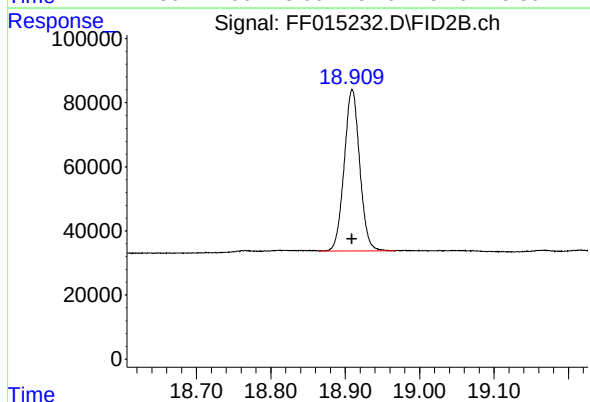
R.T.: 17.189 min
Delta R.T.: 0.000 min
Response: 741442
Conc: 5.33 ug/ml



#17 n-Tricontane (C30)

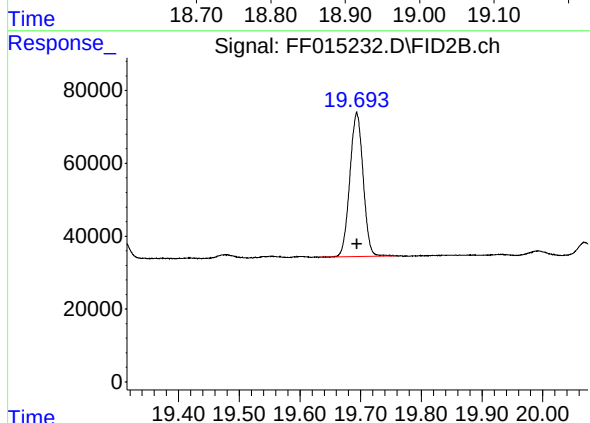
R.T.: 18.077 min
Delta R.T.: 0.000 min
Response: 766987
Conc: 5.51 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM ALIPHATIC HC STD5



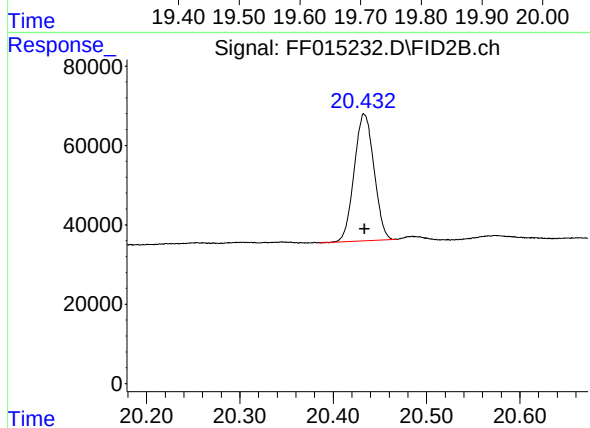
#18 n-Dotriacontane (C32)

R.T.: 18.909 min
Delta R.T.: 0.000 min
Response: 729037
Conc: 5.59 ug/ml



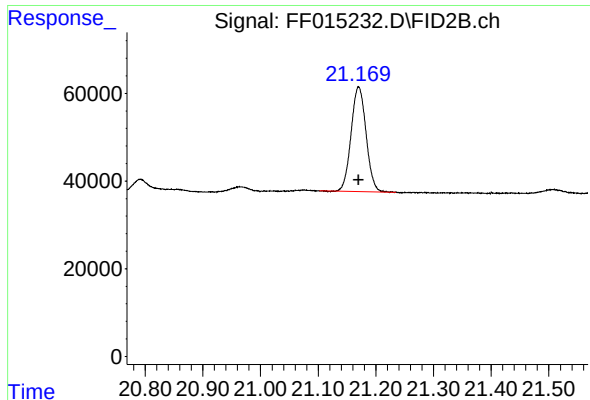
#19 n-Tetratriacontane (C34)

R.T.: 19.694 min
Delta R.T.: 0.000 min
Response: 600214
Conc: 5.52 ug/ml



#20 n-Hexatriacontane (C36)

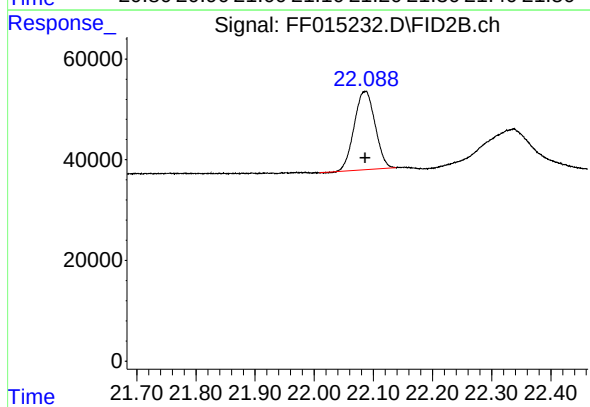
R.T.: 20.433 min
Delta R.T.: 0.000 min
Response: 469008
Conc: 5.33 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.170 min
Delta R.T.: 0.000 min
Response: 432331
Conc: 5.25 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.086 min
Delta R.T.: 0.000 min
Response: 381090
Conc: 4.80 ug/ml

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015232.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 14:58
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH
011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.314	3.285	3.375	BB	67797	679044	82.55%	4.521%
2	4.567	4.538	4.628	BB	69438	692027	84.13%	4.607%
3	6.267	6.235	6.332	BB	75931	746581	90.76%	4.971%
4	6.730	6.698	6.775	BB	67357	696131	84.62%	4.635%
5	7.361	7.322	7.425	BB	71172	712729	86.64%	4.745%
6	8.555	8.522	8.618	BB	65060	696375	84.65%	4.636%
7	10.161	10.128	10.225	BB	63827	726857	88.36%	4.839%
8	11.604	11.558	11.665	BB	65230	757015	92.03%	5.040%
9	11.922	11.862	11.985	BB	73720	822616	100.00%	5.477%
10	12.914	12.875	12.975	BB	60249	748861	91.03%	4.986%
11	13.359	13.322	13.395	BB	53471	641187	77.94%	4.269%
12	13.526	13.465	13.585	BB	61136	740067	89.97%	4.927%
13	14.112	14.075	14.158	BB	59373	742815	90.30%	4.945%
14	15.216	15.172	15.278	BB	56691	757377	92.07%	5.042%
15	16.238	16.198	16.292	BB	55521	740421	90.01%	4.929%
16	17.189	17.115	17.248	BB	54670	741442	90.13%	4.936%
17	18.077	18.028	18.135	BB	51788	766987	93.24%	5.106%
18	18.909	18.865	18.968	BB	50240	729037	88.62%	4.854%
19	19.694	19.632	19.758	BB	39399	600214	72.96%	3.996%
20	20.433	20.385	20.467	BV	31715	469008	57.01%	3.123%
21	21.170	21.102	21.235	BB	23877	432331	52.56%	2.878%
22	22.086	22.008	22.138	BB	15553	381090	46.33%	2.537%

Sum of corrected areas: 15020215

Aliphatic EPH 011425.M Tue Jan 14 18:16:08 2025

Page 1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
 Data File : FF015233.D
 Signal(s) : FID2B.ch
 Acq On : 14 Jan 2025 15:26
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Jan 14 15:36:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.924	2985481	18.778 ug/ml
Spiked Amount 50.000		Recovery =	37.56%
12) S 1-chlorooctadecane (S...	13.360	2338280	18.756 ug/ml
Spiked Amount 50.000		Recovery =	37.51%
Target Compounds			
1) T n-Nonane (C9)	3.315	2484205	18.924 ug/ml
2) T n-Decane (C10)	4.568	2531758	18.927 ug/ml
3) T A~Naphthalene (C11.7)	6.268	2744339	18.869 ug/ml
4) T n-Dodecane (C12)	6.731	2550039	18.911 ug/ml
5) T A~2-methylnaphthalene...	7.362	2657646	18.887 ug/ml
6) T n-Tetradecane (C14)	8.556	2542085	18.815 ug/ml
7) T n-Hexadecane (C16)	10.163	2661749	18.785 ug/ml
8) T n-Octadecane (C18)	11.605	2746456	18.754 ug/ml
10) T n-Eicosane (C20)	12.915	2700787	18.732 ug/ml
11) T n-Heneicosane (C21)	13.527	2678057	18.761 ug/ml
13) T n-Docosane (C22)	14.114	2688138	18.754 ug/ml
14) T n-Tetracosane (C24)	15.217	2716938	18.729 ug/ml
15) T n-Hexacosane (C26)	16.240	2669405	18.784 ug/ml
16) T n-Octacosane (C28)	17.189	2579852	18.540 ug/ml
17) T n-Tricontane (C30)	18.078	2520191	18.095 ug/ml
18) T n-Dotriacontane (C32)	18.910	2340348	17.943 ug/ml
19) T n-Tetratriacontane (C34)	19.695	1958623	18.017 ug/ml
20) T n-Hexatriacontane (C36)	20.435	1612090	18.329 ug/ml
21) T n-Octatriacontane (C38)	21.173	1528045	18.542 ug/ml
22) T n-Tetracontane (C40)	22.088	1504347	18.961 ug/ml

(f)=RT Delta > 1/2 Window

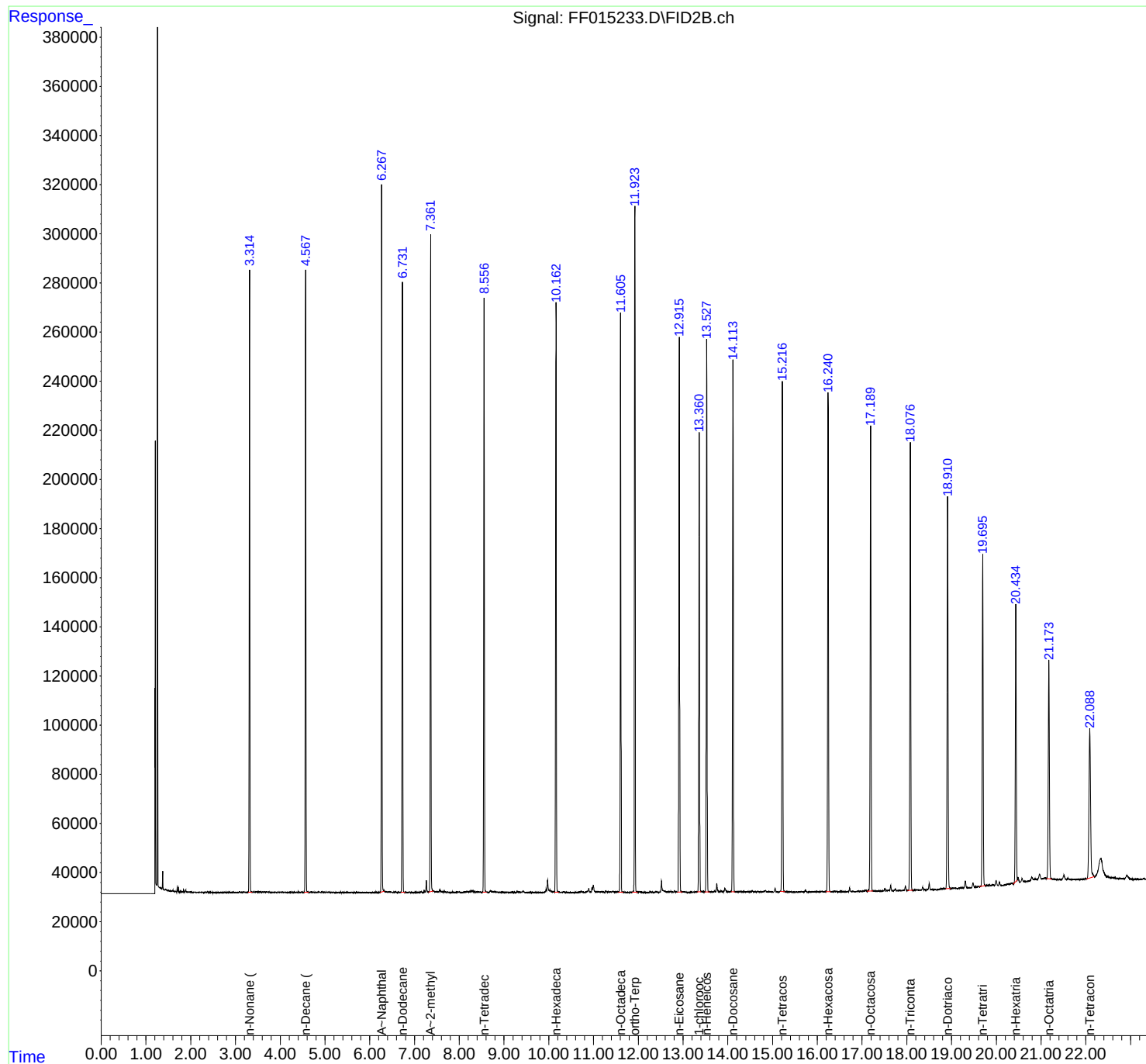
(m)=manual int.

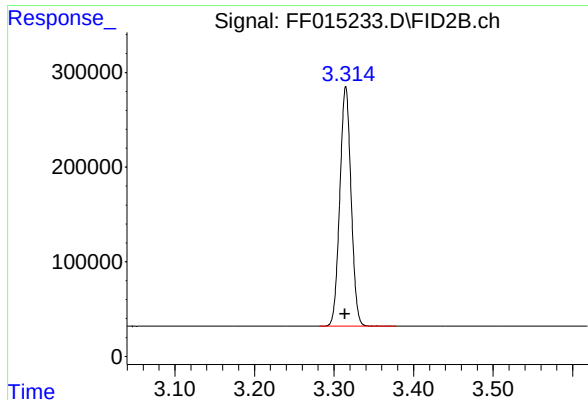
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015233.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 15:26
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 14 15:36:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 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)

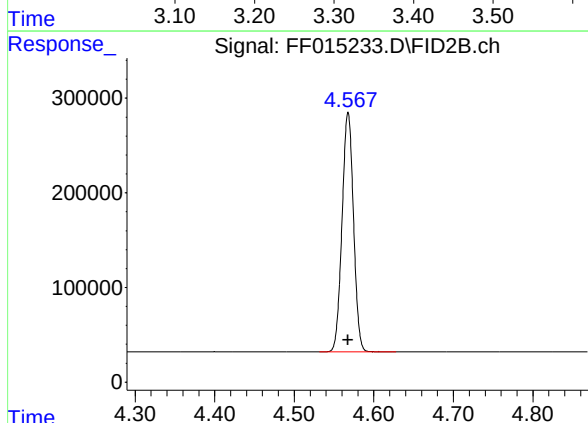
R.T.: 3.315 min
Delta R.T.: 0.000 min
Response: 2484205
Conc: 18.92 ug/ml

Instrument :

FID_F

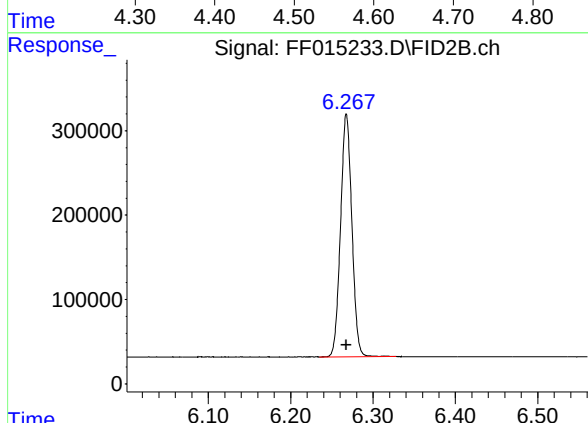
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



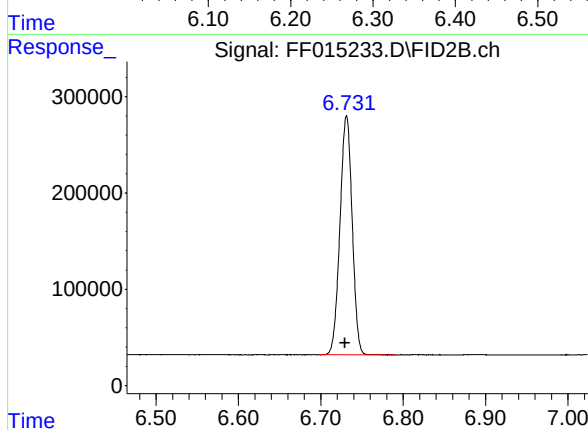
#2 n-Decane (C10)

R.T.: 4.568 min
Delta R.T.: 0.000 min
Response: 2531758
Conc: 18.93 ug/ml



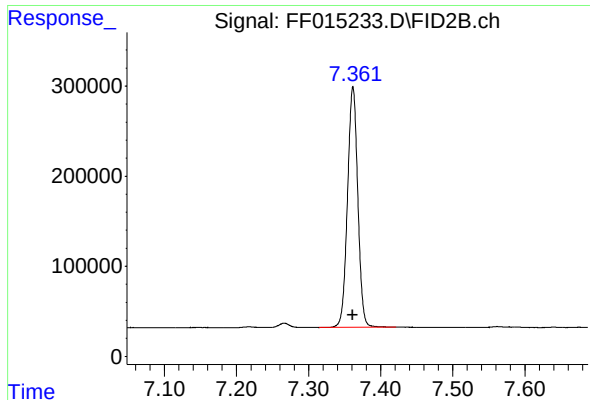
#3 A~Naphthalene (C11.7)

R.T.: 6.268 min
Delta R.T.: 0.000 min
Response: 2744339
Conc: 18.87 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.731 min
Delta R.T.: 0.002 min
Response: 2550039
Conc: 18.91 ug/ml



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

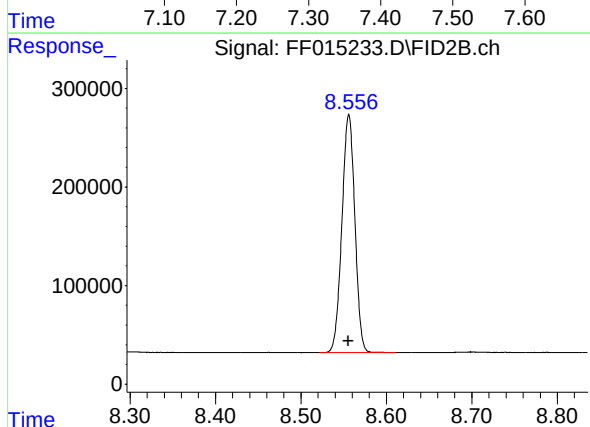
R.T.: 7.362 min
Delta R.T.: 0.000 min
Response: 2657646
Conc: 18.89 ug/ml

Instrument :

FID_F

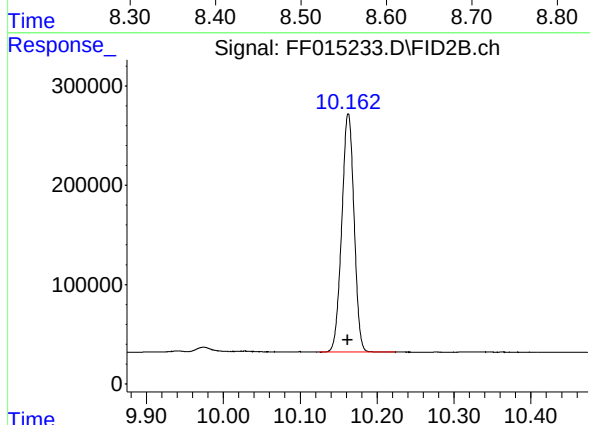
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



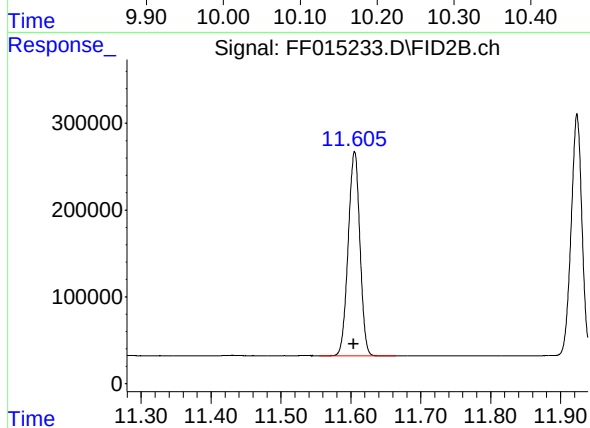
#6 n-Tetradecane (C14)

R.T.: 8.556 min
Delta R.T.: 0.000 min
Response: 2542085
Conc: 18.81 ug/ml



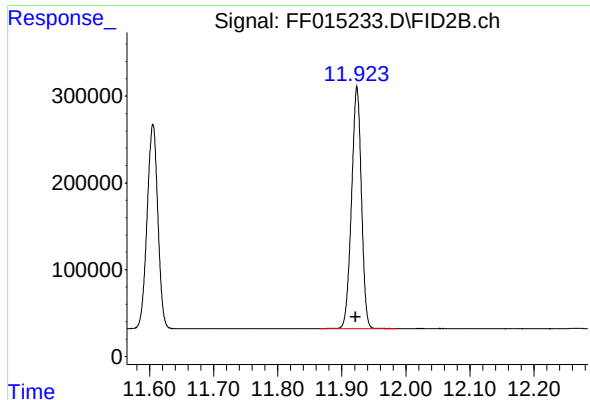
#7 n-Hexadecane (C16)

R.T.: 10.163 min
Delta R.T.: 0.001 min
Response: 2661749
Conc: 18.78 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.605 min
Delta R.T.: 0.001 min
Response: 2746456
Conc: 18.75 ug/ml



#9 ortho-Terphenyl (SURR)

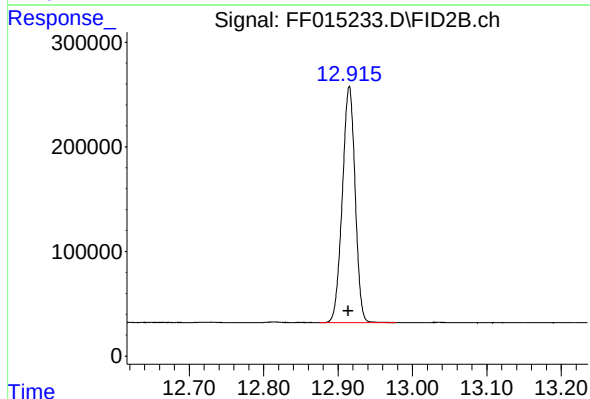
R.T.: 11.924 min
Delta R.T.: 0.002 min
Response: 2985481
Conc: 18.78 ug/ml

Instrument :

FID_F

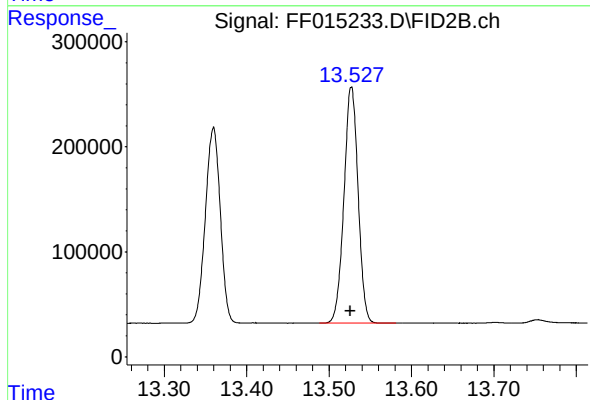
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



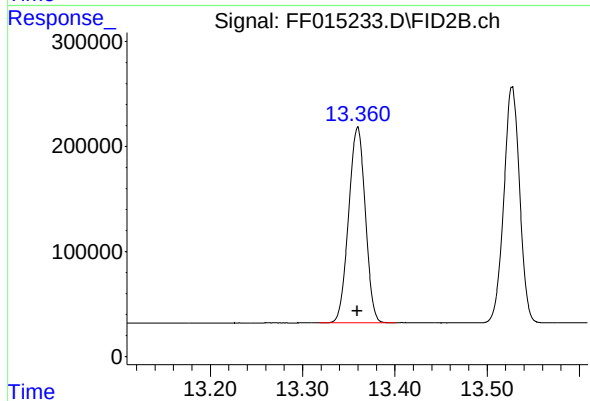
#10 n-Eicosane (C20)

R.T.: 12.915 min
Delta R.T.: 0.001 min
Response: 2700787
Conc: 18.73 ug/ml



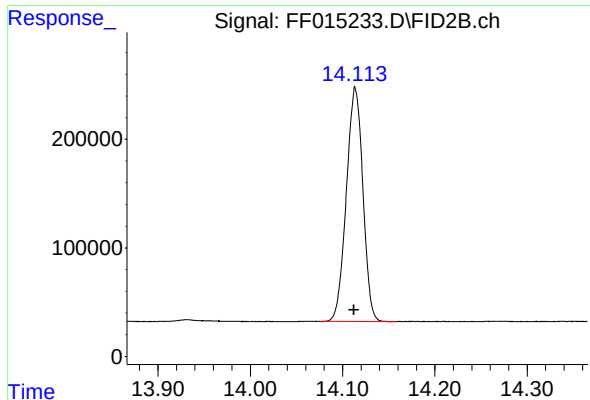
#11 n-Heneicosane (C21)

R.T.: 13.527 min
Delta R.T.: 0.001 min
Response: 2678057
Conc: 18.76 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.360 min
Delta R.T.: 0.000 min
Response: 2338280
Conc: 18.76 ug/ml



#13 n-Docosane (C22)

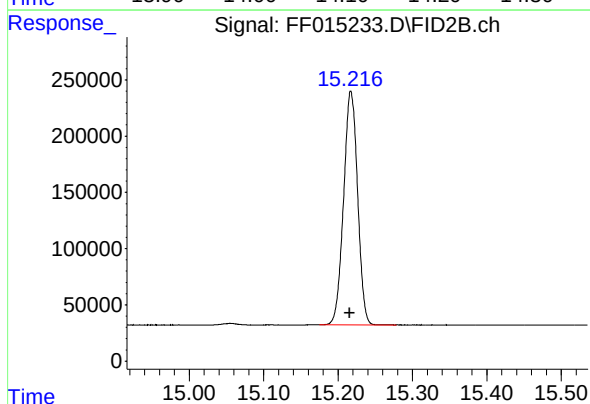
R.T.: 14.114 min
Delta R.T.: 0.001 min
Response: 2688138
Conc: 18.75 ug/ml

Instrument :

FID_F

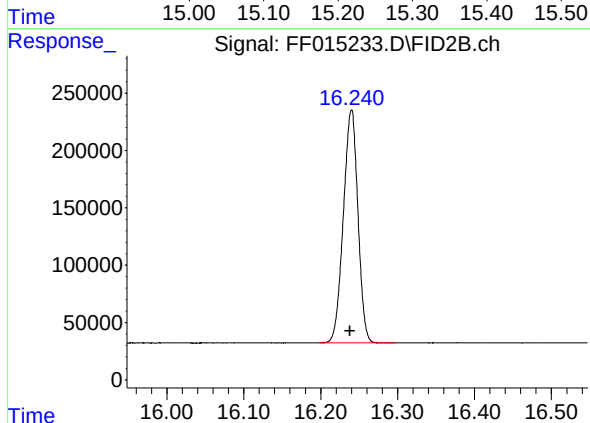
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



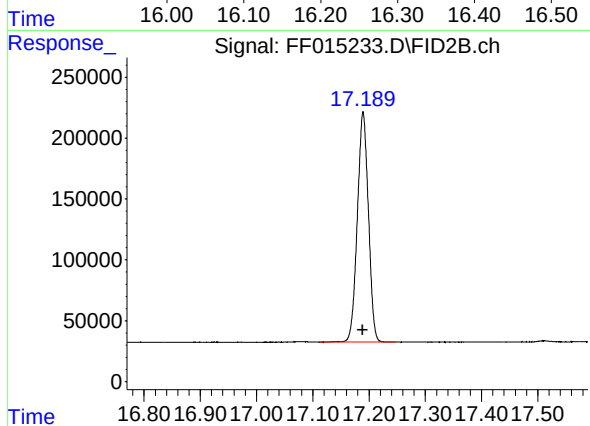
#14 n-Tetracosane (C24)

R.T.: 15.217 min
Delta R.T.: 0.002 min
Response: 2716938
Conc: 18.73 ug/ml



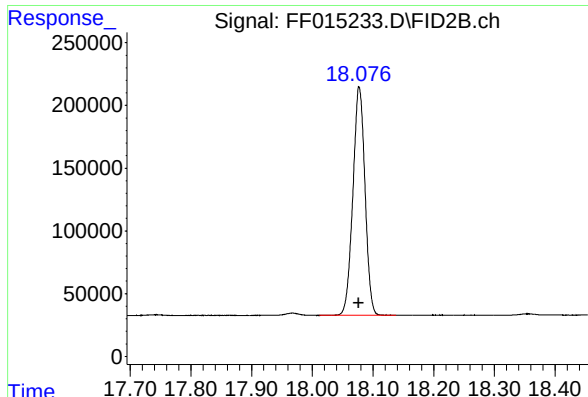
#15 n-Hexacosane (C26)

R.T.: 16.240 min
Delta R.T.: 0.002 min
Response: 2669405
Conc: 18.78 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.189 min
Delta R.T.: 0.000 min
Response: 2579852
Conc: 18.54 ug/ml



#17 n-Tricontane (C30)

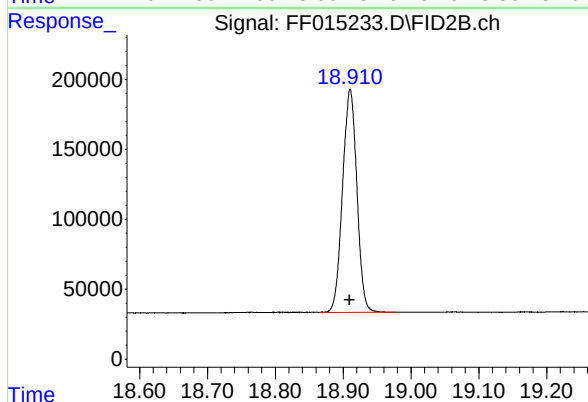
R.T.: 18.078 min
Delta R.T.: 0.000 min
Response: 2520191
Conc: 18.10 ug/ml

Instrument :

FID_F

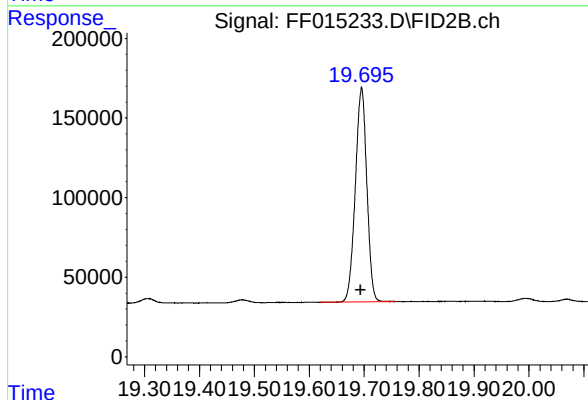
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



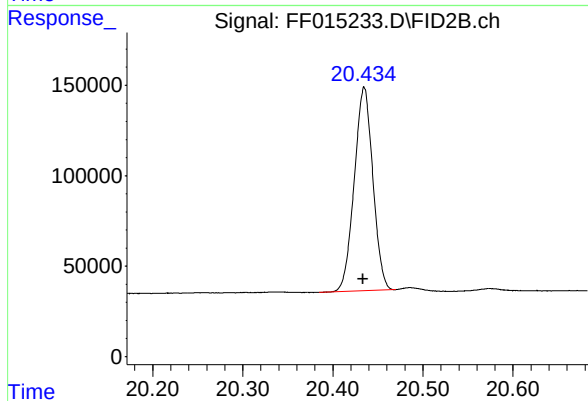
#18 n-Dotriacontane (C32)

R.T.: 18.910 min
Delta R.T.: 0.001 min
Response: 2340348
Conc: 17.94 ug/ml



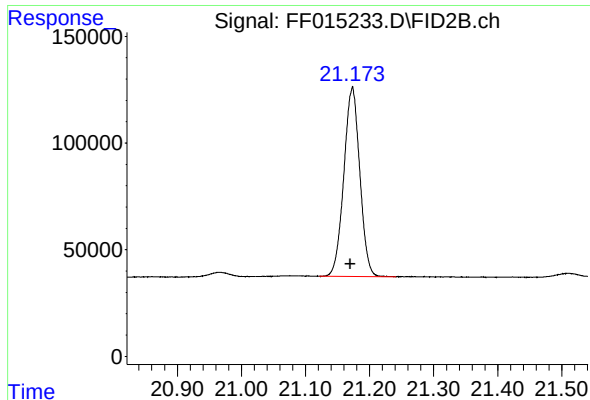
#19 n-Tetatriacontane (C34)

R.T.: 19.695 min
Delta R.T.: 0.001 min
Response: 1958623
Conc: 18.02 ug/ml



#20 n-Hexatriacontane (C36)

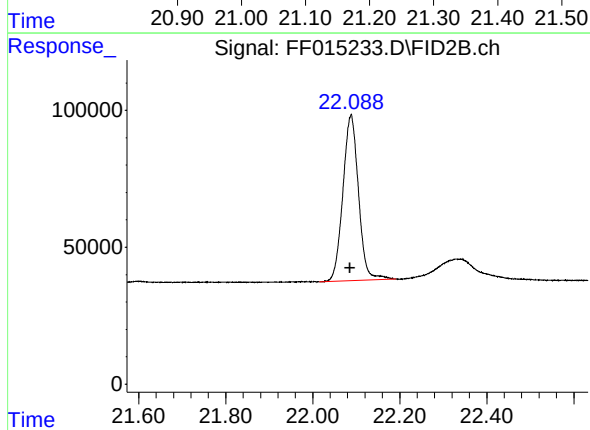
R.T.: 20.435 min
Delta R.T.: 0.001 min
Response: 1612090
Conc: 18.33 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.173 min
Delta R.T.: 0.003 min
Response: 1528045
Conc: 18.54 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.088 min
Delta R.T.: 0.002 min
Response: 1504347
Conc: 18.96 ug/ml

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AL\
Data File : FF015233.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 15:26
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH
011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.315	3.281	3.378	BB	253152	2484205	83.21%	4.623%
2	4.568	4.531	4.628	BB	253153	2531758	84.80%	4.711%
3	6.268	6.235	6.328	BB	287553	2744339	91.92%	5.107%
4	6.731	6.698	6.791	BB	248488	2550039	85.41%	4.745%
5	7.362	7.315	7.421	BB	266605	2657646	89.02%	4.945%
6	8.556	8.521	8.611	BB	240090	2542085	85.15%	4.730%
7	10.163	10.125	10.225	BB	240447	2661749	89.16%	4.953%
8	11.605	11.555	11.665	BB	235294	2746456	91.99%	5.111%
9	11.924	11.865	11.985	BB	277619	2985481	100.00%	5.556%
10	12.915	12.875	12.978	BB	225250	2700787	90.46%	5.026%
11	13.360	13.318	13.401	BB	184514	2338280	78.32%	4.351%
12	13.527	13.488	13.581	BB	224815	2678057	89.70%	4.983%
13	14.114	14.075	14.158	BB	214785	2688138	90.04%	5.002%
14	15.217	15.175	15.278	BB	207006	2716938	91.01%	5.056%
15	16.240	16.198	16.298	BB	205049	2669405	89.41%	4.967%
16	17.190	17.111	17.248	BB	188247	2579852	86.41%	4.801%
17	18.078	18.011	18.138	BB	181703	2520191	84.41%	4.690%
18	18.910	18.865	18.978	BB	159503	2340348	78.39%	4.355%
19	19.695	19.618	19.758	BB	133988	1958623	65.60%	3.645%
20	20.435	20.385	20.470	BV	112396	1612090	54.00%	3.000%
21	21.173	21.121	21.241	BB	88772	1528045	51.18%	2.843%
22	22.088	22.015	22.191	BB	60540	1504347	50.39%	2.799%
Sum of corrected areas:						53738860		

Aliphatic EPH 011425.M Tue Jan 14 18:16:31 2025

Page 1

Continuing Calibration Report for SequenceID : FC013125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FC068161.D

Aliphatic C9-C12	8941507.000	60.000	3.128	6.394	149025.117	138488.174	-7.609
Aliphatic C12-C16	5834042.000	40.000	6.395	9.777	145851.050	137713.071	-5.909
Aliphatic C16-C21	8494163.000	60.000	9.778	13.129	141569.383	135019.289	-4.851
Aliphatic C21-C28	10842120.000	80.000	13.130	16.780	135526.500	127207.526	-6.540
Aliphatic C28-C40	13235619.000	120.000	16.781	21.588	110296.825	103638.860	-6.424
Aliphatic EPH	47347451.000	360.000	3.128	21.588	131520.697	123700.655	-6.322

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	31 Jan 2025 12:15
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068161.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.128	6.394	8941507.000	60.000	ug/ml
Aliphatic C12-C16	6.395	9.777	5834042.000	40.000	ug/ml
Aliphatic C16-C21	9.778	13.129	8494163.000	60.000	ug/ml
Aliphatic C21-C28	13.130	16.780	10842120.000	80.000	ug/ml
Aliphatic C28-C40	16.781	21.588	13235619.000	120.000	ug/ml
Aliphatic EPH	3.128	21.588	47347451.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
 Data File : FC068161.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 12:15
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Jan 31 22:14:48 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 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)	11.420	3257635	20.847 ug/ml
Spiked Amount 50.000		Recovery =	41.69%
12) S 1-chlorooctadecane (S...	12.860	2410405	20.960 ug/ml
Spiked Amount 50.000		Recovery =	41.92%
Target Compounds			
1) T n-Nonane (C9)	3.228	2938086	21.456 ug/ml
2) T n-Decane (C10)	4.285	3005135	21.646 ug/ml
3) T A~Naphthalene (C11.7)	5.853	3262384	21.731 ug/ml
4) T n-Dodecane (C12)	6.294	2998286	21.463 ug/ml
5) T A~2-methylnaphthalene...	6.905	3105257	21.619 ug/ml
6) T n-Tetradecane (C14)	8.081	2901432	21.259 ug/ml
7) T n-Hexadecane (C16)	9.677	2932610	21.106 ug/ml
8) T n-Octadecane (C18)	11.114	2941359	21.022 ug/ml
10) T n-Eicosane (C20)	12.420	2805836	20.970 ug/ml
11) T n-Heneicosane (C21)	13.029	2746968	20.915 ug/ml
13) T n-Docosane (C22)	13.614	2735337	21.117 ug/ml
14) T n-Tetracosane (C24)	14.713	2738248	21.328 ug/mlm
15) T n-Hexacosane (C26)	15.733	2696592	21.429 ug/ml
16) T n-Octacosane (C28)	16.680	2671943	21.363 ug/ml
17) T n-Tricontane (C30)	17.566	2735091	21.160 ug/ml
18) T n-Dotriacontane (C32)	18.396	2635480	21.082 ug/ml
19) T n-Tetratriacontane (C34)	19.178	2291367	21.123 ug/ml
20) T n-Hexatriacontane (C36)	19.916	1958831	21.167 ug/ml
21) T n-Octatriacontane (C38)	20.629	1842839	21.506 ug/ml
22) T n-Tetracontane (C40)	21.488	1772011	21.915 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068161.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 12:15
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

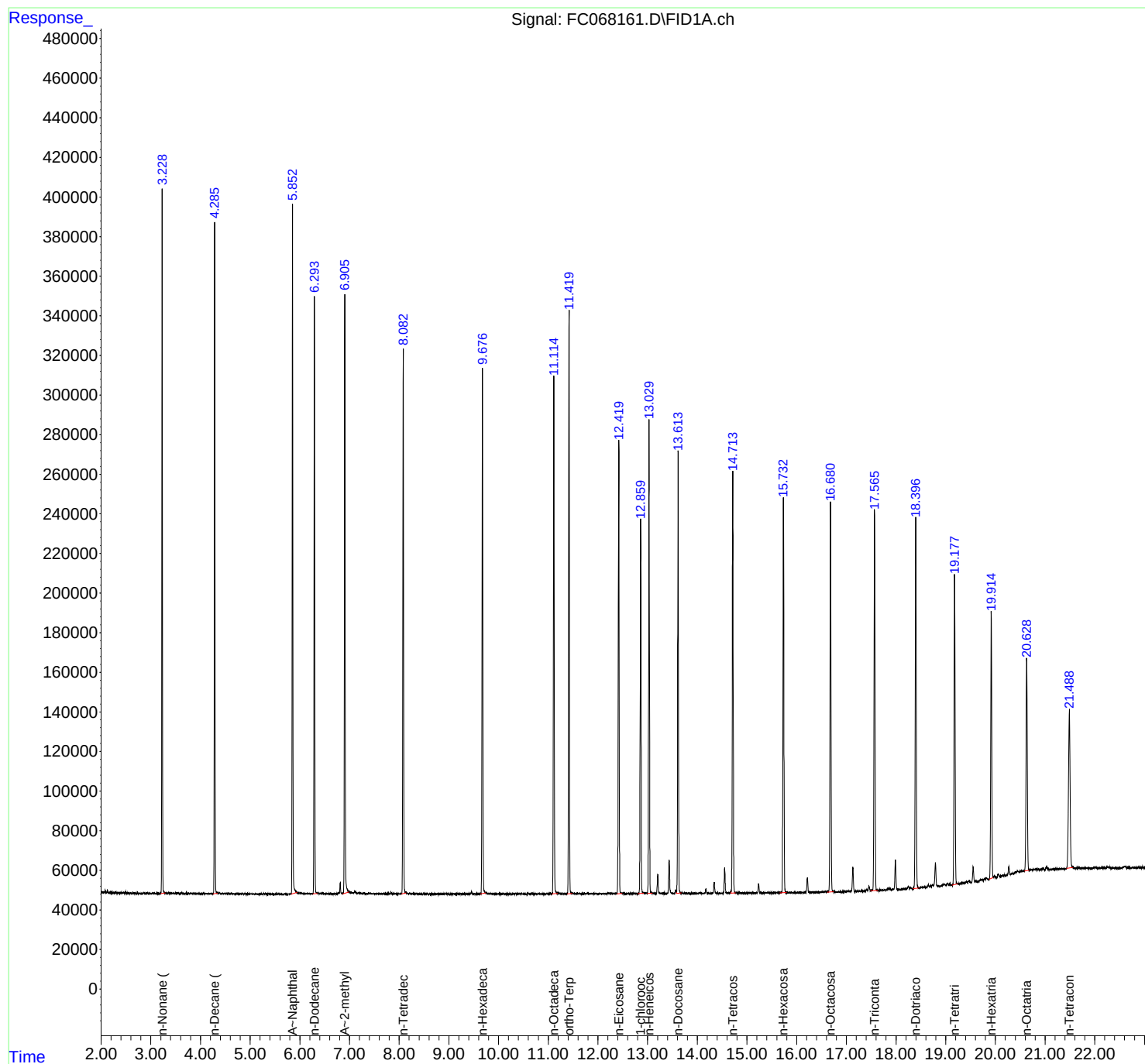
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Jan 31 22:14:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC01312
Data File : FC068161.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 12:15
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 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.228	3.198	3.288	BB	355202	2938086	90.06%	4.947%
2	4.285	4.254	4.344	BB	336536	3005135	92.11%	5.060%
3	5.853	5.821	5.941	BB	344423	3262384	100.00%	5.493%
4	6.294	6.258	6.354	BB	302873	2998286	91.90%	5.048%
5	6.905	6.864	6.991	BB	302248	3105257	95.18%	5.228%
6	8.081	8.048	8.144	BB	274790	2901432	88.94%	4.885%
7	9.677	9.634	9.744	BB	263872	2932610	89.89%	4.938%
8	11.114	11.071	11.188	BB	259405	2941359	90.16%	4.952%
9	11.420	11.381	11.484	BB	299620	3257635	99.85%	5.485%
10	12.420	12.381	12.484	BB	229185	2805836	86.01%	4.724%
11	12.860	12.801	12.924	BB	186855	2410405	73.88%	4.058%
12	13.029	12.991	13.094	BB	236571	2746968	84.20%	4.625%
13	13.614	13.580	13.678	VB	223904	2735337	83.84%	4.606%
14	14.713	14.644	14.778	BB	210123	2747501	84.22%	4.626%
15	15.733	15.654	15.798	BB	198702	2696592	82.66%	4.540%
16	16.680	16.618	16.744	BB	196215	2671943	81.90%	4.499%
17	17.566	17.488	17.631	BB	190301	2735091	83.84%	4.605%
18	18.396	18.338	18.464	BB	184325	2635480	80.78%	4.437%
19	19.178	19.124	19.241	BB	156272	2291367	70.24%	3.858%
20	19.916	19.871	19.954	BV	134665	1958831	60.04%	3.298%
21	20.629	20.581	20.681	BB	107110	1842839	56.49%	3.103%
22	21.488	21.431	21.568	BB	79998	1772011	54.32%	2.984%
Sum of corrected areas:						59392383		

Aliphatic EPH 012425.M Fri Jan 31 22:42:37 2025

Continuing Calibration Report for SequenceID : FC013125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FC068171.D

Aliphatic C9-C12	7772727.000	60.000	3.128	6.394	129545.450	138488.174	6.457
Aliphatic C12-C16	5123126.000	40.000	6.395	9.777	128078.150	137713.071	6.996
Aliphatic C16-C21	7519004.000	60.000	9.778	13.129	125316.733	135019.289	7.186
Aliphatic C21-C28	9844182.000	80.000	13.130	16.780	123052.275	127207.526	3.267
Aliphatic C28-C40	13881415.000	120.000	16.781	21.588	115678.458	103638.860	-11.617
Aliphatic EPH	44140454.000	360.000	3.128	21.588	122612.372	123700.655	0.880

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	31 Jan 2025 20:21
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068171.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.128	6.394	7772727.000	60.000	ug/ml
Aliphatic C12-C16	6.395	9.777	5123126.000	40.000	ug/ml
Aliphatic C16-C21	9.778	13.129	7519004.000	60.000	ug/ml
Aliphatic C21-C28	13.130	16.780	9844182.000	80.000	ug/ml
Aliphatic C28-C40	16.781	21.588	13881415.000	120.000	ug/ml
Aliphatic EPH	3.128	21.588	44140454.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
 Data File : FC068171.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 20:21
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Jan 31 22:18:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 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)	11.420	2886176	18.470 ug/ml
Spiked Amount 50.000		Recovery =	36.94%
12) S 1-chlorooctadecane (S...	12.860	2142638	18.631 ug/ml
Spiked Amount 50.000		Recovery =	37.26%
Target Compounds			
1) T n-Nonane (C9)	3.228	2537308	18.529 ug/ml
2) T n-Decane (C10)	4.285	2618810	18.863 ug/ml
3) T A~Naphthalene (C11.7)	5.854	2826452	18.827 ug/ml
4) T n-Dodecane (C12)	6.294	2616609	18.730 ug/ml
5) T A~2-methylnaphthalene...	6.905	2707269	18.849 ug/ml
6) T n-Tetradecane (C14)	8.082	2540032	18.611 ug/ml
7) T n-Hexadecane (C16)	9.677	2583094	18.590 ug/ml
8) T n-Octadecane (C18)	11.114	2599741	18.581 ug/ml
10) T n-Eicosane (C20)	12.420	2482697	18.555 ug/ml
11) T n-Heneicosane (C21)	13.029	2436566	18.552 ug/ml
13) T n-Docosane (C22)	13.614	2426874	18.735 ug/mlm
14) T n-Tetracosane (C24)	14.714	2429140	18.921 ug/mlm
15) T n-Hexacosane (C26)	15.733	2422315	19.250 ug/ml
16) T n-Octacosane (C28)	16.681	2565853	20.515 ug/ml
17) T n-Tricontane (C30)	17.567	2896722	22.411 ug/ml
18) T n-Dotriacontane (C32)	18.397	2915777	23.324 ug/ml
19) T n-Tetratriacontane (C34)	19.180	2503187	23.076 ug/ml
20) T n-Hexatriacontane (C36)	19.918	2039258	22.036 ug/ml
21) T n-Octatriacontane (C38)	20.631	1824592	21.293 ug/ml
22) T n-Tetracontane (C40)	21.489	1701879	21.047 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068171.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 20:21
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

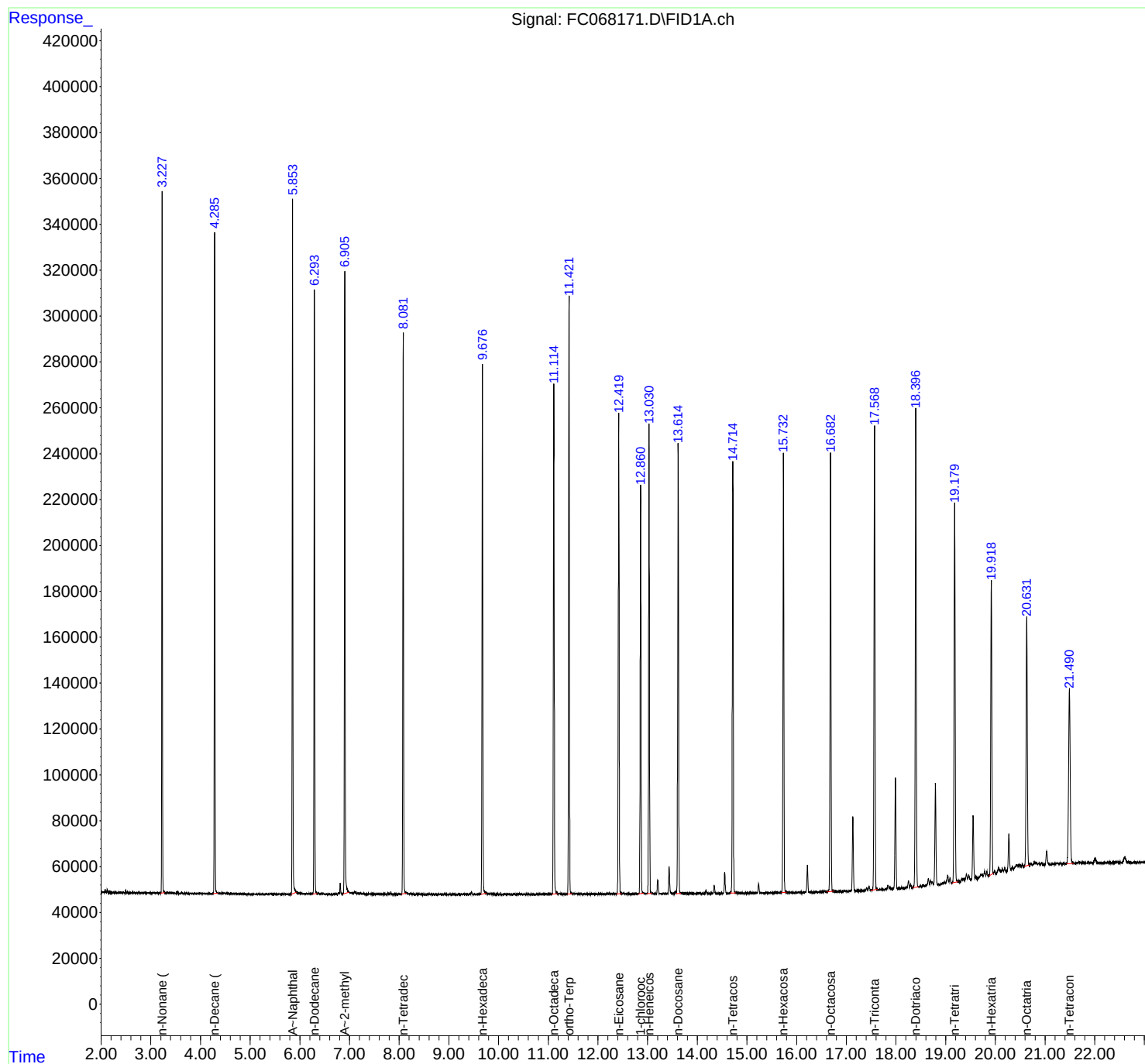
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Jan 31 22:18:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC01312
Data File : FC068171.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 20:21
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 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.228	3.191	3.285	BB	304841	2537308	87.02%	4.637%
2	4.285	4.255	4.348	BB	287638	2618810	89.82%	4.786%
3	5.854	5.821	5.931	BB	302383	2826452	96.94%	5.166%
4	6.294	6.261	6.351	BB	262648	2616609	89.74%	4.782%
5	6.905	6.865	6.991	BB	270684	2707269	92.85%	4.948%
6	8.082	8.048	8.145	BB	244595	2540032	87.11%	4.642%
7	9.677	9.641	9.748	BB	229171	2583094	88.59%	4.721%
8	11.114	11.075	11.185	BB	221635	2599741	89.16%	4.751%
9	11.420	11.381	11.481	BB	261728	2886176	98.98%	5.275%
10	12.420	12.371	12.481	BB	209002	2482697	85.15%	4.537%
11	12.860	12.821	12.921	BB	176297	2142638	73.48%	3.916%
12	13.029	12.988	13.095	BB	204475	2436566	83.56%	4.453%
13	13.614	13.541	13.678	BB	193942	2436592	83.57%	4.453%
14	14.715	14.648	14.775	BB	188125	2431652	83.40%	4.444%
15	15.733	15.691	15.798	BB	189510	2422315	83.08%	4.427%
16	16.681	16.608	16.745	BB	190917	2565853	88.00%	4.689%
17	17.567	17.488	17.625	BB	205004	2896722	99.35%	5.294%
18	18.397	18.335	18.451	BB	205983	2915777	100.00%	5.329%
19	19.180	19.128	19.245	BB	163329	2503187	85.85%	4.575%
20	19.918	19.871	19.958	BV	127304	2039258	69.94%	3.727%
21	20.631	20.581	20.695	BB	108507	1824592	62.58%	3.335%
22	21.489	21.431	21.578	BB	75442	1701879	58.37%	3.110%
Sum of corrected areas:							54715218	

Aliphatic EPH 012425.M Fri Jan 31 22:48:14 2025

Continuing Calibration Report for SequenceID : FF020125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FF015413.D

Aliphatic C9-C12	8300866.000	60.000	3.214	6.833	138347.767	133293.048	-3.792
Aliphatic C12-C16	5804136.000	40.000	6.834	10.268	145103.400	138403.375	-4.841
Aliphatic C16-C21	8578077.000	60.000	10.269	13.636	142967.950	144457.893	1.031
Aliphatic C21-C28	10473029.000	80.000	13.637	17.303	130912.863	142415.321	8.077
Aliphatic C28-C40	13200610.000	120.000	17.304	22.207	110005.083	104686.549	-5.080
Aliphatic EPH	46356718.000	360.000	3.214	22.207	128768.661	128213.342	-0.433

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	31 Jan 2025 12:29
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015413.D	Misc:	
Instrument:	FID_F	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.214	6.833	8300866.000	60.000	ug/ml
Aliphatic C12-C16	6.834	10.268	5804136.000	40.000	ug/ml
Aliphatic C16-C21	10.269	13.636	8578077.000	60.000	ug/ml
Aliphatic C21-C28	13.637	17.303	10473029.000	80.000	ug/ml
Aliphatic C28-C40	17.304	22.207	13200610.000	120.000	ug/ml
Aliphatic EPH	3.214	22.207	46356718.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
 Data File : FF015413.D
 Signal(s) : FID2B.ch
 Acq On : 31 Jan 2025 12:29
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
 Quant Time: Jan 31 23:21:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.931	3116865	19.604 ug/ml
Spiked Amount 50.000		Recovery =	39.21%
12) S 1-chlorooctadecane (S...	13.369	2389343	19.166 ug/ml
Spiked Amount 50.000		Recovery =	38.33%
Target Compounds			
1) T n-Nonane (C9)	3.315	2694928	20.530 ug/ml
2) T n-Decane (C10)	4.570	2771588	20.720 ug/ml
3) T A~Naphthalene (C11.7)	6.272	2998211	20.615 ug/ml
4) T n-Dodecane (C12)	6.734	2834350	21.019 ug/ml
5) T A~2-methylnaphthalene...	7.367	2904493	20.641 ug/ml
6) T n-Tetradecane (C14)	8.561	2845471	21.060 ug/ml
7) T n-Hexadecane (C16)	10.168	2958665	20.880 ug/ml
8) T n-Octadecane (C18)	11.613	2978836	20.341 ug/ml
10) T n-Eicosane (C20)	12.924	2835042	19.663 ug/ml
11) T n-Heneicosane (C21)	13.536	2764199	19.364 ug/ml
13) T n-Docosane (C22)	14.123	2717408	18.958 ug/mlm
14) T n-Tetracosane (C24)	15.229	2656331	18.312 ug/ml
15) T n-Hexacosane (C26)	16.251	2555236	17.981 ug/ml
16) T n-Octacosane (C28)	17.203	2544054	18.283 ug/ml
17) T n-Tricontane (C30)	18.092	2687620	19.298 ug/ml
18) T n-Dotriacontane (C32)	18.925	2644192	20.273 ug/mlm
19) T n-Tetratriacontane (C34)	19.711	2276644	20.943 ug/ml
20) T n-Hexatriacontane (C36)	20.453	1938055	22.035 ug/ml
21) T n-Octatriacontane (C38)	21.192	1807234	21.930 ug/ml
22) T n-Tetracontane (C40)	22.111	1846865	23.278 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
Data File : FF015413.D
Signal(s) : FID2B.ch
Acq On : 31 Jan 2025 12:29
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

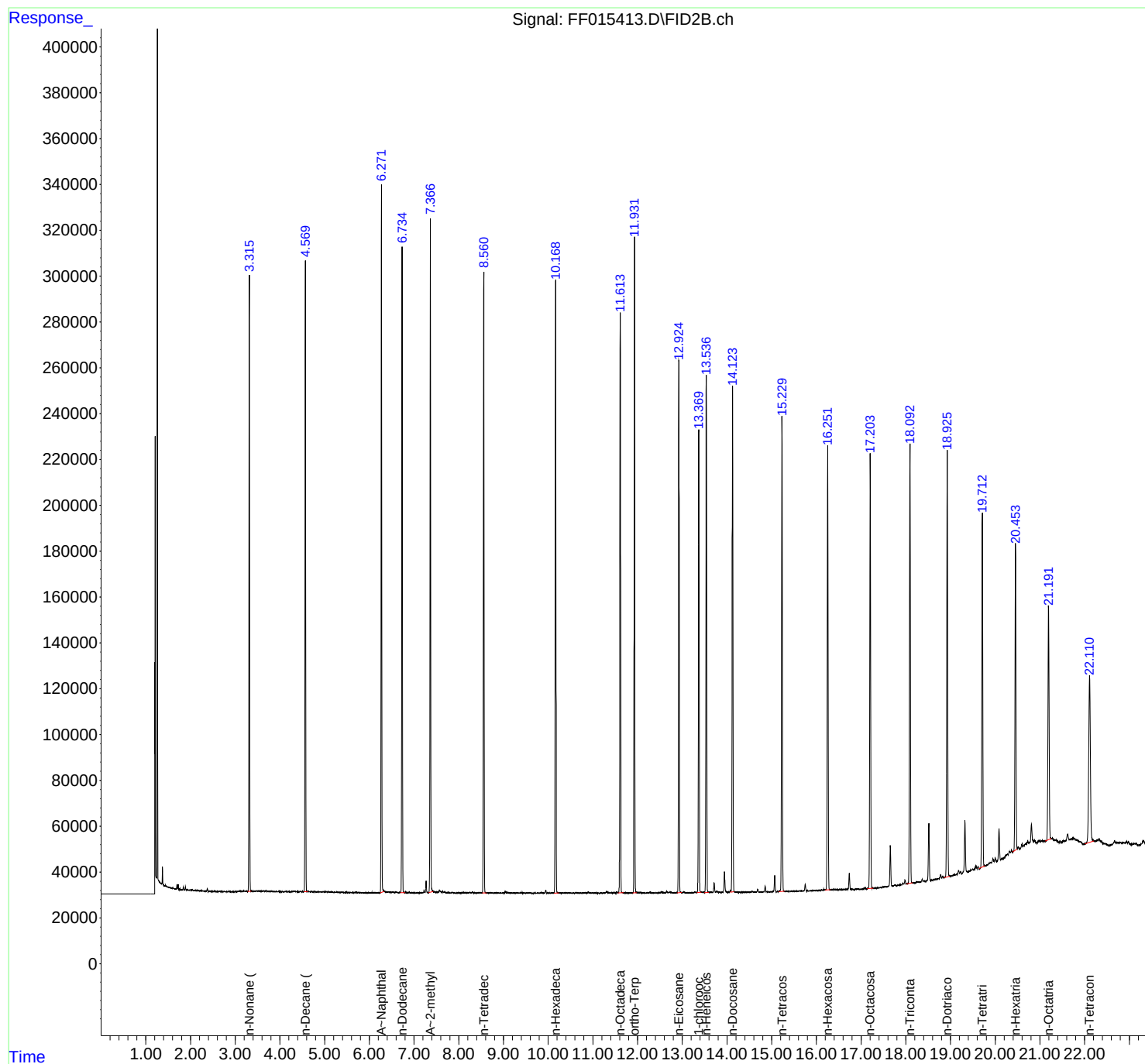
Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
Quant Time: Jan 31 23:21:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF02012
Data File : FF015413.D
Signal(s) : FID2B.ch
Acq On : 31 Jan 2025 12:29
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.315	3.278	3.358	BB	268481	2694928	86.46%	4.663%
2	4.570	4.535	4.625	BB	274338	2771588	88.92%	4.796%
3	6.272	6.238	6.335	BB	308833	2998211	96.19%	5.188%
4	6.734	6.698	6.798	BB	282243	2834350	90.94%	4.905%
5	7.367	7.325	7.432	BB	293689	2904493	93.19%	5.026%
6	8.561	8.522	8.625	BB	271105	2845471	91.29%	4.924%
7	10.168	10.132	10.232	BB	268285	2958665	94.92%	5.120%
8	11.613	11.565	11.678	BB	251212	2978836	95.57%	5.155%
9	11.931	11.892	11.972	BB	285440	3116865	100.00%	5.393%
10	12.924	12.882	12.982	BB	232620	2835042	90.96%	4.906%
11	13.369	13.328	13.428	BB	201640	2389343	76.66%	4.135%
12	13.536	13.498	13.592	BB	224892	2764199	88.69%	4.783%
13	14.124	14.048	14.178	BB	219936	2733592	87.70%	4.730%
14	15.229	15.158	15.288	BB	206481	2656331	85.22%	4.597%
15	16.251	16.192	16.315	BB	193026	2555236	81.98%	4.422%
16	17.203	17.138	17.268	BB	186903	2544054	81.62%	4.402%
17	18.092	18.012	18.145	BB	190879	2687620	86.23%	4.651%
18	18.926	18.805	18.982	PB	186417	2652186	85.09%	4.589%
19	19.711	19.638	19.775	BB	154444	2276644	73.04%	3.940%
20	20.453	20.385	20.492	BV	135099	1938055	62.18%	3.354%
21	21.192	21.115	21.255	BB	102070	1807234	57.98%	3.127%
22	22.111	22.012	22.208	BB	72821	1846865	59.25%	3.196%
Sum of corrected areas:						57789807		

Aliphatic EPH 011425.M Sat Feb 01 00:38:52 2025

Continuing Calibration Report for SequenceID : FF020125AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FF015427.D

Aliphatic C9-C12	7864497.000	60.000	3.214	6.833	131074.950	133293.048	1.664
Aliphatic C12-C16	5485868.000	40.000	6.834	10.268	137146.700	138403.375	0.908
Aliphatic C16-C21	7976523.000	60.000	10.269	13.636	132942.050	144457.893	7.972
Aliphatic C21-C28	9708387.000	80.000	13.637	17.303	121354.838	142415.321	14.788
Aliphatic C28-C40	12710386.000	120.000	17.304	22.207	105919.883	104686.549	-1.178
Aliphatic EPH	43745661.000	360.000	3.214	22.207	121515.725	128213.342	5.224

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	31 Jan 2025 21:02
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015427.D	Misc:	
Instrument:	FID_F	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.214	6.833	7864497.000	60.000	ug/ml
Aliphatic C12-C16	6.834	10.268	5485868.000	40.000	ug/ml
Aliphatic C16-C21	10.269	13.636	7976523.000	60.000	ug/ml
Aliphatic C21-C28	13.637	17.303	9708387.000	80.000	ug/ml
Aliphatic C28-C40	17.304	22.207	12710386.000	120.000	ug/ml
Aliphatic EPH	3.214	22.207	43745661.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
 Data File : FF015427.D
 Signal(s) : FID2B.ch
 Acq On : 31 Jan 2025 21:02
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
 Quant Time: Jan 31 23:25:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.935	2889593	18.175 ug/ml
Spiked Amount 50.000		Recovery =	36.35%
12) S 1-chlorooctadecane (S...	13.373	2213219	17.753 ug/ml
Spiked Amount 50.000		Recovery =	35.51%
Target Compounds			
1) T n-Nonane (C9)	3.317	2545870	19.394 ug/ml
2) T n-Decane (C10)	4.571	2626911	19.639 ug/ml
3) T A~Naphthalene (C11.7)	6.274	2829746	19.456 ug/ml
4) T n-Dodecane (C12)	6.736	2691716	19.961 ug/ml
5) T A~2-methylnaphthalene...	7.370	2746259	19.517 ug/ml
6) T n-Tetradecane (C14)	8.563	2699073	19.977 ug/ml
7) T n-Hexadecane (C16)	10.171	2786795	19.667 ug/ml
8) T n-Octadecane (C18)	11.616	2787368	19.033 ug/ml
10) T n-Eicosane (C20)	12.927	2632036	18.255 ug/ml
11) T n-Heneicosane (C21)	13.540	2557119	17.914 ug/ml
13) T n-Docosane (C22)	14.127	2517363	17.563 ug/mlm
14) T n-Tetracosane (C24)	15.233	2455805	16.929 ug/ml
15) T n-Hexacosane (C26)	16.257	2364630	16.639 ug/ml
16) T n-Octacosane (C28)	17.210	2370589	17.036 ug/mlm
17) T n-Tricontane (C30)	18.098	2524830	18.129 ug/mlm
18) T n-Dotriacontane (C32)	18.931	2511123	19.252 ug/mlm
19) T n-Tetratriacontane (C34)	19.718	2197089	20.211 ug/mlm
20) T n-Hexatriacontane (C36)	20.458	1868773	21.247 ug/mlm
21) T n-Octatriacontane (C38)	21.198	1835976	22.278 ug/mlm
22) T n-Tetracontane (C40)	22.119	1772595	22.342 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020125AL\
Data File : FF015427.D
Signal(s) : FID2B.ch
Acq On : 31 Jan 2025 21:02
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

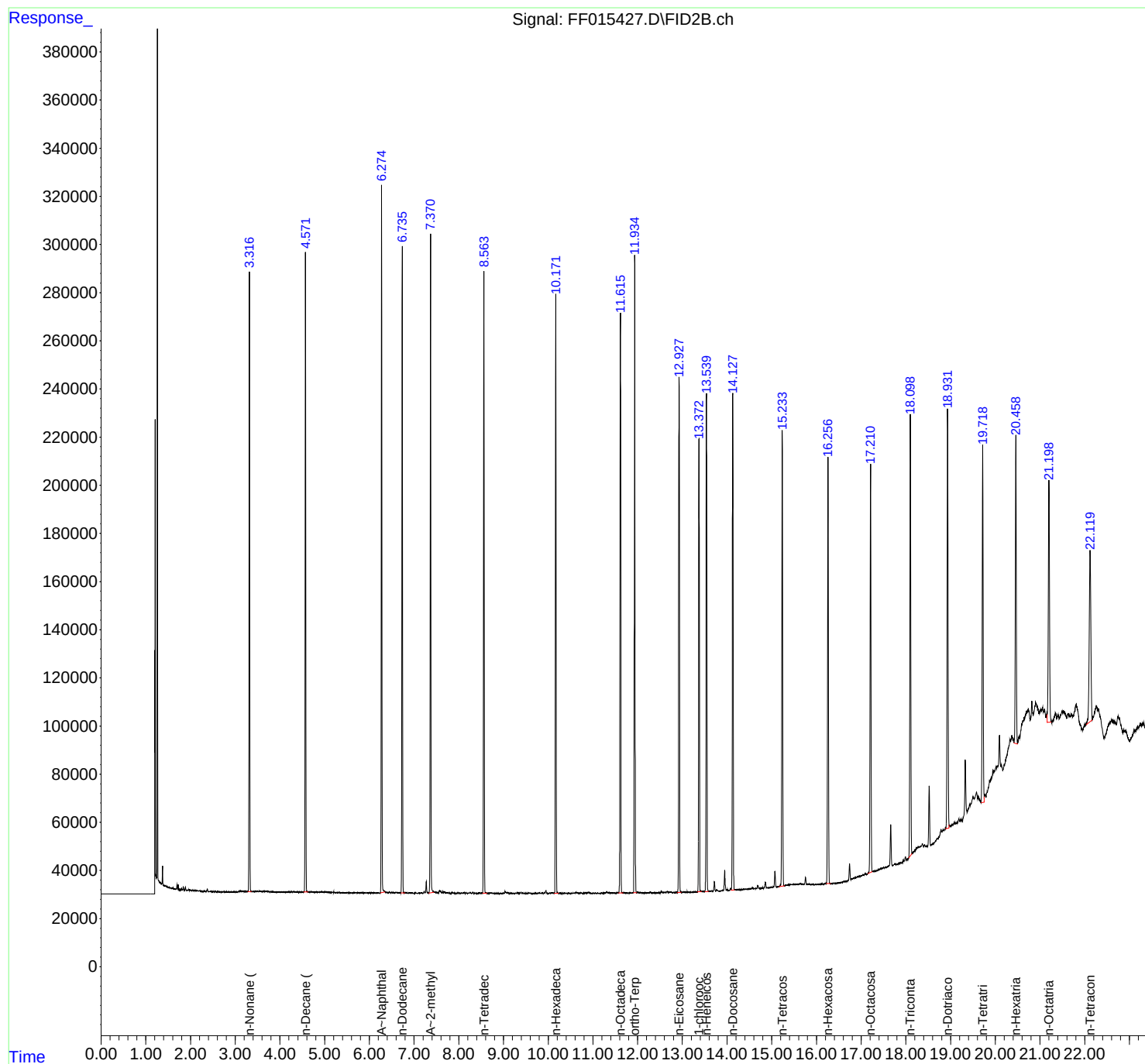
Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E
Quant Time: Jan 31 23:25:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF02012
Data File : FF015427.D
Signal(s) : FID2B.ch
Acq On : 31 Jan 2025 21:02
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.317	3.278	3.368	BB	256447	2545870	88.10%	4.688%
2	4.571	4.528	4.628	BB	265579	2626911	90.91%	4.837%
3	6.274	6.241	6.345	BB	293204	2829746	97.93%	5.211%
4	6.736	6.701	6.798	BB	266485	2691716	93.15%	4.956%
5	7.370	7.328	7.448	BB	273924	2746259	95.04%	5.057%
6	8.563	8.528	8.628	BB	259068	2699073	93.41%	4.970%
7	10.171	10.131	10.235	BB	248736	2786795	96.44%	5.131%
8	11.616	11.568	11.675	BB	239543	2787368	96.46%	5.133%
9	11.935	11.898	11.981	BB	264922	2889593	100.00%	5.321%
10	12.927	12.888	12.981	BB	214099	2632036	91.09%	4.847%
11	13.373	13.331	13.435	BB	187452	2213219	76.59%	4.075%
12	13.540	13.501	13.591	BB	206592	2557119	88.49%	4.709%
13	14.127	14.048	14.195	BB	206515	2528023	87.49%	4.655%
14	15.233	15.161	15.291	BB	189982	2455805	84.99%	4.522%
15	16.257	16.215	16.325	BB	176301	2364630	81.83%	4.354%
16	17.209	17.121	17.265	BB	169189	2373731	82.15%	4.371%
17	18.098	18.018	18.135	BB	183634	2510422	86.88%	4.623%
18	18.932	18.818	18.998	BB	173283	2545556	88.09%	4.687%
19	19.717	19.641	19.788	BB	147194	2113452	73.14%	3.892%
20	20.458	20.385	20.495	BV	127261	1827714	63.25%	3.365%
21	21.199	21.101	21.263	BV	98958	1740134	60.22%	3.204%
22	22.120	21.958	22.171	BV	70782	1842734	63.77%	3.393%
Sum of corrected areas:						54307904		

Aliphatic EPH 011425.M Sat Feb 01 00:40:06 2025

Continuing Calibration Report for SequenceID : FF020325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FF015430.D

Aliphatic C9-C12	8714399.000	60.000	3.213	6.835	145239.983	133293.048	-8.963
Aliphatic C12-C16	6093184.000	40.000	6.836	10.270	152329.600	138403.375	-10.062
Aliphatic C16-C21	8984906.000	60.000	10.271	13.640	149748.433	144457.893	-3.662
Aliphatic C21-C28	10909299.000	80.000	13.641	17.307	136366.238	142415.321	4.247
Aliphatic C28-C40	12159714.000	120.000	17.308	22.219	101330.950	104686.549	3.205
Aliphatic EPH	46861502.000	360.000	3.213	22.219	130170.839	128213.342	-1.527

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	03 Feb 2025 10:59
Client Sample ID:		Operator:	YPVAJ
Data file:	FF015430.D	Misc:	
Instrument:	FID_F	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.213	6.835	8714399.000	60.000	ug/ml
Aliphatic C12-C16	6.836	10.270	6093184.000	40.000	ug/ml
Aliphatic C16-C21	10.271	13.640	8984906.000	60.000	ug/ml
Aliphatic C21-C28	13.641	17.307	10909299.000	80.000	ug/ml
Aliphatic C28-C40	17.308	22.219	12159714.000	120.000	ug/ml
Aliphatic EPH	3.213	22.219	46861502.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020325AL\
 Data File : FF015430.D
 Signal(s) : FID2B.ch
 Acq On : 03 Feb 2025 10:59
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/04/2025
 Supervised By :Ankita Jodhani 02/04/2025

Integration File: autoint1.e
 Quant Time: Feb 03 11:45:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.935	3265486	20.539 ug/ml
Spiked Amount 50.000		Recovery =	41.08%
12) S 1-chlorooctadecane (S...	13.373	2211706	17.741 ug/ml
Spiked Amount 50.000		Recovery =	35.48%
Target Compounds			
1) T n-Nonane (C9)	3.313	2809446	21.402 ug/ml
2) T n-Decane (C10)	4.568	2919885	21.829 ug/ml
3) T A~Naphthalene (C11.7)	6.273	3124886	21.486 ug/ml
4) T n-Dodecane (C12)	6.735	2985068	22.137 ug/ml
5) T A~2-methylnaphthalene...	7.369	3005787	21.361 ug/ml
6) T n-Tetradecane (C14)	8.562	2991461	22.141 ug/ml
7) T n-Hexadecane (C16)	10.170	3101723	21.890 ug/ml
8) T n-Octadecane (C18)	11.616	3156252	21.552 ug/ml
10) T n-Eicosane (C20)	12.926	2955033	20.496 ug/ml
11) T n-Heneicosane (C21)	13.540	2873621	20.131 ug/ml
13) T n-Docosane (C22)	14.127	2844187	19.843 ug/ml
14) T n-Tetracosane (C24)	15.232	2761458	19.036 ug/ml
15) T n-Hexacosane (C26)	16.256	2651854	18.661 ug/ml
16) T n-Octacosane (C28)	17.207	2651800	19.057 ug/ml
17) T n-Tricontane (C30)	18.096	2804355	20.136 ug/ml
18) T n-Dotriacontane (C32)	18.931	2764215	21.193 ug/ml
19) T n-Tetratriacontane (C34)	19.716	2230076	20.514 ug/ml
20) T n-Hexatriacontane (C36)	20.459	1689522	19.209 ug/ml
21) T n-Octatriacontane (C38)	21.200	1478343	17.939 ug/ml
22) T n-Tetracontane (C40)	22.119	1193203	15.039 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020325AL\
Data File : FF015430.D
Signal(s) : FID2B.ch
Acq On : 03 Feb 2025 10:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

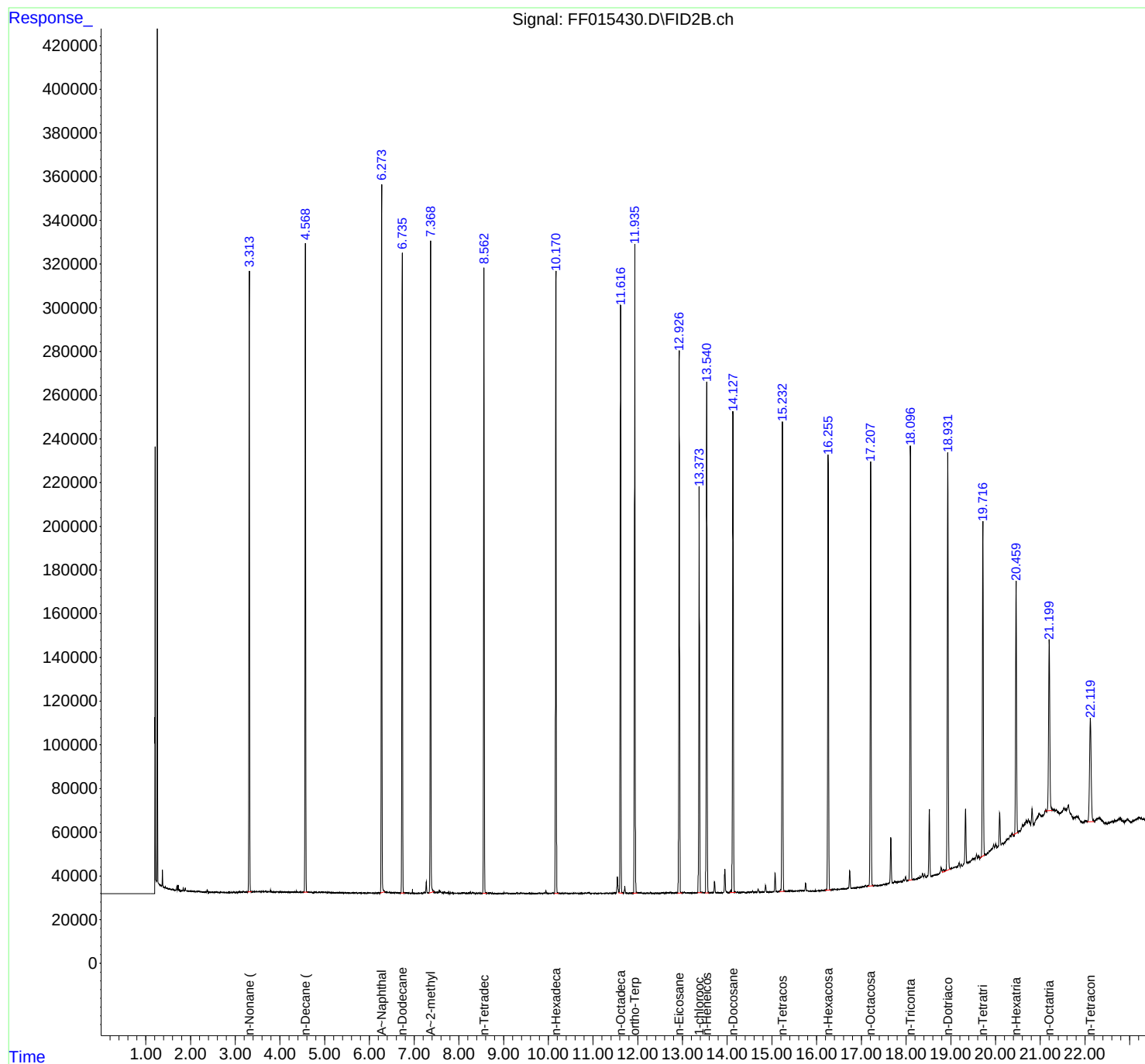
Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

Integration File: autoint1.e
Quant Time: Feb 03 11:45:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF02032
Data File : FF015430.D
Signal(s) : FID2B.ch
Acq On : 03 Feb 2025 10:59
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.313	3.275	3.365	BB	280891	2809446	86.03%	4.806%
2	4.568	4.518	4.625	BB	295963	2919885	89.42%	4.995%
3	6.273	6.238	6.342	BB	320198	3124886	95.69%	5.346%
4	6.735	6.698	6.792	BB	293215	2985068	91.41%	5.107%
5	7.369	7.328	7.438	BB	298872	3005787	92.05%	5.142%
6	8.562	8.525	8.622	BB	285308	2991461	91.61%	5.118%
7	10.170	10.132	10.235	BB	286733	3101723	94.99%	5.306%
8	11.616	11.576	11.668	VB	267888	3156252	96.65%	5.400%
9	11.935	11.882	11.988	BB	297873	3265486	100.00%	5.587%
10	12.926	12.888	12.992	BB	245899	2955033	90.49%	5.055%
11	13.373	13.335	13.438	BB	185810	2211706	67.73%	3.784%
12	13.540	13.502	13.595	BB	232390	2873621	88.00%	4.916%
13	14.127	14.052	14.192	BB	221196	2844187	87.10%	4.866%
14	15.232	15.165	15.292	BB	213124	2761458	84.56%	4.724%
15	16.256	16.188	16.318	BB	198981	2651854	81.21%	4.537%
16	17.207	17.142	17.272	BB	193613	2651800	81.21%	4.537%
17	18.096	18.052	18.138	BB	198043	2804355	85.88%	4.798%
18	18.931	18.808	18.995	VB	190711	2764215	84.65%	4.729%
19	19.716	19.645	19.752	BB	153253	2230076	68.29%	3.815%
20	20.459	20.385	20.496	BB	115456	1689522	51.74%	2.890%
21	21.200	21.115	21.266	BB	78183	1478343	45.27%	2.529%
22	22.120	22.032	22.208	BB	46868	1176309	36.02%	2.012%
Sum of corrected areas:						58452472		

Aliphatic EPH 011425.M Mon Feb 03 11:48:49 2025

Continuing Calibration Report for SequenceID : FF020325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FF015435.D

Aliphatic C9-C12	8006762.000	60.000	3.213	6.835	133446.033	133293.048	-0.115
Aliphatic C12-C16	5498573.000	40.000	6.836	10.270	137464.325	138403.375	0.678
Aliphatic C16-C21	8038176.000	60.000	10.271	13.640	133969.600	144457.893	7.260
Aliphatic C21-C28	9540420.000	80.000	13.641	17.307	119255.250	142415.321	16.262
Aliphatic C28-C40	11027048.000	120.000	17.308	22.219	91892.067	104686.549	12.222
Aliphatic EPH	42110979.000	360.000	3.213	22.219	116974.942	128213.342	8.765

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	03 Feb 2025 14:19
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015435.D	Misc:	
Instrument:	FID_F	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.213	6.835	8006762.000	60.000	ug/ml
Aliphatic C12-C16	6.836	10.270	5498573.000	40.000	ug/ml
Aliphatic C16-C21	10.271	13.640	8038176.000	60.000	ug/ml
Aliphatic C21-C28	13.641	17.307	9540420.000	80.000	ug/ml
Aliphatic C28-C40	17.308	22.219	11027048.000	120.000	ug/ml
Aliphatic EPH	3.213	22.219	42110979.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020325AL\
 Data File : FF015435.D
 Signal(s) : FID2B.ch
 Acq On : 03 Feb 2025 14:19
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/04/2025
 Supervised By :Ankita Jodhani 02/04/2025

Integration File: autoint1.e
 Quant Time: Feb 04 04:35:03 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
 Quant Title : GC Extractables
 QLast Update : Tue Jan 14 15:33:37 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)	11.935	2930528	18.432 ug/ml
Spiked Amount 50.000		Recovery =	36.86%
12) S 1-chlorooctadecane (S...	13.373	2190929	17.574 ug/ml
Spiked Amount 50.000		Recovery =	35.15%
Target Compounds			
1) T n-Nonane (C9)	3.317	2611131	19.891 ug/ml
2) T n-Decane (C10)	4.572	2675013	19.998 ug/ml
3) T A~Naphthalene (C11.7)	6.275	2865079	19.699 ug/ml
4) T n-Dodecane (C12)	6.736	2720618	20.176 ug/ml
5) T A~2-methylnaphthalene...	7.370	2754659	19.577 ug/ml
6) T n-Tetradecane (C14)	8.563	2708022	20.043 ug/ml
7) T n-Hexadecane (C16)	10.171	2790551	19.694 ug/ml
8) T n-Octadecane (C18)	11.615	2800662	19.124 ug/ml
10) T n-Eicosane (C20)	12.927	2653852	18.407 ug/ml
11) T n-Heneicosane (C21)	13.540	2583662	18.100 ug/ml
13) T n-Docosane (C22)	14.128	2534736	17.684 ug/ml
14) T n-Tetracosane (C24)	15.232	2444731	16.853 ug/ml
15) T n-Hexacosane (C26)	16.255	2333294	16.419 ug/ml
16) T n-Octacosane (C28)	17.207	2227659	16.009 ug/ml
17) T n-Tricontane (C30)	18.097	2209025	15.861 ug/ml
18) T n-Dotriacontane (C32)	18.930	2101382	16.111 ug/ml
19) T n-Tetratriacontane (C34)	19.716	1864099	17.148 ug/mlm
20) T n-Hexatriacontane (C36)	20.458	1639609	18.642 ug/mlm
21) T n-Octatriacontane (C38)	21.199	1601770	19.436 ug/mlm
22) T n-Tetracontane (C40)	22.117	1611163	20.307 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF020325AL\
Data File : FF015435.D
Signal(s) : FID2B.ch
Acq On : 03 Feb 2025 14:19
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

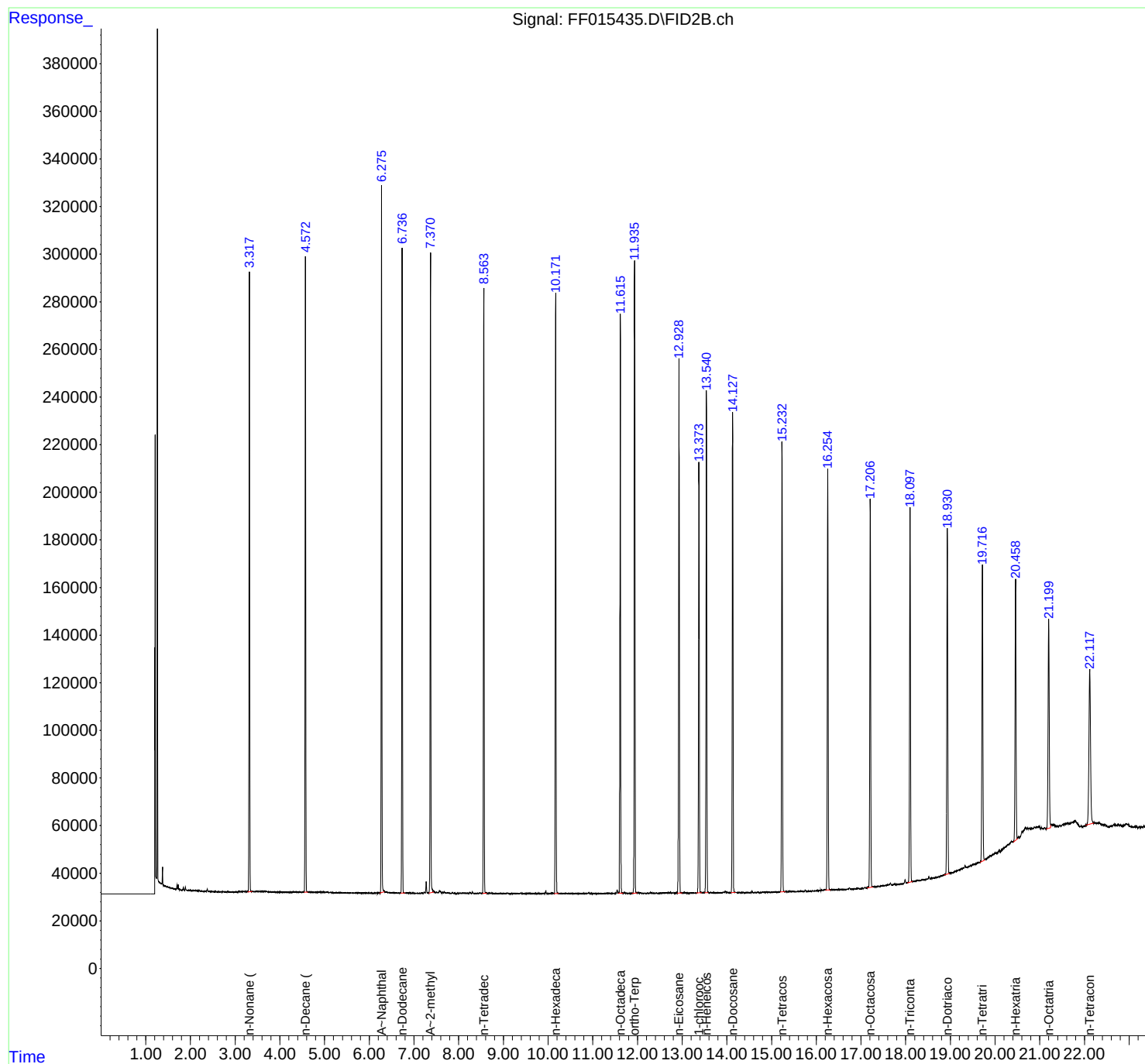
Instrument :
FID_F
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

Integration File: autoint1.e
Quant Time: Feb 04 04:35:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 15:33:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/04/2025
Supervised By :Ankita Jodhani 02/04/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF02032
Data File : FF015435.D
Signal(s) : FID2B.ch
Acq On : 03 Feb 2025 14:19
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.317	3.285	3.382	BB	260132	2611131	89.10%	4.949%
2	4.572	4.538	4.628	BB	266237	2675013	91.28%	5.070%
3	6.275	6.228	6.342	BB	296347	2865079	97.77%	5.430%
4	6.736	6.702	6.802	BB	267529	2720618	92.84%	5.156%
5	7.370	7.332	7.448	BB	269454	2754659	94.00%	5.221%
6	8.563	8.528	8.628	BB	252547	2708022	92.41%	5.132%
7	10.171	10.135	10.238	BB	253674	2790551	95.22%	5.289%
8	11.615	11.572	11.678	BB	243506	2800662	95.57%	5.308%
9	11.935	11.875	11.995	BB	265861	2930528	100.00%	5.554%
10	12.927	12.888	12.995	BB	225353	2653852	90.56%	5.030%
11	13.373	13.325	13.435	BB	180766	2190929	74.76%	4.152%
12	13.540	13.498	13.582	BB	210333	2583662	88.16%	4.897%
13	14.128	14.088	14.192	BB	201133	2534736	86.49%	4.804%
14	15.232	15.192	15.298	BB	188914	2444731	83.42%	4.633%
15	16.255	16.198	16.315	BB	176910	2333294	79.62%	4.422%
16	17.207	17.135	17.272	BB	162884	2227659	76.02%	4.222%
17	18.097	18.035	18.148	BB	156443	2209025	75.38%	4.187%
18	18.930	18.858	18.985	BB	143812	2101382	71.71%	3.983%
19	19.716	19.638	19.758	BB	123590	1848295	63.07%	3.503%
20	20.458	20.385	20.495	BB	109684	1620366	55.29%	3.071%
21	21.199	21.118	21.245	BB	86945	1548660	52.85%	2.935%
22	22.117	22.025	22.208	BB	64999	1611163	54.98%	3.054%
Sum of corrected areas:						52764016		

Aliphatic EPH 011425.M Tue Feb 04 05:56:31 2025



QC SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	PB166417BL	SDG No.:	Q1237
Lab Sample ID:	PB166417BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 13:52	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC068162.D
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1	1.72	3.99	mg/kg	FC068162.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	PB166417BL	SDG No.:	Q1237
Lab Sample ID:	PB166417BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068162.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.1		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166417BL	Acq On:	31 Jan 2025 13:52
Client Sample ID:	PB166417BL	Operator:	YP/AJ
Data file:	FC068162.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	3.128	6.394	0	0	300	ug/ml
Aliphatic C12-C16	6.395	9.777	0	0	200	ug/ml
Aliphatic C16-C21	9.778	13.129	0	0	300	ug/ml
Aliphatic C21-C28	13.130	16.780	0	0	400	ug/ml
Aliphatic C28-C40	16.781	21.588	0	0	600	ug/ml
Aliphatic EPH	3.128	21.588	0	0		ug/ml
ortho-Terphenyl (SURR)	11.423	11.423	5792898	37.07		ug/ml
1-chlorooctadecane (SURR)	12.863	12.863	4470888	38.88		ug/ml
Aliphatic C9-C28	3.128	16.780	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068162.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 13:52
Operator : YP/AJ
Sample : PB166417BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166417BL

Integration File: autoint1.e
Quant Time: Jan 31 22:15:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 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)	11.423	5792898	37.071 ug/ml
Spiked Amount	50.000	Recovery	= 74.14%
12) S 1-chlorooctadecane (S...	12.863	4470888	38.876 ug/ml
Spiked Amount	50.000	Recovery	= 77.75%

Target Compounds

(f)=RT Delta > 1/2 Window

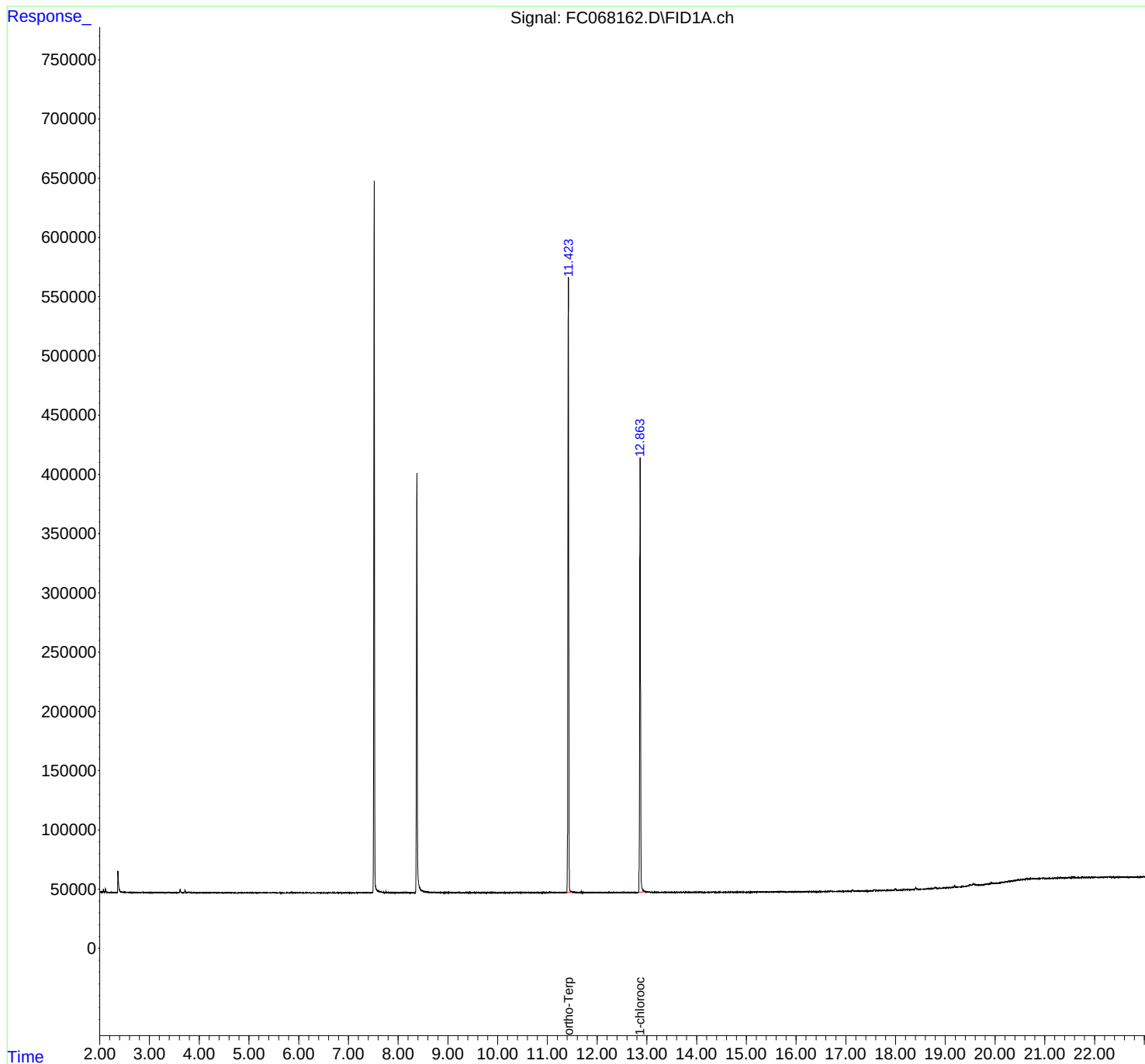
(m)=manual int.

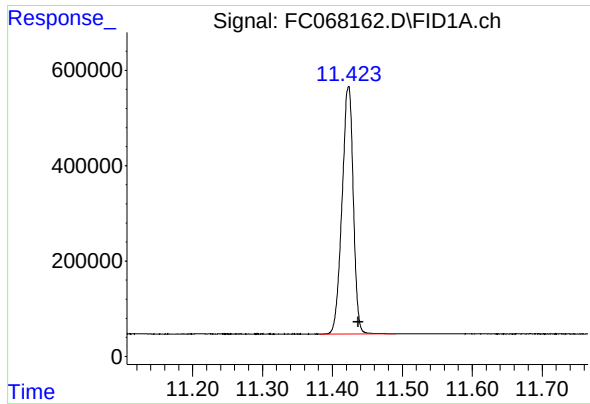
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068162.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 13:52
Operator : YP/AJ
Sample : PB166417BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166417BL

Integration File: autoint1.e
Quant Time: Jan 31 22:15:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

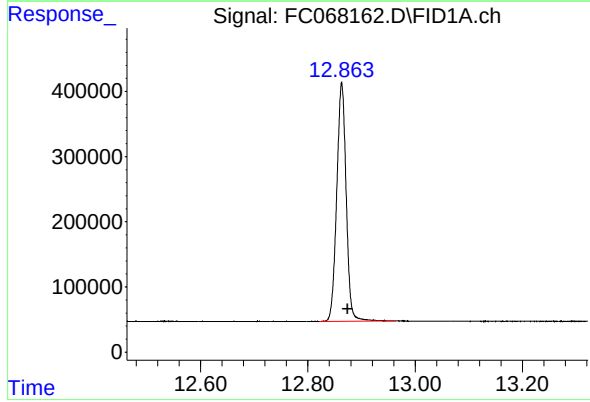




#9 ortho-Terphenyl (SURR)

R.T.: 11.423 min
Delta R.T.: -0.015 min
Response: 5792898
Conc: 37.07 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166417BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.863 min
Delta R.T.: -0.011 min
Response: 4470888
Conc: 38.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068162.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 13:52
Sample : PB166417BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.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	11.423	11.381	11.491	BB	524630	5792898	100.00%	56.440%
2	12.863	12.821	12.964	BB	364598	4470888	77.18%	43.560%
Sum of corrected areas:							10263786	

Aliphatic EPH 012425.M Fri Jan 31 22:43:15 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	PB166417BS	SDG No.:	Q1237
Lab Sample ID:	PB166417BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 14:28	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	36.3		1	1.80	2.00	mg/kg	FC068163.D
Aliphatic C9-C28	Aliphatic C9-C28	100	E	1	1.72	3.99	mg/kg	FC068163.D
Total AliphaticEPH	Total AliphaticEPH	137			3.52	5.99	mg/kg	
Total EPH	Total EPH	137			3.52	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	PB166417BS	SDG No.:	Q1237
Lab Sample ID:	PB166417BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068163.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	100	E	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	36.3		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.8		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.0		40 - 140	72%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166417BS	Acq On:	31 Jan 2025 14:28
Client Sample ID:	PB166417BS	Operator:	YP/AJ
Data file:	FC068163.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	3.128	6.394	37636970	271.77	300	ug/ml
Aliphatic C12-C16	6.395	9.777	47325227	343.651	200	ug/ml
Aliphatic C16-C21	9.778	13.129	52815440	391.17	300	ug/ml
Aliphatic C21-C28	13.130	16.780	63280237	497.457	400	ug/ml
Aliphatic C28-C40	16.781	21.588	56465452	544.829	600	ug/ml
Aliphatic EPH	3.128	21.588	257523326	2050		ug/ml
ortho-Terphenyl (SURR)	11.422	11.422	5633426	36.05		ug/ml
1-chlorooctadecane (SURR)	12.862	12.862	4459606	38.78		ug/ml
Aliphatic C9-C28	3.128	16.780	201057874	1500	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
 Data File : FC068163.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 14:28
 Operator : YP/AJ
 Sample : PB166417BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

FID_C

ClientSampleId :

PB166417BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e

Quant Time: Jan 31 22:15:29 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M

Quant Title : GC Extractables

QLast Update : Sat Jan 25 04:31:18 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)	11.422	5633426	36.050 ug/ml
Spiked Amount 50.000		Recovery =	72.10%
12) S 1-chlorooctadecane (S...	12.862	4459606	38.778 ug/ml
Spiked Amount 50.000		Recovery =	77.56%
Target Compounds			
1) T n-Nonane (C9)	3.242	6877569	50.226 ug/ml
2) T n-Decane (C10)	4.294	7231776	52.090 ug/ml
3) T A~Naphthalene (C11.7)	5.858	8295085	55.254 ug/ml
4) T n-Dodecane (C12)	6.297	7286249	52.157 ug/ml
5) T A~2-methylnaphthalene...	6.908	7630698	53.126 ug/ml
6) T n-Tetradecane (C14)	8.086	7321859	53.649 ug/ml
7) T n-Hexadecane (C16)	9.679	7188011	51.732 ug/mlm
8) T n-Octadecane (C18)	11.118	7091598	50.685 ug/ml
10) T n-Eicosane (C20)	12.424	7264693	54.294 ug/ml
11) T n-Heneicosane (C21)	13.033	6894721	52.495 ug/ml
13) T n-Docosane (C22)	13.617	6823062	52.674 ug/ml
14) T n-Tetracosane (C24)	14.681	14172015	110.386 ug/mlm
15) T n-Hexacosane (C26)	15.738	6578114	52.275 ug/ml
16) T n-Octacosane (C28)	16.684	6510893	52.057 ug/ml
17) T n-Tricontane (C30)	17.573	6488798	50.201 ug/ml
18) T n-Dotriacontane (C32)	18.400	6329284	50.630 ug/ml
19) T n-Tetratriacontane (C34)	19.183	6120452	56.422 ug/ml
20) T n-Hexatriacontane (C36)	19.920	5603522	60.550 ug/ml
21) T n-Octatriacontane (C38)	20.633	5219843	60.917 ug/ml
22) T n-Tetracontane (C40)	21.495	4954449	61.272 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068163.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 14:28
Operator : YP/AJ
Sample : PB166417BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

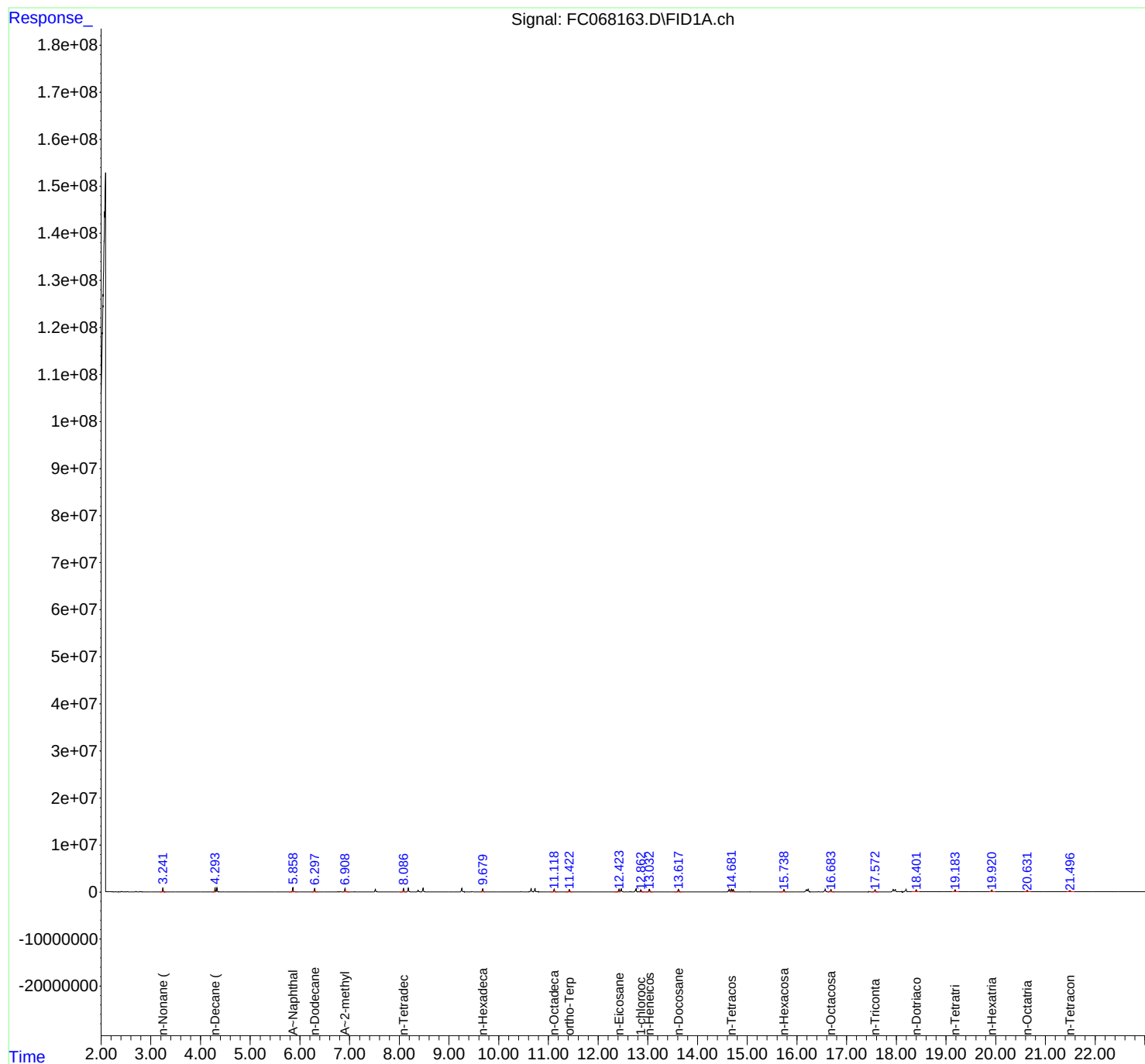
Instrument :
FID_C
ClientSampleId :
PB166417BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Jan 31 22:15:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_C

ClientSampleId :

PB166417BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC01312
Data File : FC068163.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 14:28
Sample : PB166417BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.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	3.242	3.188	3.304	BB	841427	6877569	80.10%	2.570%
2	4.294	4.234	4.311	BV	816150	7231776	84.22%	2.702%
3	4.330	4.311	4.404	VB	890156	7946291	92.54%	2.969%
4	5.858	5.781	5.941	BB	902474	8295085	96.60%	3.100%
5	6.297	6.231	6.361	BB	740511	7286249	84.86%	2.723%
6	6.908	6.861	7.004	BB	760413	7630698	88.87%	2.851%
7	8.086	8.008	8.148	BB	683727	7321859	85.27%	2.736%
8	8.182	8.151	8.254	BB	806298	8299253	96.65%	3.101%
9	8.479	8.444	8.548	VB	810579	8586685	100.00%	3.209%
10	9.259	9.174	9.361	BB	749686	8309832	96.78%	3.105%
11	9.679	9.598	9.748	BB	645936	7176900	83.58%	2.682%
12	10.654	10.554	10.694	BV	721349	8018719	93.39%	2.996%
13	10.731	10.694	10.831	VB	705266	7993480	93.09%	2.987%
14	11.118	11.044	11.184	BB	596977	7091598	82.59%	2.650%
15	11.422	11.344	11.488	BB	514765	5633426	65.61%	2.105%
16	12.424	12.334	12.442	BV	613589	7264693	84.60%	2.715%
17	12.466	12.442	12.551	VB	672142	7763512	90.41%	2.901%
18	12.763	12.681	12.795	BV	669681	7788717	90.71%	2.910%
19	12.862	12.830	12.928	VB	381997	4459606	51.94%	1.666%
20	13.033	12.951	13.101	BB	553492	6894721	80.30%	2.576%
21	13.617	13.538	13.688	BB	553019	6823062	79.46%	2.550%
22	14.636	14.544	14.656	BV	553460	7425284	86.47%	2.775%
23	14.681	14.656	14.697	VV	623525	7448096	86.74%	2.783%
24	14.718	14.697	14.788	VB	520353	6680434	77.80%	2.496%
25	15.738	15.648	15.788	BB	491109	6578114	76.61%	2.458%
26	16.190	16.108	16.205	BV	470033	7329104	85.35%	2.739%
27	16.226	16.205	16.304	VB	600323	7364291	85.76%	2.752%
28	16.569	16.488	16.621	BV	517752	7120959	82.93%	2.661%
29	16.684	16.621	16.754	VB	478971	6510893	75.83%	2.433%
30	17.573	17.498	17.641	BB	459064	6488798	75.57%	2.425%
31	17.938	17.841	17.954	BV	484516	7542172	87.84%	2.818%
32	17.977	17.954	18.061	VB	508747	7007668	81.61%	2.619%
33	18.196	18.101	18.278	BB	473284	7199264	83.84%	2.690%
34	18.400	18.318	18.468	BB	435537	6329284	73.71%	2.365%
35	19.183	19.121	19.251	BB	430505	6120452	71.28%	2.287%
36	19.920	19.871	19.991	BB	378860	5603522	65.26%	2.094%

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	PB166417BSD	SDG No.:	Q1237
Lab Sample ID:	PB166417BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 15:29	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	34.8		1	1.80	2.00	mg/kg	FC068164.D
Aliphatic C9-C28	Aliphatic C9-C28	96.8	E	1	1.72	4.00	mg/kg	FC068164.D
Total AliphaticEPH	Total AliphaticEPH	132			3.52	6.00	mg/kg	
Total EPH	Total EPH	132			3.52	6.00	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	PB166417BSD	SDG No.:	Q1237
Lab Sample ID:	PB166417BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068164.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	96.8	E	1.72	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.8		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.4		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.8		40 - 140	70%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166417BSD	Acq On:	31 Jan 2025 15:29
Client Sample ID:	PB166417BSD	Operator:	YP/AJ
Data file:	FC068164.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	3.128	6.394	36505289	263.599	300	ug/ml
Aliphatic C12-C16	6.395	9.777	45811972	332.662	200	ug/ml
Aliphatic C16-C21	9.778	13.129	50947658	377.336	300	ug/ml
Aliphatic C21-C28	13.130	16.780	60831056	478.203	400	ug/ml
Aliphatic C28-C40	16.781	21.588	54143474	522.424	600	ug/ml
Aliphatic EPH	3.128	21.588	248239449	1970		ug/ml
ortho-Terphenyl (SURR)	11.423	11.423	5442574	34.83		ug/ml
1-chlorooctadecane (SURR)	12.863	12.863	4299217	37.38		ug/ml
Aliphatic C9-C28	3.128	16.780	194095975	1450	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
 Data File : FC068164.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 15:29
 Operator : YP/AJ
 Sample : PB166417BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB166417BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Jan 31 22:15:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 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)	11.423	5442574	34.829 ug/ml
Spiked Amount 50.000		Recovery =	69.66%
12) S 1-chlorooctadecane (S...	12.863	4299217	37.384 ug/ml
Spiked Amount 50.000		Recovery =	74.77%
Target Compounds			
1) T n-Nonane (C9)	3.241	6678703	48.773 ug/ml
2) T n-Decane (C10)	4.294	7014785	50.527 ug/ml
3) T A~Naphthalene (C11.7)	5.858	8035481	53.525 ug/ml
4) T n-Dodecane (C12)	6.297	7062157	50.553 ug/ml
5) T A~2-methylnaphthalene...	6.910	7385600	51.420 ug/ml
6) T n-Tetradecane (C14)	8.087	7087210	51.929 ug/ml
7) T n-Hexadecane (C16)	9.680	6940417	49.950 ug/ml
8) T n-Octadecane (C18)	11.119	6853034	48.980 ug/ml
10) T n-Eicosane (C20)	12.424	7003038	52.339 ug/ml
11) T n-Heneicosane (C21)	13.034	6643849	50.585 ug/ml
13) T n-Docosane (C22)	13.619	6571045	50.728 ug/ml
14) T n-Tetracosane (C24)	14.682	13592526	105.872 ug/mlm
15) T n-Hexacosane (C26)	15.741	6318904	50.215 ug/ml
16) T n-Octacosane (C28)	16.686	6253866	50.002 ug/ml
17) T n-Tricontane (C30)	17.574	6214218	48.077 ug/ml
18) T n-Dotriacontane (C32)	18.404	6053285	48.422 ug/ml
19) T n-Tetratriacontane (C34)	19.185	5864240	54.061 ug/ml
20) T n-Hexatriacontane (C36)	19.922	5373022	58.060 ug/ml
21) T n-Octatriacontane (C38)	20.637	5017746	58.558 ug/ml
22) T n-Tetracontane (C40)	21.498	4768198	58.969 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068164.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 15:29
Operator : YP/AJ
Sample : PB166417BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

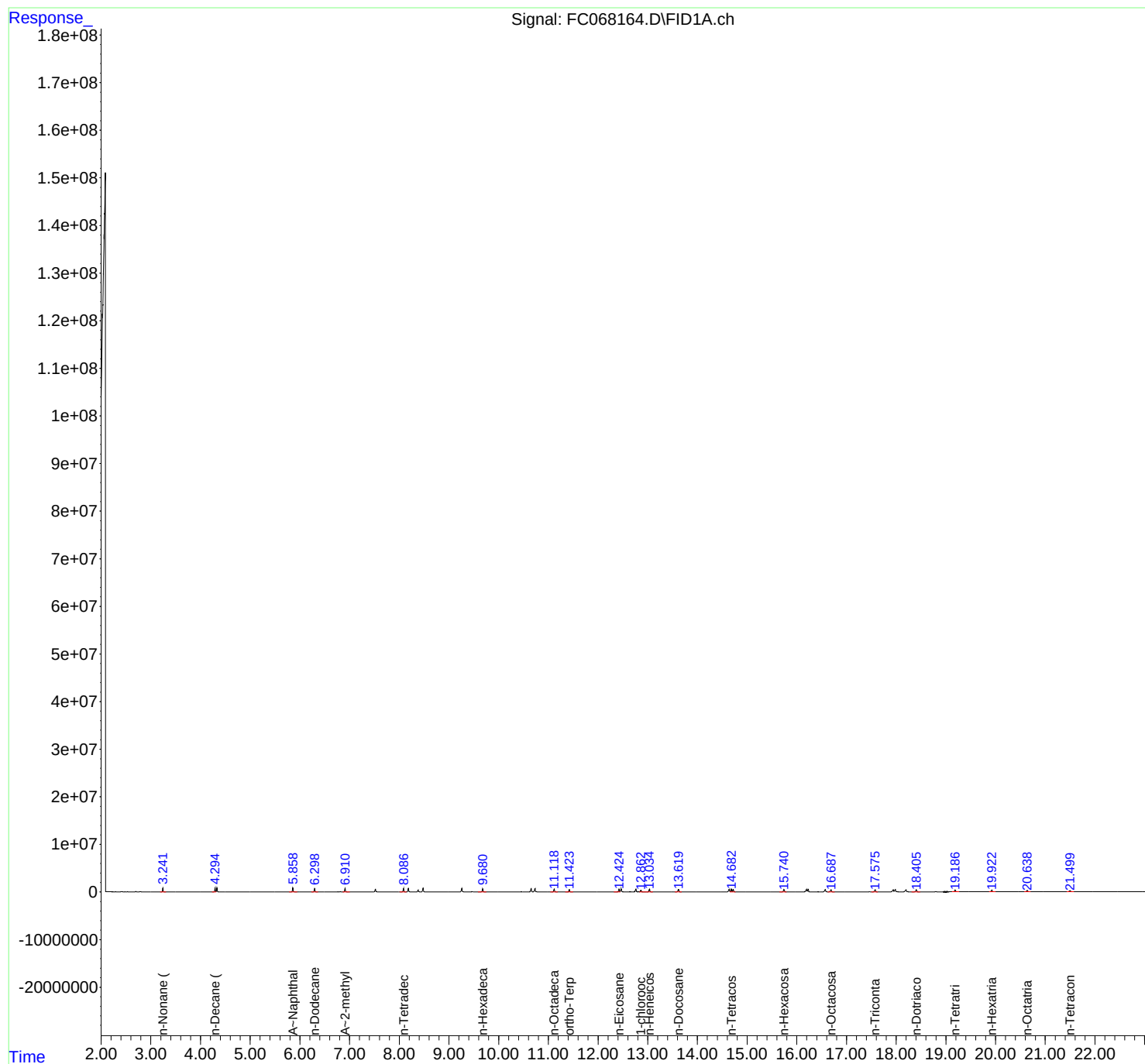
Instrument :
FID_C
ClientSampleId :
PB166417BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Jan 31 22:15:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_C

ClientSampleId :

PB166417BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC01312
Data File : FC068164.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 15:29
Sample : PB166417BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.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	3.241	3.188	3.304	BB	810118	6678703	80.31%	2.589%
2	4.294	4.231	4.312	BV	783689	7014785	84.35%	2.719%
3	4.331	4.312	4.404	VB	865115	7714163	92.76%	2.990%
4	5.858	5.781	5.948	BB	866202	8035481	96.62%	3.115%
5	6.297	6.231	6.368	BB	705220	7062157	84.92%	2.737%
6	6.910	6.861	7.004	BB	761154	7385600	88.81%	2.863%
7	8.087	8.004	8.144	BV	687881	7087210	85.22%	2.747%
8	8.183	8.144	8.284	PB	790029	8047148	96.76%	3.119%
9	8.480	8.444	8.558	VB	809578	8316602	100.00%	3.224%
10	9.260	9.178	9.354	BB	755588	8034995	96.61%	3.115%
11	9.680	9.584	9.751	BB	633950	6940417	83.45%	2.690%
12	10.655	10.541	10.695	BV	696433	7739140	93.06%	3.000%
13	10.731	10.695	10.828	VB	655919	7718274	92.81%	2.992%
14	11.119	11.038	11.191	BB	596466	6853034	82.40%	2.656%
15	11.423	11.338	11.498	BB	510483	5442574	65.44%	2.110%
16	12.424	12.318	12.443	BV	580131	7003038	84.21%	2.715%
17	12.467	12.443	12.544	VB	623887	7474998	89.88%	2.897%
18	12.764	12.684	12.797	BV	611414	7515325	90.37%	2.913%
19	12.863	12.831	12.941	VB	355738	4299217	51.69%	1.666%
20	13.034	12.941	13.108	BB	556626	6643849	79.89%	2.575%
21	13.619	13.544	13.684	BB	504928	6571045	79.01%	2.547%
22	14.638	14.541	14.658	BV	514661	7149641	85.97%	2.771%
23	14.682	14.658	14.698	VV	618277	7155254	86.04%	2.774%
24	14.719	14.698	14.798	VB	495727	6453366	77.60%	2.501%
25	15.741	15.651	15.794	BB	481873	6318904	75.98%	2.449%
26	16.191	16.098	16.207	BV	471390	7030001	84.53%	2.725%
27	16.227	16.207	16.308	VB	569890	7068465	84.99%	2.740%
28	16.570	16.468	16.621	BV	499831	6830514	82.13%	2.648%
29	16.686	16.621	16.764	VB	442105	6253866	75.20%	2.424%
30	17.574	17.501	17.628	BB	464343	6214218	74.72%	2.409%
31	17.940	17.838	17.956	BV	458447	7185150	86.40%	2.785%
32	17.981	17.956	18.064	VB	501681	6773264	81.44%	2.625%
33	18.197	18.088	18.278	BB	465452	6894351	82.90%	2.672%
34	18.404	18.308	18.481	BB	423796	6053285	72.79%	2.346%
35	19.185	19.121	19.264	BB	388518	5864240	70.51%	2.273%
36	19.922	19.871	20.001	BB	361027	5373022	64.61%	2.083%

	Area	Time	Height	Area%	Height%	Integration	Integration
37	20.637	20.581	20.704	BB	295323	5017746	60.33%
38	21.498	21.431	21.574	BB	211736	4768198	57.67%
				Sum of corrected areas:	2579		

Aliphatic EPH 012425.M Fri Jan 31 22:46:06 2025

Instrument :
FID_C
ClientSampleId :
PB166417BSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	HL2PX6MS	SDG No.:	Q1237
Lab Sample ID:	Q1237-06MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 17:55	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	53.0	E	1	1.95	2.16	mg/kg	FC068168.D
Aliphatic C9-C28	Aliphatic C9-C28	134	E	1	1.86	4.32	mg/kg	FC068168.D
Total AliphaticEPH	Total AliphaticEPH	187			3.81	6.48	mg/kg	
Total EPH	Total EPH	187			3.81	6.48	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	HL2PX6MS	SDG No.:	Q1237
Lab Sample ID:	Q1237-06MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068168.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	134	E	1.86	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	53.0	E	1.95	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.1		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.4		40 - 140	67%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1237-06MS	Acq On:	31 Jan 2025 17:55
Client Sample ID:	HL2PX6MS	Operator:	YP/AJ
Data file:	FC068168.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	3.128	6.394	22663191	163.647	300	ug/ml
Aliphatic C12-C16	6.395	9.777	35181572	255.47	200	ug/ml
Aliphatic C16-C21	9.778	13.129	81940472	606.88	300	ug/ml
Aliphatic C21-C28	13.130	16.780	105259115	827.46	400	ug/ml
Aliphatic C28-C40	16.781	21.588	76154468	734.806	600	ug/ml
Aliphatic EPH	3.128	21.588	321198818	2590		ug/ml
ortho-Terphenyl (SURR)	11.424	11.424	5218508	33.39		ug/ml
1-chlorooctadecane (SURR)	12.864	12.864	4036643	35.1		ug/ml
Aliphatic C9-C28	3.128	16.780	245044350	1850	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
 Data File : FC068168.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 17:55
 Operator : YP/AJ
 Sample : Q1237-06MS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 HL2PX6MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Jan 31 22:17:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 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)	11.424	5218508	33.395 ug/mlm
Spiked Amount 50.000		Recovery =	66.79%
12) S 1-chlorooctadecane (S...	12.864	4036643	35.100 ug/ml
Spiked Amount 50.000		Recovery =	70.20%
Target Compounds			
1) T n-Nonane (C9)	3.231	3495875	25.530 ug/ml
2) T n-Decane (C10)	4.288	4116079	29.648 ug/ml
3) T A~Naphthalene (C11.7)	5.854	5057687	33.690 ug/ml
4) T n-Dodecane (C12)	6.295	4579115	32.779 ug/ml
5) T A~2-methylnaphthalene...	6.906	4847178	33.747 ug/ml
6) T n-Tetradecane (C14)	8.084	4910249	35.978 ug/ml
7) T n-Hexadecane (C16)	9.678	5169532	37.205 ug/mlm
8) T n-Octadecane (C18)	11.117	5016683	35.855 ug/mlm
10) T n-Eicosane (C20)	12.423	5101709	38.129 ug/ml
11) T n-Heneicosane (C21)	13.034	4851315	36.937 ug/mlm
13) T n-Docosane (C22)	13.618	4804903	37.094 ug/ml
14) T n-Tetracosane (C24)	14.678	9902276	77.129 ug/mlm
15) T n-Hexacosane (C26)	15.736	4689205	37.264 ug/mlm
16) T n-Octacosane (C28)	16.683	4648516	37.167 ug/mlm
17) T n-Tricontane (C30)	17.572	4611722	35.679 ug/mlm
18) T n-Dotriacontane (C32)	18.403	4520671	36.162 ug/mlm
19) T n-Tetratriacontane (C34)	19.182	4485853	41.354 ug/ml
20) T n-Hexatriacontane (C36)	19.921	4136248	44.695 ug/mlm
21) T n-Octatriacontane (C38)	20.634	3996269	46.637 ug/ml
22) T n-Tetracontane (C40)	21.492	3863059	47.775 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068168.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 17:55
Operator : YP/AJ
Sample : Q1237-06MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

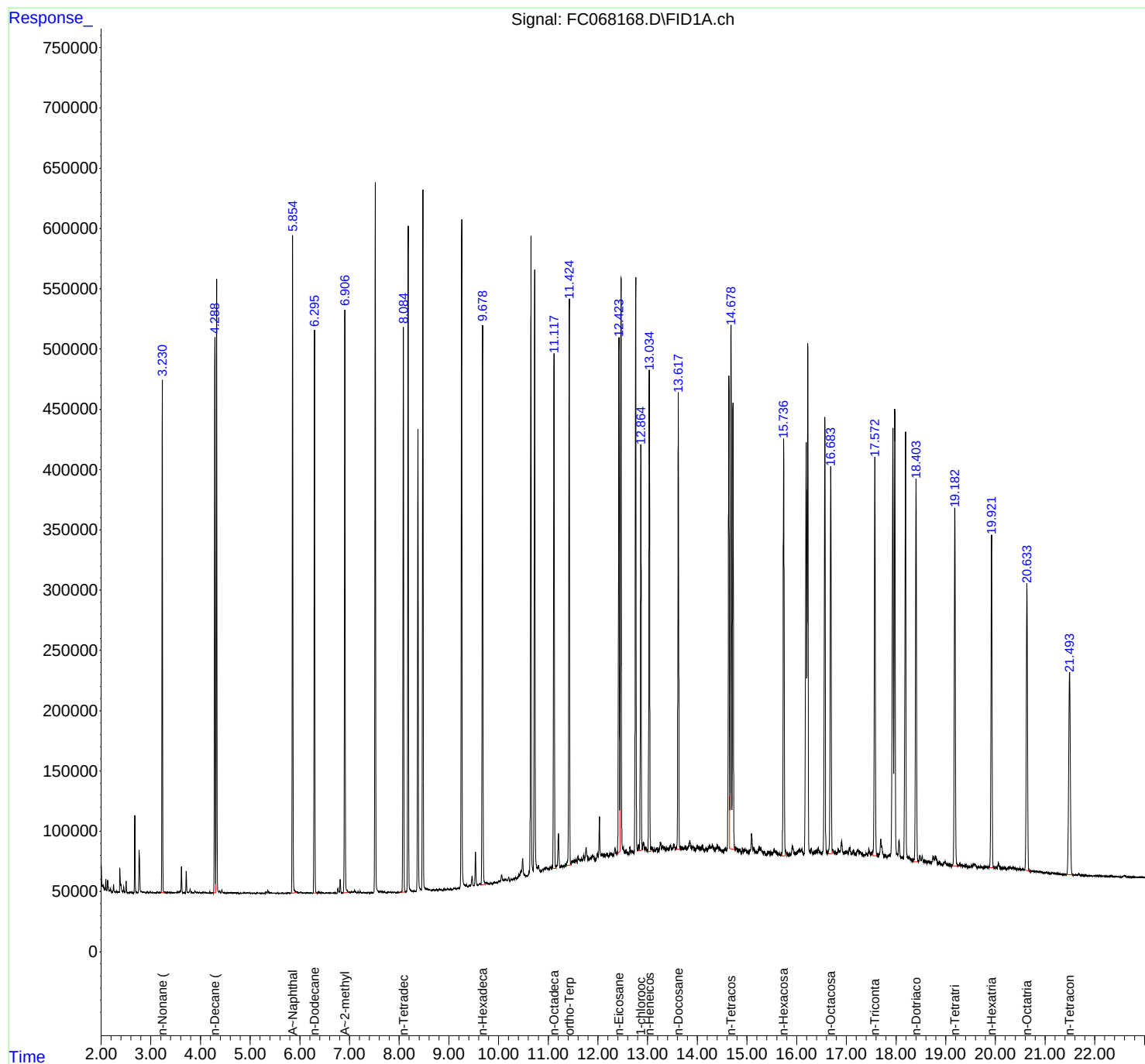
Instrument :
FID_C
ClientSampleID :
HL2PX6MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Jan 31 22:17:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



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Instrument :

FID_C

ClientSampleId :

HL2PX6MS

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC01312

Data File : FC068168.D

Signal(s) : FID1A.ch

Acq On : 31 Jan 2025 17:55

Sample : Q1237-06MS

Misc :

ALS Vial : 17 Sample Multiplier: 1

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.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	3.028	3.004	3.054	BV	165	1189	0.02%	0.000%
2	3.062	3.054	3.096	VV	100	965	0.01%	0.000%
3	3.129	3.096	3.151	PV	615	8857	0.12%	0.003%
4	3.164	3.151	3.178	VV	360	4732	0.06%	0.001%
5	3.190	3.178	3.203	VV	335	3864	0.05%	0.001%
6	3.231	3.203	3.333	VV	425020	3509929	47.50%	1.075%
7	3.351	3.333	3.367	VV	459	5782	0.08%	0.002%
8	3.384	3.367	3.414	VV	982	11442	0.15%	0.004%
9	3.430	3.414	3.476	VV	388	6941	0.09%	0.002%
10	3.490	3.476	3.515	VV	298	4654	0.06%	0.001%
11	3.533	3.515	3.552	VV	845	11521	0.16%	0.004%
12	3.568	3.552	3.576	VV	875	8683	0.12%	0.003%
13	3.588	3.576	3.597	VV	1476	13191	0.18%	0.004%
14	3.617	3.597	3.694	VV	21876	193872	2.62%	0.059%
15	3.714	3.694	3.764	VV	17772	157921	2.14%	0.048%
16	3.791	3.764	3.814	VV	3385	43311	0.59%	0.013%
17	3.824	3.814	3.866	VV	586	8051	0.11%	0.002%
18	3.888	3.866	3.924	VV	1821	27236	0.37%	0.008%
19	3.932	3.924	3.963	VV	711	11351	0.15%	0.003%
20	3.976	3.963	4.031	VV	414	8880	0.12%	0.003%
21	4.053	4.031	4.078	VV	983	13315	0.18%	0.004%
22	4.086	4.078	4.138	VV	469	8734	0.12%	0.003%
23	4.145	4.138	4.178	VV	170	3126	0.04%	0.001%
24	4.187	4.178	4.234	VV	276	5957	0.08%	0.002%
25	4.243	4.234	4.258	VV	159	1098	0.01%	0.000%
26	4.288	4.258	4.306	PV	460524	4122930	55.80%	1.263%
27	4.324	4.306	4.372	VV	509154	4490602	60.77%	1.376%
28	4.388	4.372	4.412	VV	1961	25565	0.35%	0.008%
29	4.431	4.412	4.465	VV	2836	33806	0.46%	0.010%
30	4.481	4.465	4.501	VV	319	5942	0.08%	0.002%
31	4.511	4.501	4.521	VV	227	2509	0.03%	0.001%
32	4.538	4.521	4.554	VV	643	7570	0.10%	0.002%
33	4.565	4.554	4.601	VV	392	6577	0.09%	0.002%
34	4.614	4.601	4.624	VV	278	2625	0.04%	0.001%
35	4.656	4.624	4.674	VV	257	5862	0.08%	0.002%
36	4.705	4.674	4.730	VV	216	4645	0.06%	0.001%

					retention			
37	4.749	4.730	4.774	VV	206	2695	0.04%	0.001%
38	4.780	4.774	4.828	PV	40	1487		
39	4.877	4.828	4.914	VV	344	6822		
40	4.927	4.914	4.954	VV	236	3833		
41	4.972	4.954	4.982	VV	211	2674		
42	4.997	4.982	5.009	VV	202	2172		
43	5.028	5.009	5.068	VV	151	2853	0.04%	0.001%
44	5.096	5.068	5.100	VV	100	1147	0.02%	0.000%
45	5.142	5.100	5.195	VV	482	10368	0.14%	0.003%
46	5.204	5.195	5.258	VV	133	2619	0.04%	0.001%
47	5.263	5.258	5.287	PV	69	587	0.01%	0.000%
48	5.317	5.287	5.336	VV	1354	14175	0.19%	0.004%
49	5.354	5.336	5.409	VV	2297	34861	0.47%	0.011%
50	5.426	5.409	5.474	VV	549	9439	0.13%	0.003%
51	5.500	5.474	5.528	VV	190	3582	0.05%	0.001%
52	5.554	5.528	5.582	VV	529	6391	0.09%	0.002%
53	5.638	5.582	5.674	VV	158	5320	0.07%	0.002%
54	5.684	5.674	5.736	VV	144	2917	0.04%	0.001%
55	5.763	5.736	5.811	VV	269	5761	0.08%	0.002%
56	5.854	5.811	5.944	PV	543493	5087292	68.85%	1.559%
57	5.953	5.944	5.979	VV	790	12882	0.17%	0.004%
58	6.019	5.979	6.065	VV	1295	28648	0.39%	0.009%
59	6.094	6.065	6.115	VV	276	6887	0.09%	0.002%
60	6.143	6.115	6.161	VV	365	7573	0.10%	0.002%
61	6.186	6.161	6.264	VV	306	10422	0.14%	0.003%
62	6.295	6.264	6.355	VV	462748	4586984	62.08%	1.405%
63	6.374	6.355	6.425	VV	1179	21719	0.29%	0.007%
64	6.442	6.425	6.517	VV	450	9696	0.13%	0.003%
65	6.529	6.517	6.541	VV	125	1131	0.02%	0.000%
66	6.563	6.541	6.597	VV	250	5211	0.07%	0.002%
67	6.612	6.597	6.652	VV	213	3353	0.05%	0.001%
68	6.700	6.652	6.734	VV	274	4547	0.06%	0.001%
69	6.766	6.734	6.791	PV	3898	48971	0.66%	0.015%
70	6.813	6.791	6.866	VV	11438	125034	1.69%	0.038%
71	6.906	6.866	7.018	VV	485046	4897118	66.27%	1.501%
72	7.041	7.018	7.058	VV	1523	21510	0.29%	0.007%
73	7.067	7.058	7.084	VV	747	10472	0.14%	0.003%
74	7.102	7.084	7.150	VV	2121	45056	0.61%	0.014%
75	7.176	7.150	7.198	VV	1149	16506	0.22%	0.005%
76	7.213	7.198	7.244	VV	1495	17921	0.24%	0.005%
77	7.268	7.244	7.321	VV	581	13596	0.18%	0.004%
78	7.338	7.321	7.352	VV	186	2068	0.03%	0.001%
79	7.382	7.352	7.407	PV	694	9045	0.12%	0.003%
80	7.436	7.407	7.467	VV	188	3794	0.05%	0.001%
81	7.633	7.603	7.678	VV	1334	40195	0.54%	0.012%
82	7.697	7.678	7.752	VV	902	20833	0.28%	0.006%
83	7.778	7.752	7.797	VV	604	8672	0.12%	0.003%
84	7.835	7.797	7.853	VV	457	9047	0.12%	0.003%
85	7.873	7.853	7.886	VV	257	3888	0.05%	0.001%
86	7.902	7.886	7.934	VV	294	3813	0.05%	0.001%
87	7.971	7.934	8.008	PV	286	7102	0.10%	0.002%
88	8.021	8.008	8.038	VV	175	2491	0.03%	0.001%
89	8.084	8.038	8.131	VV	468729	4926350	66.67%	1.509%

Instrument :

FID_C

ClientSampleId :

HL2PX6MS

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90	8.180	8.131	8.335	VV	553306	5576944	75.47%	1.709%
91	8.477	8.444	8.544	VV	579314	5813840	78.00%	0.000%
92	8.556	8.544	8.578	VV	2476	43863	0.00%	0.000%
93	8.591	8.578	8.605	VV	2035	28819	0.00%	0.000%
94	8.614	8.605	8.648	VV	1803	36339	0.00%	0.000%
95	8.693	8.648	8.730	VV	1858	66357	0.00%	0.000%
96	8.755	8.730	8.780	VV	1925	45048	0.61%	0.014%
97	8.815	8.780	8.829	VV	1773	42253	0.57%	0.013%
98	8.837	8.829	8.868	VV	1596	30639	0.41%	0.009%
99	8.903	8.868	8.949	VV	2347	72221	0.98%	0.022%
100	8.977	8.949	9.010	VV	1866	57842	0.78%	0.018%
101	9.036	9.010	9.058	VV	1803	42595	0.58%	0.013%
102	9.121	9.058	9.147	VV	2408	102559	1.39%	0.031%
103	9.200	9.147	9.213	VV	2791	93373	1.26%	0.029%
104	9.257	9.213	9.341	VV	554138	5973335	80.84%	1.830%
105	9.356	9.341	9.379	VV	4767	94550	1.28%	0.029%
106	9.408	9.379	9.423	VV	4262	105067	1.42%	0.032%
107	9.467	9.423	9.493	VV	11954	271318	3.67%	0.083%
108	9.536	9.493	9.571	VV	31297	509362	6.89%	0.156%
109	9.582	9.571	9.592	VV	4826	60022	0.81%	0.018%
110	9.625	9.592	9.644	VV	5496	158540	2.15%	0.049%
111	9.679	9.644	9.742	VV	465224	5452362	73.79%	1.671%
112	9.754	9.742	9.814	VV	6196	246904	3.34%	0.076%
113	9.846	9.814	9.873	VV	6032	195620	2.65%	0.060%
114	9.905	9.873	9.931	VV	6512	203753	2.76%	0.062%
115	9.948	9.931	9.957	VV	6208	92041	1.25%	0.028%
116	10.006	9.957	10.033	VV	7475	308690	4.18%	0.095%
117	10.063	10.033	10.101	VV	12358	375747	5.08%	0.115%
118	10.146	10.101	10.171	VV	8656	348917	4.72%	0.107%
119	10.207	10.171	10.230	VV	10351	307444	4.16%	0.094%
120	10.252	10.230	10.278	VV	8553	232247	3.14%	0.071%
121	10.343	10.278	10.361	VV	9781	450316	6.09%	0.138%
122	10.413	10.361	10.425	VV	12376	405364	5.49%	0.124%
123	10.455	10.425	10.464	VV	15505	328326	4.44%	0.101%
124	10.486	10.464	10.576	VV	25435	957420	12.96%	0.293%
125	10.652	10.576	10.696	VV	526624	6537556	88.47%	2.003%
126	10.728	10.696	10.790	VV	511733	6390177	86.48%	1.958%
127	10.805	10.790	10.848	VV	19362	576617	7.80%	0.177%
128	10.888	10.848	10.902	VV	16220	494916	6.70%	0.152%
129	10.917	10.902	10.930	VV	16868	274994	3.72%	0.084%
130	10.952	10.930	10.962	VV	17595	328653	4.45%	0.101%
131	10.966	10.962	11.013	VV	17483	509179	6.89%	0.156%
132	11.036	11.013	11.051	VV	17352	380132	5.14%	0.116%
133	11.067	11.051	11.081	VV	17845	316090	4.28%	0.097%
134	11.118	11.081	11.153	VV	441772	5745065	77.75%	1.760%
135	11.205	11.153	11.236	VV	45071	1285690	17.40%	0.394%
136	11.264	11.236	11.288	VV	18890	563923	7.63%	0.173%
137	11.310	11.288	11.323	VV	18798	387200	5.24%	0.119%
138	11.423	11.323	11.454	VV	489735	6713780	90.86%	2.057%
139	11.479	11.454	11.491	VV	22133	475983	6.44%	0.146%
140	11.510	11.491	11.540	VV	22697	637313	8.62%	0.195%
141	11.552	11.540	11.581	VV	23020	556228	7.53%	0.170%

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Parameters									
142	11.599	11.581	11.644	VV	25415	897971	12.15%	0.275%	
143	11.664	11.644	11.698	VV	24000	743271	10.61%	0.275%	
144	11.712	11.698	11.731	VV	26910	490714	6.30%	0.275%	
145	11.762	11.731	11.828	VV	33195	1531560	20.00%	0.275%	
146	11.895	11.828	11.954	VV	26855	1866773	25.94%	0.370%	
147	11.990	11.954	12.011	VV	27849	869466	11.34%	0.370%	
148	12.032	12.011	12.068	VV	58088	1207627	16.34%	0.370%	
149	12.087	12.068	12.110	VV	26887	676459	9.15%	0.207%	
150	12.131	12.110	12.150	VV	27563	638942	8.65%	0.196%	
151	12.164	12.150	12.174	VV	27077	390604	5.29%	0.120%	
152	12.189	12.174	12.214	VV	27853	633529	8.57%	0.194%	
153	12.248	12.214	12.259	VV	28372	718991	9.73%	0.220%	
154	12.265	12.259	12.317	VV	27554	924965	12.52%	0.283%	
155	12.342	12.317	12.371	VV	32107	952004	12.88%	0.292%	
156	12.423	12.371	12.442	VV	445400	6304557	85.32%	1.932%	
157	12.465	12.442	12.504	VV	502186	6560356	88.78%	2.010%	
158	12.514	12.504	12.543	VV	32464	698952	9.46%	0.214%	
159	12.566	12.543	12.618	VV	29866	1267396	17.15%	0.388%	
160	12.645	12.618	12.664	VV	32452	816081	11.04%	0.250%	
161	12.674	12.664	12.728	VV	30007	1091674	14.77%	0.334%	
162	12.762	12.728	12.798	VV	499192	6643063	89.90%	2.035%	
163	12.816	12.798	12.831	VV	34353	629853	8.52%	0.193%	
164	12.864	12.831	12.893	VV	363327	5160509	69.84%	1.581%	
165	12.916	12.893	13.000	VV	36195	2028497	27.45%	0.622%	
166	13.034	13.000	13.064	VV	428561	5957775	80.63%	1.826%	
167	13.083	13.064	13.120	VV	32056	1020011	13.80%	0.313%	
168	13.132	13.120	13.152	VV	30036	570541	7.72%	0.175%	
169	13.193	13.152	13.215	VV	31202	1131387	15.31%	0.347%	
170	13.258	13.215	13.281	VV	35584	1275068	17.26%	0.391%	
171	13.302	13.281	13.329	VV	32858	907879	12.29%	0.278%	
172	13.341	13.329	13.362	VV	31810	610862	8.27%	0.187%	
173	13.381	13.362	13.404	VV	31983	765722	10.36%	0.235%	
174	13.411	13.404	13.421	VV	30752	302829	4.10%	0.093%	
175	13.457	13.421	13.505	VV	33083	1574074	21.30%	0.482%	
176	13.527	13.505	13.560	VV	34531	1055494	14.28%	0.323%	
177	13.571	13.560	13.580	VV	30790	357573	4.84%	0.110%	
178	13.618	13.580	13.654	VV	406689	6127743	82.93%	1.878%	
179	13.672	13.654	13.694	VV	31213	744269	10.07%	0.228%	
180	13.701	13.694	13.724	VV	31194	534727	7.24%	0.164%	
181	13.766	13.724	13.788	VV	32086	1187075	16.06%	0.364%	
182	13.849	13.788	13.876	VV	36543	1727429	23.38%	0.529%	
183	13.889	13.876	13.895	VV	31218	350153	4.74%	0.107%	
184	13.915	13.895	13.951	VV	31722	1022469	13.84%	0.313%	
185	13.959	13.951	13.968	VV	29976	300831	4.07%	0.092%	
186	14.004	13.968	14.036	VV	32342	1265174	17.12%	0.388%	
187	14.044	14.036	14.078	VV	30456	751235	10.17%	0.230%	
188	14.108	14.078	14.158	VV	32837	1430313	19.36%	0.438%	
189	14.180	14.158	14.203	VV	30514	797640	10.79%	0.244%	
190	14.247	14.203	14.283	VV	32191	1459287	19.75%	0.447%	
191	14.302	14.283	14.354	VV	32549	1287559	17.42%	0.395%	
192	14.409	14.354	14.479	VV	31533	2224248	30.10%	0.682%	
193	14.488	14.479	14.508	VV	28477	482025	6.52%	0.148%	
194	14.529	14.508	14.536	VV	27644	471491	6.38%	0.144%	

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195	14.564	14.536	14.588	VV	29560	877002	11.87%	0.269%
196	14.635	14.588	14.655	VV	416828	6342081	89.00%	0.269%
197	14.678	14.655	14.696	VV	462122	5860513	79.00%	0.269%
198	14.717	14.696	14.771	VV	396891	6001585	81.00%	0.269%
199	14.784	14.771	14.817	VV	29697	788213	10.00%	0.269%
200	14.844	14.817	14.885	VV	28715	1127005	15.00%	0.269%
201	14.908	14.885	14.930	VV	29373	737910	9.99%	0.226%
202	14.971	14.930	15.011	VV	27812	1306836	17.69%	0.400%
203	15.021	15.011	15.036	VV	26599	391332	5.30%	0.120%
204	15.092	15.036	15.171	VV	41014	2403356	32.52%	0.736%
205	15.193	15.171	15.206	VV	26123	543356	7.35%	0.166%
206	15.247	15.206	15.264	VV	29759	967355	13.09%	0.296%
207	15.281	15.264	15.334	VV	29017	1117934	15.13%	0.343%
208	15.346	15.334	15.396	VV	26261	900943	12.19%	0.276%
209	15.442	15.396	15.476	VV	26180	1186365	16.05%	0.364%
210	15.487	15.476	15.513	VV	24718	551837	7.47%	0.169%
211	15.547	15.513	15.596	VV	28255	1262159	17.08%	0.387%
212	15.612	15.596	15.643	VV	24746	682492	9.24%	0.209%
213	15.654	15.643	15.677	VV	24065	471894	6.39%	0.145%
214	15.737	15.677	15.829	VV	366516	6800513	92.03%	2.084%
215	15.852	15.829	15.871	VV	23208	579905	7.85%	0.178%
216	15.916	15.871	15.950	VV	29772	1219879	16.51%	0.374%
217	15.960	15.950	15.971	VV	24586	301127	4.08%	0.092%
218	15.984	15.971	15.998	VV	24458	394426	5.34%	0.121%
219	16.050	15.998	16.094	VV	26912	1474704	19.96%	0.452%
220	16.103	16.094	16.137	VV	27012	651871	8.82%	0.200%
221	16.190	16.137	16.204	VV	364459	6103406	82.60%	1.870%
222	16.222	16.204	16.273	VV	446620	6115744	82.76%	1.874%
223	16.292	16.273	16.319	VV	27303	696756	9.43%	0.213%
224	16.330	16.319	16.346	VV	24205	388280	5.25%	0.119%
225	16.370	16.346	16.393	VV	25140	689806	9.34%	0.211%
226	16.403	16.393	16.413	VV	25260	301916	4.09%	0.093%
227	16.435	16.413	16.496	VV	27923	1259261	17.04%	0.386%
228	16.566	16.496	16.619	VV	384259	6656862	90.09%	2.040%
229	16.684	16.619	16.811	VV	342104	7389394	100.00%	2.264%
230	16.904	16.811	16.951	VV	32843	2158685	29.21%	0.661%
231	16.983	16.951	17.036	VV	24847	1199795	16.24%	0.368%
232	17.068	17.036	17.110	VV	27606	1097370	14.85%	0.336%
233	17.134	17.110	17.172	VV	24611	859447	11.63%	0.263%
234	17.184	17.172	17.200	VV	22733	375969	5.09%	0.115%
235	17.222	17.200	17.259	VV	25442	855017	11.57%	0.262%
236	17.278	17.259	17.299	VV	24029	549494	7.44%	0.168%
237	17.308	17.299	17.344	VV	22875	595969	8.07%	0.183%
238	17.401	17.344	17.422	VV	22169	994463	13.46%	0.305%
239	17.457	17.422	17.491	VV	25324	938208	12.70%	0.287%
240	17.572	17.491	17.648	VV	345402	6593936	89.24%	2.020%
241	17.691	17.648	17.780	VV	33978	1903533	25.76%	0.583%
242	17.797	17.780	17.818	VV	20563	447863	6.06%	0.137%
243	17.826	17.818	17.831	VV	19474	149558	2.02%	0.046%
244	17.862	17.831	17.878	VV	20699	564932	7.65%	0.173%
245	17.935	17.878	17.952	VV	371457	6189021	83.76%	1.896%
246	17.974	17.952	18.026	VV	389394	5818078	78.74%	1.783%

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Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

rteres									
247	18.059	18.026	18.111	VV	32424	1178059	15.94%	0.361%	
248	18.124	18.111	18.148	VV	18572	396377			
249	18.190	18.148	18.248	VV	370704	6025488	81.54%	0.361%	
250	18.261	18.248	18.331	VV	18564	847040	11.54%	0.361%	
251	18.401	18.331	18.451	VV	329115	5584215	75.94%	0.361%	
252	18.479	18.451	18.501	VV	19471	507626	6.14%	0.361%	
253	18.526	18.501	18.558	VV	18974	553494	7.49%	0.170%	
254	18.581	18.558	18.629	VV	15230	619963	8.39%	0.190%	
255	18.656	18.629	18.710	VV	14572	664065	8.99%	0.203%	
256	18.751	18.710	18.771	VV	18596	585527	7.92%	0.179%	
257	18.800	18.771	18.851	VV	17894	744281	10.07%	0.228%	
258	18.875	18.851	18.944	VV	14284	681321	9.22%	0.209%	
259	18.979	18.944	19.022	VV	13893	588194	7.96%	0.180%	
260	19.033	19.022	19.054	VV	11662	212064	2.87%	0.065%	
261	19.062	19.054	19.084	VV	11437	197241	2.67%	0.060%	
262	19.092	19.084	19.121	VV	11576	238848	3.23%	0.073%	
263	19.182	19.121	19.244	VV	306570	5232285	70.81%	1.603%	
264	19.247	19.244	19.258	VV	10649	83144	1.13%	0.025%	
265	19.284	19.258	19.306	VV	11710	313509	4.24%	0.096%	
266	19.322	19.306	19.442	VV	10659	804483	10.89%	0.246%	
267	19.460	19.442	19.486	VV	9436	241801	3.27%	0.074%	
268	19.584	19.486	19.639	VV	11187	895929	12.12%	0.275%	
269	19.660	19.639	19.676	VV	9002	189866	2.57%	0.058%	
270	19.695	19.676	19.725	VV	9019	246146	3.33%	0.075%	
271	19.736	19.725	19.745	VV	8083	100545	1.36%	0.031%	
272	19.750	19.745	19.759	VV	8183	64614	0.87%	0.020%	
273	19.785	19.759	19.801	VV	8625	211118	2.86%	0.065%	
274	19.827	19.801	19.844	VV	8785	223465	3.02%	0.068%	
275	19.850	19.844	19.871	VV	8633	133612	1.81%	0.041%	
276	19.921	19.871	19.995	VV	283134	4728576	63.99%	1.449%	
277	20.016	19.995	20.034	VV	8086	180424	2.44%	0.055%	
278	20.060	20.034	20.151	VV	10996	585148	7.92%	0.179%	
279	20.158	20.151	20.230	VV	7348	329039	4.45%	0.101%	
280	20.284	20.230	20.322	VV	8270	406130	5.50%	0.124%	
281	20.368	20.322	20.431	VV	7624	451666	6.11%	0.138%	
282	20.450	20.431	20.477	VV	6174	166165	2.25%	0.051%	
283	20.490	20.477	20.524	VV	6359	165221	2.24%	0.051%	
284	20.554	20.524	20.581	VV	6049	199233	2.70%	0.061%	
285	20.634	20.581	20.731	VV	244307	4412583	59.72%	1.352%	
286	20.737	20.731	20.761	VV	4370	73104	0.99%	0.022%	
287	20.779	20.761	20.811	VV	3984	115744	1.57%	0.035%	
288	20.837	20.811	20.881	VV	3985	157559	2.13%	0.048%	
289	20.905	20.881	21.007	VV	3614	224486	3.04%	0.069%	
290	21.032	21.007	21.059	VV	2904	81317	1.10%	0.025%	
291	21.068	21.059	21.108	VV	2301	61402	0.83%	0.019%	
292	21.136	21.108	21.191	VV	2273	98814	1.34%	0.030%	
293	21.197	21.191	21.309	VV	1834	108199	1.46%	0.033%	
294	21.316	21.309	21.331	VV	1055	12018	0.16%	0.004%	
295	21.343	21.331	21.356	VV	924	11775	0.16%	0.004%	
296	21.368	21.356	21.379	VV	760	9651	0.13%	0.003%	
297	21.414	21.379	21.431	VV	883	20668	0.28%	0.006%	
298	21.492	21.431	21.569	VV	168267	3896474	52.73%	1.194%	
299	21.577	21.569	21.601	VV	309	3414	0.05%	0.001%	

Instrument :

FID_C

ClientSampleId :

HL2PX6MS

Manual IntegrationsAPPROVED

 Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

300 21.616 21.601 21.638 PV 405 2486 0.03% 0.001%

Sum of corrected areas: 3263

Aliphatic EPH 012425.M Fri Jan 31 22:50:43 2025

Instrument :

FID_C

ClientSampleId :

HL2PX6MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	HL2PX6MSD	SDG No.:	Q1237
Lab Sample ID:	Q1237-06MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/31/25 09:45	01/31/25 18:31	PB166417

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	53.0	E	1	1.95	2.17	mg/kg	FC068169.D
Aliphatic C9-C28	Aliphatic C9-C28	129	E	1	1.86	4.32	mg/kg	FC068169.D
Total AliphaticEPH	Total AliphaticEPH	182			3.81	6.49	mg/kg	
Total EPH	Total EPH	182			3.81	6.49	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	HL2PX6MSD	SDG No.:	Q1237
Lab Sample ID:	Q1237-06MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068169.D	1	01/31/25	01/31/25	PB166417

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	129	E	1.86	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	53.0	E	1.95	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.5		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.3		40 - 140	67%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1237-06MSD	Acq On:	31 Jan 2025 18:31
Client Sample ID:	HL2PX6MSD	Operator:	YP/AJ
Data file:	FC068169.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	3.128	6.394	22567570	162.957	300	ug/ml
Aliphatic C12-C16	6.395	9.777	34937544	253.698	200	ug/ml
Aliphatic C16-C21	9.778	13.129	74246287	549.894	300	ug/ml
Aliphatic C21-C28	13.130	16.780	103683220	815.071	400	ug/ml
Aliphatic C28-C40	16.781	21.588	76058541	733.881	600	ug/ml
Aliphatic EPH	3.128	21.588	311493162	2520		ug/ml
ortho-Terphenyl (SURR)	11.424	11.424	5207914	33.33		ug/ml
1-chlorooctadecane (SURR)	12.864	12.864	3971956	34.54		ug/ml
Aliphatic C9-C28	3.128	16.780	235434621	1780	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
 Data File : FC068169.D
 Signal(s) : FID1A.ch
 Acq On : 31 Jan 2025 18:31
 Operator : YP/AJ
 Sample : Q1237-06MSD
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 HL2PX6MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
 Quant Time: Jan 31 22:17:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 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)	11.424	5207914	33.327 ug/ml
Spiked Amount 50.000		Recovery =	66.65%
12) S 1-chlorooctadecane (S...	12.864	3971956	34.538 ug/ml
Spiked Amount 50.000		Recovery =	69.08%
Target Compounds			
1) T n-Nonane (C9)	3.231	3485595	25.455 ug/ml
2) T n-Decane (C10)	4.288	4109845	29.603 ug/ml
3) T A~Naphthalene (C11.7)	5.855	5036396	33.548 ug/ml
4) T n-Dodecane (C12)	6.295	4570121	32.714 ug/ml
5) T A~2-methylnaphthalene...	6.907	4828212	33.615 ug/ml
6) T n-Tetradecane (C14)	8.085	4895280	35.869 ug/ml
7) T n-Hexadecane (C16)	9.679	5117523	36.830 ug/ml
8) T n-Octadecane (C18)	11.117	4965636	35.490 ug/mlm
10) T n-Eicosane (C20)	12.424	5037107	37.646 ug/ml
11) T n-Heneicosane (C21)	13.034	4794029	36.501 ug/mlm
13) T n-Docosane (C22)	13.619	4750739	36.675 ug/ml
14) T n-Tetracosane (C24)	14.680	9787626	76.236 ug/mlm
15) T n-Hexacosane (C26)	15.737	4612062	36.651 ug/mlm
16) T n-Octacosane (C28)	16.684	4596631	36.752 ug/mlm
17) T n-Tricontane (C30)	17.570	4598194	35.575 ug/mlm
18) T n-Dotriacontane (C32)	18.401	4483234	35.863 ug/ml
19) T n-Tetratriacontane (C34)	19.183	4458736	41.104 ug/ml
20) T n-Hexatriacontane (C36)	19.922	4134875	44.680 ug/ml
21) T n-Octatriacontane (C38)	20.635	4001660	46.700 ug/ml
22) T n-Tetracontane (C40)	21.493	3883302	48.025 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC013125AL\
Data File : FC068169.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 18:31
Operator : YP/AJ
Sample : Q1237-06MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

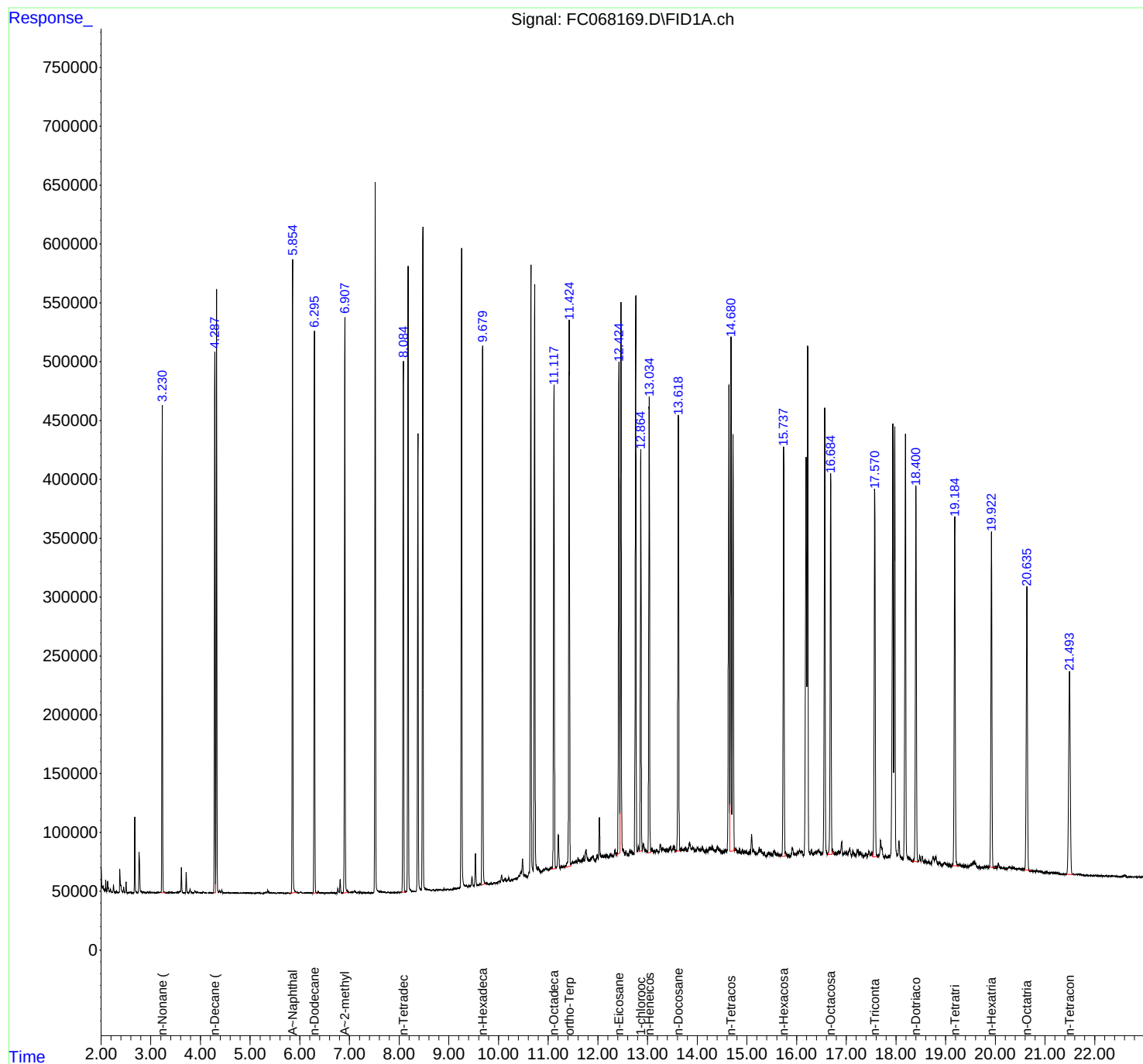
Instrument :
FID_C
ClientSampleId :
HL2PX6MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Integration File: autoint1.e
Quant Time: Jan 31 22:17:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_C

ClientSampleId :

HL2PX6MSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025

Supervised By :Ankita Jodhani 02/03/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC01312
Data File : FC068169.D
Signal(s) : FID1A.ch
Acq On : 31 Jan 2025 18:31
Sample : Q1237-06MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.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	3.027	3.004	3.040	BV	209	1560	0.02%	0.000%
2	3.053	3.040	3.103	PV	149	2228	0.03%	0.001%
3	3.128	3.103	3.181	PV	601	12474	0.17%	0.004%
4	3.190	3.181	3.202	VV	333	2839	0.04%	0.001%
5	3.231	3.202	3.311	VV	414597	3498512	47.94%	1.082%
6	3.325	3.311	3.337	VV	242	2817	0.04%	0.001%
7	3.352	3.337	3.368	VV	478	4883	0.07%	0.002%
8	3.384	3.368	3.401	VV	910	8271	0.11%	0.003%
9	3.408	3.401	3.416	VV	191	1747	0.02%	0.001%
10	3.428	3.416	3.458	VV	299	4608	0.06%	0.001%
11	3.468	3.458	3.477	VV	164	1356	0.02%	0.000%
12	3.493	3.477	3.515	VV	243	4198	0.06%	0.001%
13	3.534	3.515	3.553	VV	779	11269	0.15%	0.003%
14	3.569	3.553	3.576	VV	785	7787	0.11%	0.002%
15	3.589	3.576	3.597	VV	1410	12883	0.18%	0.004%
16	3.617	3.597	3.686	VV	21277	189718	2.60%	0.059%
17	3.714	3.686	3.763	VV	17171	151376	2.07%	0.047%
18	3.791	3.763	3.814	VV	3328	41775	0.57%	0.013%
19	3.823	3.814	3.859	VV	605	8395	0.12%	0.003%
20	3.888	3.859	3.920	VV	1883	26817	0.37%	0.008%
21	3.932	3.920	3.970	VV	735	14054	0.19%	0.004%
22	3.981	3.970	4.038	VV	378	8045	0.11%	0.002%
23	4.053	4.038	4.078	VV	995	12354	0.17%	0.004%
24	4.087	4.078	4.178	VV	434	10634	0.15%	0.003%
25	4.189	4.178	4.225	VV	368	4213	0.06%	0.001%
26	4.288	4.225	4.306	VV	459401	4114471	56.38%	1.273%
27	4.324	4.306	4.373	VV	511095	4471874	61.28%	1.383%
28	4.388	4.373	4.412	VV	1807	23451	0.32%	0.007%
29	4.431	4.412	4.474	VV	2810	33345	0.46%	0.010%
30	4.483	4.474	4.520	VV	315	5328	0.07%	0.002%
31	4.538	4.520	4.554	VV	643	6648	0.09%	0.002%
32	4.564	4.554	4.594	VV	330	4166	0.06%	0.001%
33	4.636	4.594	4.658	VV	212	5483	0.08%	0.002%
34	4.661	4.658	4.675	VV	161	1457	0.02%	0.000%
35	4.706	4.675	4.730	VV	180	4318	0.06%	0.001%
36	4.751	4.730	4.782	VV	246	3128	0.04%	0.001%

					retention			
37	4.805	4.782	4.819	VV	111	1084	0.01%	0.000%
38	4.874	4.819	4.903	PV	305	6593	0.01%	0.000%
39	4.929	4.903	4.958	PV	222	4406	0.01%	0.000%
40	4.965	4.958	4.983	VV	158	1694	0.01%	0.000%
41	4.998	4.983	5.011	VV	195	2089	0.01%	0.000%
42	5.024	5.011	5.095	VV	210	3999	0.01%	0.000%
43	5.143	5.095	5.182	VV	512	9101	0.12%	0.003%
44	5.191	5.182	5.265	VV	112	3317	0.05%	0.001%
45	5.279	5.265	5.298	PV	73	723	0.01%	0.000%
46	5.317	5.298	5.336	VV	1269	13174	0.18%	0.004%
47	5.354	5.336	5.410	VV	2296	34426	0.47%	0.011%
48	5.427	5.410	5.460	VV	630	8709	0.12%	0.003%
49	5.496	5.460	5.519	VV	199	4527	0.06%	0.001%
50	5.554	5.519	5.582	PV	498	7142	0.10%	0.002%
51	5.640	5.582	5.678	VV	205	7109	0.10%	0.002%
52	5.684	5.678	5.714	VV	134	1627	0.02%	0.001%
53	5.764	5.714	5.807	PV	272	5553	0.08%	0.002%
54	5.855	5.807	5.944	VV	538784	5065623	69.41%	1.567%
55	5.953	5.944	5.994	VV	779	16638	0.23%	0.005%
56	6.018	5.994	6.057	VV	1257	22706	0.31%	0.007%
57	6.068	6.057	6.084	VV	300	3877	0.05%	0.001%
58	6.092	6.084	6.114	VV	244	3729	0.05%	0.001%
59	6.141	6.114	6.174	VV	403	10426	0.14%	0.003%
60	6.184	6.174	6.202	VV	311	4497	0.06%	0.001%
61	6.226	6.202	6.245	VV	223	4655	0.06%	0.001%
62	6.295	6.245	6.356	VV	477595	4582929	62.80%	1.418%
63	6.375	6.356	6.431	VV	1137	22523	0.31%	0.007%
64	6.443	6.431	6.507	VV	477	9909	0.14%	0.003%
65	6.565	6.507	6.596	VV	212	7919	0.11%	0.002%
66	6.609	6.596	6.671	VV	181	5015	0.07%	0.002%
67	6.699	6.671	6.742	PV	235	5029	0.07%	0.002%
68	6.766	6.742	6.794	VV	3844	50139	0.69%	0.016%
69	6.813	6.794	6.865	VV	11634	122725	1.68%	0.038%
70	6.907	6.865	7.021	VV	487395	4875893	66.81%	1.508%
71	7.041	7.021	7.058	VV	1481	19358	0.27%	0.006%
72	7.069	7.058	7.079	VV	716	8101	0.11%	0.003%
73	7.103	7.079	7.154	VV	2161	46695	0.64%	0.014%
74	7.177	7.154	7.195	VV	1045	14492	0.20%	0.004%
75	7.214	7.195	7.239	VV	1458	17146	0.23%	0.005%
76	7.268	7.239	7.321	VV	539	11903	0.16%	0.004%
77	7.328	7.321	7.345	PV	99	841	0.01%	0.000%
78	7.383	7.345	7.426	VV	707	9939	0.14%	0.003%
79	7.438	7.426	7.468	VV	198	1718	0.02%	0.001%
80	7.632	7.608	7.680	VV	1338	37994	0.52%	0.012%
81	7.697	7.680	7.751	VV	804	19967	0.27%	0.006%
82	7.778	7.751	7.798	VV	626	8850	0.12%	0.003%
83	7.837	7.798	7.854	VV	372	8314	0.11%	0.003%
84	7.869	7.854	7.884	VV	220	2729	0.04%	0.001%
85	7.904	7.884	7.922	VV	278	3445	0.05%	0.001%
86	7.968	7.922	8.007	PV	344	8292	0.11%	0.003%
87	8.022	8.007	8.034	PV	177	1997	0.03%	0.001%
88	8.085	8.034	8.130	VV	452878	4907752	67.25%	1.518%
89	8.181	8.130	8.252	VV	534918	5507769	75.47%	1.704%

Instrument :

FID_C

ClientSampleId :

HL2PX6MSD

Manual IntegrationsAPPROVED

 Reviewed By :Yogesh Patel 02/03/2025
 Supervised By :Ankita Jodhani 02/03/2025

					rters			
90	8.262	8.252	8.292	VV	1037	20942	0.29%	0.006%
91	8.302	8.292	8.334	VV	771	16362		
92	8.477	8.444	8.519	VV	565903	5735473	78	
93	8.526	8.519	8.544	VV	2964	39330		
94	8.558	8.544	8.581	VV	2452	46444		
95	8.591	8.581	8.604	VV	2032	25322		
96	8.614	8.604	8.654	VV	1710	39304	0.54%	0.012%
97	8.692	8.654	8.727	VV	1769	58374	0.80%	0.018%
98	8.755	8.727	8.781	VV	1859	46110	0.63%	0.014%
99	8.814	8.781	8.827	VV	1699	38592	0.53%	0.012%
100	8.838	8.827	8.858	VV	1531	24846	0.34%	0.008%
101	8.902	8.858	8.924	VV	2333	58524	0.80%	0.018%
102	8.936	8.924	8.950	VV	1424	20477	0.28%	0.006%
103	8.980	8.950	9.008	VV	1943	54154	0.74%	0.017%
104	9.035	9.008	9.064	VV	1652	48328	0.66%	0.015%
105	9.119	9.064	9.151	VV	2337	99683	1.37%	0.031%
106	9.199	9.151	9.212	VV	2742	84802	1.16%	0.026%
107	9.258	9.212	9.339	VV	545063	5923910	81.17%	1.833%
108	9.357	9.339	9.378	VV	4754	98566	1.35%	0.030%
109	9.408	9.378	9.423	VV	4122	101991	1.40%	0.032%
110	9.468	9.423	9.496	VV	11733	270767	3.71%	0.084%
111	9.536	9.496	9.591	VV	30959	550834	7.55%	0.170%
112	9.630	9.591	9.648	VV	5474	167951	2.30%	0.052%
113	9.679	9.648	9.743	VV	461125	5410481	74.14%	1.674%
114	9.757	9.743	9.817	VV	5987	242046	3.32%	0.075%
115	9.845	9.817	9.879	VV	5872	200882	2.75%	0.062%
116	9.906	9.879	9.932	VV	6353	181927	2.49%	0.056%
117	10.009	9.932	10.033	VV	7297	391394	5.36%	0.121%
118	10.064	10.033	10.101	VV	12566	373704	5.12%	0.116%
119	10.119	10.101	10.129	VV	8418	136576	1.87%	0.042%
120	10.148	10.129	10.168	VV	8744	190542	2.61%	0.059%
121	10.207	10.168	10.230	VV	10469	319772	4.38%	0.099%
122	10.257	10.230	10.278	VV	8403	227043	3.11%	0.070%
123	10.307	10.278	10.318	VV	9078	208416	2.86%	0.064%
124	10.341	10.318	10.361	VV	9637	235655	3.23%	0.073%
125	10.414	10.361	10.426	VV	12027	403507	5.53%	0.125%
126	10.485	10.426	10.518	VV	25762	870880	11.93%	0.269%
127	10.526	10.518	10.578	VV	11916	401909	5.51%	0.124%
128	10.653	10.578	10.697	VV	529218	6454044	88.44%	1.997%
129	10.728	10.697	10.787	VV	511994	6290099	86.19%	1.946%
130	10.805	10.787	10.847	VV	18418	589986	8.08%	0.183%
131	10.892	10.847	10.902	VV	15860	488872	6.70%	0.151%
132	10.918	10.902	10.934	VV	16801	315704	4.33%	0.098%
133	10.950	10.934	11.017	VV	17331	815736	11.18%	0.252%
134	11.035	11.017	11.044	VV	17118	273907	3.75%	0.085%
135	11.070	11.044	11.084	VV	17488	415791	5.70%	0.129%
136	11.117	11.084	11.161	VV	427983	5736668	78.61%	1.775%
137	11.205	11.161	11.240	VV	44565	1228758	16.84%	0.380%
138	11.264	11.240	11.291	VV	18675	551913	7.56%	0.171%
139	11.308	11.291	11.326	VV	18759	386947	5.30%	0.120%
140	11.424	11.326	11.456	VV	481224	6616493	90.66%	2.047%
141	11.485	11.456	11.518	VV	22181	805839	11.04%	0.249%

Instrument :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
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rteres									
142	11.527	11.518	11.535	VV	21884	212978	2.92%	0.066%	
143	11.558	11.535	11.580	VV	22921	596823			
144	11.600	11.580	11.618	VV	25798	536723			
145	11.627	11.618	11.651	VV	23671	456347			
146	11.666	11.651	11.695	VV	23299	604170			
147	11.714	11.695	11.732	VV	25964	544939			
148	11.761	11.732	11.828	VV	32310	1490833	20.43%	0.461%	
149	11.898	11.828	11.948	VV	26527	1752082	24.01%	0.542%	
150	11.991	11.948	12.007	VV	27514	884528	12.12%	0.274%	
151	12.031	12.007	12.112	VV	59138	1965125	26.93%	0.608%	
152	12.129	12.112	12.147	VV	27046	552284	7.57%	0.171%	
153	12.183	12.147	12.225	VV	27458	1215507	16.66%	0.376%	
154	12.246	12.225	12.314	VV	27922	1409041	19.31%	0.436%	
155	12.345	12.314	12.371	VV	31342	982881	13.47%	0.304%	
156	12.424	12.371	12.443	VV	442160	6240424	85.51%	1.931%	
157	12.465	12.443	12.501	VV	497260	6399327	87.69%	1.980%	
158	12.511	12.501	12.545	VV	32025	796460	10.91%	0.246%	
159	12.565	12.545	12.588	VV	30461	734173	10.06%	0.227%	
160	12.646	12.588	12.663	VV	31519	1253322	17.17%	0.388%	
161	12.675	12.663	12.692	VV	29317	503909	6.90%	0.156%	
162	12.702	12.692	12.724	VV	28828	544472	7.46%	0.168%	
163	12.761	12.724	12.801	VV	499572	6666253	91.35%	2.062%	
164	12.817	12.801	12.831	VV	33778	560442	7.68%	0.173%	
165	12.864	12.831	12.894	VV	369530	5116471	70.11%	1.583%	
166	12.915	12.894	12.998	VV	36079	1947000	26.68%	0.602%	
167	13.034	12.998	13.067	VV	416185	5961813	81.69%	1.844%	
168	13.085	13.067	13.118	VV	31444	937960	12.85%	0.290%	
169	13.141	13.118	13.158	VV	29790	687445	9.42%	0.213%	
170	13.191	13.158	13.213	VV	30786	971882	13.32%	0.301%	
171	13.257	13.213	13.289	VV	35211	1431670	19.62%	0.443%	
172	13.304	13.289	13.321	VV	31922	606282	8.31%	0.188%	
173	13.327	13.321	13.364	VV	30660	785713	10.77%	0.243%	
174	13.381	13.364	13.417	VV	30881	950822	13.03%	0.294%	
175	13.457	13.417	13.485	VV	32772	1255645	17.21%	0.388%	
176	13.530	13.485	13.561	VV	33426	1412134	19.35%	0.437%	
177	13.571	13.561	13.579	VV	30012	324423	4.45%	0.100%	
178	13.619	13.579	13.658	VV	399957	6130094	84.00%	1.897%	
179	13.696	13.658	13.720	VV	30592	1111206	15.23%	0.344%	
180	13.768	13.720	13.805	VV	31416	1533224	21.01%	0.474%	
181	13.848	13.805	13.894	VV	35896	1726511	23.66%	0.534%	
182	13.910	13.894	13.948	VV	31789	974686	13.36%	0.302%	
183	13.999	13.948	14.073	VV	31453	2239885	30.69%	0.693%	
184	14.107	14.073	14.148	VV	32063	1323824	18.14%	0.410%	
185	14.184	14.148	14.207	VV	29856	1000648	13.71%	0.310%	
186	14.245	14.207	14.264	VV	31971	1028534	14.09%	0.318%	
187	14.274	14.264	14.287	VV	30341	426683	5.85%	0.132%	
188	14.305	14.287	14.357	VV	31501	1242149	17.02%	0.384%	
189	14.412	14.357	14.444	VV	31856	1548789	21.22%	0.479%	
190	14.453	14.444	14.521	VV	28958	1263614	17.31%	0.391%	
191	14.568	14.521	14.584	VV	28449	1052925	14.43%	0.326%	
192	14.637	14.584	14.656	VV	427691	6344825	86.94%	1.963%	
193	14.679	14.656	14.696	VV	461384	5775623	79.14%	1.787%	
194	14.719	14.696	14.844	VV	378207	7138269	97.81%	2.208%	

Instrument :

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195	14.852	14.844	14.888	VV	28574	706338	9.68%	0.219%
196	14.911	14.888	14.929	VV	28197	662368		
197	14.949	14.929	14.975	VV	27212	731304	10.00%	0.219%
198	14.985	14.975	15.014	VV	26666	619016	8.00%	0.219%
199	15.025	15.014	15.039	VV	26475	384892	5.00%	0.219%
200	15.093	15.039	15.121	VV	41692	1492713	20.00%	0.219%
201	15.134	15.121	15.180	VV	28339	937569	12.85%	0.290%
202	15.193	15.180	15.207	VV	25642	406875	5.58%	0.126%
203	15.248	15.207	15.265	VV	30079	953343	13.06%	0.295%
204	15.283	15.265	15.332	VV	28178	1049213	14.38%	0.325%
205	15.348	15.332	15.394	VV	26378	892452	12.23%	0.276%
206	15.438	15.394	15.506	VV	25689	1627210	22.30%	0.503%
207	15.550	15.506	15.591	VV	26979	1268616	17.38%	0.392%
208	15.605	15.591	15.649	VV	24385	829471	11.37%	0.257%
209	15.659	15.649	15.681	VV	23279	446486	6.12%	0.138%
210	15.738	15.681	15.877	VV	369339	7297872	100.00%	2.258%
211	15.918	15.877	15.951	VV	29000	1127927	15.46%	0.349%
212	15.965	15.951	15.978	VV	24067	378001	5.18%	0.117%
213	16.019	15.978	16.037	VV	25349	853644	11.70%	0.264%
214	16.061	16.037	16.081	VV	27197	690182	9.46%	0.214%
215	16.100	16.081	16.138	VV	26279	842756	11.55%	0.261%
216	16.189	16.138	16.205	VV	353073	6040544	82.77%	1.869%
217	16.223	16.205	16.271	VV	451308	6018742	82.47%	1.862%
218	16.294	16.271	16.334	VV	26648	921074	12.62%	0.285%
219	16.376	16.334	16.402	VV	24956	990956	13.58%	0.307%
220	16.435	16.402	16.498	VV	27260	1425679	19.54%	0.441%
221	16.566	16.498	16.627	VV	399425	6700541	91.82%	2.073%
222	16.685	16.627	16.751	VV	345799	6351859	87.04%	1.965%
223	16.759	16.751	16.804	VV	23874	748072	10.25%	0.231%
224	16.812	16.804	16.817	VV	22991	174261	2.39%	0.054%
225	16.839	16.817	16.856	VV	25628	567889	7.78%	0.176%
226	16.905	16.856	16.942	VV	32180	1347016	18.46%	0.417%
227	16.991	16.942	17.031	VV	24412	1244408	17.05%	0.385%
228	17.069	17.031	17.108	VV	27788	1116022	15.29%	0.345%
229	17.131	17.108	17.194	VV	24617	1165624	15.97%	0.361%
230	17.222	17.194	17.258	VV	25867	910428	12.48%	0.282%
231	17.275	17.258	17.343	VV	23910	1131601	15.51%	0.350%
232	17.355	17.343	17.374	VV	20822	378236	5.18%	0.117%
233	17.397	17.374	17.418	VV	23009	565895	7.75%	0.175%
234	17.462	17.418	17.486	VV	24603	916863	12.56%	0.284%
235	17.572	17.486	17.618	VV	331495	6230184	85.37%	1.927%
236	17.624	17.618	17.640	VV	20877	270759	3.71%	0.084%
237	17.691	17.640	17.767	VV	33228	1827562	25.04%	0.565%
238	17.783	17.767	17.834	VV	20180	785045	10.76%	0.243%
239	17.841	17.834	17.881	VV	19779	549987	7.54%	0.170%
240	17.937	17.881	17.952	VV	390220	6158005	84.38%	1.905%
241	17.974	17.952	18.025	VV	380539	5759481	78.92%	1.782%
242	18.060	18.025	18.118	VV	32226	1239383	16.98%	0.383%
243	18.125	18.118	18.147	VV	18853	307165	4.21%	0.095%
244	18.190	18.147	18.236	VV	379399	5897316	80.81%	1.824%
245	18.248	18.236	18.323	VV	18631	884844	12.12%	0.274%
246	18.332	18.323	18.340	VV	15298	154862	2.12%	0.048%

Instrument :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
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rteres									
247	18.401	18.340	18.444	VV	333436	5408768	74.11%	1.673%	
248	18.478	18.444	18.502	VV	18926	575208			
249	18.526	18.502	18.554	VV	18621	514673			
250	18.582	18.554	18.634	VV	15240	677650			
251	18.659	18.634	18.714	VV	14668	656591			
252	18.749	18.714	18.774	VV	18277	576725			
253	18.795	18.774	18.846	VV	18487	662140	9.07%	0.205%	
254	18.877	18.846	18.943	VV	13819	714134	9.79%	0.221%	
255	18.977	18.943	19.114	VV	13373	1186531	16.26%	0.367%	
256	19.183	19.114	19.270	VV	306272	5425494	74.34%	1.679%	
257	19.291	19.270	19.320	VV	11645	322763	4.42%	0.100%	
258	19.331	19.320	19.349	VV	10130	173700	2.38%	0.054%	
259	19.370	19.349	19.400	VV	10236	297093	4.07%	0.092%	
260	19.410	19.400	19.454	VV	9984	309213	4.24%	0.096%	
261	19.578	19.454	19.638	VV	13196	1208154	16.55%	0.374%	
262	19.663	19.638	19.688	VV	8882	257539	3.53%	0.080%	
263	19.694	19.688	19.714	VV	8866	135663	1.86%	0.042%	
264	19.726	19.714	19.770	VV	8553	273242	3.74%	0.085%	
265	19.793	19.770	19.877	VV	8876	550722	7.55%	0.170%	
266	19.922	19.877	20.033	VV	290655	4883983	66.92%	1.511%	
267	20.060	20.033	20.138	VV	10626	531872	7.29%	0.165%	
268	20.154	20.138	20.244	VV	7188	443919	6.08%	0.137%	
269	20.276	20.244	20.328	VV	8259	374728	5.13%	0.116%	
270	20.359	20.328	20.405	VV	7572	328867	4.51%	0.102%	
271	20.413	20.405	20.477	VV	6553	269419	3.69%	0.083%	
272	20.490	20.477	20.527	VV	6374	179891	2.46%	0.056%	
273	20.547	20.527	20.580	VV	5851	182905	2.51%	0.057%	
274	20.635	20.580	20.711	VV	244524	4386207	60.10%	1.357%	
275	20.717	20.711	20.735	VV	4513	61997	0.85%	0.019%	
276	20.745	20.735	20.757	VV	4508	55114	0.76%	0.017%	
277	20.769	20.757	20.819	VV	4185	150751	2.07%	0.047%	
278	20.835	20.819	20.891	VV	4265	164391	2.25%	0.051%	
279	20.897	20.891	20.978	VV	3574	161362	2.21%	0.050%	
280	21.029	20.978	21.101	VV	2979	182032	2.49%	0.056%	
281	21.142	21.101	21.192	VV	2387	111934	1.53%	0.035%	
282	21.201	21.192	21.210	VV	1818	20521	0.28%	0.006%	
283	21.221	21.210	21.241	VV	1944	33364	0.46%	0.010%	
284	21.248	21.241	21.344	VV	1697	76869	1.05%	0.024%	
285	21.386	21.344	21.401	VV	775	20679	0.28%	0.006%	
286	21.407	21.401	21.421	VV	623	6837	0.09%	0.002%	
287	21.493	21.421	21.612	VV	170837	3922060	53.74%	1.213%	
Sum of corrected areas:					323229912				

Instrument :

FID_C

ClientSampleId :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/03/2025
Supervised By :Ankita Jodhani 02/03/2025

Aliphatic EPH 012425.M Fri Jan 31 22:51:10 2025

Manual Integration Report

Sequence:

FC012425AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166217BS	FC068112.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:19 AM	Ankita	1/27/2025 9:08:07	Peak Integrated by Software
PB166217BSD	FC068113.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:22 AM	Ankita	1/27/2025 9:08:09	Peak Integrated by Software
Q1169-01	FC068114.D	1-chlorooctadecane (SURRE)	yogesh	1/27/2025 7:58:21 AM	Ankita	1/27/2025 9:08:11	Peak Integrated by Software
Q1169-01	FC068114.D	ortho-Terphenyl (SURRE)	yogesh	1/27/2025 7:58:21 AM	Ankita	1/27/2025 9:08:11	Peak Integrated by Software
Q1169-05MS	FC068118.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:24 AM	Ankita	1/27/2025 9:08:13	Peak Integrated by Software
Q1169-05MSD	FC068119.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:25 AM	Ankita	1/27/2025 9:08:16	Peak Integrated by Software
Q1170-01	FC068120.D	1-chlorooctadecane (SURRE)	yogesh	1/27/2025 7:58:26 AM	Ankita	1/27/2025 9:08:18	Peak Integrated by Software
Q1170-02	FC068121.D	1-chlorooctadecane (SURRE)	yogesh	1/27/2025 7:58:28 AM	Ankita	1/27/2025 9:08:20	Peak Integrated by Software
Q1170-02	FC068121.D	ortho-Terphenyl (SURRE)	yogesh	1/27/2025 7:58:28 AM	Ankita	1/27/2025 9:08:20	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Dotriacontane (C32)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Hexatriacontane (C36)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Octatriacontane (C38)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Tetracontane (C40)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FC012425AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

FC013125AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC068161.D	n-Tetracosane (C24)	yogesh	2/3/2025 9:24:26 AM	Ankita	2/3/2025 1:08:19	Peak Integrated by Software
PB166417BS	FC068163.D	n-Hexadecane (C16)	yogesh	2/3/2025 9:24:28 AM	Ankita	2/3/2025 1:08:21	Peak Integrated by Software
PB166417BS	FC068163.D	n-Tetracosane (C24)	yogesh	2/3/2025 9:24:28 AM	Ankita	2/3/2025 1:08:21	Peak Integrated by Software
PB166417BSD	FC068164.D	n-Tetracosane (C24)	yogesh	2/3/2025 9:24:29 AM	Ankita	2/3/2025 1:08:22	Peak Integrated by Software
Q1237-06	FC068166.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:24:31 AM	Ankita	2/3/2025 1:08:23	Peak Integrated by Software
Q1237-06D	FC068167.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:24:32 AM	Ankita	2/3/2025 1:08:24	Peak Integrated by Software
Q1237-06MS	FC068168.D	n-Dotriacontane (C32)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software
Q1237-06MS	FC068168.D	n-Heneicosane (C21)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software
Q1237-06MS	FC068168.D	n-Hexacosane (C26)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software
Q1237-06MS	FC068168.D	n-Hexadecane (C16)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software
Q1237-06MS	FC068168.D	n-Hexatriacontane (C36)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software
Q1237-06MS	FC068168.D	n-Octacosane (C28)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software
Q1237-06MS	FC068168.D	n-Octadecane (C18)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software

Manual Integration Report

Sequence:	FC013125AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1237-06MS	FC068168.D	n-Tetracosane (C24)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software
Q1237-06MS	FC068168.D	n-Tricontane (C30)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software
Q1237-06MS	FC068168.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:24:34 AM	Ankita	2/3/2025 1:08:26	Peak Integrated by Software
Q1237-06MSD	FC068169.D	n-Heneicosane (C21)	yogesh	2/3/2025 9:24:35 AM	Ankita	2/3/2025 1:08:28	Peak Integrated by Software
Q1237-06MSD	FC068169.D	n-Hexacosane (C26)	yogesh	2/3/2025 9:24:35 AM	Ankita	2/3/2025 1:08:28	Peak Integrated by Software
Q1237-06MSD	FC068169.D	n-Octacosane (C28)	yogesh	2/3/2025 9:24:35 AM	Ankita	2/3/2025 1:08:28	Peak Integrated by Software
Q1237-06MSD	FC068169.D	n-Octadecane (C18)	yogesh	2/3/2025 9:24:35 AM	Ankita	2/3/2025 1:08:28	Peak Integrated by Software
Q1237-06MSD	FC068169.D	n-Tetracosane (C24)	yogesh	2/3/2025 9:24:35 AM	Ankita	2/3/2025 1:08:28	Peak Integrated by Software
Q1237-06MSD	FC068169.D	n-Tricontane (C30)	yogesh	2/3/2025 9:24:35 AM	Ankita	2/3/2025 1:08:28	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068171.D	n-Docosane (C22)	yogesh	2/3/2025 9:24:37 AM	Ankita	2/3/2025 1:08:29	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068171.D	n-Tetracosane (C24)	yogesh	2/3/2025 9:24:37 AM	Ankita	2/3/2025 1:08:29	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FF011425AL

Instrument

FID_f

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	FF020125AL	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FF015407.D	n-Docosane (C22)	yogesh	2/3/2025 9:20:55 AM	Ankita	2/3/2025 1:06:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015407.D	n-Dotriacontane (C32)	yogesh	2/3/2025 9:20:55 AM	Ankita	2/3/2025 1:06:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015407.D	n-Hexatriacontane (C36)	yogesh	2/3/2025 9:20:55 AM	Ankita	2/3/2025 1:06:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015407.D	n-Octadecane (C18)	yogesh	2/3/2025 9:20:55 AM	Ankita	2/3/2025 1:06:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015407.D	n-Octatriacontane (C38)	yogesh	2/3/2025 9:20:55 AM	Ankita	2/3/2025 1:06:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015407.D	n-Tetracontane (C40)	yogesh	2/3/2025 9:20:55 AM	Ankita	2/3/2025 1:06:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015407.D	n-Tetratriacontane (C34)	yogesh	2/3/2025 9:20:55 AM	Ankita	2/3/2025 1:06:04	Peak Integrated by Software
Q1220-01DL	FF015408.D	1-chlorooctadecane (SURRE)	yogesh	2/3/2025 9:20:58 AM	Ankita	2/3/2025 1:06:05	Peak Integrated by Software
Q1220-01DL	FF015408.D	ortho-Terphenyl (SURRE)	yogesh	2/3/2025 9:20:58 AM	Ankita	2/3/2025 1:06:05	Peak Integrated by Software
Q1220-02DL	FF015409.D	1-chlorooctadecane (SURRE)	yogesh	2/3/2025 9:20:59 AM	Ankita	2/3/2025 1:06:07	Peak Integrated by Software
Q1218-01DL	FF015410.D	1-chlorooctadecane (SURRE)	yogesh	2/3/2025 9:21:01 AM	Ankita	2/3/2025 1:06:08	Peak Integrated by Software
Q1218-01DL	FF015410.D	ortho-Terphenyl (SURRE)	yogesh	2/3/2025 9:21:01 AM	Ankita	2/3/2025 1:06:08	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015413.D	n-Docosane (C22)	yogesh	2/3/2025 9:21:02 AM	Ankita	2/3/2025 1:06:10	Peak Integrated by Software

Manual Integration Report

Sequence:	FF020125AL	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FF015413.D	n-Dotriacontane (C32)	yogesh	2/3/2025 9:21:02 AM	Ankita	2/3/2025 1:06:10	Peak Integrated by Software
Q1237-02	FF015415.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:21:04 AM	Ankita	2/3/2025 1:06:12	Peak Integrated by Software
Q1237-03	FF015416.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:21:06 AM	Ankita	2/3/2025 1:06:13	Peak Integrated by Software
Q1237-04	FF015417.D	1-chlorooctadecane (SURR)	yogesh	2/3/2025 9:21:09 AM	Ankita	2/3/2025 1:06:14	Peak Integrated by Software
Q1237-04	FF015417.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:21:09 AM	Ankita	2/3/2025 1:06:14	Peak Integrated by Software
Q1239-01	FF015418.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:21:21 AM	Ankita	2/3/2025 1:06:16	Peak Integrated by Software
Q1239-04	FF015419.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:21:22 AM	Ankita	2/3/2025 1:06:17	Peak Integrated by Software
Q1239-07	FF015420.D	1-chlorooctadecane (SURR)	yogesh	2/3/2025 9:21:24 AM	Ankita	2/3/2025 1:06:19	Peak Integrated by Software
Q1239-07	FF015420.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:21:24 AM	Ankita	2/3/2025 1:06:19	Peak Integrated by Software
Q1244-01	FF015424.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:21:25 AM	Ankita	2/3/2025 1:06:21	Peak Integrated by Software
Q1244-02	FF015425.D	ortho-Terphenyl (SURR)	yogesh	2/3/2025 9:21:27 AM	Ankita	2/3/2025 1:06:23	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015427.D	n-Docosane (C22)	yogesh	2/3/2025 9:21:29 AM	Ankita	2/3/2025 1:06:24	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015427.D	n-Dotriacontane (C32)	yogesh	2/3/2025 9:21:29 AM	Ankita	2/3/2025 1:06:24	Peak Integrated by Software

Manual Integration Report

Sequence:

FF020125AL

Instrument

FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FF015427.D	n-Hexatriacontane (C36)	yogesh	2/3/2025 9:21:29 AM	Ankita	2/3/2025 1:06:24	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015427.D	n-Octacosane (C28)	yogesh	2/3/2025 9:21:29 AM	Ankita	2/3/2025 1:06:24	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015427.D	n-Octatriacontane (C38)	yogesh	2/3/2025 9:21:29 AM	Ankita	2/3/2025 1:06:24	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015427.D	n-Tetracontane (C40)	yogesh	2/3/2025 9:21:29 AM	Ankita	2/3/2025 1:06:24	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015427.D	n-Tetratriacontane (C34)	yogesh	2/3/2025 9:21:29 AM	Ankita	2/3/2025 1:06:24	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015427.D	n-Tricontane (C30)	yogesh	2/3/2025 9:21:29 AM	Ankita	2/3/2025 1:06:24	Peak Integrated by Software

Manual Integration Report

Sequence:	FF020325AL	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FF015430.D	n-Tetracontane (C40)	yogesh	2/4/2025 7:27:47 AM	Ankita	2/4/2025 8:59:30	Peak Integrated by Software
Q1237-03DL	FF015433.D	1-chlorooctadecane (SURR)	yogesh	2/4/2025 7:27:49 AM	Ankita	2/4/2025 8:59:32	Peak Integrated by Software
Q1237-03DL	FF015433.D	ortho-Terphenyl (SURR)	yogesh	2/4/2025 7:27:49 AM	Ankita	2/4/2025 8:59:32	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015435.D	n-Hexatriacontane (C36)	yogesh	2/4/2025 7:27:50 AM	Ankita	2/4/2025 8:59:34	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015435.D	n-Octatriacontane (C38)	yogesh	2/4/2025 7:27:50 AM	Ankita	2/4/2025 8:59:34	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015435.D	n-Tetratriacontane (C34)	yogesh	2/4/2025 7:27:50 AM	Ankita	2/4/2025 8:59:34	Peak Integrated by Software
Q1271-01	FF015441.D	ortho-Terphenyl (SURR)	yogesh	2/4/2025 7:27:52 AM	Ankita	2/4/2025 8:59:35	Peak Integrated by Software
Q1271-02	FF015442.D	ortho-Terphenyl (SURR)	yogesh	2/4/2025 7:27:53 AM	Ankita	2/4/2025 8:59:37	Peak Integrated by Software
Q1262-03	FF015443.D	1-chlorooctadecane (SURR)	yogesh	2/4/2025 7:27:55 AM	Ankita	2/4/2025 8:59:38	Peak Integrated by Software
Q1262-04	FF015444.D	1-chlorooctadecane (SURR)	yogesh	2/4/2025 7:27:56 AM	Ankita	2/4/2025 8:59:40	Peak Integrated by Software
20 PPM ALIPHATIC HC	FF015448.D	n-Tetratriacontane (C34)	yogesh	2/4/2025 7:27:58 AM	Ankita	2/4/2025 8:59:41	Peak Integrated by Software

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM
SubDirectory	FC012425AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068101.D	24 Jan 2025 07:37	YP/AJ	Ok
2	I.BLK	FC068102.D	24 Jan 2025 08:12	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068103.D	24 Jan 2025 08:47	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068104.D	24 Jan 2025 09:23	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068105.D	24 Jan 2025 09:58	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068106.D	24 Jan 2025 10:34	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068107.D	24 Jan 2025 11:10	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068108.D	24 Jan 2025 11:46	YP/AJ	Ok
9	I.BLK	FC068109.D	24 Jan 2025 12:23	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068110.D	24 Jan 2025 12:59	YP/AJ	Ok
11	PB166217BL	FC068111.D	24 Jan 2025 13:36	YP/AJ	Ok
12	PB166217BS	FC068112.D	24 Jan 2025 14:12	YP/AJ	Ok,M
13	PB166217BSD	FC068113.D	24 Jan 2025 14:50	YP/AJ	Ok,M
14	Q1169-01	FC068114.D	24 Jan 2025 15:26	YP/AJ	Dilution
15	Q1169-03	FC068115.D	24 Jan 2025 16:03	YP/AJ	Ok
16	Q1169-05	FC068116.D	24 Jan 2025 16:39	YP/AJ	Ok
17	Q1169-05D	FC068117.D	24 Jan 2025 17:17	YP/AJ	Ok
18	Q1169-05MS	FC068118.D	24 Jan 2025 17:53	YP/AJ	Ok,M
19	Q1169-05MSD	FC068119.D	24 Jan 2025 18:30	YP/AJ	Ok,M
20	Q1170-01	FC068120.D	24 Jan 2025 19:06	YP/AJ	Ok,M
21	Q1170-02	FC068121.D	24 Jan 2025 19:43	YP/AJ	Ok,M

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM
SubDirectory	FC012425AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

22	I.BLK	FC068122.D	24 Jan 2025 20:57	YP/AJ	Ok
23	20 PPM ALIPHATIC HC STD	FC068123.D	24 Jan 2025 21:33	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC013125AL

Review By	yogesh	Review On	1/31/2025 1:00:11 PM
Supervise By	Ankita	Supervise On	2/3/2025 1:08:33 PM
SubDirectory	FC013125AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068159.D	31 Jan 2025 08:34	YP/AJ	Ok
2	I.BLK	FC068160.D	31 Jan 2025 11:39	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068161.D	31 Jan 2025 12:15	YP/AJ	Ok,M
4	PB166417BL	FC068162.D	31 Jan 2025 13:52	YP/AJ	Ok
5	PB166417BS	FC068163.D	31 Jan 2025 14:28	YP/AJ	Ok,M
6	PB166417BSD	FC068164.D	31 Jan 2025 15:29	YP/AJ	Ok,M
7	Q1237-05	FC068165.D	31 Jan 2025 16:05	YP/AJ	Ok
8	Q1237-06	FC068166.D	31 Jan 2025 16:42	YP/AJ	Ok,M
9	Q1237-06D	FC068167.D	31 Jan 2025 17:19	YP/AJ	Ok,M
10	Q1237-06MS	FC068168.D	31 Jan 2025 17:55	YP/AJ	Ok,M
11	Q1237-06MSD	FC068169.D	31 Jan 2025 18:31	YP/AJ	Ok,M
12	I.BLK	FC068170.D	31 Jan 2025 19:44	YP/AJ	Ok
13	20 PPM ALIPHATIC HC STD	FC068171.D	31 Jan 2025 20:21	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF011425AL

Review By	yogesh	Review On	1/14/2025 2:46:37 PM
Supervise By	Ankita	Supervise On	1/15/2025 7:46:37 AM
SubDirectory	FF011425AL	HP Acquire Method	HP Processing Method FF011425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015226.D	14 Jan 2025 11:57	YP\AJ	Ok
2	I.BLK	FF015227.D	14 Jan 2025 12:26	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FF015228.D	14 Jan 2025 12:54	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FF015229.D	14 Jan 2025 13:23	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FF015230.D	14 Jan 2025 14:01	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FF015231.D	14 Jan 2025 14:29	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FF015232.D	14 Jan 2025 14:58	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FF015233.D	14 Jan 2025 15:26	YP\AJ	Ok
9	I.BLK	FF015234.D	14 Jan 2025 16:23	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FF015235.D	14 Jan 2025 16:51	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF020125AL

Review By	yogesh	Review On	1/31/2025 9:25:45 AM
Supervise By	Ankita	Supervise On	2/3/2025 1:06:37 PM
SubDirectory	FF020125AL	HP Acquire Method	HP Processing Method FF011425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23647 PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015405.D	31 Jan 2025 07:43	YP\AJ	Ok
2	I.BLK	FF015406.D	31 Jan 2025 08:11	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FF015407.D	31 Jan 2025 09:08	YP\AJ	Ok,M
4	Q1220-01DL	FF015408.D	31 Jan 2025 09:38	YP\AJ	Ok,M
5	Q1220-02DL	FF015409.D	31 Jan 2025 10:07	YP\AJ	Ok,M
6	Q1218-01DL	FF015410.D	31 Jan 2025 10:35	YP\AJ	Ok,M
7	Q1219-01DL	FF015411.D	31 Jan 2025 11:03	YP\AJ	Ok
8	I.BLK	FF015412.D	31 Jan 2025 12:00	YP\AJ	Ok
9	20 PPM ALIPHATIC HC STD	FF015413.D	31 Jan 2025 12:29	YP\AJ	Ok,M
10	Q1237-01	FF015414.D	31 Jan 2025 14:23	YP\AJ	Ok
11	Q1237-02	FF015415.D	31 Jan 2025 14:51	YP\AJ	Ok,M
12	Q1237-03	FF015416.D	31 Jan 2025 15:20	YP\AJ	Dilution
13	Q1237-04	FF015417.D	31 Jan 2025 15:48	YP\AJ	Ok,M
14	Q1239-01	FF015418.D	31 Jan 2025 16:17	YP\AJ	Ok,M
15	Q1239-04	FF015419.D	31 Jan 2025 16:45	YP\AJ	Ok,M
16	Q1239-07	FF015420.D	31 Jan 2025 17:14	YP\AJ	Ok,M
17	Q1239-10	FF015421.D	31 Jan 2025 17:42	YP\AJ	Ok
18	Q1243-01	FF015422.D	31 Jan 2025 18:11	YP\AJ	Ok
19	Q1243-02	FF015423.D	31 Jan 2025 18:39	YP\AJ	Ok
20	Q1244-01	FF015424.D	31 Jan 2025 19:08	YP\AJ	Dilution
21	Q1244-02	FF015425.D	31 Jan 2025 19:36	YP\AJ	Dilution

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF020125AL

Review By	yogesh	Review On	1/31/2025 9:25:45 AM
Supervise By	Ankita	Supervise On	2/3/2025 1:06:37 PM
SubDirectory	FF020125AL	HP Acquire Method	HP Processing Method FF011425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

22	I.BLK	FF015426.D	31 Jan 2025 20:33	YP\AJ	Ok
23	20 PPM ALIPHATIC HC STD	FF015427.D	31 Jan 2025 21:02	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF020325AL

Review By	yogesh	Review On	2/3/2025 12:24:52 PM
Supervise By	Ankita	Supervise On	2/4/2025 8:59:51 AM
SubDirectory	FF020325AL	HP Acquire Method	HP Processing Method FF011425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015428.D	03 Feb 2025 09:32	YP\AJ	Ok
2	I.BLK	FF015429.D	03 Feb 2025 10:01	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FF015430.D	03 Feb 2025 10:59	YP\AJ	Ok,M
4	Q1244-01DL	FF015431.D	03 Feb 2025 11:28	YP\AJ	Ok
5	Q1244-02DL	FF015432.D	03 Feb 2025 11:57	YP\AJ	Ok
6	Q1237-03DL	FF015433.D	03 Feb 2025 12:25	YP\AJ	Ok,M
7	I.BLK	FF015434.D	03 Feb 2025 13:22	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD	FF015435.D	03 Feb 2025 14:19	YP\AJ	Ok,M
9	Q1254-01	FF015436.D	03 Feb 2025 14:47	YP\AJ	Dilution
10	Q1254-02	FF015437.D	03 Feb 2025 15:16	YP\AJ	Dilution
11	Q1262-01	FF015438.D	03 Feb 2025 15:44	YP\AJ	Dilution
12	Q1262-02	FF015439.D	03 Feb 2025 17:10	YP\AJ	Ok
13	Q1269-02	FF015440.D	03 Feb 2025 17:38	YP\AJ	ReRun
14	Q1271-01	FF015441.D	03 Feb 2025 18:07	YP\AJ	Ok,M
15	Q1271-02	FF015442.D	03 Feb 2025 18:35	YP\AJ	Ok,M
16	Q1262-03	FF015443.D	03 Feb 2025 19:03	YP\AJ	Ok,M
17	Q1262-04	FF015444.D	03 Feb 2025 19:32	YP\AJ	Ok,M
18	Q1261-01	FF015445.D	03 Feb 2025 20:00	YP\AJ	Dilution
19	Q1261-02	FF015446.D	03 Feb 2025 20:29	YP\AJ	Dilution
20	I.BLK	FF015447.D	03 Feb 2025 21:26	YP\AJ	Ok
21	20 PPM ALIPHATIC HC STD	FF015448.D	03 Feb 2025 22:51	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM
SubDirectory	FC012425AL	HP Acquire Method	HP Processing Method FC012425AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068101.D	24 Jan 2025 07:37		YP/AJ	Ok
2	I.BLK	I.BLK	FC068102.D	24 Jan 2025 08:12		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068103.D	24 Jan 2025 08:47		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068104.D	24 Jan 2025 09:23		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068105.D	24 Jan 2025 09:58		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068106.D	24 Jan 2025 10:34		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068107.D	24 Jan 2025 11:10		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068108.D	24 Jan 2025 11:46		YP/AJ	Ok
9	I.BLK	I.BLK	FC068109.D	24 Jan 2025 12:23		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068110.D	24 Jan 2025 12:59		YP/AJ	Ok
11	PB166217BL	PB166217BL	FC068111.D	24 Jan 2025 13:36		YP/AJ	Ok
12	PB166217BS	PB166217BS	FC068112.D	24 Jan 2025 14:12		YP/AJ	Ok,M
13	PB166217BSD	PB166217BSD	FC068113.D	24 Jan 2025 14:50		YP/AJ	Ok,M
14	Q1169-01	ARS20-0006	FC068114.D	24 Jan 2025 15:26	need 5x dilution	YP/AJ	Dilution
15	Q1169-03	REGULATOR-BUILDIN	FC068115.D	24 Jan 2025 16:03		YP/AJ	Ok
16	Q1169-05	SPILL-SITE	FC068116.D	24 Jan 2025 16:39		YP/AJ	Ok
17	Q1169-05D	Q1169-05D	FC068117.D	24 Jan 2025 17:17		YP/AJ	Ok
18	Q1169-05MS	SPILL-SITEMS	FC068118.D	24 Jan 2025 17:53	FC068116.D	YP/AJ	Ok,M

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM
SubDirectory	FC012425AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

19	Q1169-05MSD	SPILL-SITEMSD	FC068119.D	24 Jan 2025 18:30	FC068116.D!FC068118.D	YP/AJ	Ok,M
20	Q1170-01	OR-03-01232025	FC068120.D	24 Jan 2025 19:06		YP/AJ	Ok,M
21	Q1170-02	OR-03-01232025-E2	FC068121.D	24 Jan 2025 19:43		YP/AJ	Ok,M
22	I.BLK	I.BLK	FC068122.D	24 Jan 2025 20:57		YP/AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068123.D	24 Jan 2025 21:33		YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC013125AL

Review By	yogesh	Review On	1/31/2025 1:00:11 PM
Supervise By	Ankita	Supervise On	2/3/2025 1:08:33 PM
SubDirectory	FC013125AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC	PP23647		
Internal Standard/PEM			
ICV/I.BLK	PP23645,PP23650		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068159.D	31 Jan 2025 08:34		YP/AJ	Ok
2	I.BLK	I.BLK	FC068160.D	31 Jan 2025 11:39		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068161.D	31 Jan 2025 12:15		YP/AJ	Ok,M
4	PB166417BL	PB166417BL	FC068162.D	31 Jan 2025 13:52		YP/AJ	Ok
5	PB166417BS	PB166417BS	FC068163.D	31 Jan 2025 14:28		YP/AJ	Ok,M
6	PB166417BSD	PB166417BSD	FC068164.D	31 Jan 2025 15:29		YP/AJ	Ok,M
7	Q1237-05	HL2PX5	FC068165.D	31 Jan 2025 16:05		YP/AJ	Ok
8	Q1237-06	HL2PX6	FC068166.D	31 Jan 2025 16:42		YP/AJ	Ok,M
9	Q1237-06D	Q1237-06D	FC068167.D	31 Jan 2025 17:19		YP/AJ	Ok,M
10	Q1237-06MS	HL2PX6MS	FC068168.D	31 Jan 2025 17:55	FC068166.D	YP/AJ	Ok,M
11	Q1237-06MSD	HL2PX6MSD	FC068169.D	31 Jan 2025 18:31	FC068166.D!FC068168.D	YP/AJ	Ok,M
12	I.BLK	I.BLK	FC068170.D	31 Jan 2025 19:44		YP/AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068171.D	31 Jan 2025 20:21		YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF011425AL

Review By	yogesh	Review On	1/14/2025 2:46:37 PM
Supervise By	Ankita	Supervise On	1/15/2025 7:46:37 AM
SubDirectory	FF011425AL	HP Acquire Method	HP Processing Method
			FF011425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC	PP23647		
Internal Standard/PEM			
ICV/I.BLK	PP23645,PP23650		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF015226.D	14 Jan 2025 11:57		YP\AJ	Ok
2	I.BLK	I.BLK	FF015227.D	14 Jan 2025 12:26		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FF015228.D	14 Jan 2025 12:54		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FF015229.D	14 Jan 2025 13:23		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FF015230.D	14 Jan 2025 14:01		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FF015231.D	14 Jan 2025 14:29		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FF015232.D	14 Jan 2025 14:58		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FF015233.D	14 Jan 2025 15:26		YP\AJ	Ok
9	I.BLK	I.BLK	FF015234.D	14 Jan 2025 16:23		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FF015235.D	14 Jan 2025 16:51		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF020125AL

Review By	yogesh	Review On	1/31/2025 9:25:45 AM
Supervise By	Ankita	Supervise On	2/3/2025 1:06:37 PM
SubDirectory	FF020125AL	HP Acquire Method	HP Processing Method FF011425AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23647 PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF015405.D	31 Jan 2025 07:43		YP\AJ	Ok
2	I.BLK	I.BLK	FF015406.D	31 Jan 2025 08:11		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FF015407.D	31 Jan 2025 09:08		YP\AJ	Ok,M
4	Q1220-01DL	TR-06-01292025DL	FF015408.D	31 Jan 2025 09:38		YP\AJ	Ok,M
5	Q1220-02DL	TR-06-01292025-E2DL	FF015409.D	31 Jan 2025 10:07		YP\AJ	Ok,M
6	Q1218-01DL	BELL-25-002DL	FF015410.D	31 Jan 2025 10:35		YP\AJ	Ok,M
7	Q1219-01DL	LAW-25-0015DL	FF015411.D	31 Jan 2025 11:03		YP\AJ	Ok
8	I.BLK	I.BLK	FF015412.D	31 Jan 2025 12:00		YP\AJ	Ok
9	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FF015413.D	31 Jan 2025 12:29		YP\AJ	Ok,M
10	Q1237-01	HL2PX1	FF015414.D	31 Jan 2025 14:23		YP\AJ	Ok
11	Q1237-02	HL2PX2	FF015415.D	31 Jan 2025 14:51		YP\AJ	Ok,M
12	Q1237-03	HL2PX3	FF015416.D	31 Jan 2025 15:20	need 2x dilution	YP\AJ	Dilution
13	Q1237-04	HL2PX4	FF015417.D	31 Jan 2025 15:48		YP\AJ	Ok,M
14	Q1239-01	286	FF015418.D	31 Jan 2025 16:17		YP\AJ	Ok,M
15	Q1239-04	348	FF015419.D	31 Jan 2025 16:45		YP\AJ	Ok,M
16	Q1239-07	RBR22266	FF015420.D	31 Jan 2025 17:14		YP\AJ	Ok,M
17	Q1239-10	357	FF015421.D	31 Jan 2025 17:42		YP\AJ	Ok
18	Q1243-01	CL-01-01302025	FF015422.D	31 Jan 2025 18:11		YP\AJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF020125AL

Review By	yogesh	Review On	1/31/2025 9:25:45 AM	
Supervise By	Ankita	Supervise On	2/3/2025 1:06:37 PM	
SubDirectory	FF020125AL	HP Acquire Method	HP Processing Method	FF011425AL
STD. NAME	STD REF.#			
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649			
CCC Internal Standard/PEM	PP23647			
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650			

19	Q1243-02	CL-01-01302025-E2	FF015423.D	31 Jan 2025 18:39		YP\AJ	Ok
20	Q1244-01	EO-02-01302025	FF015424.D	31 Jan 2025 19:08	Need 5X	YP\AJ	Dilution
21	Q1244-02	EO-02-01302025-E2	FF015425.D	31 Jan 2025 19:36	Need 5X	YP\AJ	Dilution
22	I.BLK	I.BLK	FF015426.D	31 Jan 2025 20:33		YP\AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FF015427.D	31 Jan 2025 21:02		YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF020325AL

Review By	yogesh	Review On	2/3/2025 12:24:52 PM
Supervise By	Ankita	Supervise On	2/4/2025 8:59:51 AM
SubDirectory	FF020325AL	HP Acquire Method	HP Processing Method
			FF011425AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF015428.D	03 Feb 2025 09:32		YP\AJ	Ok
2	I.BLK	I.BLK	FF015429.D	03 Feb 2025 10:01		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FF015430.D	03 Feb 2025 10:59		YP\AJ	Ok,M
4	Q1244-01DL	EO-02-01302025DL	FF015431.D	03 Feb 2025 11:28		YP\AJ	Ok
5	Q1244-02DL	EO-02-01302025-E2DL	FF015432.D	03 Feb 2025 11:57		YP\AJ	Ok
6	Q1237-03DL	HL2PX3DL	FF015433.D	03 Feb 2025 12:25		YP\AJ	Ok,M
7	I.BLK	I.BLK	FF015434.D	03 Feb 2025 13:22		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FF015435.D	03 Feb 2025 14:19		YP\AJ	Ok,M
9	Q1254-01	OK-02-01312025	FF015436.D	03 Feb 2025 14:47	need 5x dilution	YP\AJ	Dilution
10	Q1254-02	OK-02-01312025-E2	FF015437.D	03 Feb 2025 15:16	need 10x dilution	YP\AJ	Dilution
11	Q1262-01	ETGI-371	FF015438.D	03 Feb 2025 15:44	need 5x dilution	YP\AJ	Dilution
12	Q1262-02	ETGI-371-E2	FF015439.D	03 Feb 2025 17:10		YP\AJ	Ok
13	Q1269-02	VNJ-231-E2	FF015440.D	03 Feb 2025 17:38	Surr Fail	YP\AJ	ReRun
14	Q1271-01	RBR200030	FF015441.D	03 Feb 2025 18:07		YP\AJ	Ok,M
15	Q1271-02	RBR200030-E2	FF015442.D	03 Feb 2025 18:35		YP\AJ	Ok,M
16	Q1262-03	CONCRETE-PAD	FF015443.D	03 Feb 2025 19:03		YP\AJ	Ok,M
17	Q1262-04	CONCRETE-PAD-E2	FF015444.D	03 Feb 2025 19:32		YP\AJ	Ok,M
18	Q1261-01	CHRT-20430	FF015445.D	03 Feb 2025 20:00	need 20x & 250x dilution	YP\AJ	Dilution

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF020325AL

Review By	yogesh	Review On	2/3/2025 12:24:52 PM
Supervise By	Ankita	Supervise On	2/4/2025 8:59:51 AM
SubDirectory	FF020325AL	HP Acquire Method	HP Processing Method FF011425AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

19	Q1261-02	CHRT-20430-E2	FF015446.D	03 Feb 2025 20:29	need 25x & 500x dilution	YP\AJ	Dilution
20	I.BLK	I.BLK	FF015447.D	03 Feb 2025 21:26		YP\AJ	Ok
21	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FF015448.D	03 Feb 2025 22:51		YP\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 01/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134481

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
Q1215-01	JPP-29.1-012825	1	1.15	8.54	9.69	8.75	89.0	
Q1215-03	JPP-29.1-012825	2	1.16	8.48	9.64	8.69	88.8	
Q1215-05	JPP-29.2-012825	3	1.19	8.70	9.89	8.77	87.1	
Q1215-07	JPP-29.2-012825	4	1.15	8.63	9.78	8.81	88.8	
Q1216-01	JPP-18.1-012825	5	1.19	8.45	9.64	8.05	81.2	
Q1216-03	JPP-18.1-012825	6	1.16	8.82	9.98	8.51	83.3	
Q1216-05	JPP-21.1-012825	7	1.15	8.40	9.55	8.83	91.4	
Q1216-07	JPP-21.1-012825	8	1.15	8.75	9.9	9.06	90.4	
Q1216-09	JPP-21.2-012825	9	1.19	8.42	9.61	8.29	84.3	
Q1216-11	JPP-21.2-012825	10	1.15	8.36	9.51	8.2	84.3	
Q1216-13	JPP-26.1-012825	11	1.19	8.46	9.65	7.87	79.0	
Q1216-15	JPP-26.1-012825	12	1.17	8.76	9.93	8.42	82.8	
Q1216-17	JPP-26.2-012825	13	1.16	8.63	9.79	8.52	85.3	
Q1216-19	JPP-26.2-012825	14	1.17	8.51	9.68	8.47	85.8	
Q1232-01	JPP-46.2-012925	15	1.12	8.77	9.89	8.99	89.7	
Q1232-03	JPP-46.2-012925	16	1.15	8.37	9.52	8.62	89.2	
Q1232-05	JPP-46.1-012925	17	1.17	8.50	9.67	9.14	93.8	
Q1232-07	JPP-46.1-012925	18	1.15	8.72	9.87	9.35	94.0	
Q1232-09	JPP-42.1-012925	19	1.14	8.37	9.51	8.56	88.6	
Q1232-11	JPP-42.1-012925	20	1.19	8.43	9.62	8.62	88.1	
Q1232-13	JPP-42.2-012925	21	1.15	8.50	9.65	8.98	92.1	
Q1232-15	JPP-42.2-012925	22	1.15	8.37	9.52	8.95	93.2	
Q1232-17	JPP-51.1-012925	23	1.19	8.42	9.61	9.14	94.4	
Q1232-19	JPP-51.1-012925	24	1.12	8.75	9.87	9.44	95.1	
Q1233-01	WIPE-1	25	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q1233-02	WIPE-2	26	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q1235-01	JPP-51.2-012925	27	1.15	8.60	9.75	8.99	91.2	
Q1235-03	JPP-51.2-012925	28	1.15	8.51	9.66	8.96	91.8	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 01/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 01/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134481

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
Q1235-05	JPP-16.1-012925	29	1.15	8.75	9.9	8.94	89.0	
Q1235-07	JPP-16.1-012925	30	1.12	8.77	9.89	8.94	89.2	
Q1237-01	HL6PX1	31	1.16	8.53	9.69	9.27	95.1	
Q1237-02	HL6PX2	32	1.16	8.70	9.86	9.28	93.3	
Q1237-03	HL6PX3	33	1.15	8.82	9.97	9.27	92.1	
Q1237-04	HL6PX4	34	1.15	8.78	9.93	9.43	94.3	
Q1237-05	HL6PX5	35	1.17	8.54	9.71	9.33	95.6	
Q1237-06	HL6PX6	36	1.17	8.57	9.74	9.07	92.2	
Q1239-01	286	37	1.14	8.49	9.63	8.68	88.8	
Q1239-04	348	38	1.14	8.83	9.97	9.00	89.0	
Q1239-07	RBR22266	39	1.17	8.74	9.91	9.00	89.6	
Q1239-10	357	40	1.16	8.80	9.96	8.62	84.8	
Q1240-01	MEG-OIL	41	1.00	1.00	2.00	2.00	100.0	oil sample

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

WORKLIST(Hardcopy Internal Chain)

13448)

WorkList Name : %1-013025

WorkList ID : 187270

Department : Wet-Chemistry

Date : 01-30-2025 07:55:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1215-01	JPP-29.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1215-03	JPP-29.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1215-05	JPP-29.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1215-07	JPP-29.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-01	JPP-18.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-03	JPP-18.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-05	JPP-21.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-07	JPP-21.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-09	JPP-21.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-11	JPP-21.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-13	JPP-26.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-15	JPP-26.1-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-17	JPP-26.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1216-19	JPP-26.2-012825	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1232-01	JPP-46.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/28/2025	Chemtech -SO
Q1232-03	JPP-46.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-05	JPP-46.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-07	JPP-46.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-09	JPP-42.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-11	JPP-42.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-13	JPP-42.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO

Date/Time 01/30/25 15:20

Raw Sample Received by: 50 WCI

Raw Sample Relinquished by: 45M

Date/Time 01/30/25

Raw Sample Received by: 17110

Raw Sample Relinquished by: 20 WCI

WORKLIST(Hardcopy Internal Chain)

81481

WorkList Name : %1-013025

WorkList ID : 187270

Department : Wet-Chemistry

Date : 01-30-2025 07:55:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1232-15	JPP-42.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-17	JPP-51.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1232-19	JPP-51.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1233-01	WIPE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/30/2025	Chemtech -SO
Q1233-02	WIPE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/30/2025	Chemtech -SO
Q1235-01	JPP-51.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1235-03	JPP-51.2-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1235-05	JPP-16.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1235-07	JPP-16.1-012925	Solid	Percent Solids	Cool 4 deg C	RUTW01	E11	01/29/2025	Chemtech -SO
Q1237-01	HL6PX1	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-02	HL6PX2	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-03	HL6PX3	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-04	HL6PX4	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-05	HL6PX5	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1237-06	HL6PX6	Solid	Percent Solids	Cool 4 deg C	GENV01	N31	01/30/2025	Chemtech -SO
Q1239-01	286	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/30/2025	Chemtech -SO
Q1239-04	348	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/30/2025	Chemtech -SO
Q1239-07	RBR22266	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/30/2025	Chemtech -SO
Q1239-10	357	Solid	Percent Solids	Cool 4 deg C	PSEG03	N31	01/30/2025	Chemtech -SO
Q1240-01	MEG-OIL	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	01/30/2025	Chemtech -SO

Date/Time 01/30/25 15:20

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 01/30/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Extraction Start Date : 01/31/2025

Matrix : Solid

Extraction Start Time : 09:45

Weigh By: EH

Extraction By: RJ

Extraction End Date : 01/31/2025

Balance check: RJ

Filter By: RJ

Extraction End Time : 13:45

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 3,7

Supervisor By : rajesh

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	PP24092
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
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	EP2578
Baked Na2SO4	N/A	EP2580
Sand	N/A	E2865
Hexane	N/A	E3872
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

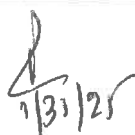
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/31/25 13:50	RP (EPH 2015)	Y-P. PESTHUPD.
	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-7

Concentration Date: 01/31/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166417BL	PB166417BL	EPH_NF	30.02	N/A	ritesh	Evelyn	2			U6-1
PB166417BS	PB166417BS	EPH_NF	30.02	N/A	ritesh	Evelyn	2			2
PB166417BSD	PB166417BSD	EPH_NF	30.01	N/A	ritesh	Evelyn	2			3
Q1237-01	HL6PX1	EPH_NF	30.06	N/A	ritesh	Evelyn	2			4
Q1237-02	HL6PX2	EPH_NF	30.08	N/A	ritesh	Evelyn	2			5
Q1237-03	HL6PX3	EPH_NF	30.05	N/A	ritesh	Evelyn	2			6
Q1237-04	HL6PX4	EPH_NF	30.01	N/A	ritesh	Evelyn	2			U7-1
Q1237-05	HL6PX5	EPH_NF	30.03	N/A	ritesh	Evelyn	2			2
Q1237-06	HL6PX6	EPH_NF	30.01	N/A	ritesh	Evelyn	2			3
Q1237-06DUP	HL6PX6DUP	EPH_NF	30.02	N/A	ritesh	Evelyn	2			4
Q1237-06MS	HL6PX6MS	EPH_NF	30.07	N/A	ritesh	Evelyn	2			5
Q1237-06MSD	HL6PX6MSD	EPH_NF	30.05	N/A	ritesh	Evelyn	2			6
Q1239-01	286	EPH_NF	30.06	N/A	ritesh	Evelyn	2	C		U3-1
Q1239-04	348	EPH_NF	30.07	N/A	ritesh	Evelyn	2	C		2
Q1239-07	RBR22266	EPH_NF	30.03	N/A	ritesh	Evelyn	2	C		3
Q1239-10	357	EPH_NF	30.02	N/A	ritesh	Evelyn	2	C		4
Q1243-01	CL-01-01302025	EPH_NF	30.05	N/A	ritesh	Evelyn	2	C		5
Q1243-02	CL-01-01302025-E2	EPH_NF	30.08	N/A	ritesh	Evelyn	2			6
Q1244-01	EO-02-01302025	EPH_NF	30.03	N/A	ritesh	Evelyn	2	C		U4-1
Q1244-02	EO-02-01302025-E2	EPH_NF	30.04	N/A	ritesh	Evelyn	2			2

* Extracts relinquished on the same date as received.



1661171
8.16.17

WORKLIST(Hardcopy Internal Chain)

Worklist Name : Q1237

Worklist ID : 187332

Department : Extraction

Date : 01-31-2025 08:16:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1237-01	HL6PX1	Solid	EPH_NF	Cool 4 deg C	GENV01	N31	01/30/2025	NJEPH
Q1237-02	HL6PX2	Solid	EPH_NF	Cool 4 deg C	GENV01	N31	01/30/2025	NJEPH
Q1237-03	HL6PX3	Solid	EPH_NF	Cool 4 deg C	GENV01	N31	01/30/2025	NJEPH
Q1237-04	HL6PX4	Solid	EPH_NF	Cool 4 deg C	GENV01	N31	01/30/2025	NJEPH
Q1237-05	HL6PX5	Solid	EPH_NF	Cool 4 deg C	GENV01	N31	01/30/2025	NJEPH
Q1237-06	HL6PX6	Solid	EPH_NF	Cool 4 deg C	GENV01	N31	01/30/2025	NJEPH
Q1239-01	286	Solid	EPH_NF	Cool 4 deg C	PSEG03	N31	01/30/2025	NJEPH
Q1239-04	348	Solid	EPH_NF	Cool 4 deg C	PSEG03	N31	01/30/2025	NJEPH
Q1239-07	RBR22266	Solid	EPH_NF	Cool 4 deg C	PSEG03	N31	01/30/2025	NJEPH
Q1239-10	357	Solid	EPH_NF	Cool 4 deg C	PSEG03	N31	01/30/2025	NJEPH
Q1243-01	CL-01-01302025	Solid	EPH_NF	Cool 4 deg C	PSEG05	N41	01/30/2025	NJEPH
Q1243-02	CL-01-01302025-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	N41	01/30/2025	NJEPH
Q1244-01	EO-02-01302025	Solid	EPH_NF	Cool 4 deg C	PSEG05	N51	01/30/2025	NJEPH
Q1244-02	EO-02-01302025-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	N51	01/30/2025	NJEPH

Date/Time 01/31/25 9:40
Raw Sample Received by: R J (Set Lab)
Raw Sample Relinquished by: QJ Sm

Date/Time 01/31/25 10:40
Raw Sample Received by: QJ Sm
Raw Sample Relinquished by: R J (Set Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q1237

Test : EPH_NF

Prepbatch ID : PB166417,

Sequence ID/Qc Batch ID: FC013125AL,FF020125AL,FF020325AL,

Standard ID :

EP2578,EP2580,PP23644,PP23645,PP23646,PP23647,PP23648,PP23649,PP23650,PP24092,PP24108,PP24119,

Chemical ID :

E2865,E3551,E3789,E3846,E3848,E3872,P12362,P12972,P13017,P13278,P13595,P13597,P13598,P13607,P13636,P13652,P13654,P13661,P13685,P13744,P13748,P13766,P13769,P13801,P13806,P13810,P13812,P13813,P13814,P13815,P13823,P13824,P13835,P13837,P13838,P13841,P13847,P13848,P13849,P13852,P13853,P13854,W3153,

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	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025

FROM 8000.00000ml of E3846 + 8000.00000ml of E3848 = 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	EP2580	01/17/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/17/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
781	100 PPM Aliphatic HC Working STD (Restek)	PP23644	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 1.25000ml of P12362 + 23.25000ml of E3789 = 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)	PP23645	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 2.50000ml of P13278 + 22.00000ml of E3789 = 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	PP23646	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.50000ml of E3789 + 0.50000ml of PP23644 = 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	PP23647	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23644 = 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	PP23648	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
09/10/2024								

FROM 0.90000ml of E3789 + 0.10000ml of PP23644 = 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	PP23649	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
09/10/2024								

FROM 0.90000ml of E3789 + 0.10000ml of PP23646 = 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)	PP23650	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23645 = 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	PP24092	12/18/2024	06/18/2025	Yogesh Patel	None	None	Ankita Jodhani
								12/18/2024

FROM 5.00000ml of P13636 + 5.00000ml of P13801 + 5.00000ml of P13806 + 5.00000ml of P13810 + 5.00000ml of P13812 + 5.00000ml of P13813 + 5.00000ml of P13814 + 5.00000ml of P13815 + 5.00000ml of P13823 + 5.00000ml of P13824 + 5.00000ml of P13835 + 5.00000ml of P13837 + 5.00000ml of P13838 + 5.00000ml of P13841 + 5.00000ml of P13847 + 5.00000ml of P13848 + 5.00000ml of P13849 + 5.00000ml of P13852 + 5.00000ml of P13853 + 5.00000ml of P13854 = 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>
1331	100 PPM NJEPH Fractionating Surrogate	PP24108	01/14/2025	07/14/2025	Yogesh Patel	None	None	Ankita Jodhani 01/15/2025
<u>FROM</u> 1.25000ml of P13744 + 1.25000ml of P13748 + 1.25000ml of P13766 + 1.25000ml of P13769 + 195.00000ml of W3153 = Final Quantity: 200.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1339	100 PPM NJEPH Surrogate Spike	PP24119	01/16/2025	06/26/2025	Yogesh Patel	None	None	Ankita Jodhani 01/16/2025
<u>FROM</u>	1.25000ml of P13595 + 1.25000ml of P13597 + 1.25000ml of P13598 + 1.25000ml of P13607 + 1.25000ml of P13652 + 1.25000ml of P13654 + 1.25000ml of P13661 + 1.25000ml of P13685 + 490.00000ml of E3846 = Final Quantity: 200.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3789

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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)	24K1762005	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3872

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	03/09/2025	09/09/2024 / yogesh	03/16/2023 / Yogesh	P12362

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	03/09/2025	09/09/2024 / yogesh	12/20/2023 / Yogesh	P12972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/09/2025	09/09/2024 / yogesh	12/21/2023 / Yogesh	P13017

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	03/09/2025	09/09/2024 / yogesh	04/11/2024 / yogesh	P13278

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13595

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13597

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13598

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13607

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	06/18/2025	12/18/2024 / yogesh	10/16/2024 / yogesh	P13636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13654

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13661

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	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13685

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13744

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13801

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	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13810

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13812

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13813

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13815

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	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13823

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13824

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13835

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13837

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13838

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13841

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	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13847

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13848

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13849

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13852

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13853

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13854

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	11/25/2024 / jignesh	11/21/2024 / jignesh	W3153

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

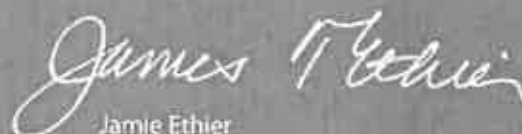
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

Material No.: 926
Batch No.: 24C186
Manufactured Date: 2024-0
Expiration Date: 2025-0
Revision N

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3789



Jamie Croak
Director Quality Operations, Bioscience Products

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors™**



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

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

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

Rec'd by RP On 12/13/24

E 3846



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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	0.01 %

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

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

E 3848

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

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

Avantor™



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₈ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 1/29/25

E 3872

Jamie Croak
Director Quality Operations, Bioscience Production



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : NJEPH Aliphatics Calibration Standard

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

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

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

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

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

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

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

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

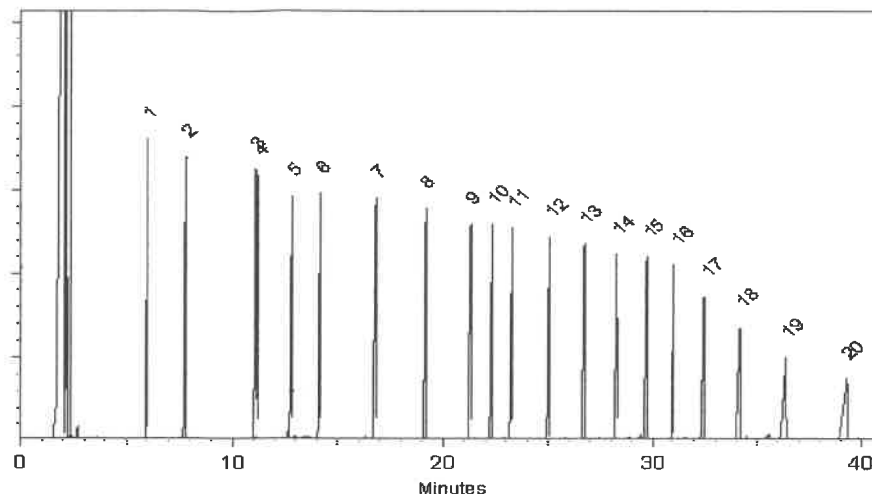
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description: 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P12960
↓
P12991 } Y.P.
12/21/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

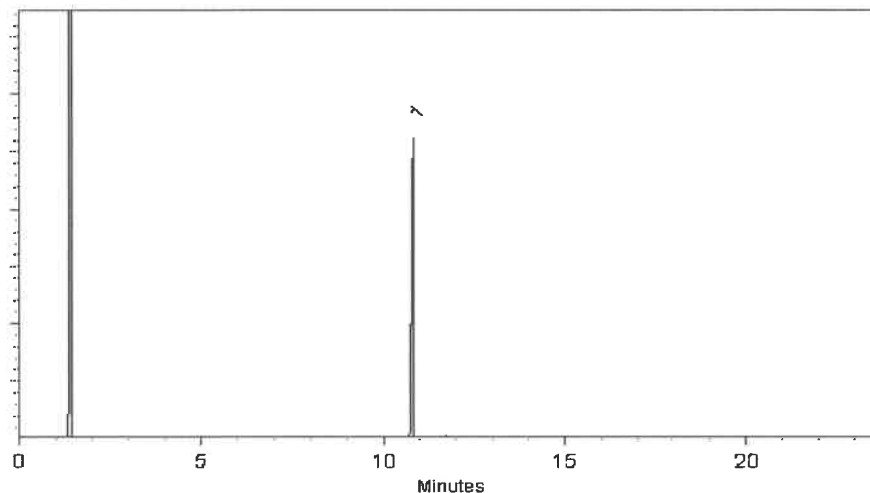
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023

Balance Serial # B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



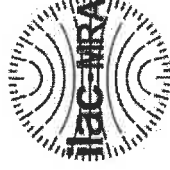
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31097 Lot No.: A0204177

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: June 30, 2027 Storage: 10°C or colder

Handling: Sonicate prior to use. Ship: Ambient

P12992 } Y.P.
↓
P13031 } 12/21/2023

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%	10,000.5 µg/mL	+/- 450.4278

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

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

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.)

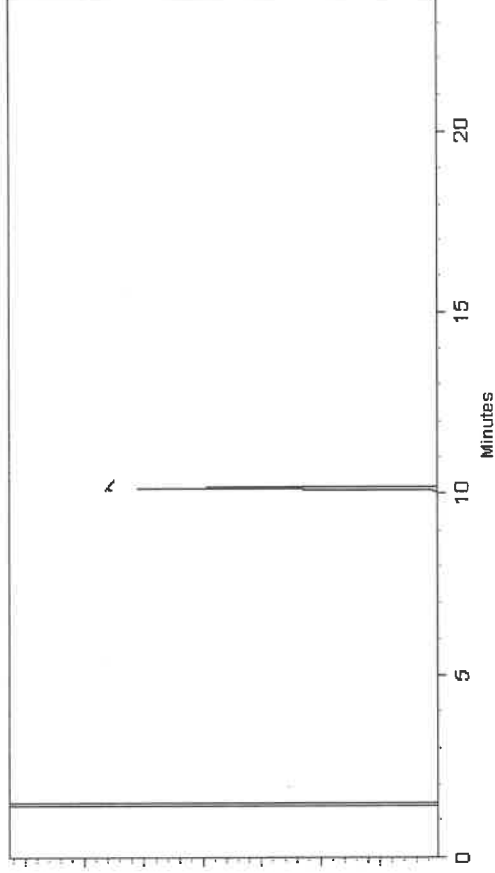
Inj. Temp:
250°C

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.



Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905



Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

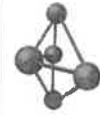
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

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

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

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

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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

Compound		Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
																(Solvent Safety Info. On Attached pg.)	
																OSHA PEL (TWA)	
																CAS#	
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H) orl-rat 490mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000.9	1000	NA	NA	0.013	NA	NA	1000.2	4.2	124-18-5	ivn-mus 218mg/kg
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	112-40-3	N/A
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1002.1	1000	NA	NA	0.013	NA	NA	1001.3	4.2	629-59-4	ivn-mus 3494mg/kg
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.7	4.2	544-76-3	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	589-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1001.9	1000	NA	NA	0.013	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	NA	0.013	NA	NA	1000.1	4.2	646-31-1	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1001.2	1000	NA	NA	0.013	NA	NA	1000.4	4.2	630-01-3	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	630-02-4	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	638-68-6	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-08-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7184-86-6	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000.6	1000	NA	NA	0.013	NA	NA	999.9	4.3	4181-95-7	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and 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).



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

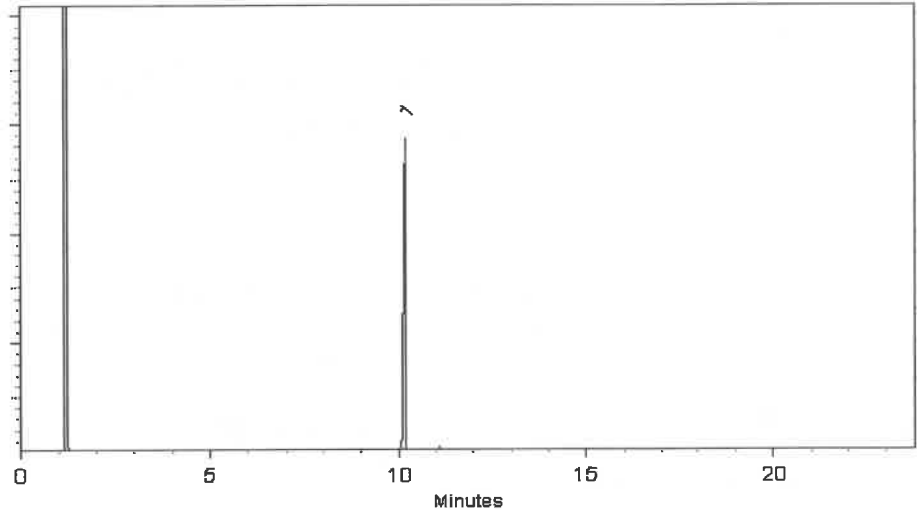
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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CERTIFIED REFERENCE MATERIAL

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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.:** A0213283

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

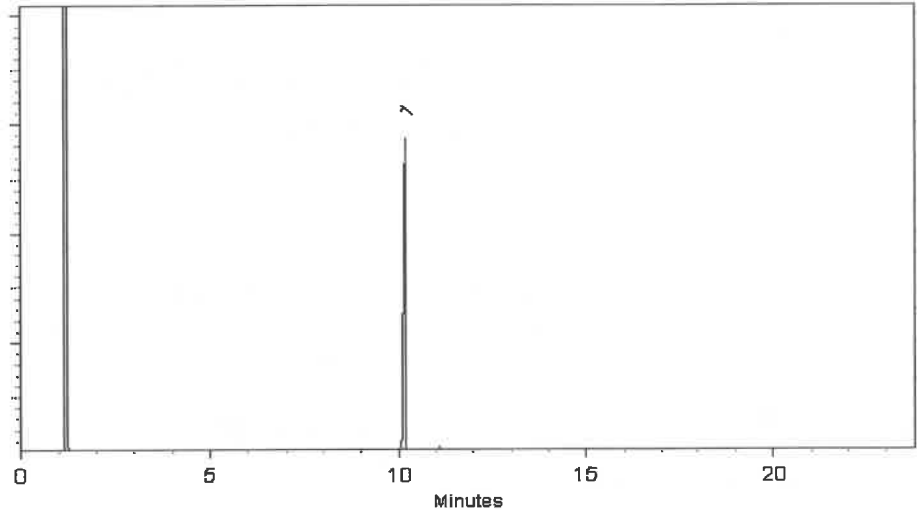
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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chromatographic plus



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:

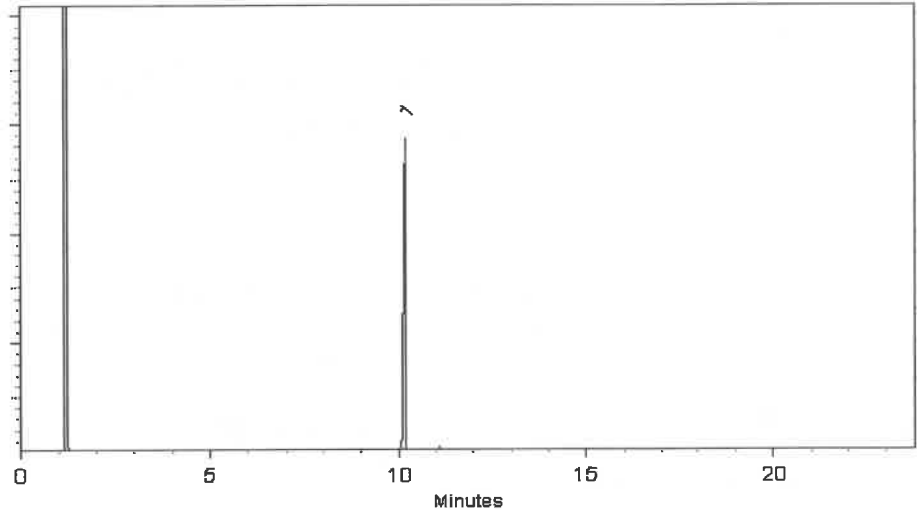
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

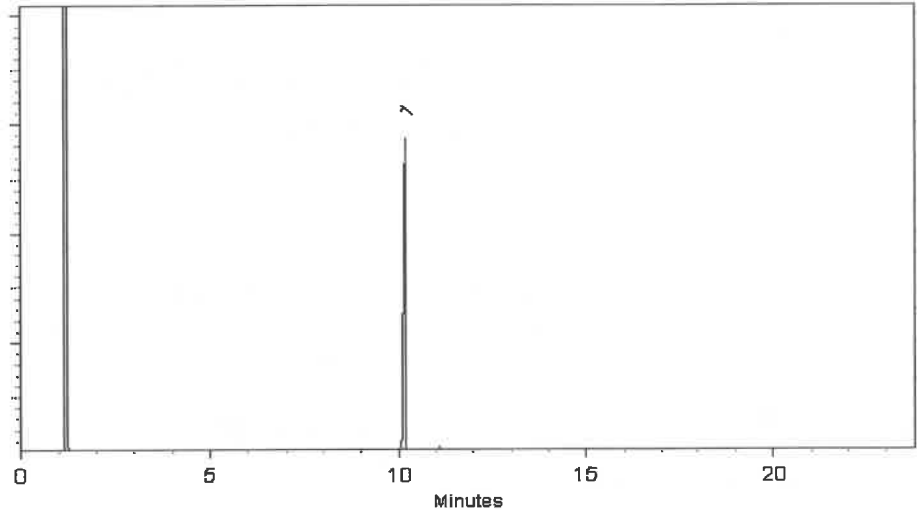
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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- Purity values are rounded to the nearest whole number.

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Manufacturing Notes:

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Handling Notes:

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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.:** A0211112

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 : June 30, 2031 **Storage:** 10°C or colder

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

P13625
↓
P13644 } 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	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

* 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:

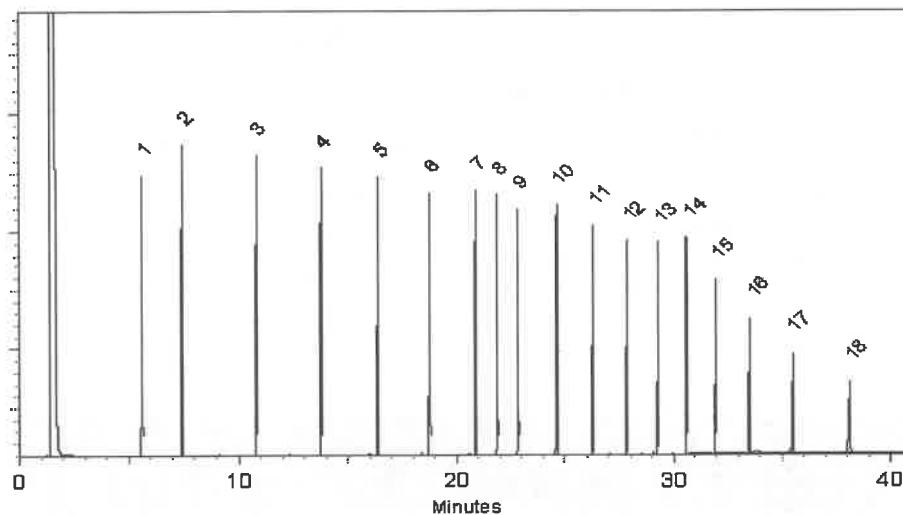
FID

Split Vent:

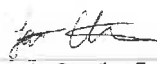
2 ml/min.

Inj. Vol

1µl

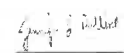


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Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

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

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

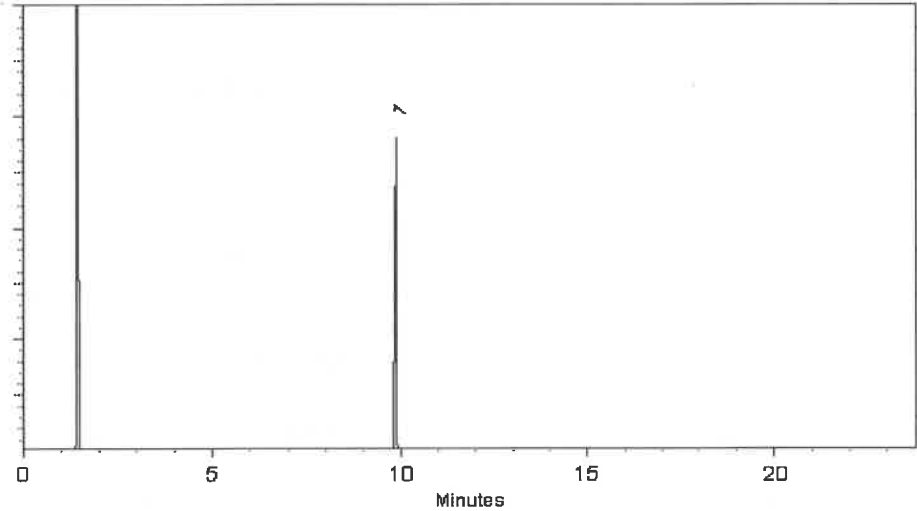
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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Certified Uncertainty Value Notes:

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

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

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

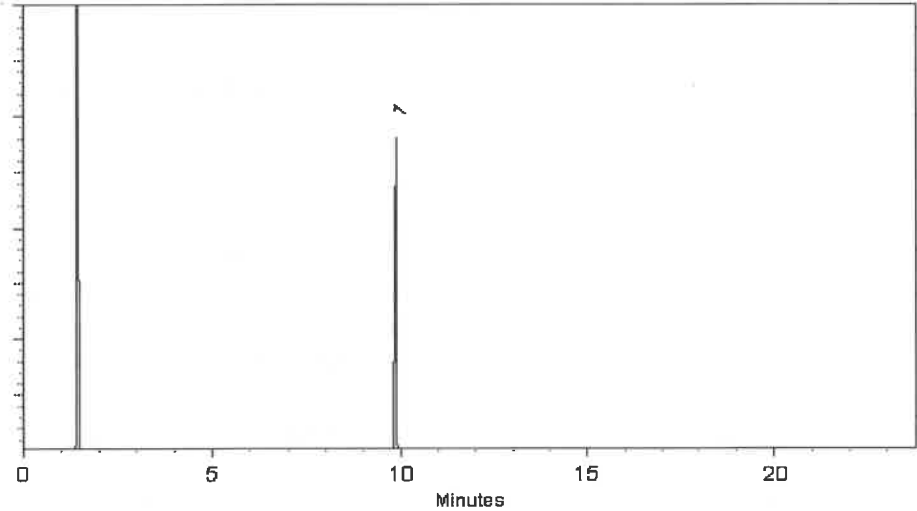
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Handling Notes:

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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:

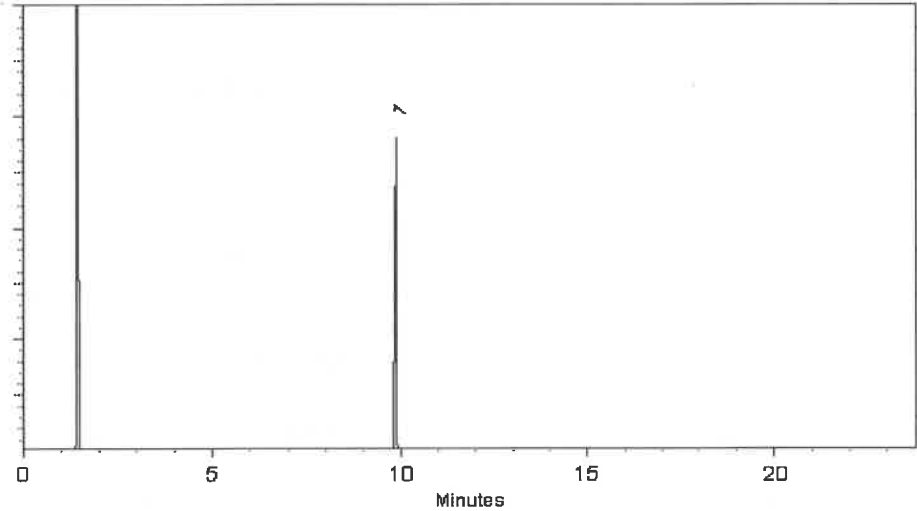
FID

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. : 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:

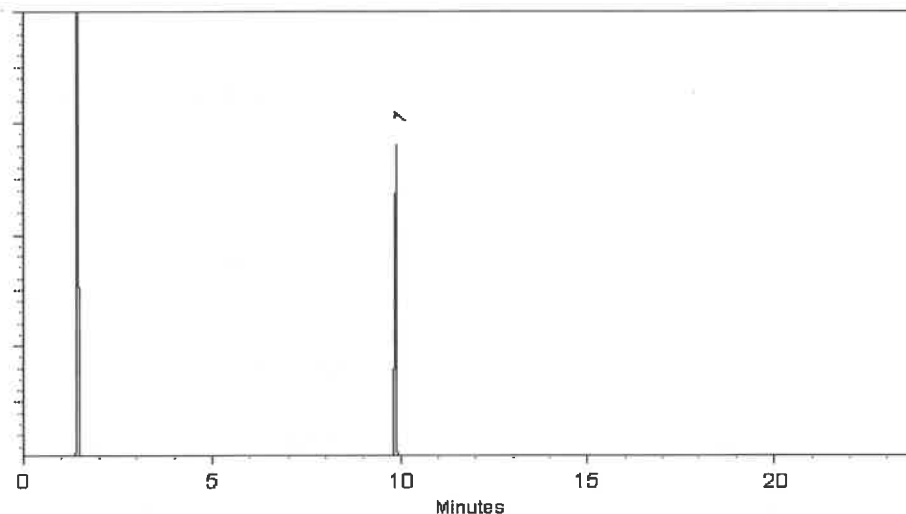
FID

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31480 **Lot No.:** A0214879
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743
↓
P13772 } Y.P.
11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

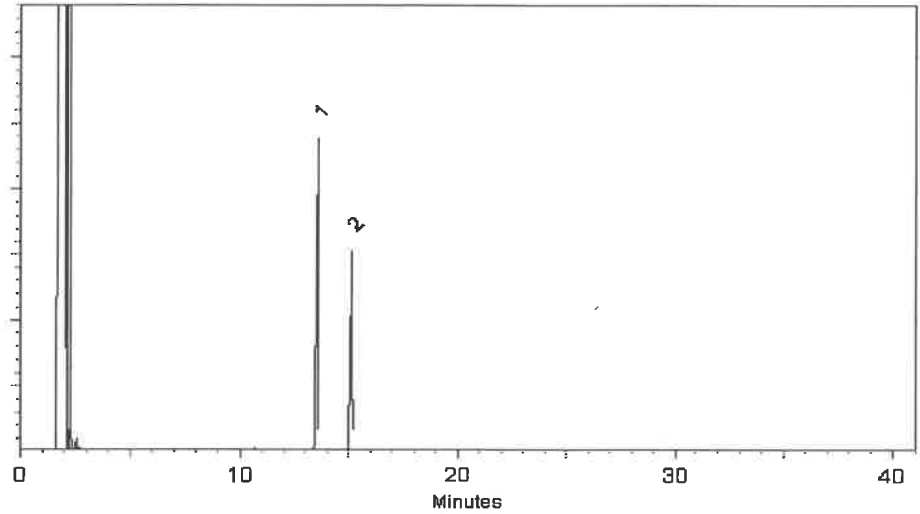
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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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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. : 31480 **Lot No.:** A0214879
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743
↓
P13772 } Y.P.
11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

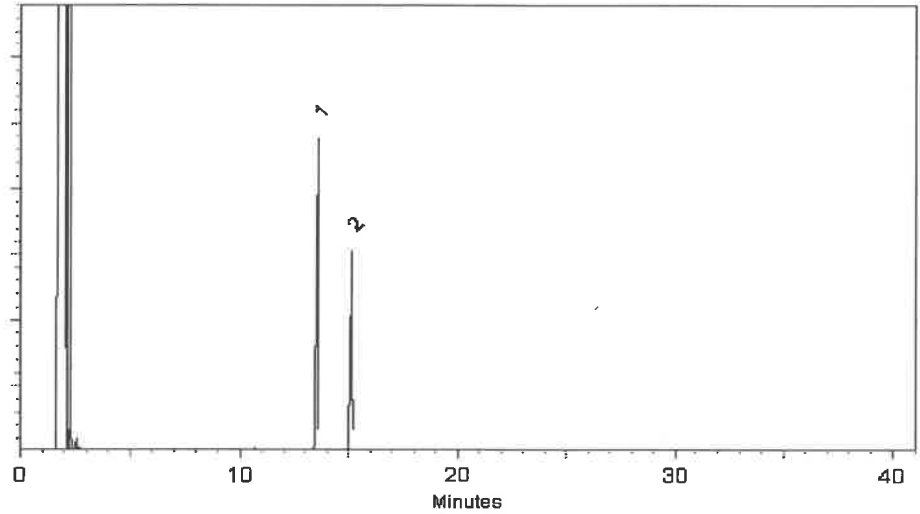
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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. : 31480 **Lot No.:** A0214879
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743
↓
P13772 } Y.P.
11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

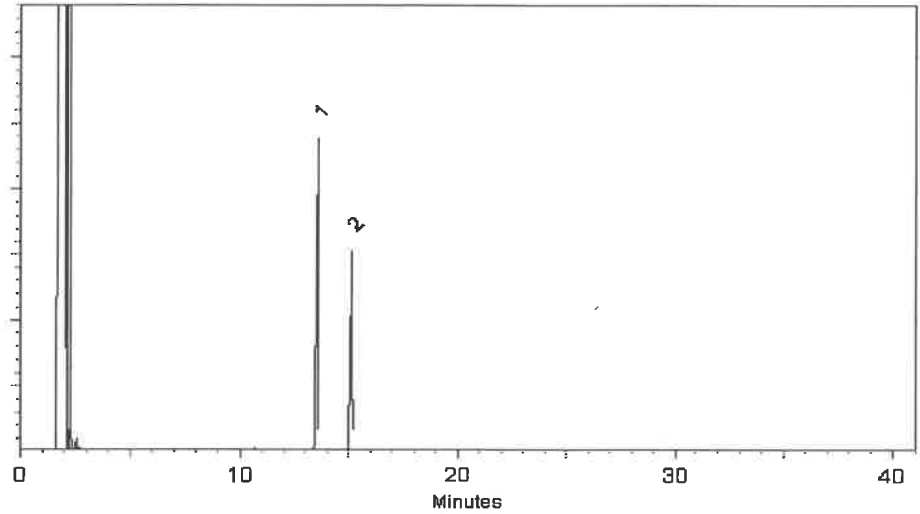
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

Catalog No. : 31480 **Lot No.:** A0214879
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743
↓
P13772 } Y.P.
11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

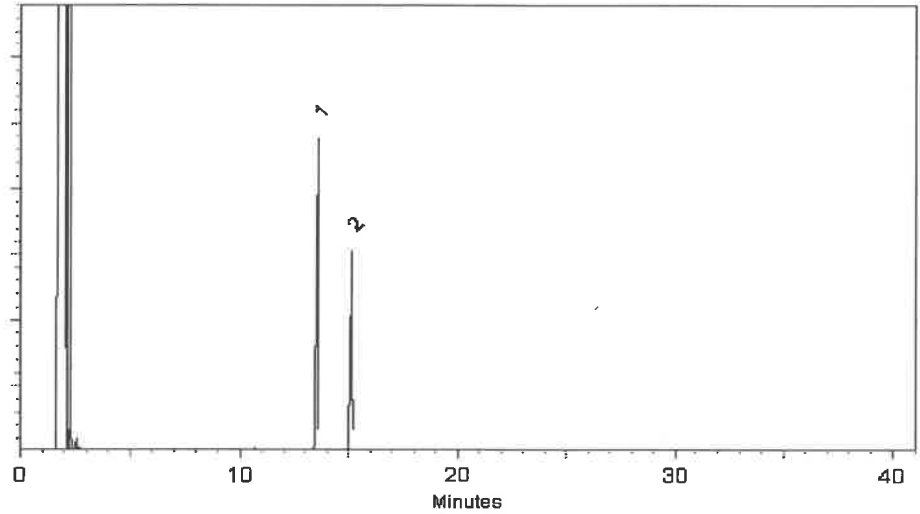
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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:

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

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

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0217408

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 : November 30, 2031 **Storage:** 10°C or colder

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

P13800
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P13829 } YIP
12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* 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.)

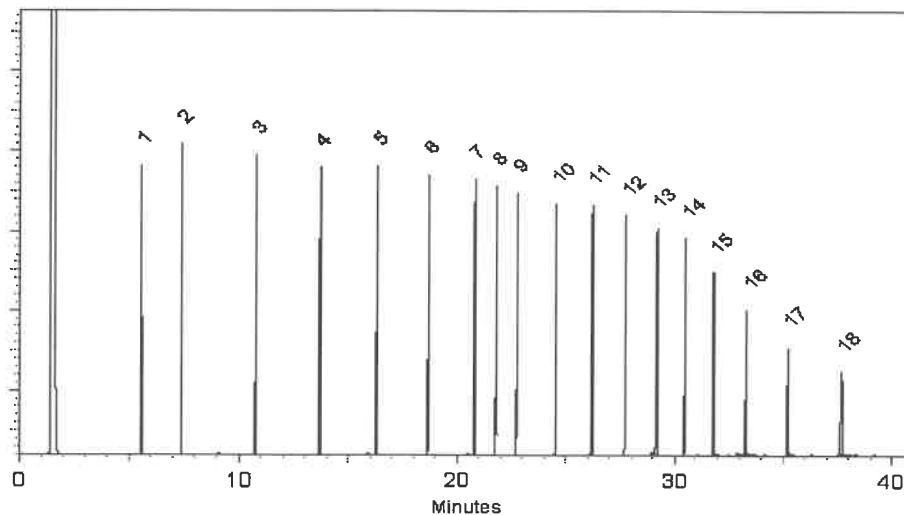
Inj. Temp:
 250°C

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.

Penelope S. Riglin
 Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.:** A0217408

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 : November 30, 2031 **Storage:** 10°C or colder

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

P13800
↓
P13829 } YIP
12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* 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.)

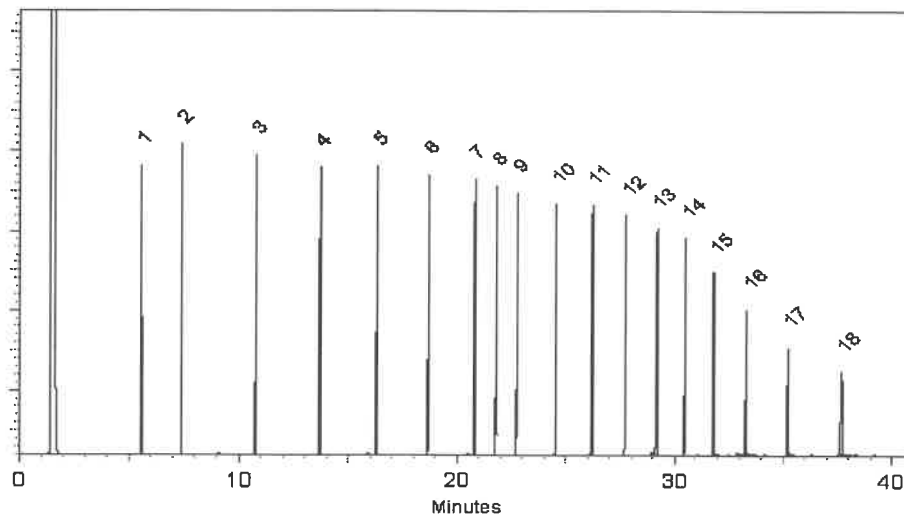
Inj. Temp:
250°C

Det. Temp:
330°C

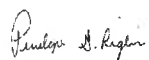
Det. Type:
FID

Split Vent:
2 ml/min.

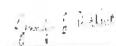
Inj. Vol
1µl



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.


Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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Certificate of Analysis

chromatographic plus



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

Catalog No. : 30542 **Lot No.:** A0217408

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 : November 30, 2031 **Storage:** 10°C or colder

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

P13800
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P13829 } YIP
12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* 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.)

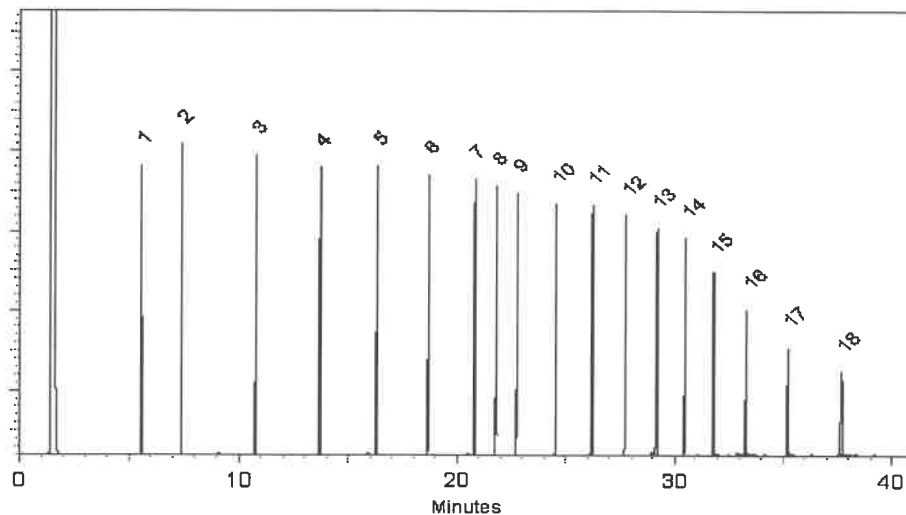
Inj. Temp:
250°C

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.

Penelope S. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 30542 **Lot No.:** A0217408

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 : November 30, 2031 **Storage:** 10°C or colder

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

P13800
↓
P13829 } YIP
12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
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16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* 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.)

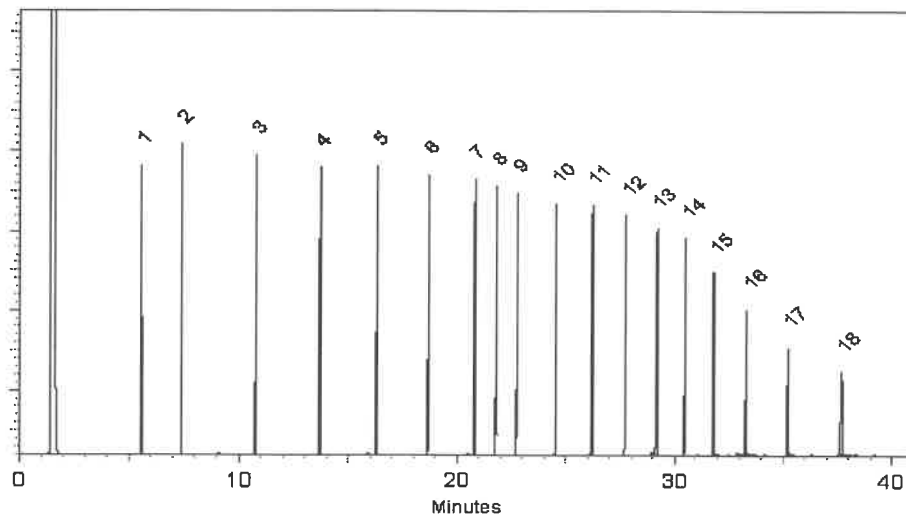
Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID

Split Vent:
 2 ml/min.

Inj. Vol
 1µl



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Penelope S. Riglin
 Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0217408

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 : November 30, 2031 **Storage:** 10°C or colder

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

P13800
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P13829 } YIP
12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* 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.)

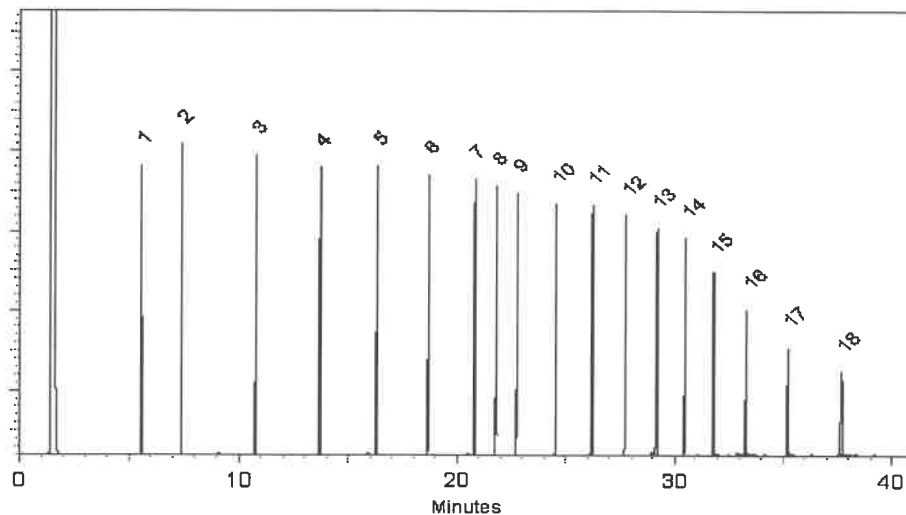
Inj. Temp:
250°C

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.

Penelope S. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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chromatographic plus



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

Catalog No. : 30542 **Lot No.:** A0217408

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 : November 30, 2031 **Storage:** 10°C or colder

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

P13800
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P13829
} YIP
12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* 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.)

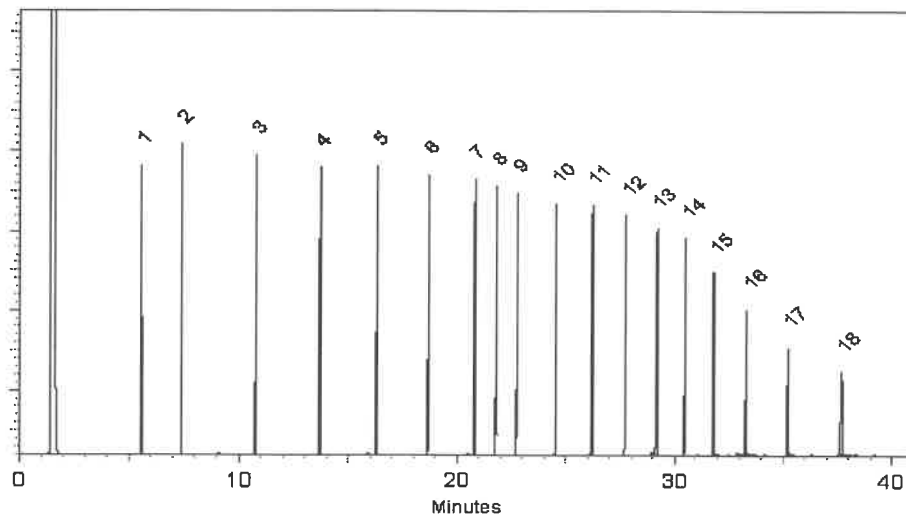
Inj. Temp:
 250°C

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.

Penelope S. Riglin
 Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

chromatographic plus



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

Catalog No. : 30542 **Lot No.:** A0217408

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 : November 30, 2031 **Storage:** 10°C or colder

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

P13800
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P13829 } YIP
12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* 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.)

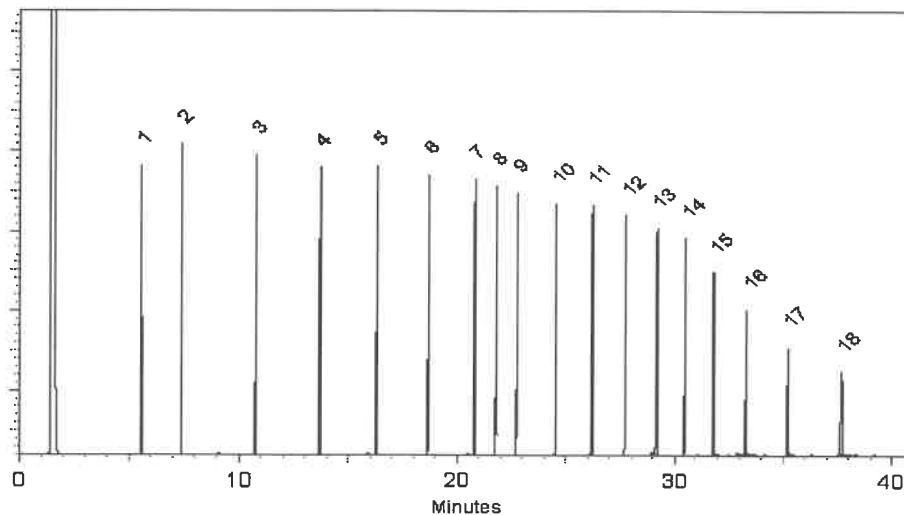
Inj. Temp:
250°C

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.

Penelope S. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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chromatographic plus



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

Catalog No. : 30542 **Lot No.:** A0217408

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 : November 30, 2031 **Storage:** 10°C or colder

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

P13800
↓
P13829 } YIP
12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
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16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* 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.)

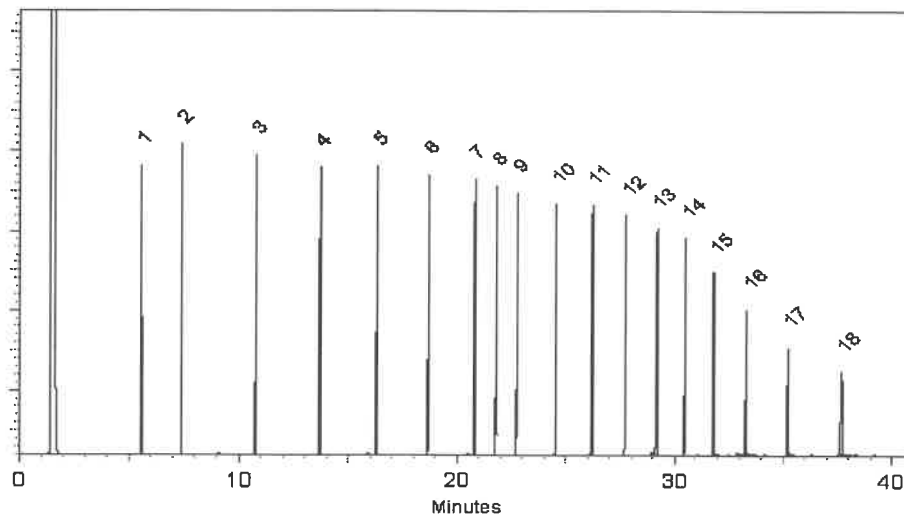
Inj. Temp:
250°C

Det. Temp:
330°C

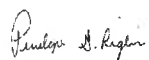
Det. Type:
FID

Split Vent:
2 ml/min.

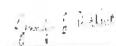
Inj. Vol
1µl



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.


Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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- Purity 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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0217408

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 : November 30, 2031 **Storage:** 10°C or colder

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

P13800
↓
P13829 } YIP
12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* 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.)

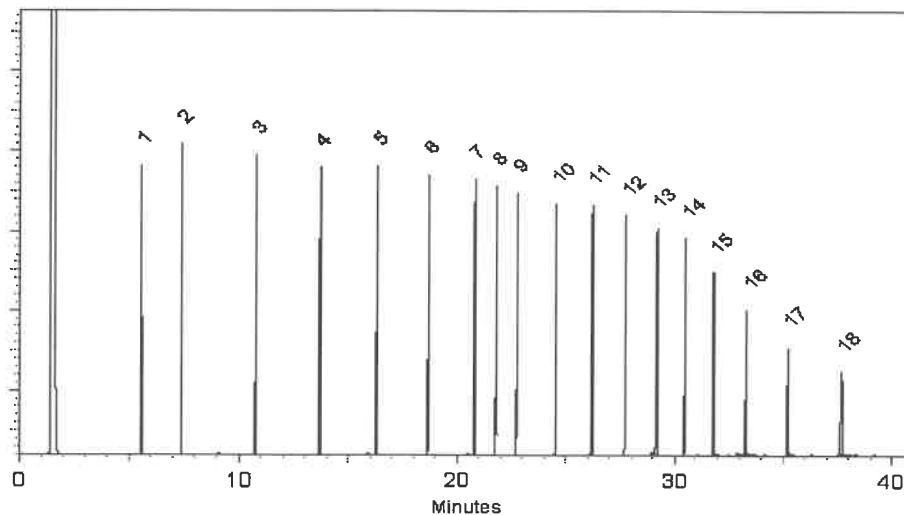
Inj. Temp:
 250°C

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.

Penelope S. Riglin
 Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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.:** A0217838

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 : September 30, 2030 **Storage:** 10°C or colder

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

P13835
2
P13860 } Y-P.
12/09/12

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	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

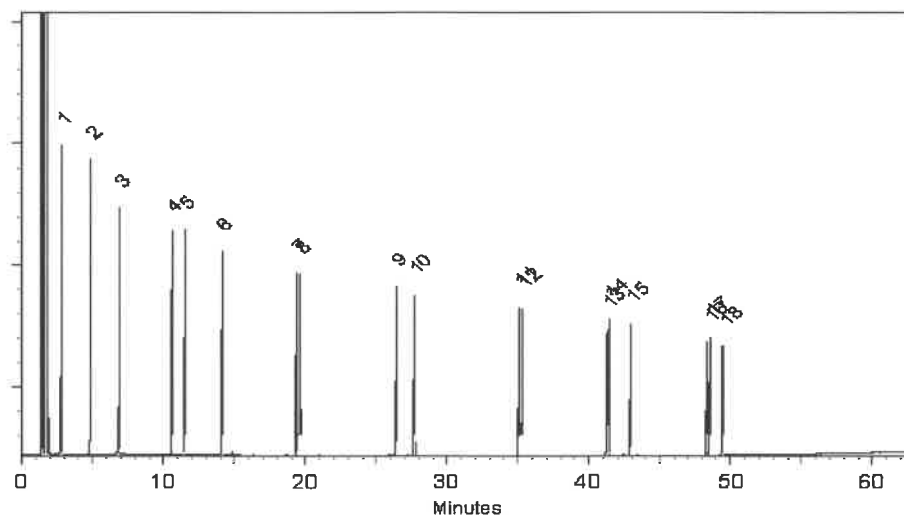
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* 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.

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

Catalog No. : 30543 **Lot No.:** A0217838

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 : September 30, 2030 **Storage:** 10°C or colder

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

P13835
2
P13860 } Y-P.
12/09/12

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	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

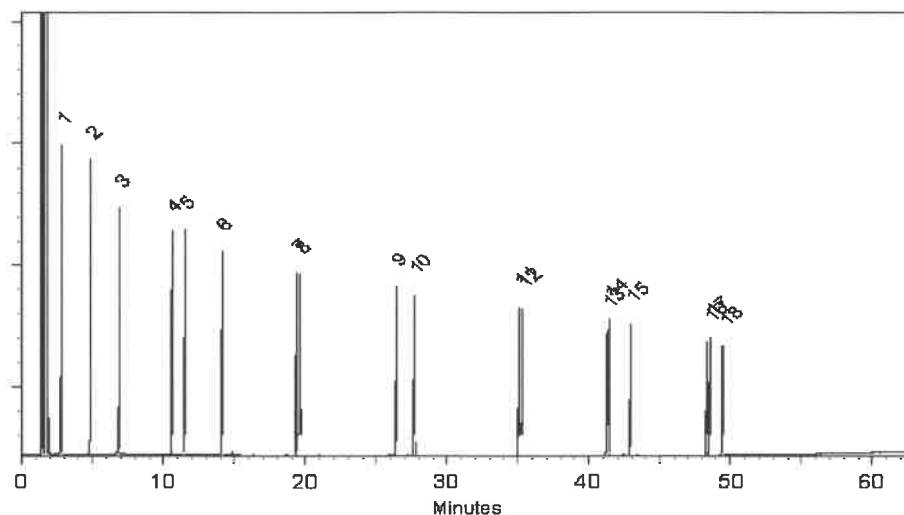
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* 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.

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.:** A0217838

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 : September 30, 2030 **Storage:** 10°C or colder

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

P13835
2
P13860 } Y-P.
12/09/12

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	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* 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.)

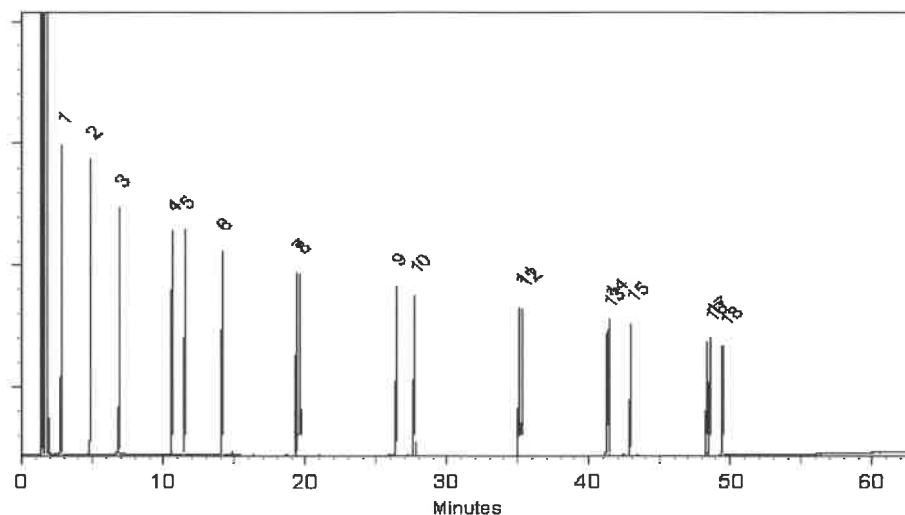
Inj. Temp:
250°C

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.

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

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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.:** A0217838

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 : September 30, 2030 **Storage:** 10°C or colder

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

P13835
2
P13860 } Y-P.
12/09/12

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	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

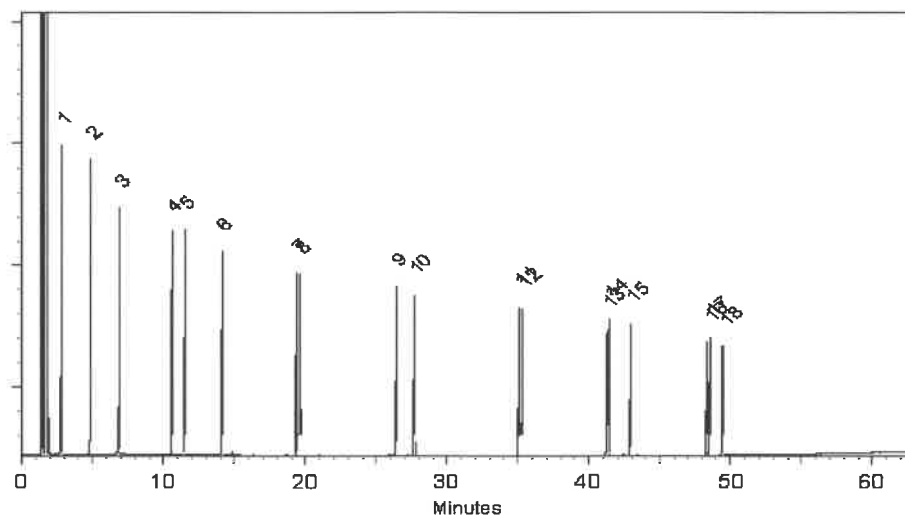
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* 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.

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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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.:** A0217838

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 : September 30, 2030 **Storage:** 10°C or colder

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

P13835
2
P13860 } Y-P.
12/09/12

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	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

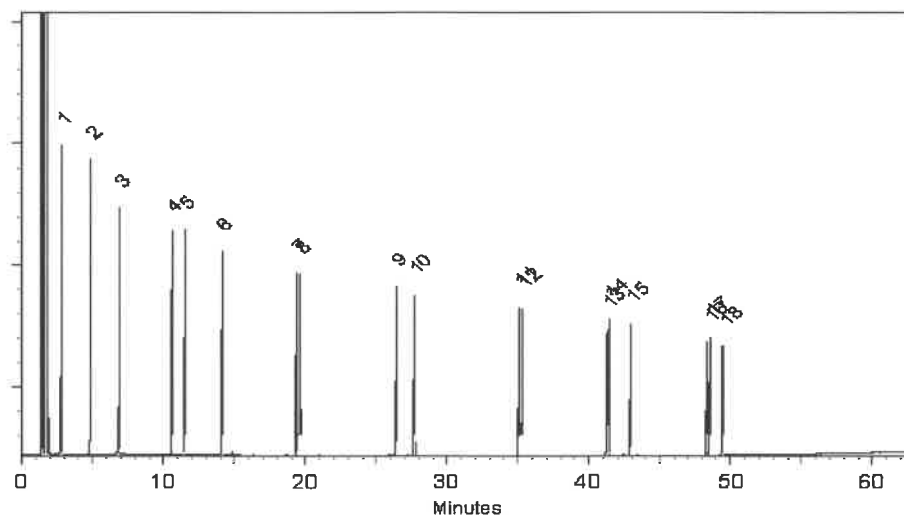
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* 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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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

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Manufacturing Notes:

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Handling Notes:

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Certificate of Analysis

chromatographic plus



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

Catalog No. : 30543 **Lot No.:** A0217838

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 : September 30, 2030 **Storage:** 10°C or colder

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

P13835
2
P13860 } Y-P.
12/09/12

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	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

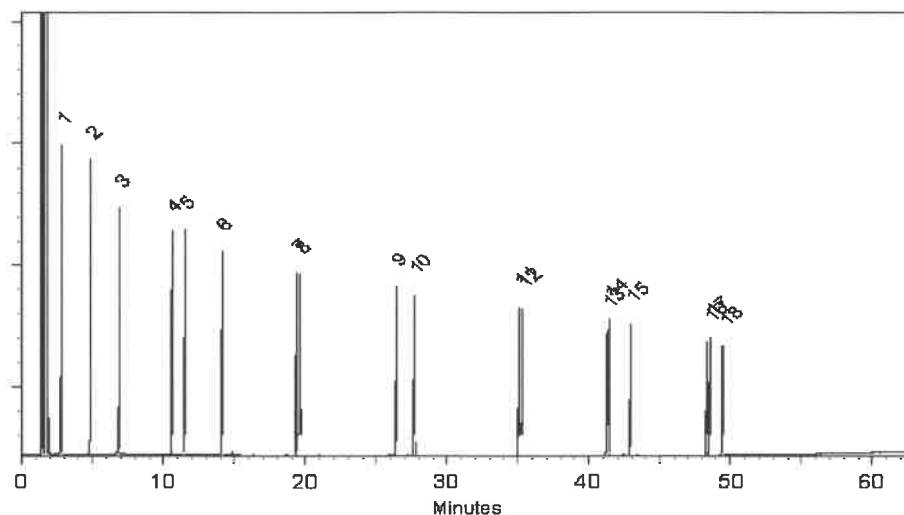
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* 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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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



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Catalog No. : 30543 **Lot No.:** A0217838

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 : September 30, 2030 **Storage:** 10°C or colder

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

P13835
2
P13860 } Y-P.
12/09/12

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	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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* 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.)

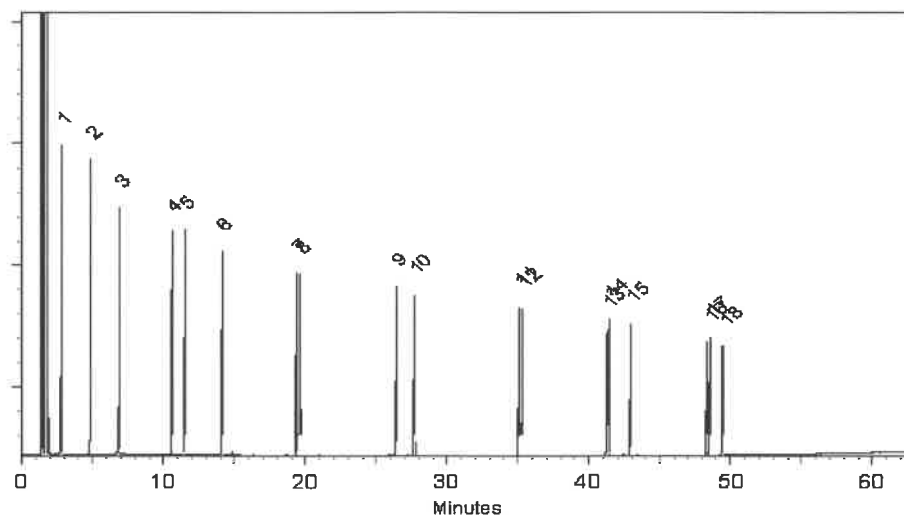
Inj. Temp:
250°C

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.

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543 **Lot No.:** A0217838

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 : September 30, 2030 **Storage:** 10°C or colder

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

P13835
2
P13860 } Y-P.
12/09/12

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	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
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9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
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15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
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* 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.)

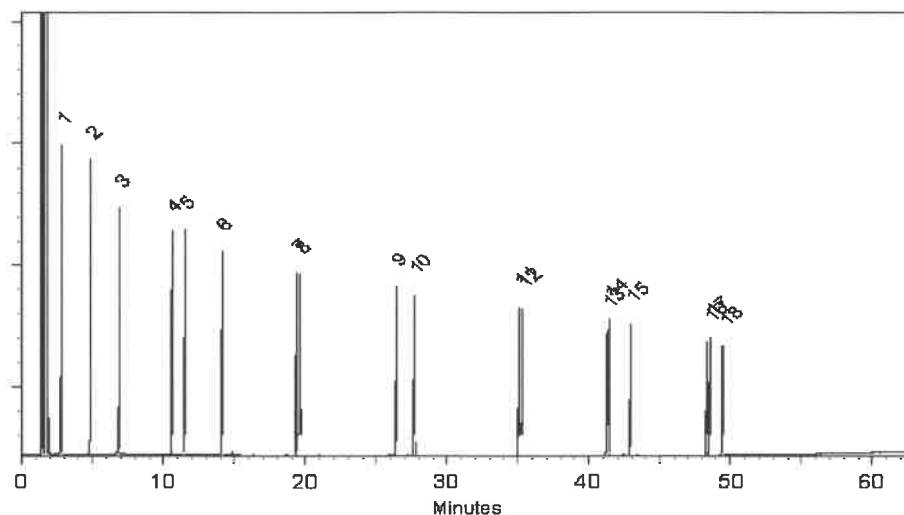
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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Expiration Date : September 30, 2030 **Storage:** 10°C or colder

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P13860 } Y-P.
12/09/12

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Rtx-5 (cat.#10223)

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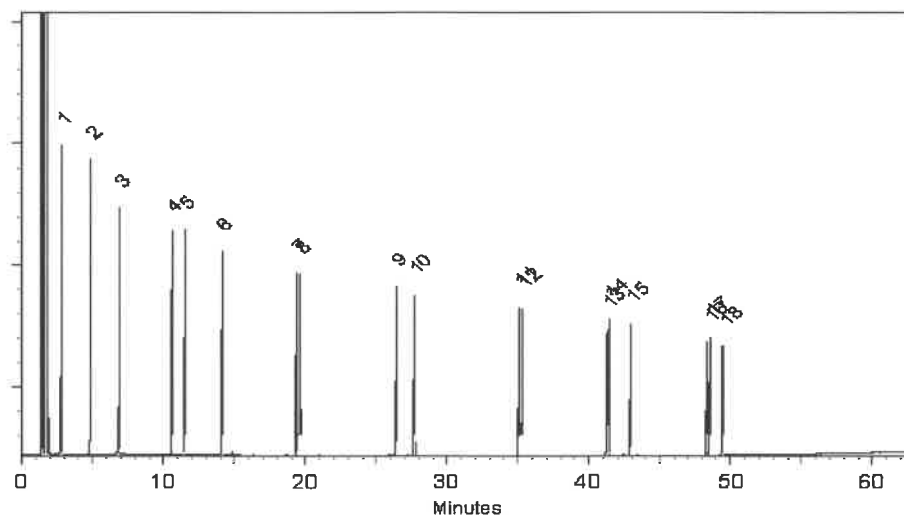
Inj. Temp:
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Det. Type:
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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

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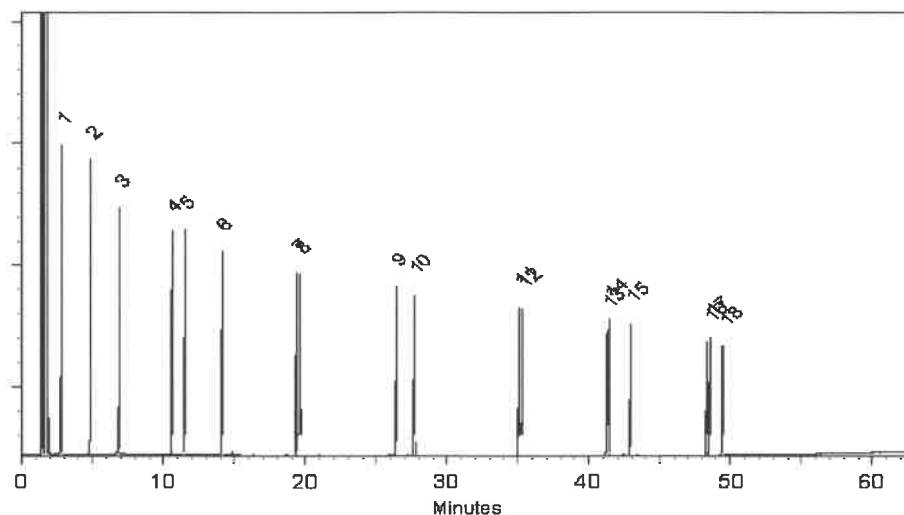
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Det. Type:
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Split Vent:
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Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

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



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

WJ3153
SB
0844e. 11/25/2024
SB

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: G Environmental
ADDRESS: 8 CARRIAGE lane
CITY: Succasunna STATE: NJ ZIP: 07876
ATTENTION: GU
PHONE: _____ FAX: _____

CLIENT PROJECT INFORMATION

PROJECT NAME: Nelson
PROJECT NO.: _____ LOCATION: Maplewood
PROJECT MANAGER: GU
e-mail: _____
PHONE: _____ FAX: _____

CLIENT BILLING INFORMATION

BILL TO: G Environmental PO#: _____
ADDRESS: 8 CARRIAGE
CITY: Succasunna STATE: NJ ZIP: _____
ATTENTION: _____ PHONE: _____

ANALYSIS

DATA TURNAROUND INFORMATION

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

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

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

1. EPH CAT
2. Contingency
3. PAH
4. EPH CAT
5. Contingency
6. PAH
7. EPH CAT
8. Contingency
9. PAH

PRESERVATIVES

COMMENTS

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

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	HL2PX1	Soil		X	1/30/25	1015	1	X									
2.	HL2PX2					1030	1										
3.	HL2PX3					1050	1										
4.	HL2PX4					1104	1										
5.	HL2PX5					1130	1										
6.	HL2PX6	Soil		X	1/30/25	1100	1	X									
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>1/30/25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.5°C</u>
RELINQUISHED BY SAMPLER: 2. _____	DATE/TIME: _____	RECEIVED BY: 2. _____	Comments: _____
RELINQUISHED BY SAMPLER: 3. _____	DATE/TIME: _____	RECEIVED BY: 3. _____	Page <u>1</u> of <u>1</u> CLIENT: ☐ Hand Delivered ☐ Other _____

Shipment Complete
☐ YES ☐ NO



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

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