

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:	Q1939	OrderDate:	5/1/2025 2:51:00 PM
Client:	G Environmental	Project:	Amsterdam
Contact:	Gary Landis	Location:	L51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1939-01	GB1	Solid	EPH_NF	NJEPH	05/01/25	05/02/25	05/05/25	05/01/25
Q1939-03	GB2	Solid	EPH_NF	NJEPH	05/01/25	05/02/25	05/02/25	05/01/25
Q1939-05	GB3	Solid	EPH_NF	NJEPH	05/01/25	05/02/25	05/05/25	05/01/25



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM CASE No.: Q1939 SAS No.: Q1939 SDG No.: Q1939
Run Number: FC050225AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB167833BL	77	74		0
PB167833BS	78	75		0
PB167833BSD	76	73		0
MH-QMS	51	47		0
MH-QMSD	49	46		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.: Q1939 SAS No.: Q1939 SDG No.: Q1939
Run Number: FC050525AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
GB1	75	60		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.: Q1939 SAS No.: Q1939 SDG No.: Q1939
Run Number: FE050225AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
GB2	45	43		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.: Q1939 SAS No.: Q1939 SDG No.: Q1939
Run Number: FE050525AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
GB3	79	64		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:** Q1939 **SAS No :** Q1939 **SDG No:** Q1939
Sample No : Q1928-01MS **Datafile:** FC068754.D
Client ID : MH-QMS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	34.4	5.93	37.6	92		(40-140)
Aliphatic C9-C28	114.7	4.64	105	88		(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** G Environmental
Lab Code: CHEM **Cas No:** Q1939 **SAS No :** Q1939 **SDG No:** Q1939
Sample No : Q1928-01MSD **Datafile:** FC068755.D
Client ID : MH-QMSD

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	34.4	5.93	37.5	92		0.11 (40-140) 25
Aliphatic C9-C28	114.5	4.64	104	87		0.5 (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:** Q1939 **SAS No :** Q1939 **SDG No:** Q1939
Sample No : PB167833BS **Datafile:** FC068750.D
Client ID : PB167833BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	30.0	26.5	88		(40-140)
Aliphatic C9-C28	99.9	95.3	94		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** G Environmental
Lab Code: CHEM **Cas No:** Q1939 **SAS No :** Q1939 **SDG No:** Q1939
Sample No : PB167833BSD **Datafile:** FC068751.D
Client ID : PB167833BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	30.0	26.1	87		1.5 (40-140)	50
Aliphatic C9-C28	99.9	93.9	93		1.4 (40-140)	50

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167833BL

Lab Name: CHEMTECH

Contract: GENV01

Lab Code: CHEM Case No.: Q1939

SAS No.: Q1939 SDG NO.: Q1939

Instrument ID: FID_C

Lab Sample ID: PB167833BL

Matrix: (soil/water) Solid

Date Extracted: 5/2/2025 9:15:00 AM

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB167833BS	PB167833BS
PB167833BSD	PB167833BSD
MH-QMS	Q1928-01MS
MH-QMSD	Q1928-01MSD
GB1	Q1939-01
GB2	Q1939-03
GB3	Q1939-05

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	05/01/25
Project:	Amsterdam	Date Received:	05/01/25
Client Sample ID:	GB1	SDG No.:	Q1939
Lab Sample ID:	Q1939-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/02/25 09:15	05/05/25 12:00	PB167833

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	6.23		1	1.39	2.36	mg/kg FC068764.D
Aliphatic C9-C28	Aliphatic C9-C28	5.37		1	1.07	4.71	mg/kg FC068764.D
Total AliphaticEPH	Total AliphaticEPH	11.6			2.46	7.08	mg/kg
Total EPH	Total EPH	11.6			2.46	7.08	mg/kg

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	05/01/25
Project:	Amsterdam	Date Received:	05/01/25
Client Sample ID:	GB1	SDG No.:	Q1939
Lab Sample ID:	Q1939-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068764.D	1	05/02/25	05/05/25	PB167833

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.37		1.07	4.71	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.23		1.39	2.36	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.4		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.9		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1939-01	Acq On:	05 May 2025 12:00
Client Sample ID:	GB1	Operator:	YP/AJ
Data file:	FC068764.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	3.342	6.643	264625	2.513	300	ug/ml
Aliphatic C12-C16	6.644	10.043	541080	5.288	200	ug/ml
Aliphatic C16-C21	10.044	13.410	811156	8.209	300	ug/ml
Aliphatic C21-C28	13.411	17.073	4930006	52.344	400	ug/ml
Aliphatic C28-C40	17.074	22.072	7135066	79.382	600	ug/ml
Aliphatic EPH	3.342	22.072	13681933	147.736		ug/ml
ortho-Terphenyl (SURR)	11.712	11.712	3812834	29.94		ug/ml
1-chlorooctadecane (SURR)	13.145	13.145	3477612	37.44		ug/ml
Aliphatic C9-C28	3.342	17.073	6546867	68.354	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050525AL\
 Data File : FC068764.D
 Signal(s) : FID1A.ch
 Acq On : 05 May 2025 12:00
 Operator : YP/AJ
 Sample : Q1939-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 GB1

Integration File: autoint1.e
 Quant Time: May 06 03:49:59 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.712	3812834	29.943 ug/ml
Spiked Amount	50.000	Recovery	= 59.89%
12) S 1-chlorooctadecane (S...	13.145	3477612	37.436 ug/ml
Spiked Amount	50.000	Recovery	= 74.87%

Target Compounds

(f)=RT Delta > 1/2 Window

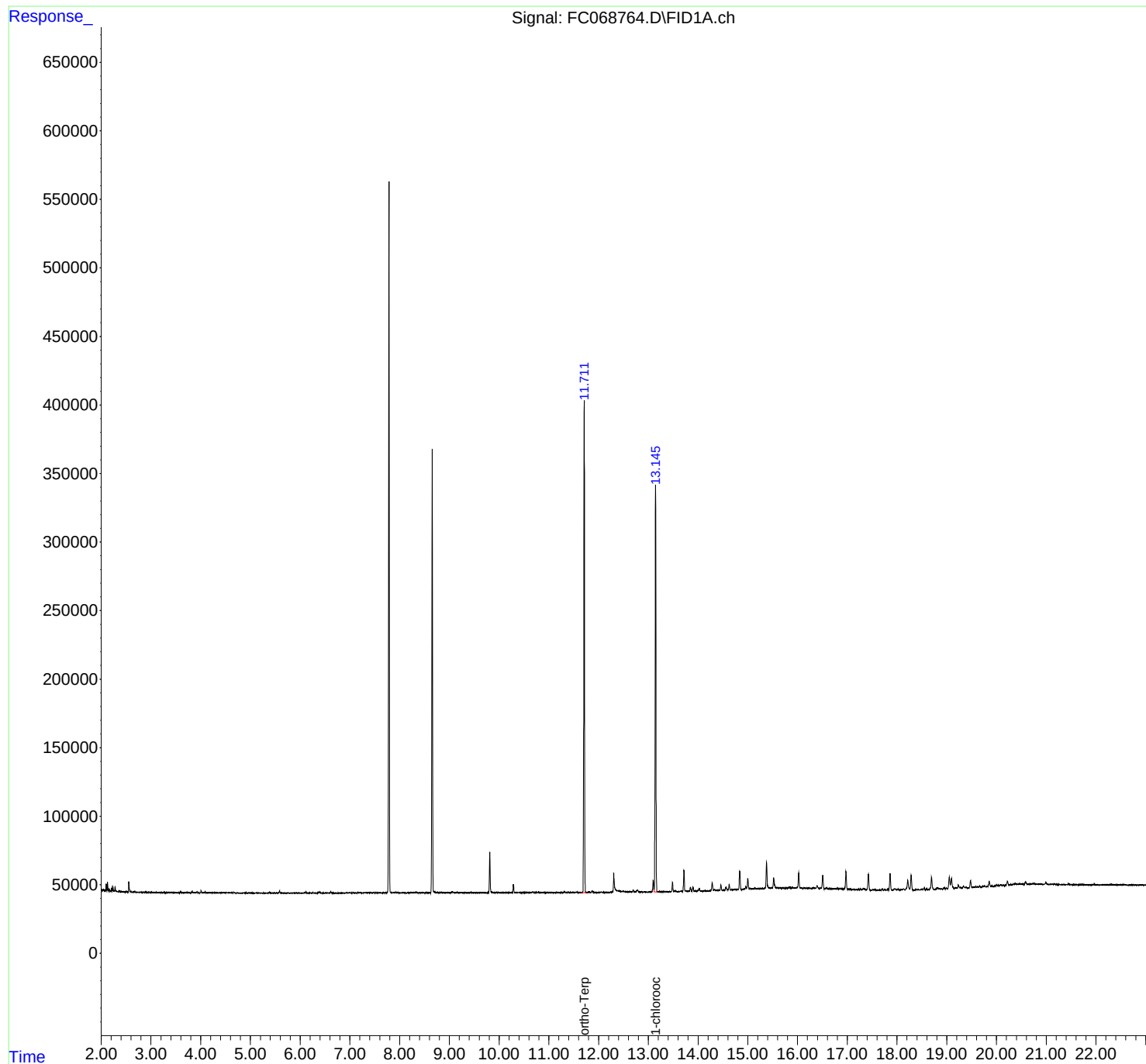
(m)=manual int.

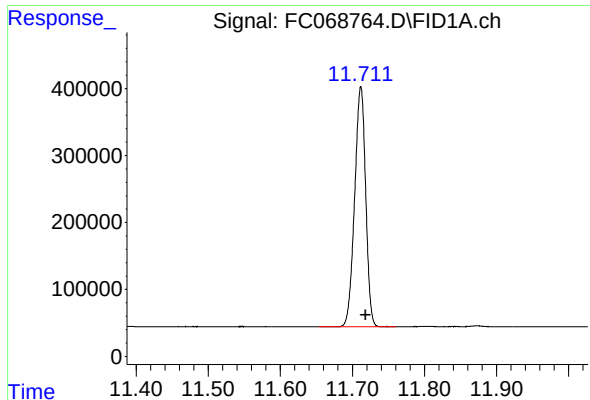
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050525AL\
Data File : FC068764.D
Signal(s) : FID1A.ch
Acq On : 05 May 2025 12:00
Operator : YP/AJ
Sample : Q1939-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
GB1

Integration File: autoint1.e
Quant Time: May 06 03:49:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

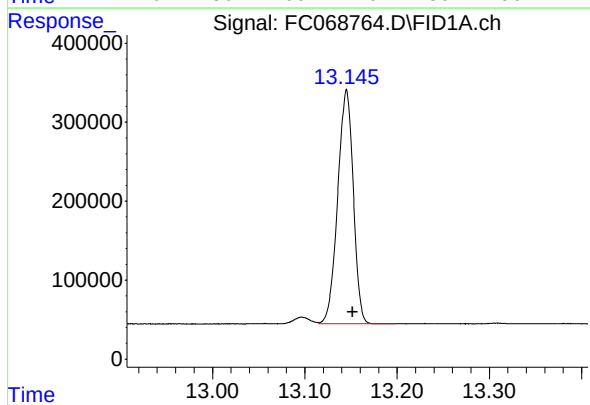




#9 ortho-Terphenyl (SURR)

R.T.: 11.712 min
Delta R.T.: -0.007 min
Response: 3812834
Conc: 29.94 ug/ml

Instrument :
FID_C
ClientSampleId :
GB1



#12 1-chlorooctadecane (SURR)

R.T.: 13.145 min
Delta R.T.: -0.007 min
Response: 3477612
Conc: 37.44 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050525AL\
 Data File : FC068764.D
 Signal(s) : FID1A.ch
 Acq On : 05 May 2025 12:00
 Sample : Q1939-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.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	3.205	3.275	BV	113	1935	0.05%	0.009%
2	3.279	3.275	3.301	PV	126	803	0.02%	0.004%
3	3.322	3.301	3.427	VV	231	8369	0.22%	0.040%
4	3.444	3.427	3.478	VV	189	2480	0.06%	0.012%
5	3.496	3.478	3.505	VV	116	967	0.03%	0.005%
6	3.522	3.505	3.545	VV	128	1209	0.03%	0.006%
7	3.592	3.545	3.667	PV	867	12248	0.32%	0.058%
8	3.689	3.667	3.745	VV	269	5296	0.14%	0.025%
9	3.760	3.745	3.795	VV	195	3173	0.08%	0.015%
10	3.828	3.795	3.907	VV	1343	15044	0.39%	0.071%
11	3.927	3.907	3.986	VV	1003	10151	0.27%	0.048%
12	4.009	3.986	4.042	VV	1650	15144	0.40%	0.072%
13	4.090	4.042	4.114	VV	872	9102	0.24%	0.043%
14	4.124	4.114	4.182	VV	127	3316	0.09%	0.016%
15	4.195	4.182	4.240	VV	91	2219	0.06%	0.010%
16	4.281	4.240	4.306	VV	198	4702	0.12%	0.022%
17	4.315	4.306	4.354	VV	180	3457	0.09%	0.016%
18	4.365	4.354	4.378	VV	146	1403	0.04%	0.007%
19	4.445	4.378	4.478	VV	161	5647	0.15%	0.027%
20	4.487	4.478	4.501	VV	143	1315	0.03%	0.006%
21	4.520	4.501	4.595	VV	500	10770	0.28%	0.051%
22	4.606	4.595	4.644	VV	177	3083	0.08%	0.015%
23	4.664	4.644	4.713	VV	677	9108	0.24%	0.043%
24	4.732	4.713	4.768	VV	117	2217	0.06%	0.010%
25	4.806	4.768	4.831	VV	85	2284	0.06%	0.011%
26	4.871	4.845	4.882	VV	140	1688	0.04%	0.008%
27	4.900	4.882	4.958	VV	152	3195	0.08%	0.015%
28	4.971	4.958	5.030	VV	110	1925	0.05%	0.009%
29	5.071	5.030	5.080	PV	131	1807	0.05%	0.009%
30	5.107	5.080	5.194	VV	181	4229	0.11%	0.020%
31	5.202	5.194	5.226	PV	117	1322	0.03%	0.006%
32	5.240	5.226	5.298	VV	121	3227	0.08%	0.015%
33	5.301	5.298	5.308	VV	118	406	0.01%	0.002%
34	5.344	5.308	5.357	VV	133	2808	0.07%	0.013%
35	5.378	5.357	5.412	VV	548	6651	0.17%	0.031%
36	5.417	5.412	5.442	VV	90	1206	0.03%	0.006%

					rteres			
37	5.455	5.442	5.489	VV	92	1766	0.05%	0.008%
38	5.559	5.489	5.570	PV	204	4169	0.11%	0.020%
39	5.586	5.570	5.618	VV	1677	16912	0.44%	0.080%
40	5.627	5.618	5.640	VV	227	1364	0.04%	0.006%
41	5.661	5.640	5.743	VV	163	5089	0.13%	0.024%
42	5.752	5.743	5.791	VV	148	1663	0.04%	0.008%
43	5.813	5.791	5.824	VV	124	1701	0.04%	0.008%
44	5.868	5.824	5.893	VV	156	3825	0.10%	0.018%
45	5.903	5.893	5.935	VV	160	2342	0.06%	0.011%
46	5.946	5.935	5.962	PV	102	1033	0.03%	0.005%
47	5.978	5.962	5.991	VV	122	1263	0.03%	0.006%
48	5.999	5.991	6.014	VV	122	1113	0.03%	0.005%
49	6.024	6.014	6.058	VV	98	2056	0.05%	0.010%
50	6.080	6.058	6.094	VV	269	4013	0.11%	0.019%
51	6.116	6.094	6.243	VV	1062	20426	0.54%	0.096%
52	6.258	6.243	6.273	VV	304	3260	0.09%	0.015%
53	6.286	6.273	6.321	VV	137	3020	0.08%	0.014%
54	6.396	6.321	6.431	VV	753	17061	0.45%	0.081%
55	6.442	6.431	6.481	VV	186	3266	0.09%	0.015%
56	6.491	6.481	6.500	VV	117	694	0.02%	0.003%
57	6.542	6.500	6.589	VV	194	4989	0.13%	0.024%
58	6.614	6.589	6.668	VV	797	10801	0.28%	0.051%
59	6.674	6.668	6.741	VV	144	2715	0.07%	0.013%
60	6.815	6.741	6.849	VV	118	4108	0.11%	0.019%
61	6.940	6.849	6.972	VV	335	7014	0.18%	0.033%
62	6.984	6.972	7.021	VV	154	2903	0.08%	0.014%
63	7.062	7.021	7.071	VV	141	2966	0.08%	0.014%
64	7.083	7.071	7.105	VV	158	1851	0.05%	0.009%
65	7.213	7.124	7.235	VV	219	6747	0.18%	0.032%
66	7.245	7.235	7.268	VV	118	1685	0.04%	0.008%
67	7.336	7.268	7.361	VV	207	6850	0.18%	0.032%
68	7.374	7.361	7.394	VV	137	2699	0.07%	0.013%
69	7.407	7.394	7.445	VV	189	3699	0.10%	0.017%
70	7.469	7.445	7.504	VV	285	4538	0.12%	0.021%
71	7.522	7.504	7.549	VV	169	2334	0.06%	0.011%
72	7.556	7.549	7.569	VV	100	824	0.02%	0.004%
73	7.607	7.569	7.644	PV	136	2950	0.08%	0.014%
74	7.675	7.644	7.714	VV	127	3504	0.09%	0.017%
75	7.721	7.714	7.744	VV	146	1863	0.05%	0.009%
76	7.880	7.863	7.910	VV	589	10324	0.27%	0.049%
77	7.924	7.910	7.944	VV	558	6859	0.18%	0.032%
78	7.952	7.944	7.978	VV	238	3285	0.09%	0.016%
79	7.985	7.978	8.024	VV	138	2789	0.07%	0.013%
80	8.036	8.024	8.048	VV	125	1465	0.04%	0.007%
81	8.060	8.048	8.132	VV	162	4654	0.12%	0.022%
82	8.173	8.132	8.185	VV	134	2978	0.08%	0.014%
83	8.211	8.185	8.221	VV	258	3929	0.10%	0.019%
84	8.231	8.221	8.268	VV	294	6553	0.17%	0.031%
85	8.306	8.268	8.322	VV	463	10404	0.27%	0.049%
86	8.339	8.322	8.424	VV	702	11458	0.30%	0.054%
87	8.465	8.424	8.525	VV	228	4720	0.12%	0.022%
88	8.531	8.525	8.539	VV	77	525	0.01%	0.002%
89	8.568	8.539	8.611	VV	175	3676	0.10%	0.017%

					rteres			
90	8.811	8.791	8.829	VV	400	5857	0.15%	0.028%
91	8.839	8.829	8.861	VV	292	3713	0.10%	0.018%
92	8.868	8.861	8.878	VV	176	1490	0.04%	0.007%
93	8.882	8.878	8.924	VV	182	2855	0.07%	0.013%
94	8.963	8.924	8.997	VV	217	5133	0.13%	0.024%
95	9.059	8.997	9.109	VV	907	20202	0.53%	0.095%
96	9.164	9.109	9.211	VV	315	7418	0.19%	0.035%
97	9.226	9.211	9.245	VV	141	2049	0.05%	0.010%
98	9.263	9.245	9.281	VV	140	1703	0.04%	0.008%
99	9.291	9.281	9.337	VV	87	2260	0.06%	0.011%
100	9.351	9.337	9.378	VV	119	1888	0.05%	0.009%
101	9.386	9.378	9.401	VV	86	1039	0.03%	0.005%
102	9.407	9.401	9.415	VV	82	540	0.01%	0.003%
103	9.442	9.415	9.511	PV	152	4230	0.11%	0.020%
104	9.545	9.511	9.581	VV	242	4980	0.13%	0.024%
105	9.617	9.581	9.626	VV	176	3099	0.08%	0.015%
106	9.631	9.626	9.648	VV	123	1192	0.03%	0.006%
107	9.658	9.648	9.701	VV	142	2709	0.07%	0.013%
108	9.719	9.701	9.741	VV	138	1995	0.05%	0.009%
109	9.814	9.741	9.923	VV	29455	320082	8.39%	1.512%
110	9.943	9.923	9.964	VV	482	6593	0.17%	0.031%
111	9.977	9.964	10.011	VV	177	3196	0.08%	0.015%
112	10.043	10.011	10.070	VV	204	3988	0.10%	0.019%
113	10.130	10.070	10.141	VV	129	3348	0.09%	0.016%
114	10.158	10.141	10.181	VV	136	1840	0.05%	0.009%
115	10.193	10.181	10.244	VV	96	2690	0.07%	0.013%
116	10.254	10.244	10.261	PV	54	561	0.01%	0.003%
117	10.288	10.261	10.354	VV	6115	69466	1.82%	0.328%
118	10.381	10.354	10.401	VV	285	5850	0.15%	0.028%
119	10.424	10.401	10.509	VV	214	7242	0.19%	0.034%
120	10.548	10.509	10.609	VV	282	8357	0.22%	0.039%
121	10.632	10.609	10.651	VV	259	4254	0.11%	0.020%
122	10.678	10.651	10.715	VV	765	12014	0.31%	0.057%
123	10.783	10.715	10.809	PV	477	10962	0.29%	0.052%
124	10.820	10.809	10.846	VV	139	2002	0.05%	0.009%
125	10.870	10.846	10.891	VV	174	2791	0.07%	0.013%
126	10.903	10.891	10.928	VV	195	2789	0.07%	0.013%
127	10.940	10.928	10.955	VV	248	2409	0.06%	0.011%
128	10.967	10.955	10.986	VV	128	1738	0.05%	0.008%
129	11.021	10.986	11.037	VV	154	2971	0.08%	0.014%
130	11.061	11.037	11.085	VV	138	2334	0.06%	0.011%
131	11.167	11.085	11.188	VV	144	5773	0.15%	0.027%
132	11.192	11.188	11.201	VV	147	708	0.02%	0.003%
133	11.215	11.201	11.241	VV	107	1560	0.04%	0.007%
134	11.251	11.241	11.292	VV	113	1996	0.05%	0.009%
135	11.317	11.292	11.345	VV	785	10466	0.27%	0.049%
136	11.387	11.345	11.415	VV	759	11036	0.29%	0.052%
137	11.435	11.415	11.445	VV	216	2531	0.07%	0.012%
138	11.465	11.445	11.478	VV	279	4242	0.11%	0.020%
139	11.483	11.478	11.527	VV	296	3071	0.08%	0.015%
140	11.548	11.527	11.565	VV	343	3837	0.10%	0.018%
141	11.580	11.565	11.607	VV	227	3121	0.08%	0.015%

					rteres			
142	11.628	11.607	11.644	PV	141	1363	0.04%	0.006%
143	11.655	11.644	11.662	VV	96	712	0.02%	0.003%
144	11.712	11.662	11.761	VV	358258	3815716	100.00%	18.022%
145	11.803	11.761	11.825	VV	608	11024	0.29%	0.052%
146	11.840	11.825	11.853	VV	333	4245	0.11%	0.020%
147	11.873	11.853	11.927	VV	1410	18079	0.47%	0.085%
148	11.940	11.927	11.954	VV	123	1216	0.03%	0.006%
149	11.995	11.954	12.024	PV	139	3313	0.09%	0.016%
150	12.056	12.024	12.095	VV	456	8144	0.21%	0.038%
151	12.105	12.095	12.129	VV	107	1667	0.04%	0.008%
152	12.148	12.129	12.188	PV	230	3896	0.10%	0.018%
153	12.202	12.188	12.212	VV	123	1003	0.03%	0.005%
154	12.305	12.212	12.374	VV	13847	214626	5.62%	1.014%
155	12.389	12.374	12.411	VV	1410	26261	0.69%	0.124%
156	12.419	12.411	12.468	VV	1123	27698	0.73%	0.131%
157	12.496	12.468	12.601	VV	830	43443	1.14%	0.205%
158	12.635	12.601	12.671	VV	740	17741	0.46%	0.084%
159	12.695	12.671	12.718	VV	1630	23341	0.61%	0.110%
160	12.781	12.718	12.807	VV	1753	40313	1.06%	0.190%
161	12.817	12.807	12.883	VV	398	9359	0.25%	0.044%
162	12.910	12.883	12.938	VV	207	4486	0.12%	0.021%
163	13.056	12.938	13.071	VV	518	12761	0.33%	0.060%
164	13.097	13.071	13.114	VV	8531	104635	2.74%	0.494%
165	13.145	13.114	13.178	VV	295168	3484396	91.32%	16.457%
166	13.189	13.178	13.213	VV	385	5712	0.15%	0.027%
167	13.231	13.213	13.248	VV	364	5044	0.13%	0.024%
168	13.261	13.248	13.283	VV	359	4291	0.11%	0.020%
169	13.308	13.283	13.334	VV	830	12822	0.34%	0.061%
170	13.357	13.334	13.375	VV	385	6840	0.18%	0.032%
171	13.383	13.375	13.411	VV	387	5162	0.14%	0.024%
172	13.433	13.411	13.455	VV	356	7218	0.19%	0.034%
173	13.484	13.455	13.520	VV	7056	92150	2.42%	0.435%
174	13.541	13.520	13.632	VV	1169	34567	0.91%	0.163%
175	13.650	13.632	13.684	VV	522	14009	0.37%	0.066%
176	13.715	13.684	13.778	VV	15942	208744	5.47%	0.986%
177	13.847	13.778	13.870	VV	3342	59410	1.56%	0.281%
178	13.895	13.870	13.963	VV	3646	66642	1.75%	0.315%
179	14.024	13.963	14.093	VV	2655	70416	1.85%	0.333%
180	14.130	14.093	14.178	VV	811	33262	0.87%	0.157%
181	14.200	14.178	14.236	VV	740	23214	0.61%	0.110%
182	14.283	14.236	14.313	VV	6727	116690	3.06%	0.551%
183	14.332	14.313	14.361	VV	1618	35022	0.92%	0.165%
184	14.393	14.361	14.415	VV	1165	32571	0.85%	0.154%
185	14.458	14.415	14.495	VV	4928	93393	2.45%	0.441%
186	14.561	14.495	14.598	VV	3498	104510	2.74%	0.494%
187	14.625	14.598	14.651	VV	5257	84290	2.21%	0.398%
188	14.675	14.651	14.698	VV	1402	37240	0.98%	0.176%
189	14.749	14.698	14.789	VV	1691	77939	2.04%	0.368%
190	14.837	14.789	14.873	VV	14778	241807	6.34%	1.142%
191	14.914	14.873	14.925	VV	1832	51500	1.35%	0.243%
192	14.958	14.925	14.975	VV	3159	69570	1.82%	0.329%
193	14.999	14.975	15.026	VV	9448	149541	3.92%	0.706%
194	15.046	15.026	15.075	VV	2487	62438	1.64%	0.295%

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195	15.099	15.075	15.116	VV	1951	46380	1.22%	0.219%
196	15.140	15.116	15.176	VV	2550	74522	1.95%	0.352%
197	15.199	15.176	15.218	VV	2092	49340	1.29%	0.233%
198	15.262	15.218	15.286	VV	2190	83502	2.19%	0.394%
199	15.376	15.286	15.468	VV	21261	497012	13.03%	2.347%
200	15.520	15.468	15.561	VV	9731	240742	6.31%	1.137%
201	15.572	15.561	15.587	VV	2681	40122	1.05%	0.189%
202	15.602	15.587	15.633	VV	2800	69393	1.82%	0.328%
203	15.653	15.633	15.691	VV	2421	77899	2.04%	0.368%
204	15.702	15.691	15.722	VV	2320	41609	1.09%	0.197%
205	15.732	15.722	15.751	VV	2218	37641	0.99%	0.178%
206	15.786	15.751	15.801	VV	2389	67553	1.77%	0.319%
207	15.840	15.801	15.871	VV	2846	104164	2.73%	0.492%
208	15.889	15.871	15.958	VV	2677	122356	3.21%	0.578%
209	16.022	15.958	16.056	VV	13257	271302	7.11%	1.281%
210	16.078	16.056	16.107	VV	2388	66534	1.74%	0.314%
211	16.119	16.107	16.145	VV	2094	45995	1.21%	0.217%
212	16.175	16.145	16.211	VV	2136	81583	2.14%	0.385%
213	16.244	16.211	16.284	VV	2042	86546	2.27%	0.409%
214	16.335	16.284	16.362	VV	2348	98095	2.57%	0.463%
215	16.392	16.362	16.441	VV	3958	120890	3.17%	0.571%
216	16.505	16.441	16.541	VV	11598	240147	6.29%	1.134%
217	16.588	16.563	16.611	VV	1933	50490	1.32%	0.238%
218	16.635	16.611	16.658	VV	1655	44094	1.16%	0.208%
219	16.670	16.658	16.688	VV	1599	28002	0.73%	0.132%
220	16.722	16.688	16.737	VV	1564	44961	1.18%	0.212%
221	16.758	16.737	16.783	VV	1698	42286	1.11%	0.200%
222	16.805	16.783	16.832	VV	1692	46040	1.21%	0.217%
223	16.859	16.832	16.914	VV	1517	66890	1.75%	0.316%
224	16.973	16.914	17.003	VV	13995	224940	5.90%	1.062%
225	17.020	17.003	17.088	VV	1281	52833	1.38%	0.250%
226	17.102	17.088	17.168	VV	875	36207	0.95%	0.171%
227	17.179	17.168	17.194	VV	800	12051	0.32%	0.057%
228	17.262	17.194	17.284	VV	1147	44762	1.17%	0.211%
229	17.337	17.284	17.388	VV	1438	55817	1.46%	0.264%
230	17.423	17.388	17.465	VV	12105	181649	4.76%	0.858%
231	17.506	17.490	17.534	VV	620	12753	0.33%	0.060%
232	17.557	17.534	17.612	VV	523	18008	0.47%	0.085%
233	17.640	17.612	17.668	VV	380	9641	0.25%	0.046%
234	17.703	17.668	17.730	VV	1104	20041	0.53%	0.095%
235	17.752	17.730	17.775	VV	542	8963	0.23%	0.042%
236	17.814	17.775	17.835	VV	945	18515	0.49%	0.087%
237	17.860	17.835	17.893	VV	12281	165583	4.34%	0.782%
238	17.952	17.893	18.008	PV	1167	39084	1.02%	0.185%
239	18.021	18.008	18.070	VV	866	19062	0.50%	0.090%
240	18.133	18.070	18.158	VV	1099	29566	0.77%	0.140%
241	18.216	18.158	18.256	VV	7316	147408	3.86%	0.696%
242	18.283	18.256	18.331	VV	11083	165494	4.34%	0.782%
243	18.384	18.331	18.404	VV	539	12481	0.33%	0.059%
244	18.421	18.404	18.441	VV	441	7894	0.21%	0.037%
245	18.453	18.441	18.465	VV	334	3766	0.10%	0.018%
246	18.499	18.465	18.514	VV	466	10181	0.27%	0.048%

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247	18.548	18.514	18.571	VV	1429	28598	0.75%	0.135%
248	18.594	18.571	18.621	VV	911	17048	0.45%	0.081%
249	18.693	18.621	18.761	VV	9327	172600	4.52%	0.815%
250	18.815	18.761	18.855	VV	1542	55692	1.46%	0.263%
251	18.865	18.855	18.891	VV	1006	19375	0.51%	0.092%
252	18.903	18.891	18.918	VV	751	11080	0.29%	0.052%
253	18.950	18.918	18.974	VV	1331	35003	0.92%	0.165%
254	18.995	18.974	19.014	VV	1454	27469	0.72%	0.130%
255	19.050	19.014	19.073	VV	9247	166850	4.37%	0.788%
256	19.094	19.073	19.155	VV	8434	183751	4.82%	0.868%
257	19.186	19.155	19.201	VV	1369	33946	0.89%	0.160%
258	19.235	19.201	19.308	VV	3197	119087	3.12%	0.562%
259	19.338	19.308	19.367	VV	2483	66422	1.74%	0.314%
260	19.387	19.367	19.434	VV	1915	62184	1.63%	0.294%
261	19.478	19.434	19.506	VV	6538	135128	3.54%	0.638%
262	19.551	19.506	19.561	VV	1990	59941	1.57%	0.283%
263	19.583	19.561	19.604	VV	2209	52538	1.38%	0.248%
264	19.659	19.604	19.689	VV	2585	109748	2.88%	0.518%
265	19.724	19.689	19.744	VV	2433	71217	1.87%	0.336%
266	19.766	19.744	19.800	VV	2645	77452	2.03%	0.366%
267	19.854	19.800	19.885	VV	6000	172546	4.52%	0.815%
268	19.913	19.885	19.934	VV	2585	71287	1.87%	0.337%
269	20.005	19.934	20.025	VV	3111	146176	3.83%	0.690%
270	20.037	20.025	20.058	VV	2973	57370	1.50%	0.271%
271	20.080	20.058	20.112	VV	3446	103740	2.72%	0.490%
272	20.132	20.112	20.165	VV	3244	96845	2.54%	0.457%
273	20.221	20.165	20.250	VV	6120	199348	5.22%	0.942%
274	20.287	20.250	20.307	VV	3603	116110	3.04%	0.548%
275	20.384	20.307	20.421	VV	4057	256765	6.73%	1.213%
276	20.462	20.421	20.478	VV	3868	127200	3.33%	0.601%
277	20.492	20.478	20.526	VV	3854	109324	2.87%	0.516%
278	20.586	20.526	20.627	VV	5115	249400	6.54%	1.178%
279	20.766	20.627	20.831	VV	4062	470683	12.34%	2.223%
280	20.837	20.831	20.858	VV	3716	58517	1.53%	0.276%
281	20.889	20.858	20.928	VV	3671	152043	3.98%	0.718%
282	20.937	20.928	20.945	VV	3506	36695	0.96%	0.173%
283	20.993	20.945	21.041	VV	4615	221083	5.79%	1.044%
284	21.050	21.041	21.069	VV	3526	57361	1.50%	0.271%
285	21.151	21.069	21.163	VV	3524	195295	5.12%	0.922%
286	21.194	21.163	21.233	VV	3449	141833	3.72%	0.670%
287	21.248	21.233	21.258	VV	3336	49669	1.30%	0.235%
288	21.265	21.258	21.273	VV	3306	29516	0.77%	0.139%
289	21.282	21.273	21.312	VV	3250	75867	1.99%	0.358%
290	21.319	21.312	21.338	VV	3267	51100	1.34%	0.241%
291	21.348	21.338	21.405	VV	3294	126789	3.32%	0.599%
292	21.448	21.405	21.501	VV	3625	190609	5.00%	0.900%
293	21.510	21.501	21.522	VV	3157	39068	1.02%	0.185%
294	21.530	21.522	21.558	VV	3110	64956	1.70%	0.307%
295	21.569	21.558	21.578	VV	3056	36346	0.95%	0.172%
296	21.595	21.578	21.686	VV	3150	197158	5.17%	0.931%
297	21.692	21.686	21.759	VV	3060	131513	3.45%	0.621%
298	21.763	21.759	21.824	VV	2972	111780	2.93%	0.528%
299	21.837	21.824	21.878	VV	2868	92003	2.41%	0.435%

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300	21.887	21.878	21.915	VV	2800	60838	1.59%	0.287%
301	21.969	21.915	22.025	VV	3312	195588	5.13%	0.924%
302	22.033	22.025	22.096	VV	2863	118590	3.11%	0.560%
303	22.106	22.096	22.110	VV	2776	23277	0.61%	0.110%
304	22.127	22.110	22.201	VBA	2869	156577	4.10%	0.740%
					Sum of corrected areas:	21172997		

Aliphatic EPH 040925.M Tue May 06 04:13:40 2025

Report of Analysis

Client:	G Environmental	Date Collected:	05/01/25
Project:	Amsterdam	Date Received:	05/01/25
Client Sample ID:	GB2	SDG No.:	Q1939
Lab Sample ID:	Q1939-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
05/02/25 09:15	05/02/25 19:24	PB167833

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	3.28		1	1.51	2.56	mg/kg	FE053630.D
Aliphatic C9-C28	Aliphatic C9-C28	88.5		1	1.16	5.12	mg/kg	FE053630.D
Total AliphaticEPH	Total AliphaticEPH	91.8			2.67	7.68	mg/kg	
Total EPH	Total EPH	91.8			2.67	7.68	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:	05/01/25
Project:	Amsterdam	Date Received:	05/01/25
Client Sample ID:	GB2	SDG No.:	Q1939
Lab Sample ID:	Q1939-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78
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
FE053630.D	1	05/02/25	05/02/25	PB167833

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	88.5		1.16	5.12	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.28		1.51	2.56	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.3		40 - 140	45%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	21.5		40 - 140	43%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1939-03	Acq On:	02 May 2025 19:24
Client Sample ID:	GB2	Operator:	YP\AJ
Data file:	FE053630.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.114	6.755	10468117	75.548	300	ug/ml
Aliphatic C12-C16	6.756	10.204	77015519	543.104	200	ug/ml
Aliphatic C16-C21	10.205	13.579	56743374	390.354	300	ug/ml
Aliphatic C21-C28	13.580	17.248	4064777	28.59	400	ug/ml
Aliphatic C28-C40	17.249	22.135	4960118	38.436	600	ug/ml
Aliphatic EPH	3.114	22.135	153251905	1080		ug/ml
ortho-Terphenyl (SURR)	11.865	11.865	3877342	21.5		ug/ml
1-chlorooctadecane (SURR)	13.311	13.311	3020419	22.34		ug/ml
Aliphatic C9-C28	3.114	17.248	148291787	1040	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050225AL\
 Data File : FE053630.D
 Signal(s) : FID1B.ch
 Acq On : 02 May 2025 19:24
 Operator : YP\AJ
 Sample : Q1939-03
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 GB2

Integration File: autoint1.e
 Quant Time: May 03 00:28:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 29 06:49:03 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.865	3877342	21.498 ug/ml
Spiked Amount 50.000		Recovery =	43.00%
12) S 1-chlorooctadecane (S...	13.311	3020419	22.344 ug/ml
Spiked Amount 50.000		Recovery =	44.69%

Target Compounds

(f)=RT Delta > 1/2 Window

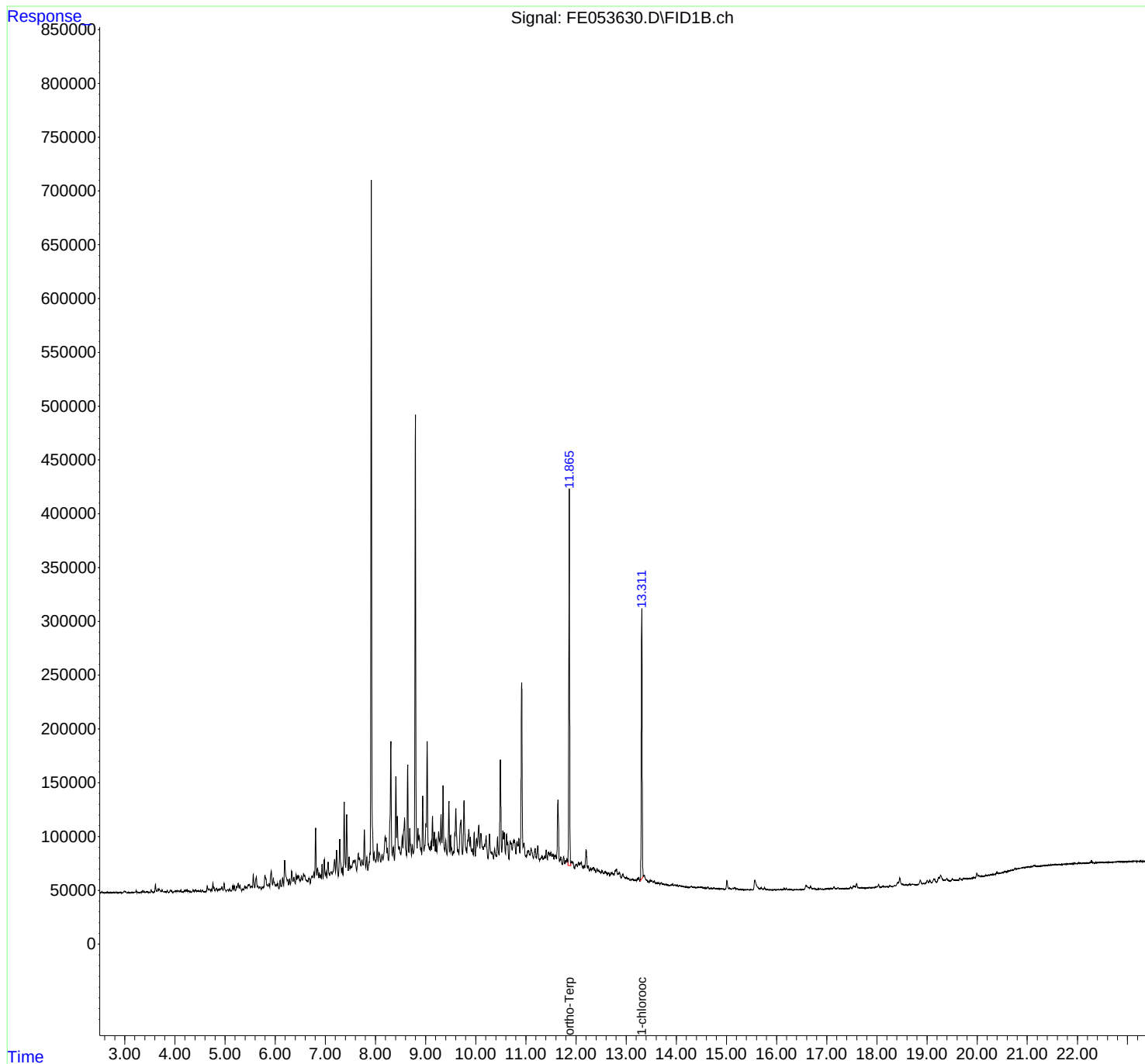
(m)=manual int.

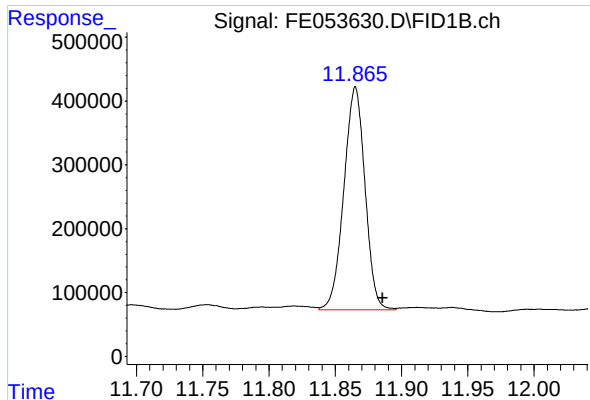
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050225AL\
Data File : FE053630.D
Signal(s) : FID1B.ch
Acq On : 02 May 2025 19:24
Operator : YP\AJ
Sample : Q1939-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
GB2

Integration File: autoint1.e
Quant Time: May 03 00:28:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 29 06:49:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

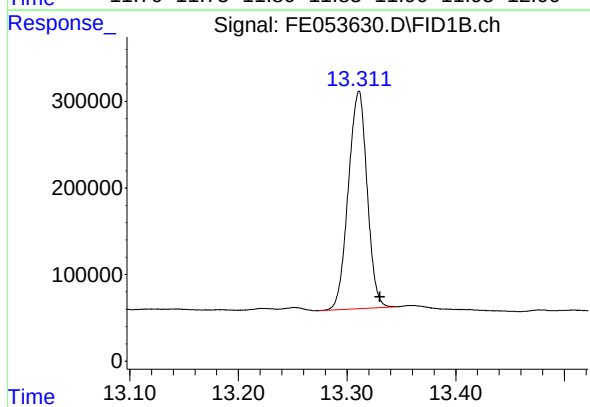




#9 ortho-Terphenyl (SURR)

R.T.: 11.865 min
Delta R.T.: -0.021 min
Response: 3877342
Conc: 21.50 ug/ml

Instrument :
FID_E
ClientSampleId :
GB2



#12 1-chlorooctadecane (SURR)

R.T.: 13.311 min
Delta R.T.: -0.020 min
Response: 3020419
Conc: 22.34 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050225AL\
 Data File : FE053630.D
 Signal(s) : FID1B.ch
 Acq On : 02 May 2025 19:24
 Sample : Q1939-03
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.825	2.804	2.861	PV	646	9863	0.21%	0.006%
2	2.901	2.861	2.944	PV	566	9300	0.20%	0.006%
3	2.990	2.944	3.005	PV	1770	24973	0.53%	0.015%
4	3.017	3.005	3.042	VV	1094	13844	0.29%	0.009%
5	3.079	3.042	3.100	VV	278	4831	0.10%	0.003%
6	3.135	3.100	3.154	PV	481	6682	0.14%	0.004%
7	3.171	3.154	3.183	VV	392	4710	0.10%	0.003%
8	3.227	3.183	3.246	VV	1819	28943	0.62%	0.018%
9	3.256	3.246	3.303	VV	583	9181	0.20%	0.006%
10	3.354	3.303	3.371	PV	2228	32225	0.69%	0.020%
11	3.384	3.371	3.404	VV	1037	13451	0.29%	0.008%
12	3.429	3.404	3.444	VV	878	14803	0.31%	0.009%
13	3.455	3.444	3.481	VV	891	12332	0.26%	0.008%
14	3.494	3.481	3.508	VV	529	5855	0.12%	0.004%
15	3.526	3.508	3.570	VV	2917	43798	0.93%	0.027%
16	3.611	3.570	3.644	VV	7846	109966	2.34%	0.068%
17	3.662	3.644	3.673	VV	3412	42781	0.91%	0.026%
18	3.685	3.673	3.728	VV	3493	75692	1.61%	0.047%
19	3.745	3.728	3.776	VV	2344	41351	0.88%	0.026%
20	3.793	3.776	3.828	VV	1153	25229	0.54%	0.016%
21	3.847	3.828	3.872	VV	2150	26380	0.56%	0.016%
22	3.909	3.872	3.960	VV	2081	55924	1.19%	0.035%
23	4.009	3.960	4.023	VV	2049	37995	0.81%	0.024%
24	4.044	4.023	4.060	VV	1788	31357	0.67%	0.019%
25	4.076	4.060	4.096	VV	1749	31046	0.66%	0.019%
26	4.115	4.096	4.141	VV	1845	34451	0.73%	0.021%
27	4.211	4.141	4.224	VV	2281	60970	1.30%	0.038%
28	4.241	4.224	4.261	VV	2832	42016	0.89%	0.026%
29	4.278	4.261	4.298	VV	1436	26383	0.56%	0.016%
30	4.308	4.298	4.327	VV	1010	13269	0.28%	0.008%
31	4.363	4.327	4.392	VV	2285	51594	1.10%	0.032%

					rteres			
32	4.411	4.392	4.436	VV	2856	46965	1.00%	0.029%
33	4.468	4.436	4.492	VV	1332	40384	0.86%	0.025%
34	4.509	4.492	4.525	VV	1787	24753	0.53%	0.015%
35	4.543	4.525	4.568	VV	1860	33462	0.71%	0.021%
36	4.580	4.568	4.592	VV	794	10515	0.22%	0.007%
37	4.646	4.592	4.668	VV	6014	105773	2.25%	0.065%
38	4.683	4.668	4.710	VV	3491	64289	1.37%	0.040%
39	4.725	4.710	4.739	VV	2888	39677	0.84%	0.025%
40	4.758	4.739	4.772	VV	8784	101653	2.16%	0.063%
41	4.780	4.772	4.798	VV	4988	53121	1.13%	0.033%
42	4.833	4.798	4.851	VV	3446	87761	1.87%	0.054%
43	4.871	4.851	4.880	VV	2821	42100	0.90%	0.026%
44	4.891	4.880	4.902	VV	3053	35479	0.75%	0.022%
45	4.938	4.902	4.959	VV	5344	118876	2.53%	0.074%
46	4.982	4.959	5.022	VV	8516	142020	3.02%	0.088%
47	5.055	5.022	5.073	VV	2712	59832	1.27%	0.037%
48	5.090	5.073	5.124	VV	3321	64336	1.37%	0.040%
49	5.153	5.124	5.168	VV	6358	91047	1.94%	0.056%
50	5.185	5.168	5.208	VV	6350	92200	1.96%	0.057%
51	5.232	5.208	5.241	VV	5678	74458	1.58%	0.046%
52	5.260	5.241	5.281	VV	8447	150039	3.19%	0.093%
53	5.296	5.281	5.332	VV	6837	128018	2.72%	0.079%
54	5.355	5.332	5.371	VV	2867	56176	1.20%	0.035%
55	5.393	5.371	5.407	VV	5807	89268	1.90%	0.055%
56	5.418	5.407	5.429	VV	4851	58731	1.25%	0.036%
57	5.462	5.429	5.506	VV	6988	270327	5.75%	0.167%
58	5.525	5.506	5.543	VV	5345	111485	2.37%	0.069%
59	5.563	5.543	5.593	VV	16347	269585	5.74%	0.167%
60	5.623	5.593	5.646	VV	14337	295652	6.29%	0.183%
61	5.657	5.646	5.674	VV	5805	83281	1.77%	0.052%
62	5.692	5.674	5.720	VV	5217	116384	2.48%	0.072%
63	5.743	5.720	5.756	VV	5020	91358	1.94%	0.057%
64	5.796	5.756	5.857	VV	15404	534324	11.37%	0.331%
65	5.878	5.857	5.891	VV	7942	132266	2.81%	0.082%
66	5.922	5.891	5.948	VV	19847	433154	9.22%	0.268%
67	5.964	5.948	6.016	VV	12715	343369	7.31%	0.212%
68	6.028	6.016	6.038	VV	7403	89750	1.91%	0.056%
69	6.051	6.038	6.076	VV	8157	132275	2.81%	0.082%
70	6.099	6.076	6.118	VV	11019	173795	3.70%	0.108%
71	6.149	6.118	6.168	VV	13447	266906	5.68%	0.165%
72	6.190	6.168	6.267	VV	29199	885245	18.84%	0.548%
73	6.285	6.267	6.304	VV	12207	210106	4.47%	0.130%
74	6.331	6.304	6.356	VV	19399	411181	8.75%	0.254%
75	6.373	6.356	6.400	VV	13820	294508	6.27%	0.182%
76	6.418	6.400	6.430	VV	16323	221271	4.71%	0.137%
77	6.442	6.430	6.453	VV	14837	187037	3.98%	0.116%
78	6.465	6.453	6.506	VV	15236	405588	8.63%	0.251%
79	6.523	6.506	6.544	VV	14774	282335	6.01%	0.175%

80	6.568	6.544	6.581	VV	rteres 16802	326023	6.94%	0.202%
81	6.590	6.581	6.654	VV	15615	513327	10.92%	0.318%
82	6.671	6.654	6.701	VV	12640	318074	6.77%	0.197%
83	6.734	6.701	6.750	VV	15066	380194	8.09%	0.235%
84	6.774	6.750	6.785	VV	18300	329355	7.01%	0.204%
85	6.807	6.785	6.829	VV	59615	869338	18.50%	0.538%
86	6.845	6.829	6.868	VV	22077	427356	9.09%	0.264%
87	6.881	6.868	6.895	VV	17804	252472	5.37%	0.156%
88	6.906	6.895	6.919	VV	15555	212340	4.52%	0.131%
89	6.936	6.919	6.956	VV	25724	404975	8.62%	0.251%
90	6.979	6.956	7.003	VV	30180	573832	12.21%	0.355%
91	7.016	7.003	7.030	VV	18594	263093	5.60%	0.163%
92	7.056	7.030	7.086	VV	27800	675362	14.37%	0.418%
93	7.116	7.086	7.135	VV	18917	519457	11.05%	0.321%
94	7.186	7.135	7.205	VV	30372	931251	19.81%	0.576%
95	7.226	7.205	7.260	VV	38912	841699	17.91%	0.521%
96	7.288	7.260	7.326	VV	48916	1123685	23.91%	0.695%
97	7.337	7.326	7.352	VV	22099	306637	6.52%	0.190%
98	7.377	7.352	7.407	VV	83490	1377380	29.31%	0.852%
99	7.426	7.407	7.458	VV	71134	1244564	26.48%	0.770%
100	7.476	7.458	7.493	VV	32462	539787	11.49%	0.334%
101	7.504	7.493	7.516	VV	23890	318684	6.78%	0.197%
102	7.558	7.516	7.570	VV	29097	840084	17.88%	0.520%
103	7.595	7.570	7.625	VV	29628	867374	18.46%	0.537%
104	7.657	7.625	7.673	VV	35590	812629	17.29%	0.503%
105	7.685	7.673	7.710	VV	31320	631437	13.44%	0.391%
106	7.731	7.710	7.754	VV	29688	711215	15.13%	0.440%
107	7.780	7.754	7.808	VV	57612	1178240	25.07%	0.729%
108	7.828	7.808	7.849	VV	32315	650586	13.84%	0.403%
109	7.975	7.962	8.006	VV	36359	814389	17.33%	0.504%
110	8.036	8.006	8.054	VV	44730	982584	20.91%	0.608%
111	8.072	8.054	8.106	VV	36786	1017626	21.65%	0.630%
112	8.132	8.106	8.150	VV	34493	835105	17.77%	0.517%
113	8.193	8.150	8.204	VV	51241	1298644	27.63%	0.804%
114	8.213	8.204	8.260	VV	50260	1333506	28.37%	0.825%
115	8.307	8.260	8.337	VV	138781	2984995	63.51%	1.847%
116	8.358	8.337	8.379	VV	41412	921179	19.60%	0.570%
117	8.409	8.379	8.425	VV	106863	1754338	37.33%	1.086%
118	8.437	8.425	8.507	VV	69939	2238720	47.63%	1.385%
119	8.536	8.507	8.549	VV	51243	1078692	22.95%	0.668%
120	8.582	8.549	8.620	VV	68127	2137073	45.47%	1.322%
121	8.643	8.620	8.667	VV	117918	1876656	39.93%	1.161%
122	8.686	8.667	8.720	VV	58629	1392541	29.63%	0.862%
123	8.736	8.720	8.756	VV	43814	837955	17.83%	0.519%
124	8.848	8.832	8.861	VV	58699	883634	18.80%	0.547%
125	8.873	8.861	8.902	VV	51593	1143084	24.32%	0.707%
126	8.910	8.902	8.923	VV	40670	498988	10.62%	0.309%

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127	8.944	8.923	8.969	VV	88625	1568238	33.37%	0.970%
128	9.032	8.969	9.094	VV	139068	4397364	93.57%	2.721%
129	9.109	9.094	9.120	VV	46284	671166	14.28%	0.415%
130	9.138	9.120	9.158	VV	69628	1211689	25.78%	0.750%
131	9.176	9.158	9.194	VV	55480	1021226	21.73%	0.632%
132	9.209	9.194	9.224	VV	48272	770695	16.40%	0.477%
133	9.262	9.224	9.291	VV	55505	1875009	39.90%	1.160%
134	9.308	9.291	9.326	VV	71216	1188542	25.29%	0.735%
135	9.350	9.326	9.385	VV	97453	2037647	43.36%	1.261%
136	9.403	9.385	9.428	VV	48041	1063464	22.63%	0.658%
137	9.466	9.428	9.485	VV	83765	1765571	37.57%	1.093%
138	9.499	9.485	9.538	VV	51893	1292145	27.49%	0.800%
139	9.555	9.538	9.564	VV	36638	558235	11.88%	0.345%
140	9.604	9.564	9.639	VV	76787	2395557	50.97%	1.482%
141	9.647	9.639	9.663	VV	38853	541261	11.52%	0.335%
142	9.705	9.663	9.737	VV	66306	2220742	47.25%	1.374%
143	9.768	9.737	9.822	VV	84208	2603445	55.40%	1.611%
144	9.862	9.822	9.882	VV	57538	1715579	36.50%	1.062%
145	9.894	9.882	9.921	VV	50586	1022406	21.75%	0.633%
146	9.933	9.921	9.951	VV	39592	671629	14.29%	0.416%
147	9.969	9.951	9.992	VV	54276	1055585	22.46%	0.653%
148	10.017	9.992	10.034	VV	48953	1080183	22.98%	0.668%
149	10.060	10.034	10.083	VV	61268	1506775	32.06%	0.932%
150	10.103	10.083	10.151	VV	53925	1848825	39.34%	1.144%
151	10.207	10.151	10.244	VV	51562	2342753	49.85%	1.450%
152	10.276	10.244	10.304	VV	53199	1464912	31.17%	0.907%
153	10.313	10.304	10.356	VV	36873	1061593	22.59%	0.657%
154	10.379	10.356	10.408	VV	39326	1080946	23.00%	0.669%
155	10.435	10.408	10.463	VV	49947	1295665	27.57%	0.802%
156	10.492	10.463	10.520	VV	122629	2388069	50.81%	1.478%
157	10.544	10.520	10.557	VV	56015	1057163	22.49%	0.654%
158	10.569	10.557	10.594	VV	54389	1028668	21.89%	0.637%
159	10.614	10.594	10.663	VV	52694	1724399	36.69%	1.067%
160	10.689	10.663	10.728	VV	46788	1588432	33.80%	0.983%
161	10.772	10.728	10.802	VV	47031	1905636	40.55%	1.179%
162	10.824	10.802	10.841	VV	45878	985695	20.97%	0.610%
163	10.861	10.841	10.881	VV	49020	1020085	21.71%	0.631%
164	10.917	10.881	10.946	VV	194164	3673573	78.17%	2.273%
165	10.963	10.946	11.011	VV	44600	1469919	31.28%	0.910%
166	11.046	11.011	11.082	VV	37380	1494013	31.79%	0.925%
167	11.102	11.082	11.151	VV	39770	1481850	31.53%	0.917%
168	11.184	11.151	11.211	VV	39525	1259141	26.79%	0.779%
169	11.238	11.211	11.278	VV	42014	1347278	28.67%	0.834%
170	11.319	11.278	11.341	VV	32836	1173149	24.96%	0.726%
171	11.375	11.341	11.386	VV	32470	838872	17.85%	0.519%
172	11.407	11.386	11.430	VV	38039	881013	18.75%	0.545%
173	11.450	11.430	11.479	VV	35802	987038	21.00%	0.611%
174	11.497	11.479	11.527	VV	35405	976770	20.78%	0.604%

175	11.544	11.527	11.559	VV	rteres 34183	638920	13.59%	0.395%
176	11.574	11.559	11.586	VV	32785	511342	10.88%	0.316%
177	11.592	11.586	11.609	VV	32642	442240	9.41%	0.274%
178	11.641	11.609	11.672	VV	84797	1910811	40.66%	1.182%
179	11.696	11.672	11.731	VV	31294	988517	21.03%	0.612%
180	11.753	11.731	11.776	VV	31644	762159	16.22%	0.472%
181	11.795	11.776	11.808	VV	27935	513941	10.94%	0.318%
182	11.819	11.808	11.838	VV	29432	512256	10.90%	0.317%
183	11.865	11.838	11.896	VV	370593	4699756	100.00%	2.908%
184	11.911	11.896	11.927	VV	27197	498404	10.60%	0.308%
185	11.937	11.927	11.974	VV	27321	686632	14.61%	0.425%
186	12.003	11.974	12.027	VV	24495	742291	15.79%	0.459%
187	12.051	12.027	12.069	VV	26434	623046	13.26%	0.386%
188	12.105	12.069	12.138	VV	26518	1001455	21.31%	0.620%
189	12.160	12.138	12.175	VV	23632	495518	10.54%	0.307%
190	12.203	12.175	12.230	VV	37894	948127	20.17%	0.587%
191	12.244	12.230	12.271	VV	23024	519860	11.06%	0.322%
192	12.294	12.271	12.315	VV	20761	528534	11.25%	0.327%
193	12.350	12.315	12.397	VV	21719	977642	20.80%	0.605%
194	12.419	12.397	12.435	VV	20481	435940	9.28%	0.270%
195	12.451	12.435	12.500	VV	19047	695991	14.81%	0.431%
196	12.523	12.500	12.552	VV	18573	543016	11.55%	0.336%
197	12.583	12.552	12.624	VV	17893	718686	15.29%	0.445%
198	12.653	12.624	12.681	VV	16709	527238	11.22%	0.326%
199	12.703	12.681	12.758	VV	16965	727113	15.47%	0.450%
200	12.785	12.758	12.793	VV	18741	362423	7.71%	0.224%
201	12.807	12.793	12.832	VV	19943	418721	8.91%	0.259%
202	12.865	12.832	12.903	VV	17045	633146	13.47%	0.392%
203	12.929	12.903	12.992	VV	15163	698273	14.86%	0.432%
204	13.009	12.992	13.034	VV	12406	297851	6.34%	0.184%
205	13.046	13.034	13.073	VV	11177	247590	5.27%	0.153%
206	13.092	13.073	13.104	VV	10136	181403	3.86%	0.112%
207	13.122	13.104	13.134	VV	10356	187467	3.99%	0.116%
208	13.143	13.134	13.168	VV	10460	199602	4.25%	0.124%
209	13.182	13.168	13.201	VV	9603	187980	4.00%	0.116%
210	13.224	13.201	13.236	VV	11176	218176	4.64%	0.135%
211	13.252	13.236	13.274	VV	12199	238590	5.08%	0.148%
212	13.311	13.274	13.345	VV	262864	3479404	74.03%	2.153%
213	13.359	13.345	13.458	VV	14463	712661	15.16%	0.441%
214	13.478	13.458	13.491	VV	9410	164534	3.50%	0.102%
215	13.508	13.491	13.537	VV	9112	237523	5.05%	0.147%
216	13.557	13.537	13.599	VV	8693	281123	5.98%	0.174%
217	13.619	13.599	13.633	VV	7207	134643	2.86%	0.083%
218	13.646	13.633	13.675	VV	6991	164938	3.51%	0.102%
219	13.700	13.675	13.771	VV	7220	355127	7.56%	0.220%
220	13.784	13.771	13.872	VV	5502	311292	6.62%	0.193%
221	13.923	13.872	13.953	VV	5627	241435	5.14%	0.149%

					rteres			
222	13.972	13.953	14.003	VV	5127	142938	3.04%	0.088%
223	14.016	14.003	14.041	VV	4656	99975	2.13%	0.062%
224	14.064	14.041	14.132	VV	4516	216943	4.62%	0.134%
225	14.141	14.132	14.171	VV	3633	80924	1.72%	0.050%
226	14.182	14.171	14.253	VV	3378	150820	3.21%	0.093%
227	14.297	14.253	14.335	VV	3569	149698	3.19%	0.093%
228	14.354	14.335	14.415	VV	2819	124921	2.66%	0.077%
229	14.435	14.415	14.458	VV	2976	69441	1.48%	0.043%
230	14.500	14.458	14.524	VV	2931	109769	2.34%	0.068%
231	14.537	14.524	14.602	VV	2434	100016	2.13%	0.062%
232	14.628	14.602	14.674	VV	3305	94107	2.00%	0.058%
233	14.687	14.674	14.715	VV	1822	41447	0.88%	0.026%
234	14.759	14.715	14.784	VV	1955	71315	1.52%	0.044%
235	14.796	14.784	14.821	VV	1550	31011	0.66%	0.019%
236	14.839	14.821	14.864	VV	1375	34055	0.72%	0.021%
237	14.878	14.864	14.901	VV	1333	27041	0.58%	0.017%
238	14.917	14.901	14.966	VV	1345	41412	0.88%	0.026%
239	15.008	14.966	15.103	VV	8969	219165	4.66%	0.136%
240	15.126	15.103	15.144	VV	1813	37495	0.80%	0.023%
241	15.168	15.144	15.194	VV	2077	47376	1.01%	0.029%
242	15.216	15.194	15.271	VV	1213	37430	0.80%	0.023%
243	15.281	15.271	15.291	VV	673	6994	0.15%	0.004%
244	15.307	15.291	15.351	VV	601	15628	0.33%	0.010%
245	15.368	15.351	15.381	VV	406	5838	0.12%	0.004%
246	15.419	15.381	15.474	VV	440	19162	0.41%	0.012%
247	15.492	15.474	15.531	VV	401	10516	0.22%	0.007%
248	15.565	15.531	15.669	VV	9320	318252	6.77%	0.197%
249	15.691	15.669	15.729	VV	2265	50670	1.08%	0.031%
250	15.758	15.729	15.794	VV	2034	41053	0.87%	0.025%
251	15.814	15.794	15.858	VV	481	13076	0.28%	0.008%
252	15.885	15.858	15.921	VV	232	6167	0.13%	0.004%
253	15.953	15.921	15.994	VV	310	8858	0.19%	0.005%
254	16.014	15.994	16.060	VV	310	8639	0.18%	0.005%
255	16.090	16.060	16.127	VV	438	15107	0.32%	0.009%
256	16.152	16.127	16.172	VV	1352	20780	0.44%	0.013%
257	16.193	16.172	16.230	VV	1419	21566	0.46%	0.013%
258	16.256	16.230	16.307	VV	565	12022	0.26%	0.007%
259	16.324	16.307	16.344	VV	105	1644	0.03%	0.001%
260	16.397	16.344	16.417	PV	157	5201	0.11%	0.003%
261	16.438	16.417	16.457	VV	142	1868	0.04%	0.001%
262	16.493	16.457	16.524	PV	232	5794	0.12%	0.004%
263	16.531	16.524	16.541	VV	164	1265	0.03%	0.001%
264	16.588	16.541	16.657	VV	3820	143562	3.05%	0.089%
265	16.678	16.657	16.730	VV	2881	66930	1.42%	0.041%
266	16.751	16.730	16.794	VV	1069	22179	0.47%	0.014%
267	16.840	16.794	16.858	VV	274	6374	0.14%	0.004%
268	16.868	16.858	16.884	VV	190	2226	0.05%	0.001%
269	16.901	16.884	16.914	VV	155	2005	0.04%	0.001%

270	16.918	16.914	16.937	VV	120	633	0.01%	0.000%
271	16.969	16.937	16.980	VV	146	1948	0.04%	0.001%
272	17.006	16.980	17.044	VV	432	9767	0.21%	0.006%
273	17.071	17.044	17.095	VV	741	15132	0.32%	0.009%
274	17.109	17.095	17.121	VV	525	7548	0.16%	0.005%
275	17.145	17.121	17.175	VV	1982	33758	0.72%	0.021%
276	17.192	17.175	17.203	VV	491	7144	0.15%	0.004%
277	17.223	17.203	17.254	VV	1320	20737	0.44%	0.013%
278	17.268	17.254	17.290	VV	262	3542	0.08%	0.002%
279	17.307	17.290	17.331	VV	166	2732	0.06%	0.002%
280	17.377	17.331	17.414	VV	296	6214	0.13%	0.004%
281	17.477	17.414	17.500	PV	1384	21332	0.45%	0.013%
282	17.535	17.500	17.571	VV	1910	58359	1.24%	0.036%
283	17.596	17.571	17.658	VV	4534	88701	1.89%	0.055%
284	17.682	17.658	17.734	VV	483	14925	0.32%	0.009%
285	17.751	17.734	17.781	VV	231	4231	0.09%	0.003%
286	17.802	17.781	17.834	VV	299	4429	0.09%	0.003%
287	17.860	17.834	17.897	PV	186	2615	0.06%	0.002%
288	17.918	17.897	17.940	PV	167	2310	0.05%	0.001%
289	17.994	17.940	18.007	PV	749	15305	0.33%	0.009%
290	18.034	18.007	18.067	VV	2889	44665	0.95%	0.028%
291	18.126	18.067	18.151	VV	1120	22725	0.48%	0.014%
292	18.160	18.151	18.191	VV	426	6334	0.13%	0.004%
293	18.207	18.191	18.221	VV	249	2295	0.05%	0.001%
294	18.260	18.221	18.304	PV	829	14794	0.31%	0.009%
295	18.351	18.304	18.374	VV	1128	17436	0.37%	0.011%
296	18.415	18.374	18.424	VV	3318	60996	1.30%	0.038%
297	18.457	18.424	18.553	VV	7344	216434	4.61%	0.134%
298	18.579	18.553	18.618	VV	1079	29585	0.63%	0.018%
299	18.647	18.618	18.672	VV	1327	24347	0.52%	0.015%
300	18.714	18.672	18.801	VV	987	37424	0.80%	0.023%
301	18.867	18.801	18.924	PV	4096	98857	2.10%	0.061%
302	18.934	18.924	18.951	VV	540	7588	0.16%	0.005%
303	19.004	18.951	19.034	VV	3301	76463	1.63%	0.047%
304	19.057	19.034	19.094	VV	3208	61776	1.31%	0.038%
305	19.138	19.094	19.194	VV	3563	116471	2.48%	0.072%
306	19.230	19.194	19.245	VV	4482	84771	1.80%	0.052%
307	19.272	19.245	19.341	VV	6569	222297	4.73%	0.138%
308	19.346	19.341	19.366	VV	1776	23663	0.50%	0.015%
309	19.391	19.366	19.474	VV	2739	76470	1.63%	0.047%
310	19.506	19.474	19.541	VV	1768	40483	0.86%	0.025%
311	19.567	19.541	19.604	VV	576	14182	0.30%	0.009%
312	19.615	19.604	19.621	VV	106	559	0.01%	0.000%
313	19.654	19.621	19.694	PV	1788	31067	0.66%	0.019%
314	19.738	19.694	19.781	VV	875	31578	0.67%	0.020%
315	19.802	19.781	19.821	VV	623	11558	0.25%	0.007%
316	19.934	19.821	19.963	VV	743	34235	0.73%	0.021%

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317	19.995	19.963	20.018	VV	4429	78535	1.67%	0.049%	
318	20.029	20.018	20.101	VV	2105	67065	1.43%	0.042%	
319	20.175	20.101	20.191	VV	1157	47731	1.02%	0.030%	
320	20.271	20.191	20.301	VV	1434	79154	1.68%	0.049%	
321	20.395	20.301	20.448	VV	2756	141701	3.02%	0.088%	
322	20.551	20.448	20.584	VV	2625	166814	3.55%	0.103%	
323	20.754	20.584	20.791	VV	4085	375969	8.00%	0.233%	
324	21.130	20.791	21.202	VV	4725	980896	20.87%	0.607%	
325	21.384	21.202	21.403	VV	3353	412405	8.78%	0.255%	
326	21.489	21.403	21.504	VV	3162	189193	4.03%	0.117%	
327	21.553	21.504	21.612	VV	3130	190951	4.06%	0.118%	
328	21.744	21.612	21.756	VV	2369	213612	4.55%	0.132%	
329	21.896	21.756	21.921	VV	2027	206175	4.39%	0.128%	
330	22.030	21.921	22.088	VV	1755	157442	3.35%	0.097%	
331	22.106	22.088	22.118	VV	1091	18727	0.40%	0.012%	
332	22.209	22.118	22.221	VV	674	48163	1.02%	0.030%	
333	22.281	22.221	22.335	VV	1815	55295	1.18%	0.034%	
					Sum of corrected areas:				161597332

Aliphatic EPH 041725.M Sat May 03 01:47:15 2025

Report of Analysis

Client:	G Environmental	Date Collected:	05/01/25
Project:	Amsterdam	Date Received:	05/01/25
Client Sample ID:	GB3	SDG No.:	Q1939
Lab Sample ID:	Q1939-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/02/25 09:15	05/05/25 11:44	PB167833

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.85	J	1	1.36	2.31	mg/kg	FE053637.D
Aliphatic C9-C28	Aliphatic C9-C28	1.58	J	1	1.05	4.61	mg/kg	FE053637.D
Total AliphaticEPH	Total AliphaticEPH	3.43	J		2.41	6.92	mg/kg	
Total EPH	Total EPH	3.43	J		2.41	6.92	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:	05/01/25
Project:	Amsterdam	Date Received:	05/01/25
Client Sample ID:	GB3	SDG No.:	Q1939
Lab Sample ID:	Q1939-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053637.D	1	05/02/25	05/05/25	PB167833

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.58	J	1.05	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.85	J	1.36	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.7		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.8		40 - 140	64%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1939-05	Acq On:	05 May 2025 11:44
Client Sample ID:	GB3	Operator:	YP\AJ
Data file:	FE053637.D	Misc:	
Instrument:	FID_E	ALS Vial:	6
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.112	6.755	321009	2.317	300	ug/ml
Aliphatic C12-C16	6.756	10.204	505742	3.566	200	ug/ml
Aliphatic C16-C21	10.205	13.579	981435	6.752	300	ug/ml
Aliphatic C21-C28	13.580	17.249	1131049	7.955	400	ug/ml
Aliphatic C28-C40	17.250	22.140	3105193	24.062	600	ug/ml
Aliphatic EPH	3.112	22.140	6044428	44.652		ug/ml
ortho-Terphenyl (SURR)	11.867	11.867	5741828	31.84		ug/ml
1-chlorooctadecane (SURR)	13.312	13.312	5360543	39.66		ug/ml
Aliphatic C9-C28	3.112	17.249	2939235	20.59	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050525AL\
Data File : FE053637.D
Signal(s) : FID1B.ch
Acq On : 05 May 2025 11:44
Operator : YP\AJ
Sample : Q1939-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
GB3

Integration File: sample.E
Quant Time: May 06 04:17:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 29 06:49:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.867	5741828	31.835 ug/ml
Spiked Amount	50.000	Recovery	= 63.67%
12) S 1-chlorooctadecane (S...	13.312	5360543	39.656 ug/ml
Spiked Amount	50.000	Recovery	= 79.31%

Target Compounds

(f)=RT Delta > 1/2 Window

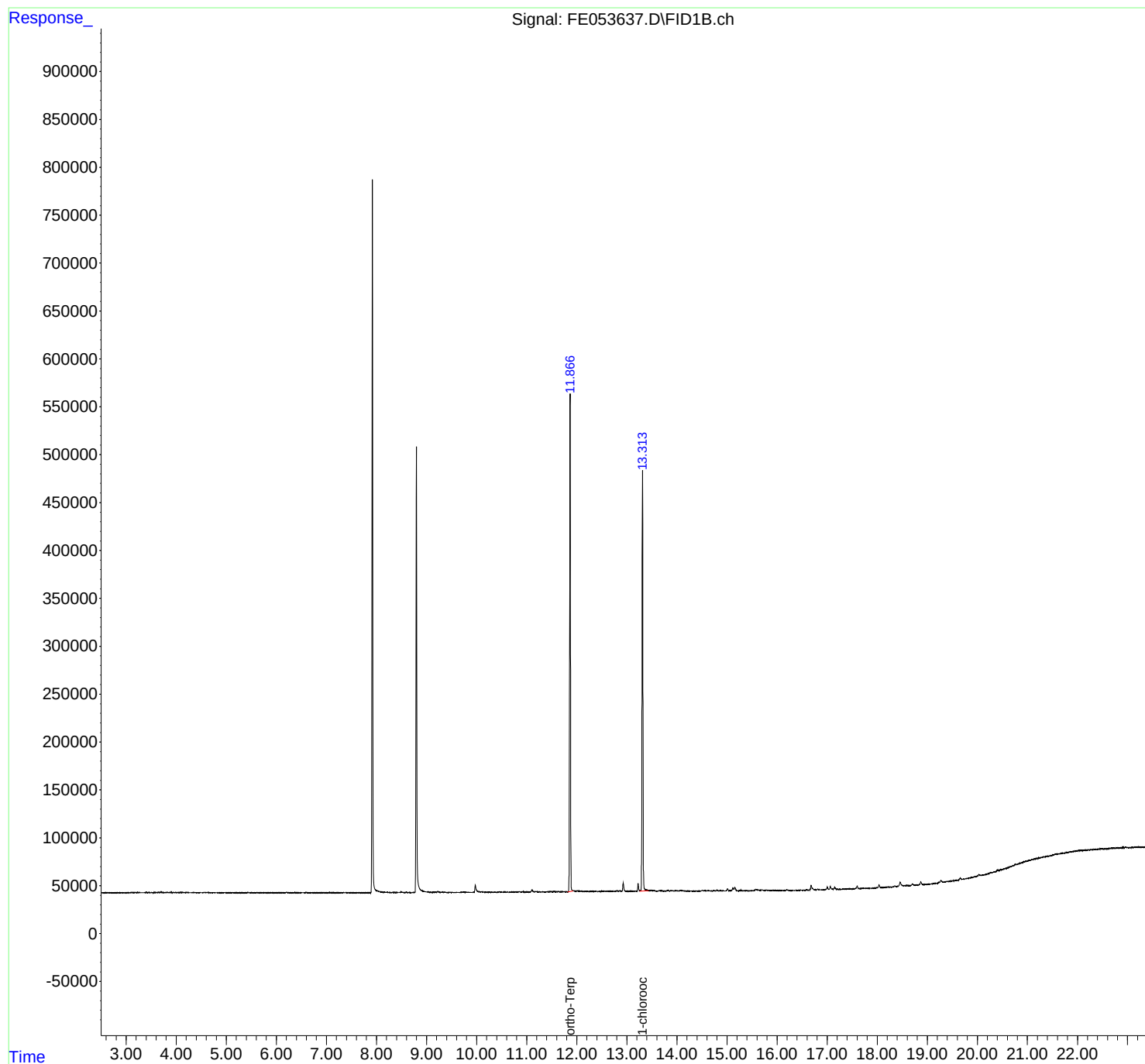
(m)=manual int.

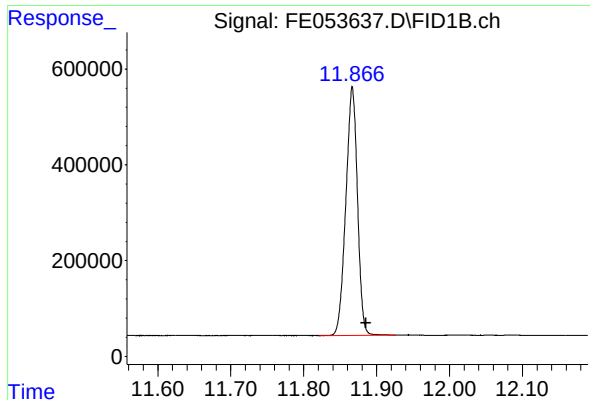
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050525AL\
Data File : FE053637.D
Signal(s) : FID1B.ch
Acq On : 05 May 2025 11:44
Operator : YP\AJ
Sample : Q1939-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
GB3

Integration File: sample.E
Quant Time: May 06 04:17:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 29 06:49:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

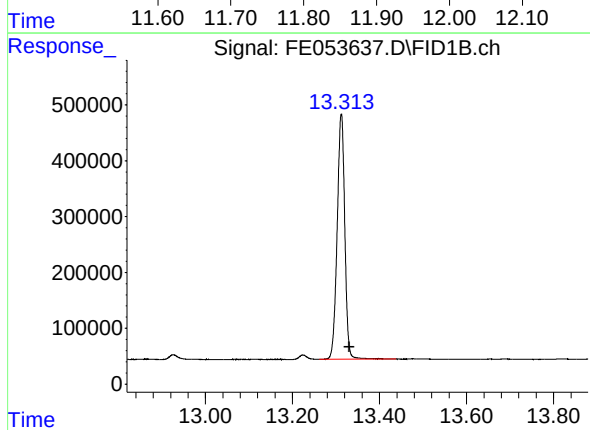




#9 ortho-Terphenyl (SURR)

R.T.: 11.867 min
Delta R.T.: -0.019 min
Response: 5741828
Conc: 31.84 ug/ml

Instrument :
FID_E
ClientSampleId :
GB3



#12 1-chlorooctadecane (SURR)

R.T.: 13.312 min
Delta R.T.: -0.018 min
Response: 5360543
Conc: 39.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050525AL\
 Data File : FE053637.D
 Signal(s) : FID1B.ch
 Acq On : 05 May 2025 11:44
 Sample : Q1939-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.824	2.805	2.835	BV	25	296	0.01%	0.002%
2	2.847	2.835	2.944	VV	84	2786	0.05%	0.016%
3	2.958	2.944	3.015	VV	93	2536	0.04%	0.015%
4	3.055	3.015	3.076	VV	170	3897	0.07%	0.023%
5	3.093	3.076	3.121	VV	166	3488	0.06%	0.020%
6	3.132	3.121	3.169	VV	194	4043	0.07%	0.023%
7	3.211	3.169	3.248	VV	231	6848	0.12%	0.040%
8	3.273	3.248	3.315	VV	172	4522	0.08%	0.026%
9	3.328	3.315	3.351	VV	160	2416	0.04%	0.014%
10	3.368	3.351	3.381	VV	197	2753	0.05%	0.016%
11	3.403	3.381	3.448	VV	576	10453	0.18%	0.060%
12	3.472	3.448	3.504	VV	181	4683	0.08%	0.027%
13	3.515	3.504	3.549	VV	163	4369	0.08%	0.025%
14	3.562	3.549	3.595	VV	261	5411	0.09%	0.031%
15	3.611	3.595	3.644	VV	328	6695	0.12%	0.039%
16	3.663	3.644	3.678	VV	316	4767	0.08%	0.028%
17	3.697	3.678	3.741	VV	1164	18582	0.32%	0.107%
18	3.753	3.741	3.790	VV	244	5496	0.10%	0.032%
19	3.816	3.790	3.868	VV	649	15203	0.26%	0.088%
20	3.899	3.868	3.975	VV	725	17692	0.31%	0.102%
21	3.985	3.975	3.992	VV	240	1851	0.03%	0.011%
22	4.046	3.992	4.072	VV	281	10400	0.18%	0.060%
23	4.106	4.072	4.120	VV	237	6093	0.11%	0.035%
24	4.130	4.120	4.151	VV	268	3645	0.06%	0.021%
25	4.155	4.151	4.167	VV	229	1629	0.03%	0.009%
26	4.197	4.167	4.225	VV	308	7542	0.13%	0.044%
27	4.241	4.225	4.261	VV	250	3970	0.07%	0.023%
28	4.271	4.261	4.302	VV	175	3751	0.06%	0.022%
29	4.323	4.302	4.358	VV	242	5494	0.09%	0.032%
30	4.368	4.358	4.394	VV	204	2895	0.05%	0.017%
31	4.407	4.394	4.428	VV	169	2397	0.04%	0.014%
32	4.436	4.428	4.454	VV	173	2210	0.04%	0.013%
33	4.474	4.454	4.581	VV	427	13020	0.23%	0.075%
34	4.589	4.581	4.635	VV	205	5108	0.09%	0.030%
35	4.647	4.635	4.745	VV	303	10137	0.18%	0.059%
36	4.759	4.745	4.774	VV	153	1913	0.03%	0.011%

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37	4.784	4.774	4.835	VV	173	4094	0.07%	0.024%
38	4.841	4.835	4.888	VV	135	3211	0.06%	0.019%
39	4.898	4.888	4.914	VV	147	1880	0.03%	0.011%
40	4.932	4.914	4.947	VV	177	2416	0.04%	0.014%
41	4.979	4.947	5.018	VV	188	4259	0.07%	0.025%
42	5.032	5.018	5.045	VV	90	1157	0.02%	0.007%
43	5.048	5.045	5.081	VV	127	1199	0.02%	0.007%
44	5.137	5.081	5.165	VV	176	4566	0.08%	0.026%
45	5.180	5.165	5.221	VV	143	2704	0.05%	0.016%
46	5.231	5.221	5.281	VV	101	2021	0.03%	0.012%
47	5.303	5.281	5.326	VV	140	1894	0.03%	0.011%
48	5.350	5.326	5.373	VV	84	1493	0.03%	0.009%
49	5.385	5.373	5.400	VV	138	1104	0.02%	0.006%
50	5.434	5.400	5.520	VV	311	9162	0.16%	0.053%
51	5.538	5.520	5.552	VV	97	1348	0.02%	0.008%
52	5.572	5.552	5.595	VV	108	1906	0.03%	0.011%
53	5.616	5.595	5.650	PV	188	3346	0.06%	0.019%
54	5.665	5.650	5.679	VV	143	1239	0.02%	0.007%
55	5.698	5.679	5.708	VV	130	1529	0.03%	0.009%
56	5.727	5.708	5.851	VV	148	8067	0.14%	0.047%
57	5.859	5.851	5.903	VV	108	2490	0.04%	0.014%
58	5.914	5.903	5.958	VV	87	2137	0.04%	0.012%
59	5.995	5.958	6.011	VV	98	1632	0.03%	0.009%
60	6.022	6.011	6.040	VV	116	1063	0.02%	0.006%
61	6.067	6.040	6.126	VV	129	3313	0.06%	0.019%
62	6.152	6.126	6.167	PV	100	967	0.02%	0.006%
63	6.195	6.167	6.284	VV	624	16285	0.28%	0.094%
64	6.299	6.284	6.329	VV	187	2680	0.05%	0.015%
65	6.364	6.329	6.406	VV	287	6409	0.11%	0.037%
66	6.431	6.406	6.481	VV	136	4140	0.07%	0.024%
67	6.499	6.481	6.575	VV	261	10946	0.19%	0.063%
68	6.590	6.575	6.641	VV	301	7184	0.12%	0.042%
69	6.649	6.641	6.717	VV	226	4942	0.09%	0.029%
70	6.729	6.717	6.751	VV	180	2238	0.04%	0.013%
71	6.775	6.751	6.825	VV	211	6305	0.11%	0.036%
72	6.832	6.825	6.875	VV	112	2984	0.05%	0.017%
73	6.882	6.875	6.921	VV	99	2039	0.04%	0.012%
74	6.939	6.921	6.951	PV	117	1401	0.02%	0.008%
75	6.960	6.951	6.978	VV	150	1454	0.03%	0.008%
76	6.985	6.978	6.998	VV	111	857	0.01%	0.005%
77	7.011	6.998	7.035	VV	133	2032	0.04%	0.012%
78	7.067	7.035	7.101	VV	308	5945	0.10%	0.034%
79	7.105	7.101	7.115	VV	114	716	0.01%	0.004%
80	7.118	7.115	7.148	VV	175	1967	0.03%	0.011%
81	7.158	7.148	7.183	VV	126	1969	0.03%	0.011%
82	7.203	7.183	7.215	VV	182	2405	0.04%	0.014%
83	7.223	7.215	7.235	VV	137	1258	0.02%	0.007%
84	7.244	7.235	7.276	VV	139	2160	0.04%	0.012%
85	7.294	7.276	7.321	VV	215	4308	0.07%	0.025%
86	7.338	7.321	7.361	VV	278	5008	0.09%	0.029%
87	7.376	7.361	7.412	VV	233	4667	0.08%	0.027%
88	7.435	7.412	7.459	VV	213	3705	0.06%	0.021%
89	7.476	7.459	7.528	VV	190	4440	0.08%	0.026%

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90	7.542	7.528	7.581	VV	124	3151	0.05%	0.018%
91	7.614	7.581	7.625	VV	224	4096	0.07%	0.024%
92	7.627	7.625	7.662	VV	169	2450	0.04%	0.014%
93	7.673	7.662	7.711	VV	172	2854	0.05%	0.016%
94	7.722	7.711	7.751	VV	173	2322	0.04%	0.013%
95	7.760	7.751	7.812	VV	143	2268	0.04%	0.013%
96	7.848	7.812	7.861	PV	135	1373	0.02%	0.008%
97	8.209	8.201	8.235	VV	477	8597	0.15%	0.050%
98	8.244	8.235	8.274	VV	408	7410	0.13%	0.043%
99	8.302	8.274	8.351	VV	367	13400	0.23%	0.077%
100	8.410	8.351	8.430	VV	430	14052	0.24%	0.081%
101	8.491	8.430	8.570	VV	1153	39121	0.68%	0.226%
102	8.599	8.570	8.624	VV	464	10481	0.18%	0.061%
103	8.645	8.624	8.668	VV	356	5869	0.10%	0.034%
104	8.673	8.668	8.711	VV	159	2556	0.04%	0.015%
105	9.030	9.016	9.069	VV	781	18851	0.33%	0.109%
106	9.084	9.069	9.098	VV	453	7468	0.13%	0.043%
107	9.102	9.098	9.131	VV	427	7918	0.14%	0.046%
108	9.142	9.131	9.168	VV	471	8224	0.14%	0.048%
109	9.180	9.168	9.191	VV	427	4975	0.09%	0.029%
110	9.226	9.191	9.291	VV	1146	31623	0.55%	0.183%
111	9.320	9.291	9.349	VV	651	14522	0.25%	0.084%
112	9.357	9.349	9.371	VV	299	3617	0.06%	0.021%
113	9.381	9.371	9.435	VV	261	6059	0.10%	0.035%
114	9.468	9.435	9.490	VV	204	4646	0.08%	0.027%
115	9.503	9.490	9.558	VV	226	5290	0.09%	0.031%
116	9.565	9.558	9.581	VV	131	1506	0.03%	0.009%
117	9.607	9.581	9.665	VV	211	5509	0.10%	0.032%
118	9.704	9.665	9.732	VV	436	8697	0.15%	0.050%
119	9.778	9.732	9.861	VV	246	11459	0.20%	0.066%
120	9.879	9.861	9.914	VV	140	2903	0.05%	0.017%
121	9.933	9.914	9.948	VV	228	3040	0.05%	0.018%
122	9.975	9.948	10.075	VV	7736	158644	2.74%	0.917%
123	10.102	10.075	10.191	VV	778	25171	0.44%	0.146%
124	10.208	10.191	10.235	VV	226	4005	0.07%	0.023%
125	10.278	10.235	10.361	VV	239	6749	0.12%	0.039%
126	10.377	10.361	10.385	PV	78	581	0.01%	0.003%
127	10.448	10.385	10.478	PV	539	11599	0.20%	0.067%
128	10.492	10.478	10.526	VV	436	8062	0.14%	0.047%
129	10.552	10.526	10.598	VV	325	11380	0.20%	0.066%
130	10.612	10.598	10.622	VV	224	2611	0.05%	0.015%
131	10.631	10.622	10.665	VV	198	3304	0.06%	0.019%
132	10.692	10.665	10.738	VV	233	7693	0.13%	0.044%
133	10.770	10.738	10.810	VV	411	11794	0.20%	0.068%
134	10.819	10.810	10.828	VV	275	2614	0.05%	0.015%
135	10.846	10.828	10.884	VV	637	13174	0.23%	0.076%
136	10.921	10.884	11.015	VV	564	22515	0.39%	0.130%
137	11.105	11.015	11.160	VV	2555	56737	0.98%	0.328%
138	11.184	11.160	11.212	VV	745	15301	0.26%	0.088%
139	11.221	11.212	11.268	VV	381	10020	0.17%	0.058%
140	11.275	11.268	11.306	VV	244	5233	0.09%	0.030%
141	11.316	11.306	11.345	VV	232	4362	0.08%	0.025%

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142	11.351	11.345	11.385	VV	204	3703	0.06%	0.021%
143	11.410	11.385	11.437	VV	325	7393	0.13%	0.043%
144	11.481	11.437	11.505	VV	599	13881	0.24%	0.080%
145	11.514	11.505	11.527	VV	285	3304	0.06%	0.019%
146	11.550	11.527	11.577	VV	693	12668	0.22%	0.073%
147	11.594	11.577	11.608	VV	244	4056	0.07%	0.023%
148	11.632	11.608	11.685	VV	637	16362	0.28%	0.095%
149	11.705	11.685	11.724	VV	428	7268	0.13%	0.042%
150	11.745	11.724	11.781	VV	444	9835	0.17%	0.057%
151	11.798	11.781	11.821	VV	319	5784	0.10%	0.033%
152	11.867	11.821	11.927	VV	516310	5783801	100.00%	33.437%
153	11.942	11.927	11.987	VV	1409	35915	0.62%	0.208%
154	12.018	11.987	12.041	VV	1221	31471	0.54%	0.182%
155	12.055	12.041	12.069	VV	905	13362	0.23%	0.077%
156	12.087	12.069	12.132	VV	1002	23036	0.40%	0.133%
157	12.160	12.132	12.175	VV	450	8893	0.15%	0.051%
158	12.222	12.175	12.267	VV	751	23737	0.41%	0.137%
159	12.307	12.267	12.353	VV	608	21967	0.38%	0.127%
160	12.384	12.353	12.420	VV	663	17407	0.30%	0.101%
161	12.430	12.420	12.459	VV	419	8109	0.14%	0.047%
162	12.545	12.459	12.565	VV	552	26171	0.45%	0.151%
163	12.574	12.565	12.607	VV	559	11634	0.20%	0.067%
164	12.673	12.607	12.688	VV	638	22941	0.40%	0.133%
165	12.701	12.688	12.751	VV	586	15124	0.26%	0.087%
166	12.808	12.751	12.828	VV	1065	28999	0.50%	0.168%
167	12.864	12.828	12.901	VV	1061	30026	0.52%	0.174%
168	12.926	12.901	13.046	VV	9059	153024	2.65%	0.885%
169	13.068	13.046	13.101	VV	537	13511	0.23%	0.078%
170	13.117	13.101	13.157	VV	668	15203	0.26%	0.088%
171	13.169	13.157	13.197	VV	460	8900	0.15%	0.051%
172	13.224	13.197	13.265	VV	8414	117403	2.03%	0.679%
173	13.312	13.265	13.456	VV	440362	5443070	94.11%	31.467%
174	13.477	13.456	13.536	VV	1551	48966	0.85%	0.283%
175	13.552	13.536	13.603	VV	747	23648	0.41%	0.137%
176	13.654	13.603	13.668	VV	906	25102	0.43%	0.145%
177	13.689	13.668	13.767	VV	963	32601	0.56%	0.188%
178	13.822	13.767	13.858	VV	1209	35544	0.61%	0.205%
179	13.885	13.858	13.911	VV	1148	21489	0.37%	0.124%
180	13.927	13.911	13.948	VV	724	12209	0.21%	0.071%
181	13.968	13.948	13.995	VV	915	18256	0.32%	0.106%
182	14.018	13.995	14.037	VV	808	15665	0.27%	0.091%
183	14.064	14.037	14.085	VV	1124	21793	0.38%	0.126%
184	14.095	14.085	14.118	VV	979	14529	0.25%	0.084%
185	14.139	14.118	14.160	VV	690	12776	0.22%	0.074%
186	14.178	14.160	14.214	VV	371	9456	0.16%	0.055%
187	14.224	14.214	14.245	VV	274	4358	0.08%	0.025%
188	14.279	14.245	14.389	VV	340	17303	0.30%	0.100%
189	14.406	14.389	14.421	VV	164	2448	0.04%	0.014%
190	14.504	14.421	14.550	VV	1115	30621	0.53%	0.177%
191	14.571	14.550	14.603	VV	734	14507	0.25%	0.084%
192	14.629	14.603	14.706	VV	754	21456	0.37%	0.124%
193	14.741	14.706	14.771	VV	658	15905	0.27%	0.092%
194	14.798	14.771	14.838	VV	1460	27508	0.48%	0.159%

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195	14.876	14.838	14.936	VV	674	22857	0.40%	0.132%
196	14.959	14.936	14.970	VV	237	3892	0.07%	0.023%
197	15.010	14.970	15.050	VV	2383	41315	0.71%	0.239%
198	15.070	15.050	15.085	VV	309	5275	0.09%	0.030%
199	15.115	15.085	15.134	VV	3337	52509	0.91%	0.304%
200	15.155	15.134	15.248	VV	3889	90777	1.57%	0.525%
201	15.275	15.248	15.365	VV	746	22240	0.38%	0.129%
202	15.370	15.365	15.404	VV	168	2920	0.05%	0.017%
203	15.431	15.404	15.448	VV	294	5477	0.09%	0.032%
204	15.470	15.448	15.488	VV	358	5694	0.10%	0.033%
205	15.500	15.488	15.534	VV	83	1778	0.03%	0.010%
206	15.572	15.534	15.662	PV	1455	70718	1.22%	0.409%
207	15.694	15.662	15.734	VV	1260	34792	0.60%	0.201%
208	15.746	15.734	15.765	VV	478	8187	0.14%	0.047%
209	15.789	15.765	15.812	VV	958	18049	0.31%	0.104%
210	15.829	15.812	15.863	VV	590	12275	0.21%	0.071%
211	15.874	15.863	15.886	VV	328	3877	0.07%	0.022%
212	15.902	15.886	15.911	VV	293	4034	0.07%	0.023%
213	15.950	15.911	16.006	VV	514	19448	0.34%	0.112%
214	16.021	16.006	16.061	VV	303	6878	0.12%	0.040%
215	16.076	16.061	16.095	VV	230	2781	0.05%	0.016%
216	16.117	16.095	16.141	VV	287	4323	0.07%	0.025%
217	16.193	16.141	16.274	VV	1182	24975	0.43%	0.144%
218	16.295	16.274	16.306	PV	132	1615	0.03%	0.009%
219	16.326	16.306	16.346	VV	155	1879	0.03%	0.011%
220	16.388	16.346	16.410	PV	211	4182	0.07%	0.024%
221	16.428	16.410	16.454	VV	170	2899	0.05%	0.017%
222	16.481	16.454	16.512	VV	203	4832	0.08%	0.028%
223	16.538	16.512	16.557	PV	159	2717	0.05%	0.016%
224	16.589	16.557	16.608	VV	319	4910	0.08%	0.028%
225	16.679	16.608	16.741	VV	5095	111369	1.93%	0.644%
226	16.759	16.741	16.783	VV	452	7187	0.12%	0.042%
227	16.811	16.783	16.858	VV	773	16523	0.29%	0.096%
228	16.873	16.858	16.901	VV	212	3479	0.06%	0.020%
229	17.002	16.901	17.037	VV	2468	44700	0.77%	0.258%
230	17.064	17.037	17.121	VV	2816	55381	0.96%	0.320%
231	17.147	17.121	17.246	VV	2061	50779	0.88%	0.294%
232	17.315	17.246	17.350	PV	210	6625	0.11%	0.038%
233	17.374	17.350	17.395	VV	123	2233	0.04%	0.013%
234	17.446	17.395	17.464	VV	332	8129	0.14%	0.047%
235	17.475	17.464	17.501	VV	206	2589	0.04%	0.015%
236	17.598	17.501	17.638	PV	2856	52047	0.90%	0.301%
237	17.719	17.638	17.755	VV	341	13625	0.24%	0.079%
238	17.778	17.755	17.805	VV	161	2714	0.05%	0.016%
239	17.861	17.805	17.905	VV	151	4941	0.09%	0.029%
240	17.925	17.905	17.958	PV	135	2197	0.04%	0.013%
241	18.037	17.958	18.096	PV	3291	60671	1.05%	0.351%
242	18.174	18.096	18.188	VV	329	8790	0.15%	0.051%
243	18.260	18.188	18.284	VV	186	8122	0.14%	0.047%
244	18.352	18.284	18.378	PV	667	13544	0.23%	0.078%
245	18.460	18.378	18.532	VV	4561	124194	2.15%	0.718%
246	18.541	18.532	18.555	VV	466	5515	0.10%	0.032%

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247	18.611	18.555	18.650	VV	348	16587	0.29%	0.096%	
248	18.659	18.650	18.665	VV	151	1130	0.02%	0.007%	
249	18.702	18.665	18.757	VV	1557	38334	0.66%	0.222%	
250	18.782	18.757	18.793	VV	135	2557	0.04%	0.015%	
251	18.871	18.793	18.915	PV	3071	59081	1.02%	0.342%	
252	19.056	18.915	19.071	VV	121	4033	0.07%	0.023%	
253	19.272	19.071	19.328	PV	2413	54944	0.95%	0.318%	
254	19.525	19.328	19.541	VV	176	9082	0.16%	0.053%	
255	19.657	19.541	19.708	PV	1683	26264	0.45%	0.152%	
256	20.034	19.708	20.061	PV	1135	-12846	-0.22%	-0.074%	
257	20.400	20.061	20.431	PV	1279	5096	0.09%	0.029%	
258	22.061	20.431	22.082	VV	1296	2572117	44.47%	14.870%	
259	22.094	22.082	22.108	VV	833	12878	0.22%	0.074%	
260	22.159	22.108	22.171	VV	251	13533	0.23%	0.078%	

Sum of corrected areas: 17297838

Aliphatic EPH 041725.M Tue May 06 04:46:32 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC040925AL

AreaCount

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	28917690.000	15222657.000	6286032.000	3422392.000	1645296.000	
Aliphatic C12-C16	18431489.000	9897338.000	4088590.000	2253140.000	1056103.000	
Aliphatic C16-C21	26693561.000	14380121.000	5937795.000	3290227.000	1508988.000	
Aliphatic C21-C28	34681529.000	18246305.000	7529133.000	4137443.000	1908822.000	
Aliphatic C28-C40	51686216.000	25852842.000	10689091.000	5728785.000	2776165.000	
Aliphatic EPH	160410485.000	83599263.000	34530641.000	18831987.000	8895374.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	105282.0026666	6.555				
Aliphatic C12-C16	102322.575	7.446				
Aliphatic C16-C21	98816.5386664	7.616				
Aliphatic C21-C28	94185.337	6.542				
Aliphatic C28-C40	89882.8349998	4.545				
Aliphatic EPH	96276.6184442	6.125				

Concentration

Parameter Range	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.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	FC068515.D	FC068516.D	FC068517.D	FC068518.D	FC068519.D	
Aliphatic C9-C12	96392.300000	101484.380000	104767.200000	114079.733333	109686.400000	
Aliphatic C12-C16	92157.445000	98973.380000	102214.750000	112657.000000	105610.300000	
Aliphatic C16-C21	88978.536666	95867.473333	98963.250000	109674.233333	100599.200000	

Initial Calibration Report for SequenceID : FC040925AL

Aliphatic C21-C28	86703.822500	91231.525000	94114.162500	103436.075000	95441.100000	
Aliphatic C28-C40	86143.693333	86176.140000	89075.758333	95479.750000	92538.833333	
Aliphatic EPH	89116.936111	92888.070000	95918.447222	104622.150000	98837.488888	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068515.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 14:19
 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: Apr 08 16:11:35 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 16:09:32 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)	11.728	11630513	95.399 ug/ml
Spiked Amount 50.000		Recovery =	190.80%
12) S 1-chlorooctadecane (S...	13.158	8442696	95.111 ug/ml
Spiked Amount 50.000		Recovery =	190.22%
Target Compounds			
1) T n-Nonane (C9)	3.453	9676433	96.008 ug/ml
2) T n-Decane (C10)	4.529	9659989	95.940 ug/ml
3) T A~Naphthalene (C11.7)	6.128	10706854	96.012 ug/ml
4) T n-Dodecane (C12)	6.555	9581268	95.561 ug/ml
5) T A~2-methylnaphthalene...	7.187	10590076	95.557 ug/ml
6) T n-Tetradecane (C14)	8.352	9286080	95.024 ug/ml
7) T n-Hexadecane (C16)	9.956	9145409	94.626 ug/ml
8) T n-Octadecane (C18)	11.401	9035245	94.602 ug/ml
10) T n-Eicosane (C20)	12.711	8860913	94.629 ug/ml
11) T n-Heneicosane (C21)	13.324	8797403	94.833 ug/ml
13) T n-Docosane (C22)	13.911	8749331	94.989 ug/ml
14) T n-Tetracosane (C24)	15.015	8697977	95.532 ug/ml
15) T n-Hexacosane (C26)	16.037	8653533	96.207 ug/ml
16) T n-Octacosane (C28)	16.989	8580688	96.922 ug/ml
17) T n-Tricontane (C30)	17.879	8693384	97.557 ug/ml
18) T n-Dotriacontane (C32)	18.714	8726742	98.108 ug/ml
19) T n-Tetratriacontane (C34)	19.499	8562598	98.394 ug/ml
20) T n-Hexatriacontane (C36)	20.240	8639575	98.692 ug/ml
21) T n-Octatriacontane (C38)	21.019	8521663	98.543 ug/ml
22) T n-Tetracontane (C40)	22.004	8542254	98.690 ug/ml

(f)=RT Delta > 1/2 Window

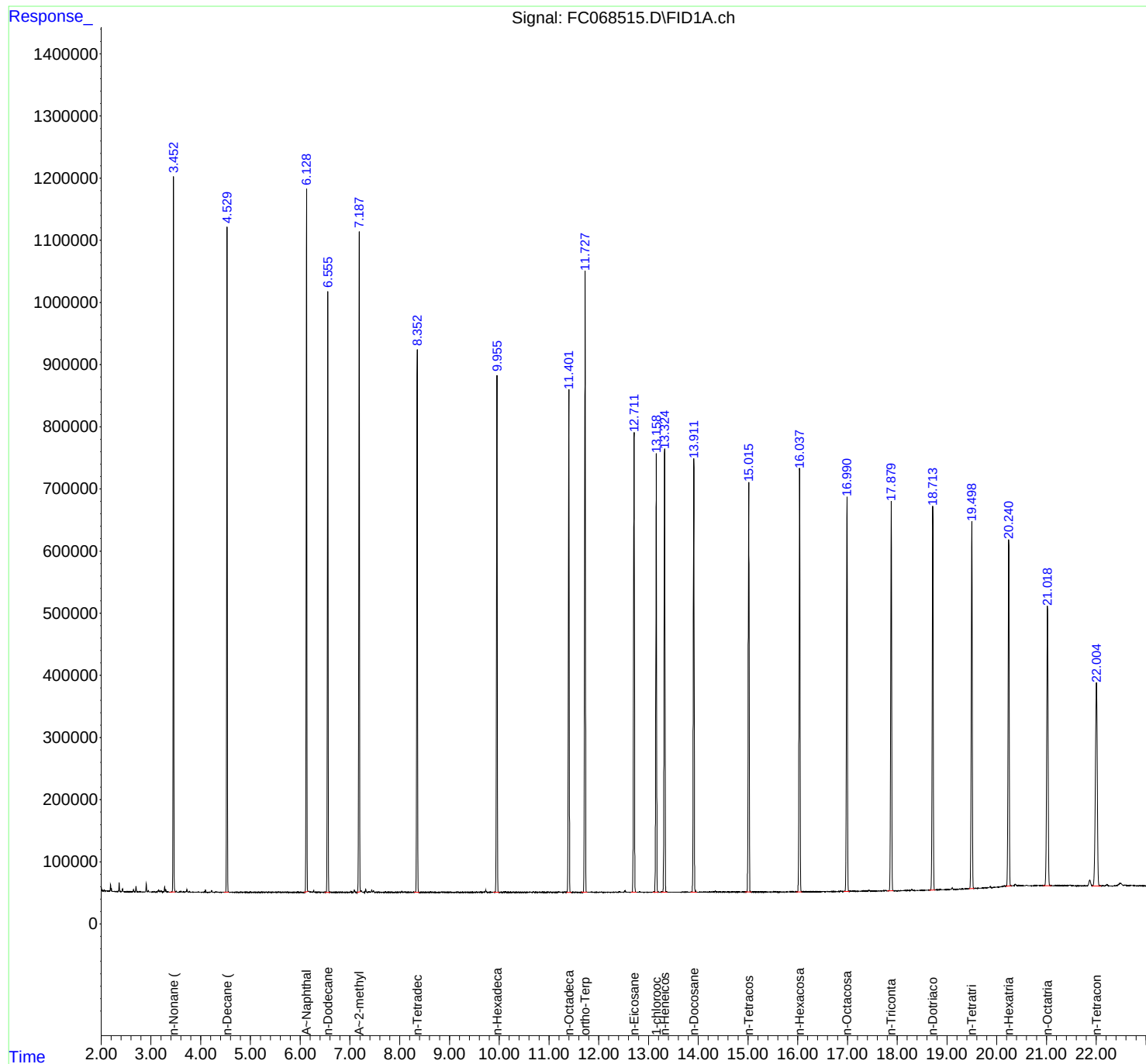
(m)=manual int.

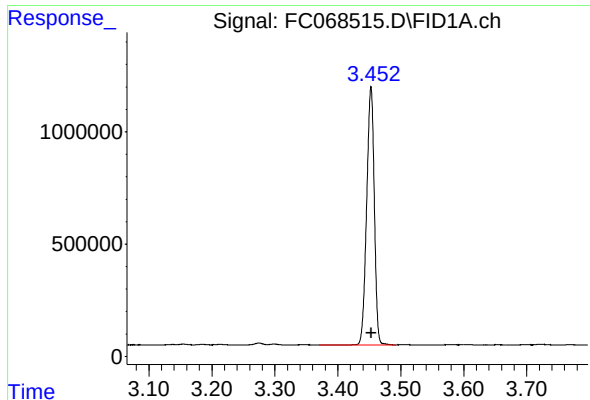
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
Data File : FC068515.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 14:19
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Apr 08 16:11:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 16:09:32 2025
Response via : Initial Calibration
Integrator: ChemStation

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

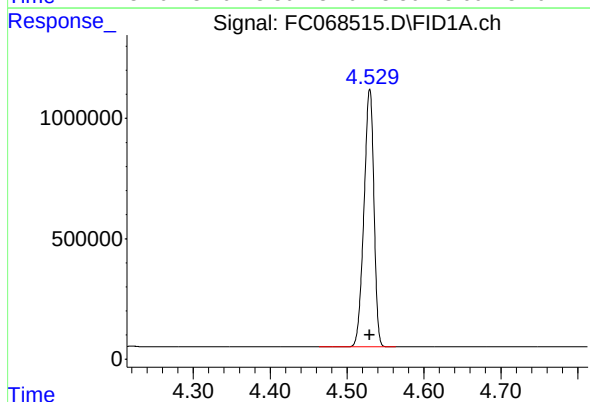




#1 n-Nonane (C9)

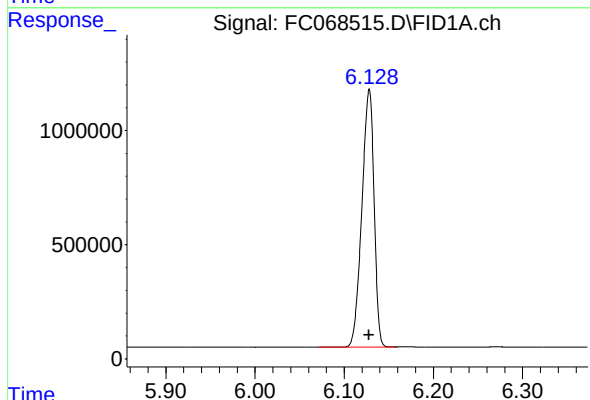
R.T.: 3.453 min
Delta R.T.: 0.000 min
Response: 9676433
Conc: 96.01 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



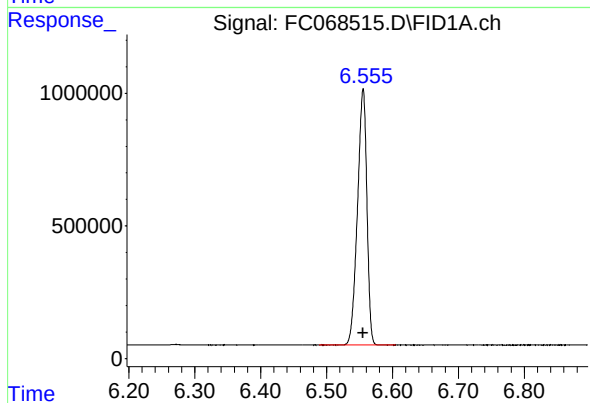
#2 n-Decane (C10)

R.T.: 4.529 min
Delta R.T.: 0.000 min
Response: 9659989
Conc: 95.94 ug/ml



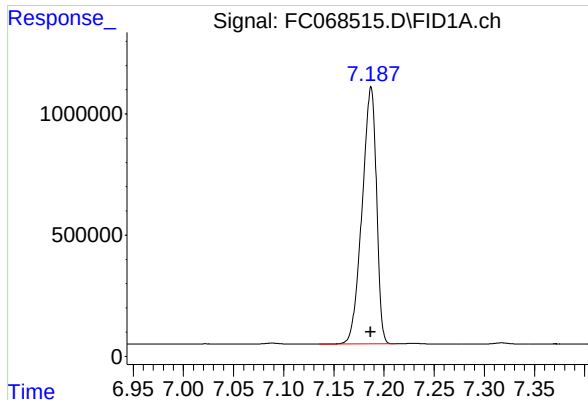
#3 A~Naphthalene (C11.7)

R.T.: 6.128 min
Delta R.T.: 0.000 min
Response: 10706854
Conc: 96.01 ug/ml



#4 n-Dodecane (C12)

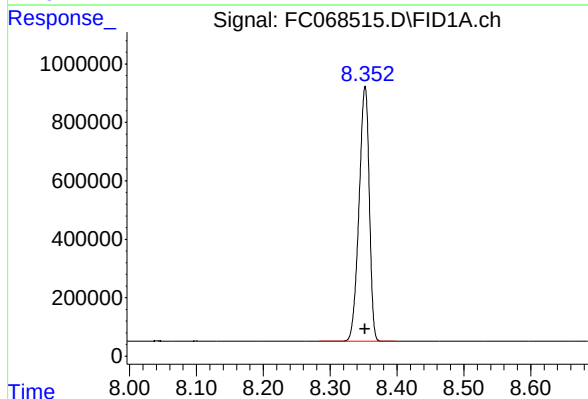
R.T.: 6.555 min
Delta R.T.: 0.000 min
Response: 9581268
Conc: 95.56 ug/ml



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

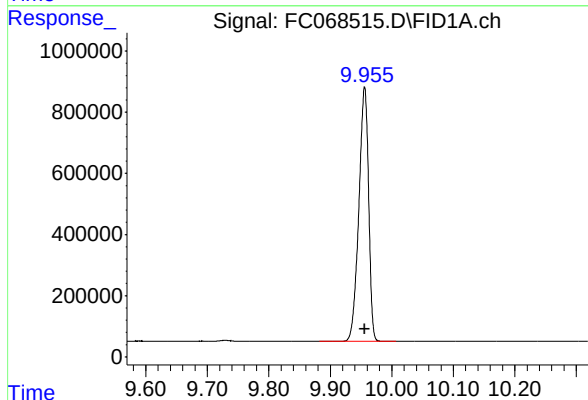
R.T.: 7.187 min
Delta R.T.: 0.000 min
Response: 10590076
Conc: 95.56 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



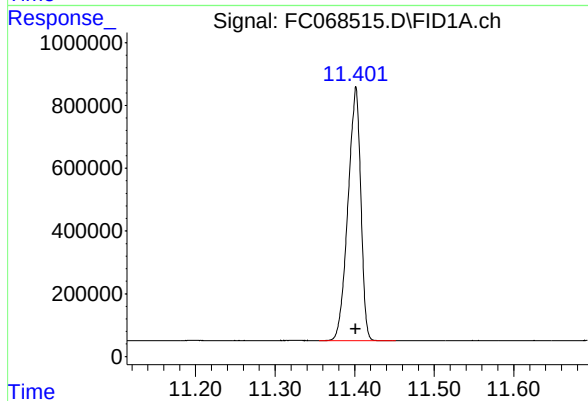
#6 n-Tetradecane (C14)

R.T.: 8.352 min
Delta R.T.: 0.000 min
Response: 9286080
Conc: 95.02 ug/ml



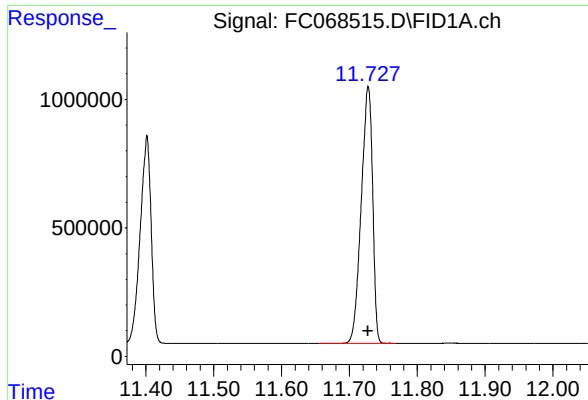
#7 n-Hexadecane (C16)

R.T.: 9.956 min
Delta R.T.: 0.000 min
Response: 9145409
Conc: 94.63 ug/ml



#8 n-Octadecane (C18)

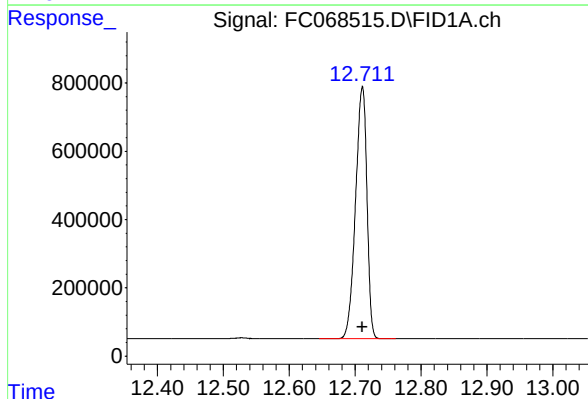
R.T.: 11.401 min
Delta R.T.: 0.000 min
Response: 9035245
Conc: 94.60 ug/ml



#9 ortho-Terphenyl (SURR)

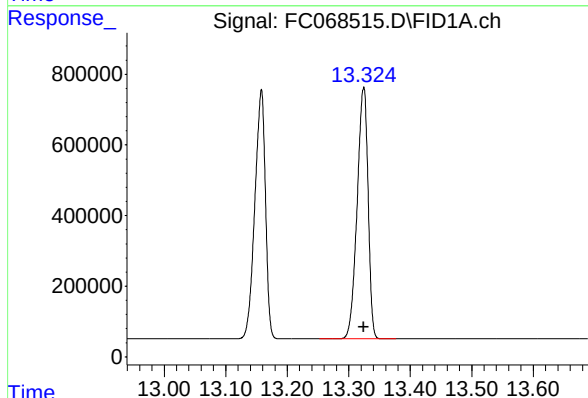
R.T.: 11.728 min
Delta R.T.: 0.000 min
Response: 11630513
Conc: 95.40 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



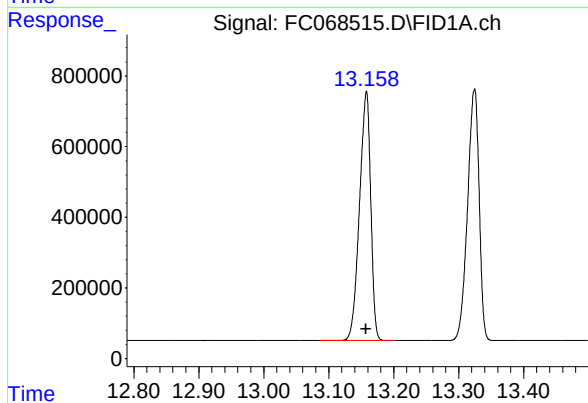
#10 n-Eicosane (C20)

R.T.: 12.711 min
Delta R.T.: 0.000 min
Response: 8860913
Conc: 94.63 ug/ml



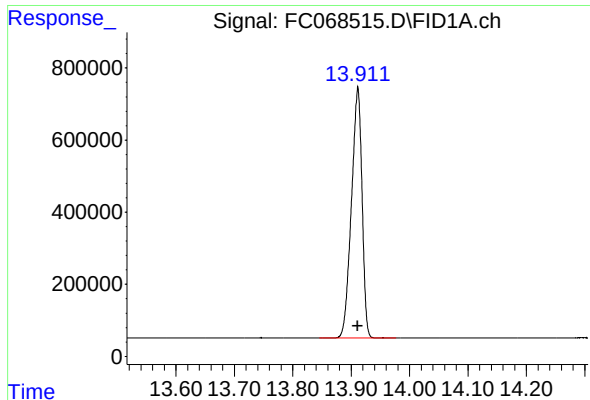
#11 n-Heneicosane (C21)

R.T.: 13.324 min
Delta R.T.: 0.000 min
Response: 8797403
Conc: 94.83 ug/ml



#12 1-chlorooctadecane (SURR)

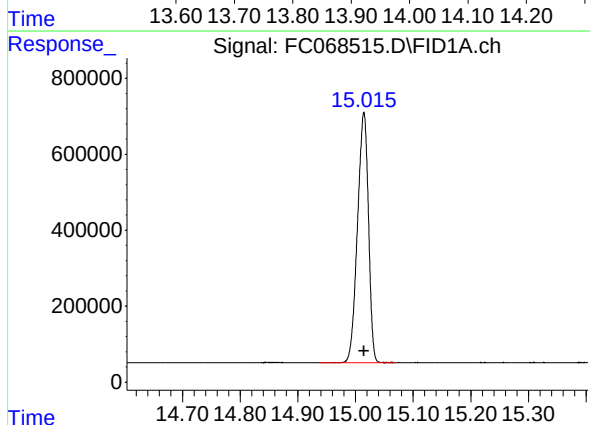
R.T.: 13.158 min
Delta R.T.: 0.000 min
Response: 8442696
Conc: 95.11 ug/ml



#13 n-Docosane (C22)

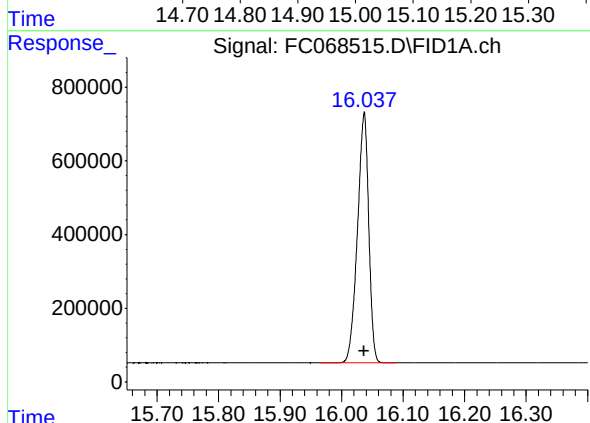
R.T.: 13.911 min
Delta R.T.: 0.000 min
Response: 8749331
Conc: 94.99 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



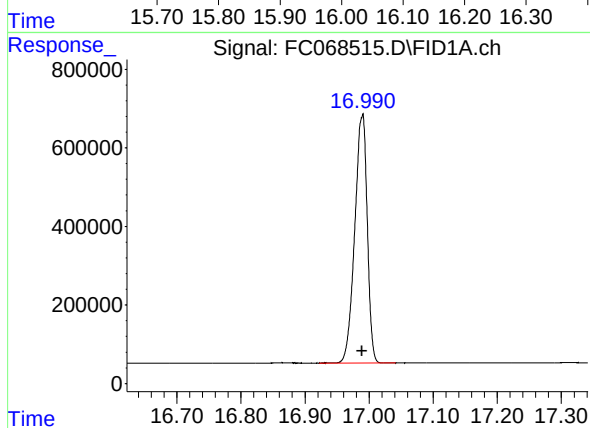
#14 n-Tetracosane (C24)

R.T.: 15.015 min
Delta R.T.: 0.000 min
Response: 8697977
Conc: 95.53 ug/ml



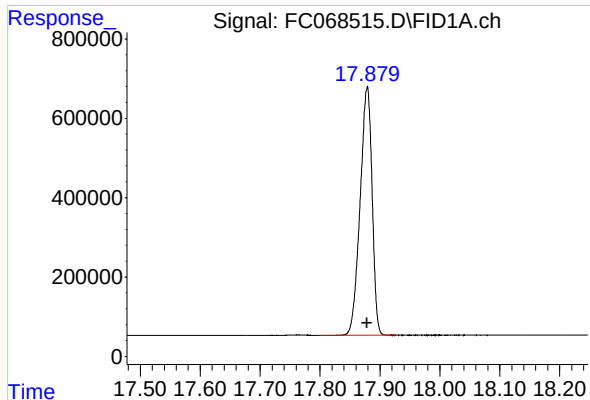
#15 n-Hexacosane (C26)

R.T.: 16.037 min
Delta R.T.: 0.000 min
Response: 8653533
Conc: 96.21 ug/ml



#16 n-Octacosane (C28)

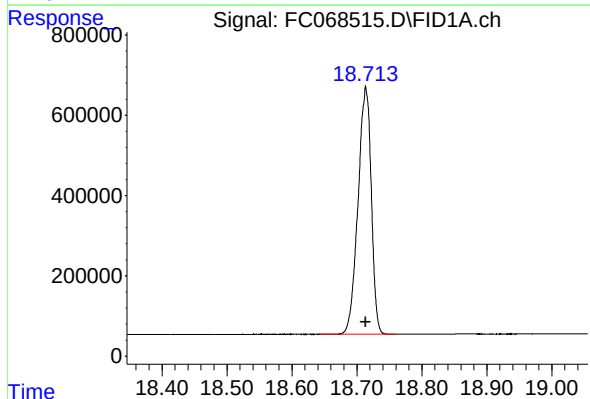
R.T.: 16.989 min
Delta R.T.: 0.000 min
Response: 8580688
Conc: 96.92 ug/ml



#17 n-Tricontane (C30)

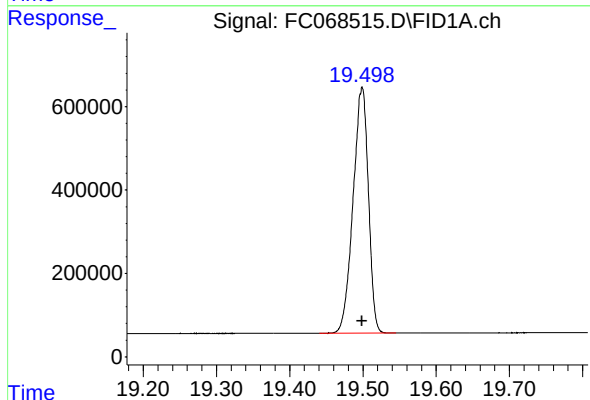
R.T.: 17.879 min
Delta R.T.: 0.000 min
Response: 8693384
Conc: 97.56 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



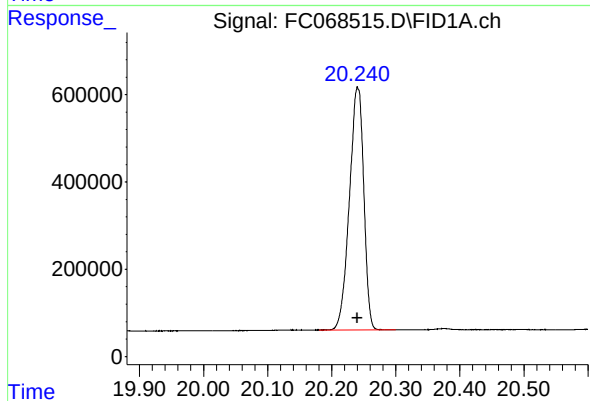
#18 n-Dotriacontane (C32)

R.T.: 18.714 min
Delta R.T.: 0.000 min
Response: 8726742
Conc: 98.11 ug/ml



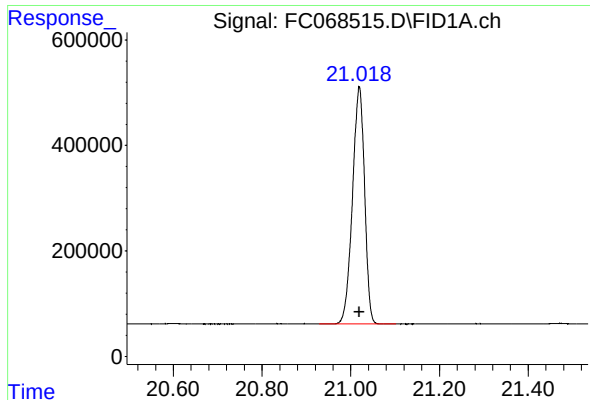
#19 n-Tetratriacontane (C34)

R.T.: 19.499 min
Delta R.T.: 0.000 min
Response: 8562598
Conc: 98.39 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.240 min
Delta R.T.: 0.000 min
Response: 8639575
Conc: 98.69 ug/ml



#21 n-Octatriacontane (C38)

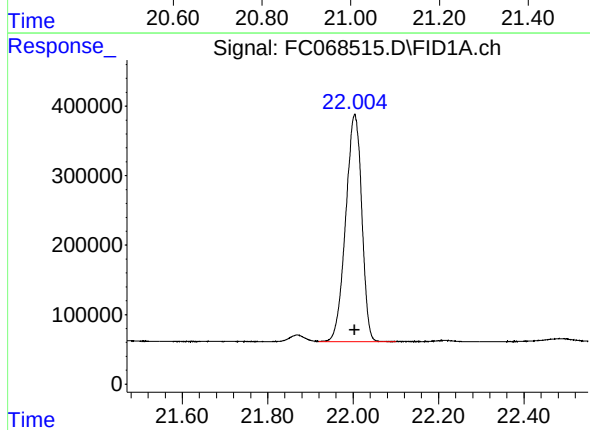
R.T.: 21.019 min
Delta R.T.: 0.000 min
Response: 8521663
Conc: 98.54 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.004 min
Delta R.T.: 0.000 min
Response: 8542254
Conc: 98.69 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068515.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 14:19
 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 040925.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	3.453	3.370	3.492	BV	1145582	9676433	83.20%	4.796%
2	4.529	4.463	4.563	BB	1078376	9659989	83.06%	4.787%
3	6.128	6.072	6.158	BV	1138205	10706854	92.06%	5.306%
4	6.555	6.488	6.605	BB	967686	9581268	82.38%	4.748%
5	7.187	7.135	7.212	BV	1064531	10590076	91.05%	5.248%
6	8.352	8.283	8.398	BB	872245	9286080	79.84%	4.602%
7	9.956	9.882	10.007	BB	832904	9145409	78.63%	4.532%
8	11.401	11.355	11.452	BB	815335	9035245	77.69%	4.478%
9	11.728	11.655	11.768	BB	999215	11630513	100.00%	5.764%
10	12.711	12.645	12.762	BB	736232	8860913	76.19%	4.391%
11	13.158	13.085	13.203	BB	702214	8442696	72.59%	4.184%
12	13.324	13.252	13.377	BB	710181	8797403	75.64%	4.360%
13	13.911	13.845	13.977	BB	699886	8749331	75.23%	4.336%
14	15.015	14.937	15.070	BB	660889	8697977	74.79%	4.311%
15	16.037	15.990	16.088	BB	681330	8649133	74.37%	4.286%
16	16.989	16.922	17.042	BB	627588	8580688	73.78%	4.253%
17	17.879	17.798	17.927	BB	624317	8693384	74.75%	4.308%
18	18.714	18.642	18.760	BB	617422	8726742	75.03%	4.325%
19	19.499	19.440	19.545	BB	589437	8562598	73.62%	4.244%
20	20.240	20.180	20.300	BB	556281	8639575	74.28%	4.282%
21	21.019	20.928	21.102	BB	451075	8521663	73.27%	4.223%
22	22.004	21.920	22.100	VB	327316	8542254	73.45%	4.234%
Sum of corrected areas:						201776225		

Aliphatic EPH 040925.M Wed Apr 09 02:01:57 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068516.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 14:56
 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: Apr 08 16:13:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 16:09:32 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)	11.725	6161100	50.356 ug/ml
Spiked Amount 50.000		Recovery =	100.71%
12) S 1-chlorooctadecane (S...	13.157	4514187	50.566 ug/ml
Spiked Amount 50.000		Recovery =	101.13%
Target Compounds			
1) T n-Nonane (C9)	3.450	5067341	50.185 ug/ml
2) T n-Decane (C10)	4.527	5076375	50.277 ug/ml
3) T A~Naphthalene (C11.7)	6.125	5619945	50.263 ug/ml
4) T n-Dodecane (C12)	6.553	5078941	50.435 ug/ml
5) T A~2-methylnaphthalene...	7.185	5572356	50.187 ug/ml
6) T n-Tetradecane (C14)	8.351	4969100	50.562 ug/ml
7) T n-Hexadecane (C16)	9.955	4928238	50.657 ug/ml
8) T n-Octadecane (C18)	11.400	4878449	50.714 ug/ml
10) T n-Eicosane (C20)	12.711	4775746	50.664 ug/ml
11) T n-Heneicosane (C21)	13.324	4725926	50.625 ug/ml
13) T n-Docosane (C22)	13.910	4681649	50.548 ug/ml
14) T n-Tetracosane (C24)	15.015	4612534	50.438 ug/ml
15) T n-Hexacosane (C26)	16.037	4527712	50.224 ug/ml
16) T n-Octacosane (C28)	16.988	4424410	49.984 ug/ml
17) T n-Tricontane (C30)	17.878	4424204	49.765 ug/ml
18) T n-Dotriacontane (C32)	18.712	4393250	49.592 ug/ml
19) T n-Tetratriacontane (C34)	19.496	4277762	49.434 ug/ml
20) T n-Hexatriacontane (C36)	20.237	4294870	49.370 ug/ml
21) T n-Octatriacontane (C38)	21.016	4234644	49.308 ug/ml
22) T n-Tetracontane (C40)	22.000	4228112	49.226 ug/ml

(f)=RT Delta > 1/2 Window

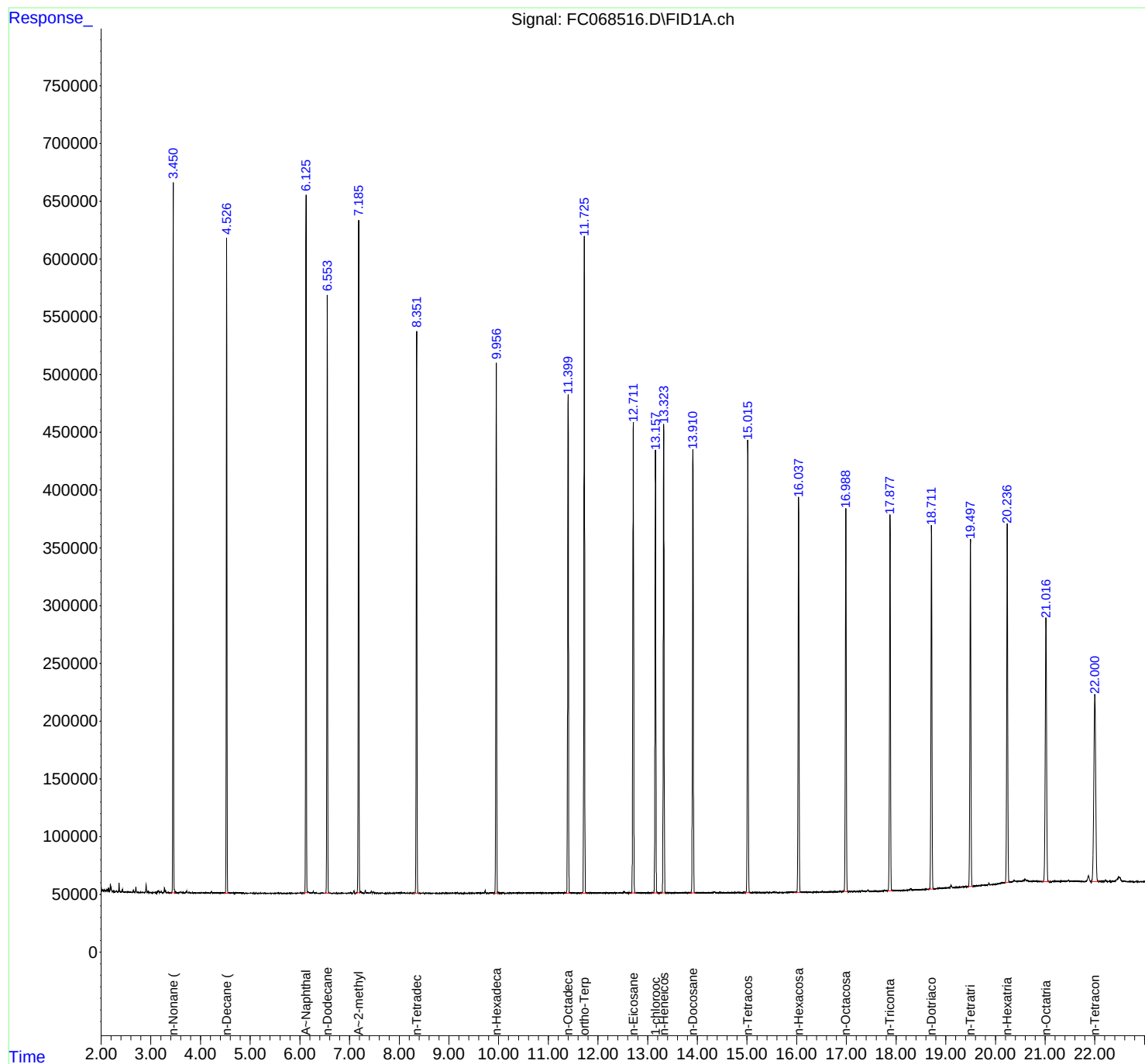
(m)=manual int.

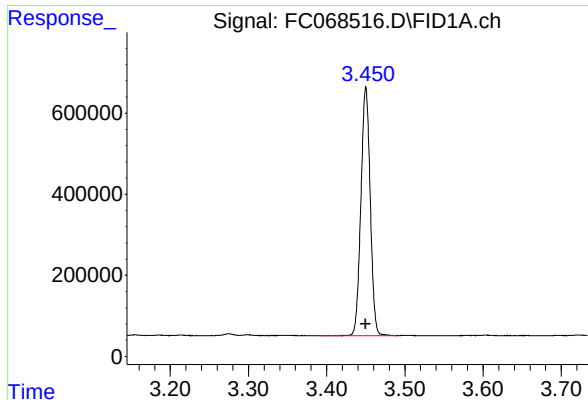
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
Data File : FC068516.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 14:56
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Apr 08 16:13:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 16:09:32 2025
Response via : Initial Calibration
Integrator: ChemStation

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

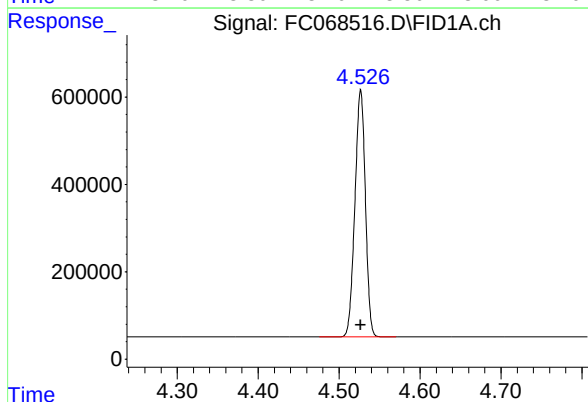




#1 n-Nonane (C9)

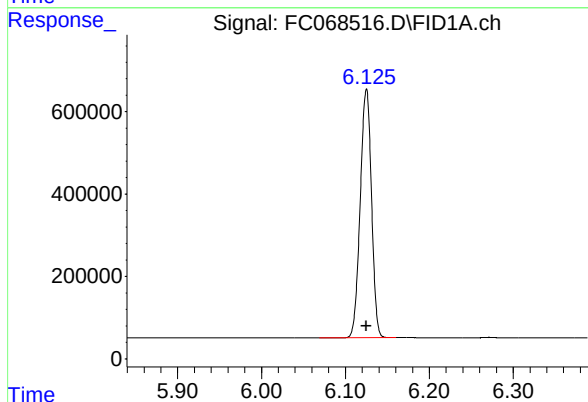
R.T.: 3.450 min
Delta R.T.: 0.000 min
Response: 5067341
Conc: 50.18 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



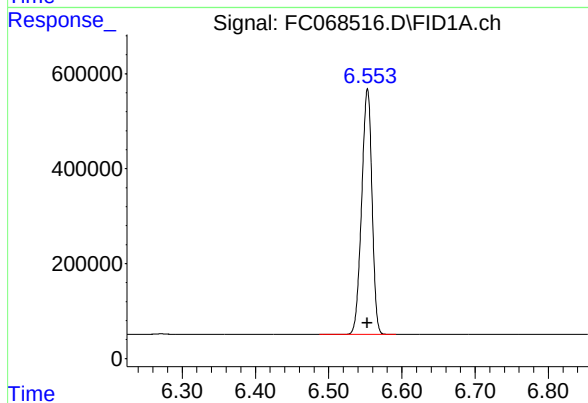
#2 n-Decane (C10)

R.T.: 4.527 min
Delta R.T.: 0.000 min
Response: 5076375
Conc: 50.28 ug/ml



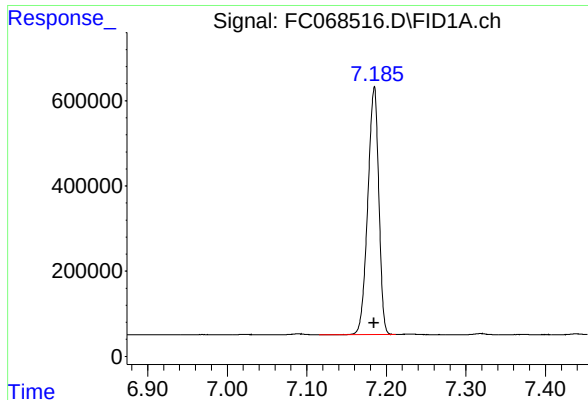
#3 A~Naphthalene (C11.7)

R.T.: 6.125 min
Delta R.T.: 0.000 min
Response: 5619945
Conc: 50.26 ug/ml



#4 n-Dodecane (C12)

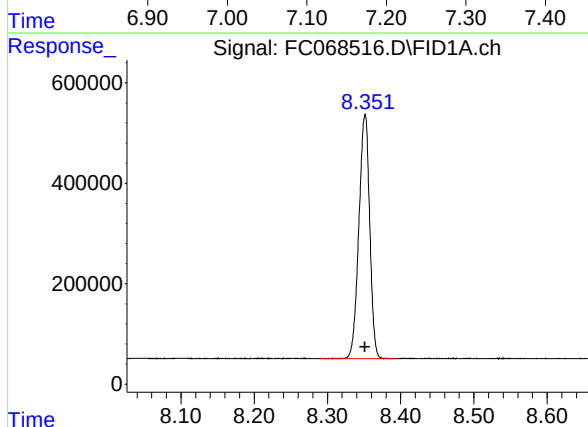
R.T.: 6.553 min
Delta R.T.: 0.000 min
Response: 5078941
Conc: 50.44 ug/ml



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

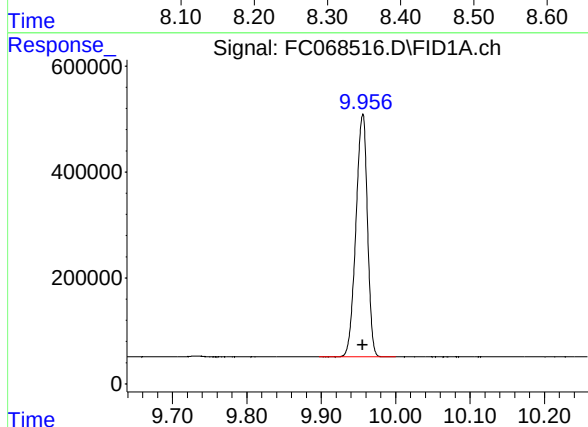
R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 5572356
Conc: 50.19 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



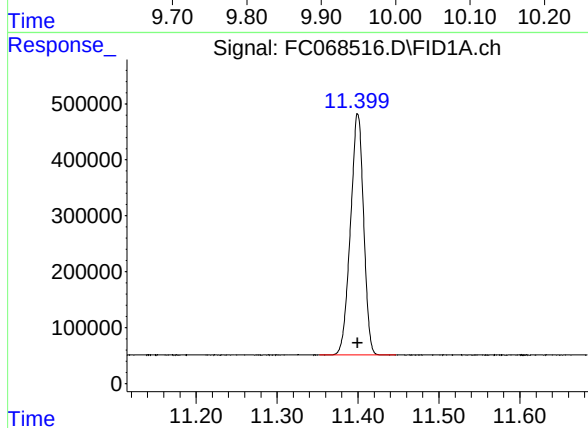
#6 n-Tetradecane (C14)

R.T.: 8.351 min
Delta R.T.: 0.000 min
Response: 4969100
Conc: 50.56 ug/ml



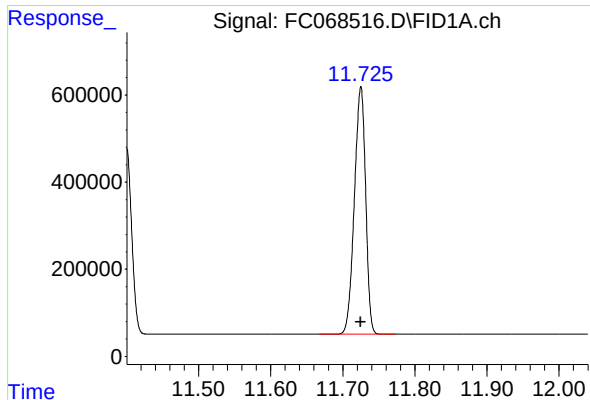
#7 n-Hexadecane (C16)

R.T.: 9.955 min
Delta R.T.: 0.000 min
Response: 4928238
Conc: 50.66 ug/ml



#8 n-Octadecane (C18)

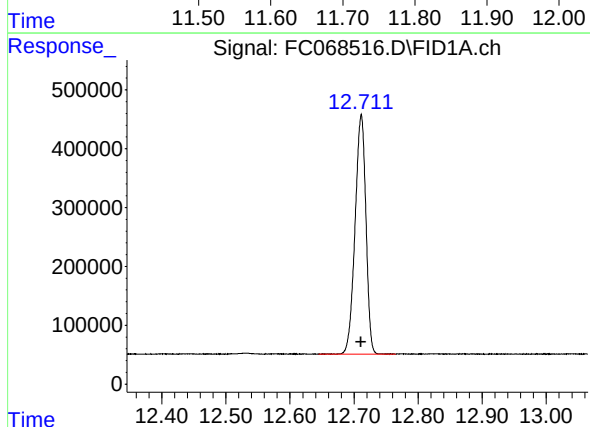
R.T.: 11.400 min
Delta R.T.: 0.000 min
Response: 4878449
Conc: 50.71 ug/ml



#9 ortho-Terphenyl (SURR)

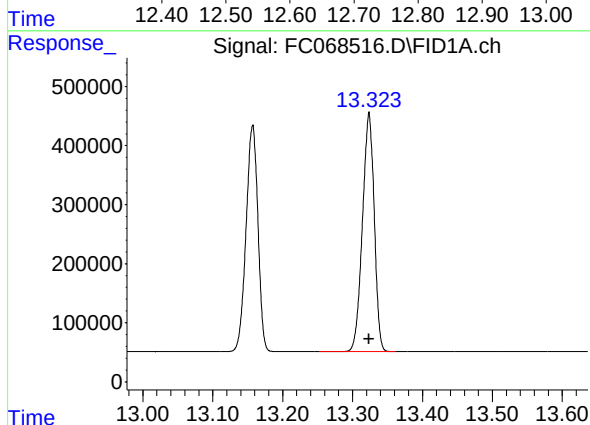
R.T.: 11.725 min
Delta R.T.: 0.000 min
Response: 6161100
Conc: 50.36 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



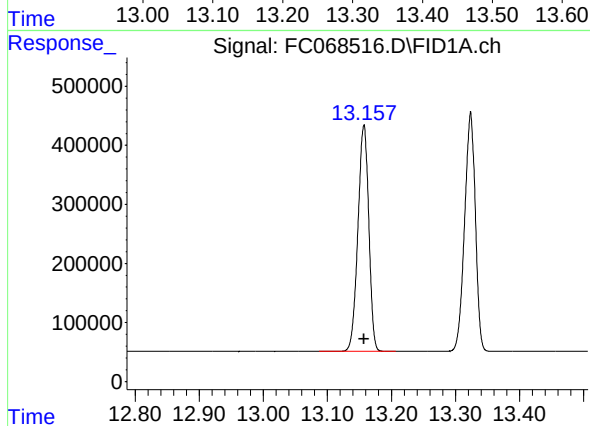
#10 n-Eicosane (C20)

R.T.: 12.711 min
Delta R.T.: 0.000 min
Response: 4775746
Conc: 50.66 ug/ml



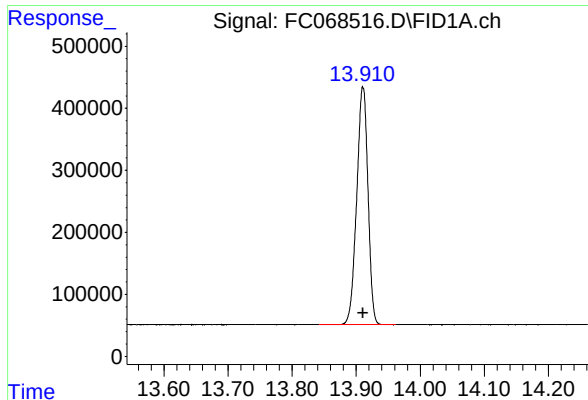
#11 n-Heneicosane (C21)

R.T.: 13.324 min
Delta R.T.: 0.000 min
Response: 4725926
Conc: 50.63 ug/ml



#12 1-chlorooctadecane (SURR)

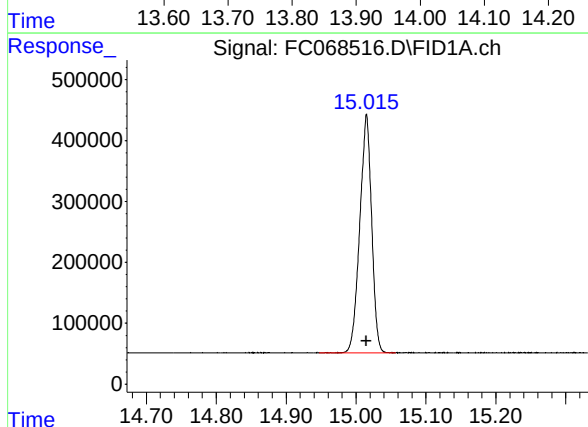
R.T.: 13.157 min
Delta R.T.: 0.000 min
Response: 4514187
Conc: 50.57 ug/ml



#13 n-Docosane (C22)

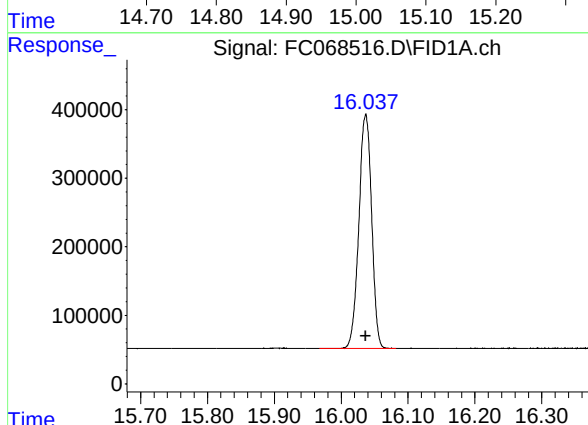
R.T.: 13.910 min
Delta R.T.: 0.000 min
Response: 4681649
Conc: 50.55 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



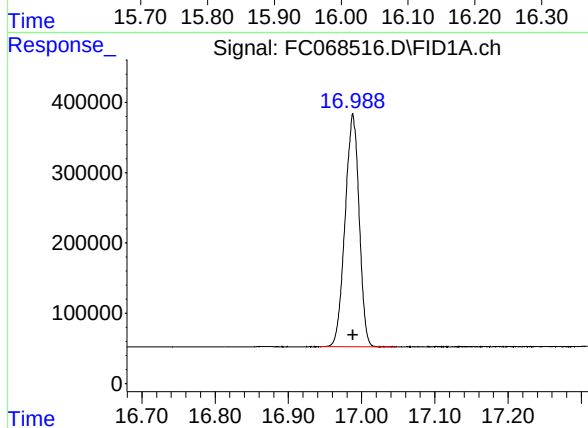
#14 n-Tetracosane (C24)

R.T.: 15.015 min
Delta R.T.: 0.000 min
Response: 4612534
Conc: 50.44 ug/ml



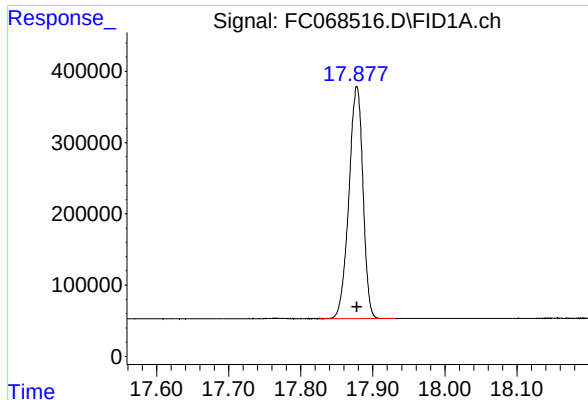
#15 n-Hexacosane (C26)

R.T.: 16.037 min
Delta R.T.: 0.000 min
Response: 4527712
Conc: 50.22 ug/ml



#16 n-Octacosane (C28)

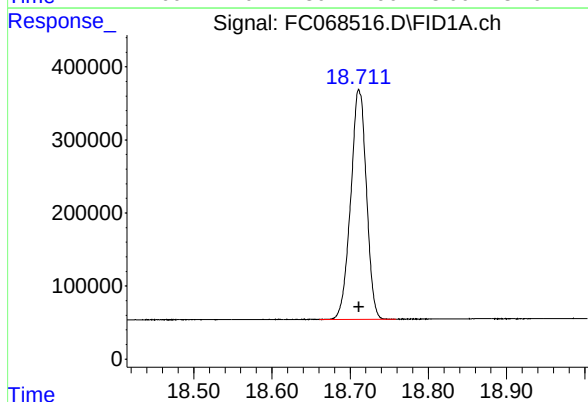
R.T.: 16.988 min
Delta R.T.: 0.000 min
Response: 4424410
Conc: 49.98 ug/ml



#17 n-Tricontane (C30)

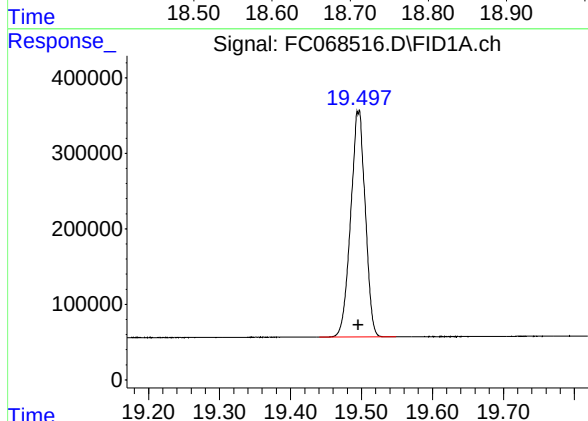
R.T.: 17.878 min
Delta R.T.: 0.000 min
Response: 4424204
Conc: 49.77 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



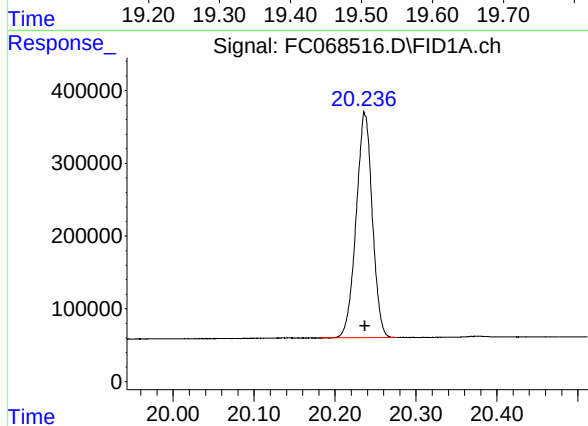
#18 n-Dotriacontane (C32)

R.T.: 18.712 min
Delta R.T.: 0.000 min
Response: 4393250
Conc: 49.59 ug/ml



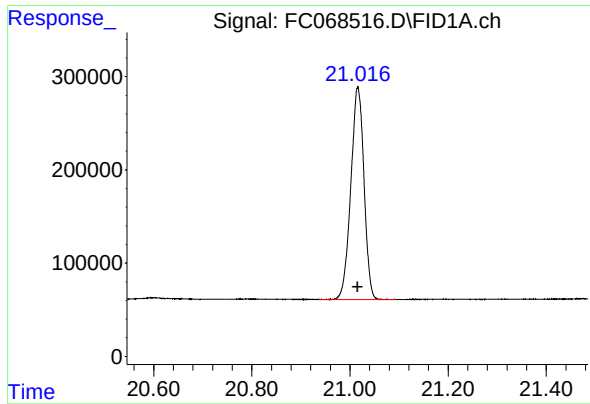
#19 n-Tetratriacontane (C34)

R.T.: 19.496 min
Delta R.T.: 0.000 min
Response: 4277762
Conc: 49.43 ug/ml



#20 n-Hexatriacontane (C36)

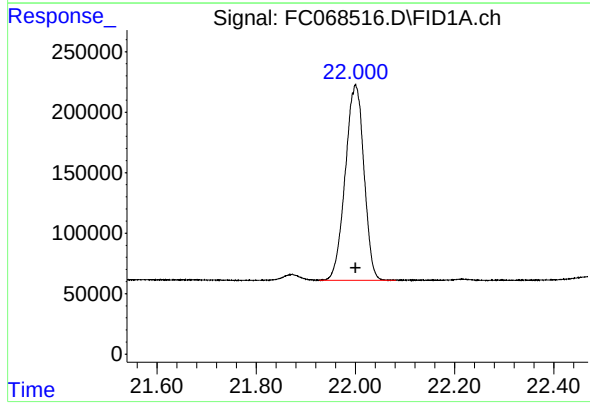
R.T.: 20.237 min
Delta R.T.: 0.000 min
Response: 4294870
Conc: 49.37 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.016 min
Delta R.T.: 0.000 min
Response: 4234644
Conc: 49.31 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.000 min
Delta R.T.: 0.000 min
Response: 4228112
Conc: 49.23 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
Data File : FC068516.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 14:56
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 040925.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	3.450	3.390	3.489	BV	614195	5067341	82.25%	4.805%
2	4.527	4.475	4.570	BB	566581	5076375	82.39%	4.813%
3	6.125	6.069	6.160	BV	605260	5619945	91.22%	5.329%
4	6.553	6.487	6.592	BB	518970	5078941	82.44%	4.816%
5	7.185	7.115	7.212	BV	587046	5572356	90.44%	5.284%
6	8.351	8.289	8.394	BB	488782	4969100	80.65%	4.712%
7	9.955	9.897	10.000	BB	457482	4928238	79.99%	4.673%
8	11.400	11.352	11.447	BB	430140	4878449	79.18%	4.626%
9	11.725	11.667	11.774	BB	570322	6161100	100.00%	5.842%
10	12.711	12.645	12.765	BB	404785	4775746	77.51%	4.528%
11	13.157	13.087	13.207	BB	383072	4514187	73.27%	4.280%
12	13.324	13.252	13.362	BB	405122	4725926	76.71%	4.481%
13	13.910	13.842	13.962	BB	383565	4681649	75.99%	4.439%
14	15.015	14.947	15.057	BB	393040	4612534	74.87%	4.373%
15	16.037	15.990	16.082	BB	342528	4526622	73.47%	4.292%
16	16.988	16.942	17.047	BB	330582	4424410	71.81%	4.195%
17	17.878	17.825	17.932	BB	326941	4424204	71.81%	4.195%
18	18.712	18.660	18.759	BB	312516	4393250	71.31%	4.166%
19	19.496	19.440	19.549	BB	296964	4277762	69.43%	4.056%
20	20.237	20.180	20.275	BB	306583	4294870	69.71%	4.072%
21	21.016	20.937	21.094	BB	228457	4234644	68.73%	4.015%
22	22.000	21.927	22.082	VB	161807	4228112	68.63%	4.009%
Sum of corrected areas:						105465761		

Aliphatic EPH 040925.M Wed Apr 09 02:02:27 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068517.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 15:34
 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: Apr 08 16:09:48 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 16:09:32 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)	11.722	2550464	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.154	1862131	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.449	2096221	20.000 ug/ml
2) T n-Decane (C10)	4.526	2095530	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.124	2319276	20.000 ug/ml
4) T n-Dodecane (C12)	6.551	2094281	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.183	2314991	20.000 ug/ml
6) T n-Tetradecane (C14)	8.350	2051743	20.000 ug/ml
7) T n-Hexadecane (C16)	9.953	2036847	20.000 ug/ml
8) T n-Octadecane (C18)	11.397	2013255	20.000 ug/ml
10) T n-Eicosane (C20)	12.708	1973342	20.000 ug/ml
11) T n-Heneicosane (C21)	13.320	1951198	20.000 ug/ml
13) T n-Docosane (C22)	13.907	1934500	20.000 ug/ml
14) T n-Tetracosane (C24)	15.012	1902333	20.000 ug/ml
15) T n-Hexacosane (C26)	16.034	1867179	20.000 ug/ml
16) T n-Octacosane (C28)	16.985	1825121	20.000 ug/ml
17) T n-Tricontane (C30)	17.874	1825746	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.708	1812670	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.492	1768427	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.234	1773721	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.012	1754719	20.000 ug/ml
22) T n-Tetracontane (C40)	21.991	1753808	20.000 ug/ml

(f)=RT Delta > 1/2 Window

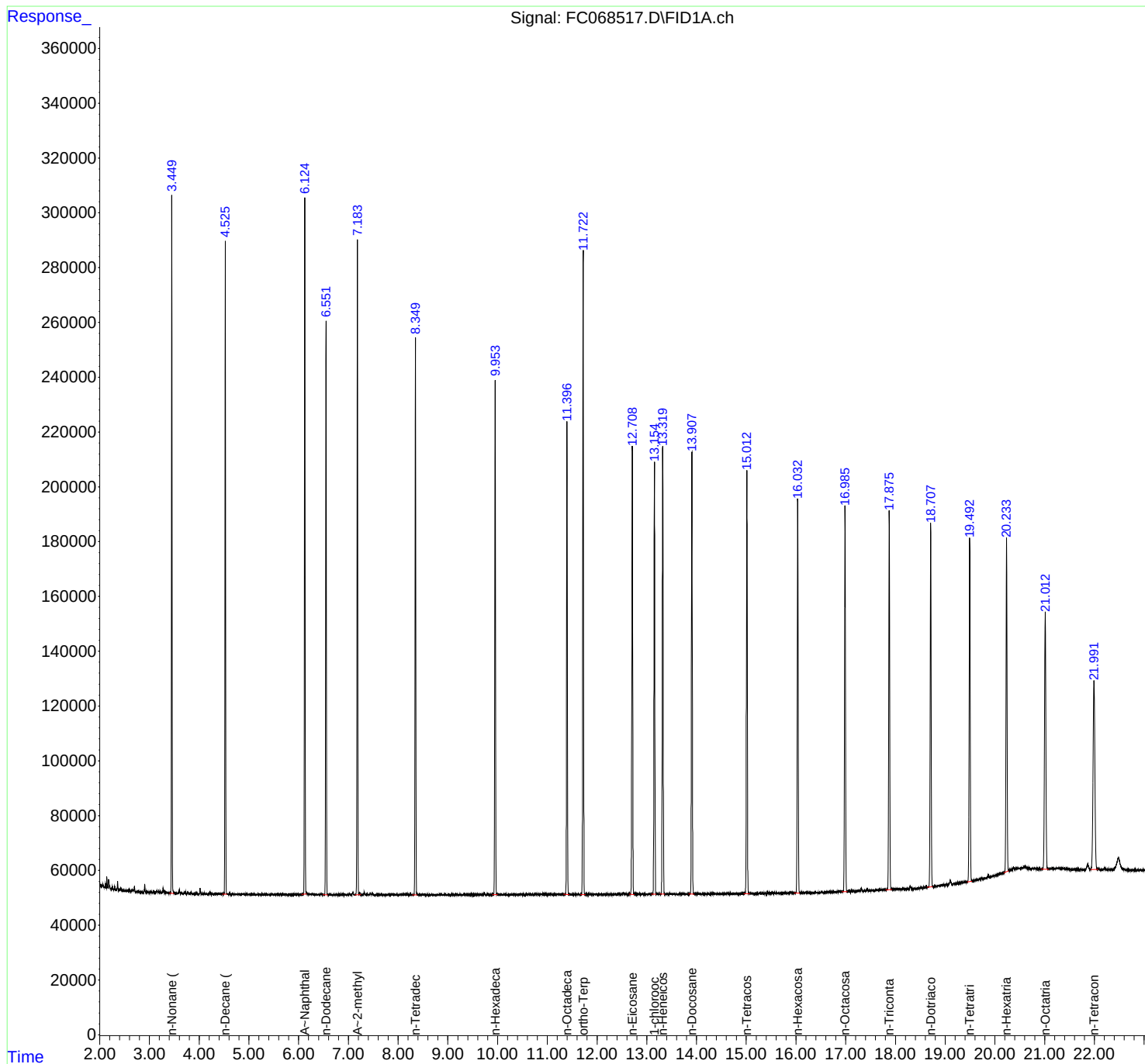
(m)=manual int.

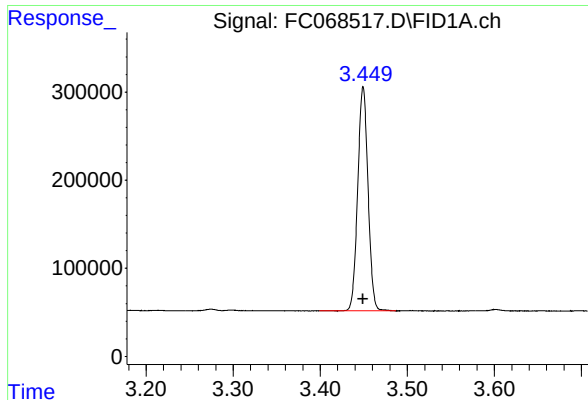
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
Data File : FC068517.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:34
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Apr 08 16:09:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 16:09:32 2025
Response via : Initial Calibration
Integrator: ChemStation

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

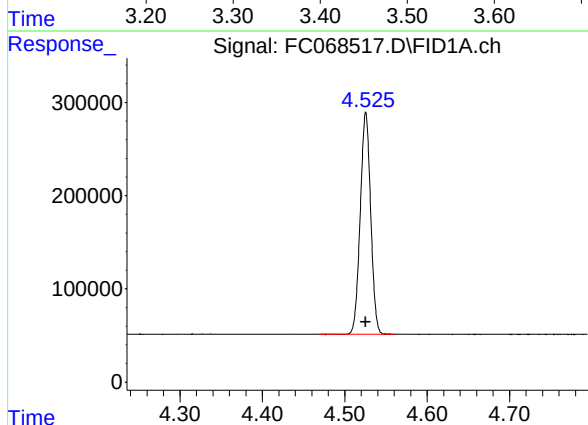




#1 n-Nonane (C9)

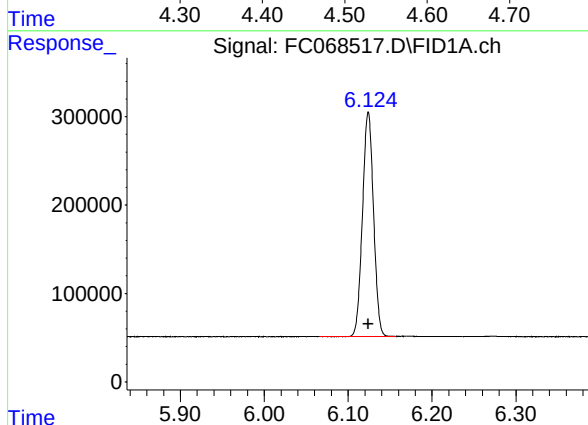
R.T.: 3.449 min
Delta R.T.: 0.000 min
Response: 2096221
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



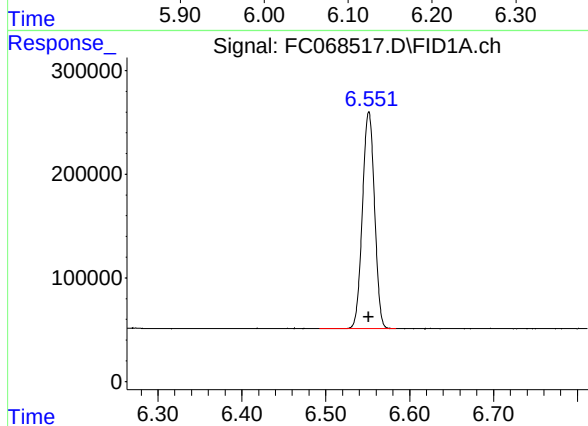
#2 n-Decane (C10)

R.T.: 4.526 min
Delta R.T.: 0.000 min
Response: 2095530
Conc: 20.00 ug/ml



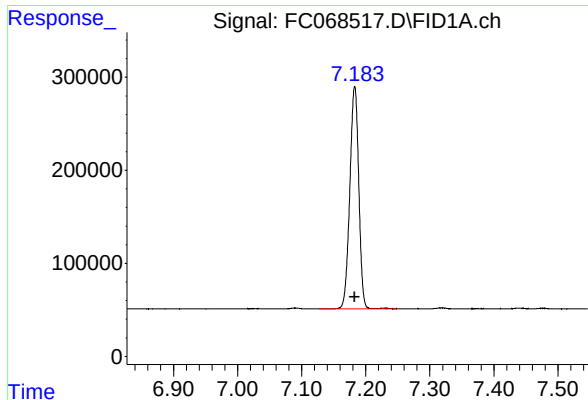
#3 A~Naphthalene (C11.7)

R.T.: 6.124 min
Delta R.T.: 0.000 min
Response: 2319276
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

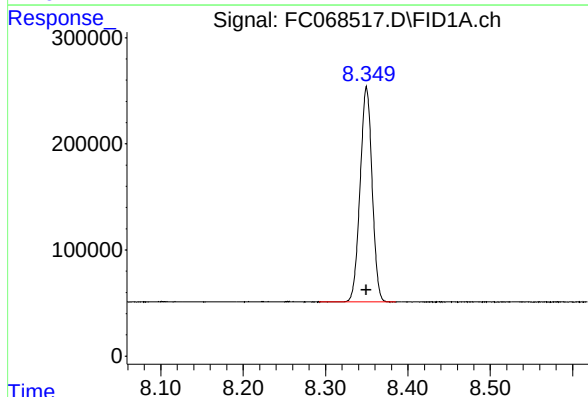
R.T.: 6.551 min
Delta R.T.: 0.000 min
Response: 2094281
Conc: 20.00 ug/ml



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

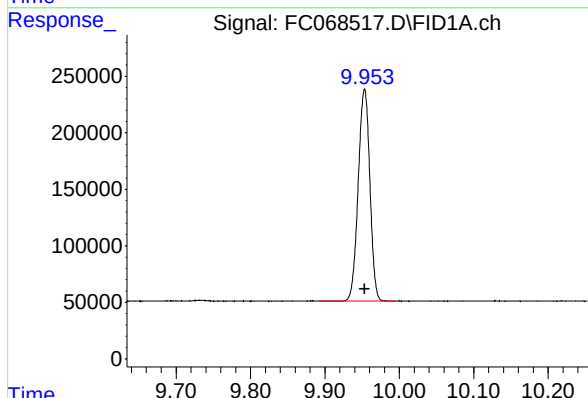
R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 2314991
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



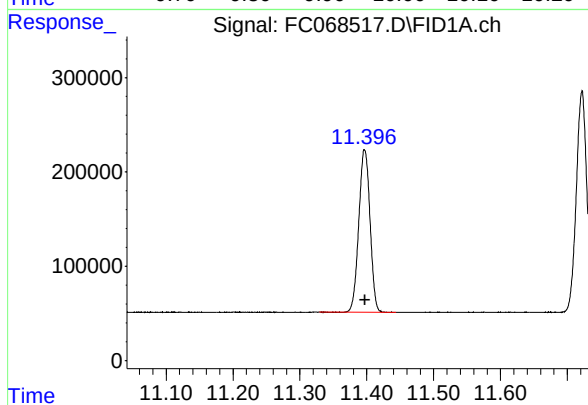
#6 n-Tetradecane (C14)

R.T.: 8.350 min
Delta R.T.: 0.000 min
Response: 2051743
Conc: 20.00 ug/ml



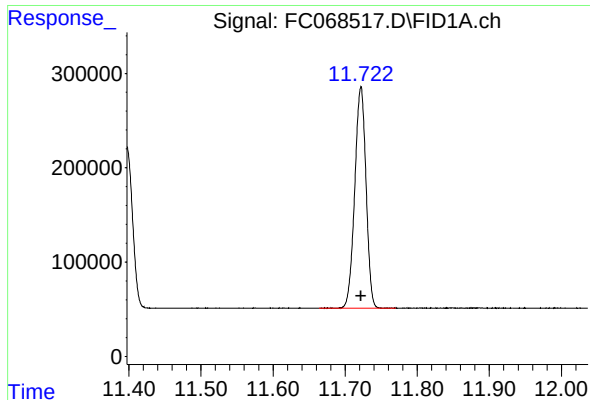
#7 n-Hexadecane (C16)

R.T.: 9.953 min
Delta R.T.: 0.000 min
Response: 2036847
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

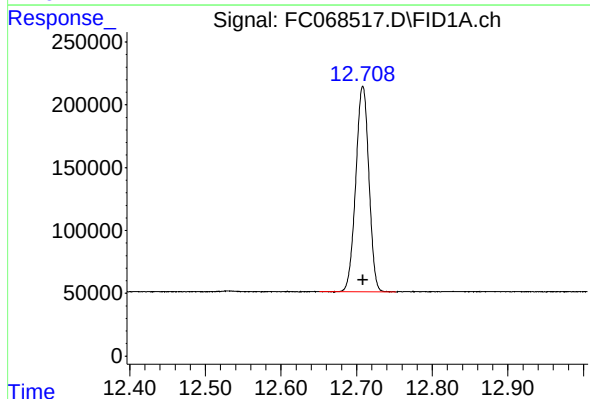
R.T.: 11.397 min
Delta R.T.: 0.000 min
Response: 2013255
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

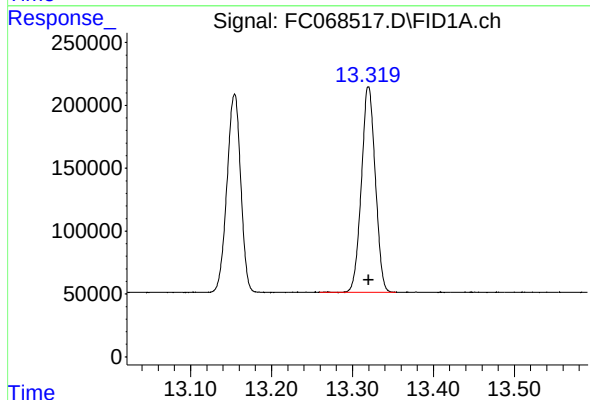
R.T.: 11.722 min
Delta R.T.: 0.000 min
Response: 2550464
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



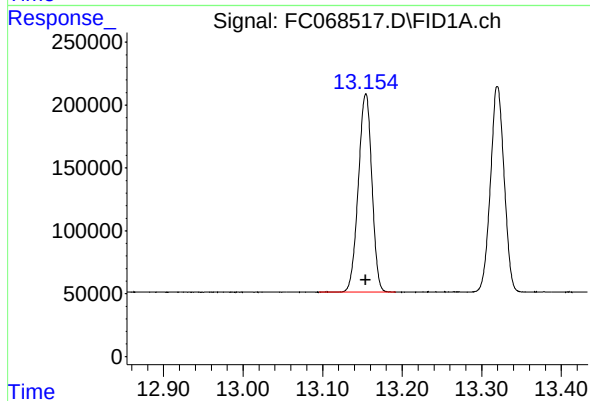
#10 n-Eicosane (C20)

R.T.: 12.708 min
Delta R.T.: 0.000 min
Response: 1973342
Conc: 20.00 ug/ml



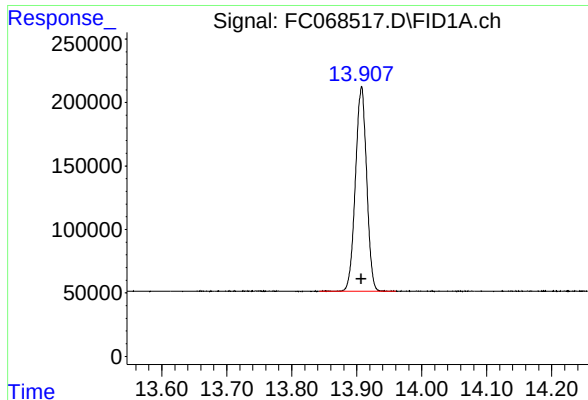
#11 n-Heneicosane (C21)

R.T.: 13.320 min
Delta R.T.: 0.000 min
Response: 1951198
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

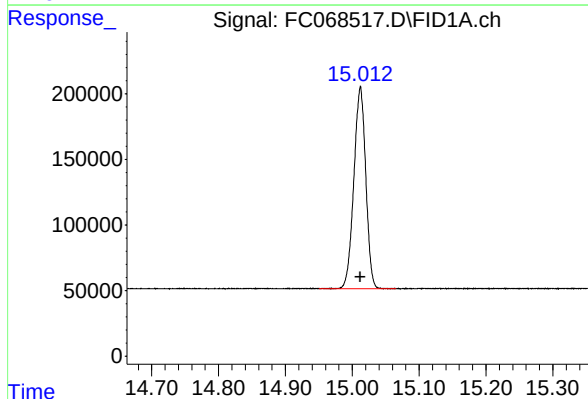
R.T.: 13.154 min
Delta R.T.: 0.000 min
Response: 1862131
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

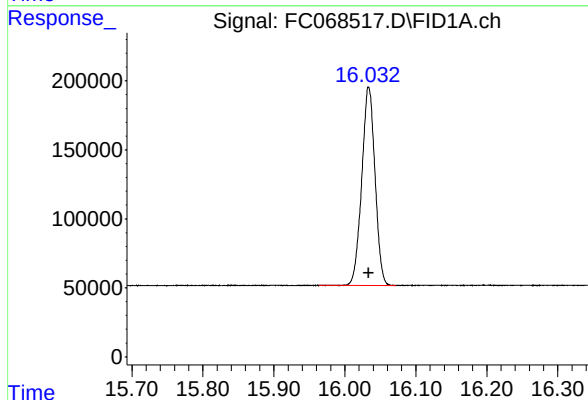
R.T.: 13.907 min
Delta R.T.: 0.000 min
Response: 1934500
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



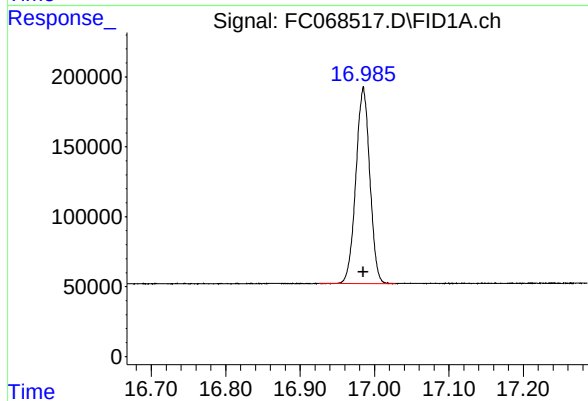
#14 n-Tetracosane (C24)

R.T.: 15.012 min
Delta R.T.: 0.000 min
Response: 1902333
Conc: 20.00 ug/ml



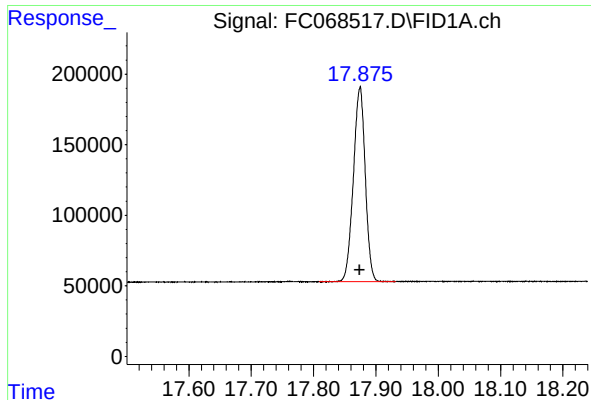
#15 n-Hexacosane (C26)

R.T.: 16.034 min
Delta R.T.: 0.000 min
Response: 1867179
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

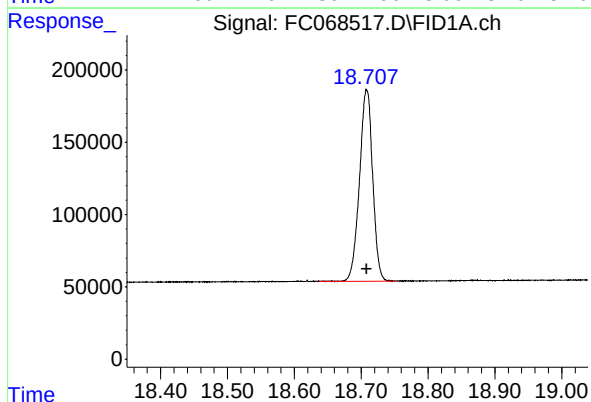
R.T.: 16.985 min
Delta R.T.: 0.000 min
Response: 1825121
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

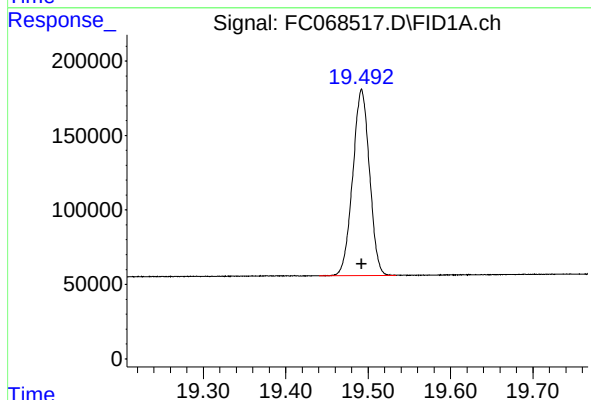
R.T.: 17.874 min
Delta R.T.: 0.000 min
Response: 1825746
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



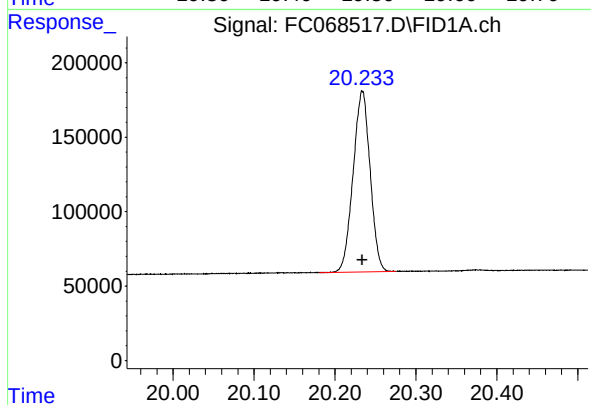
#18 n-Dotriacontane (C32)

R.T.: 18.708 min
Delta R.T.: 0.000 min
Response: 1812670
Conc: 20.00 ug/ml



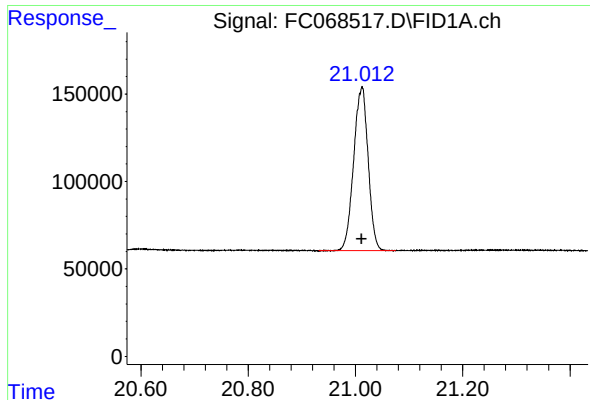
#19 n-Tetratriacontane (C34)

R.T.: 19.492 min
Delta R.T.: 0.000 min
Response: 1768427
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

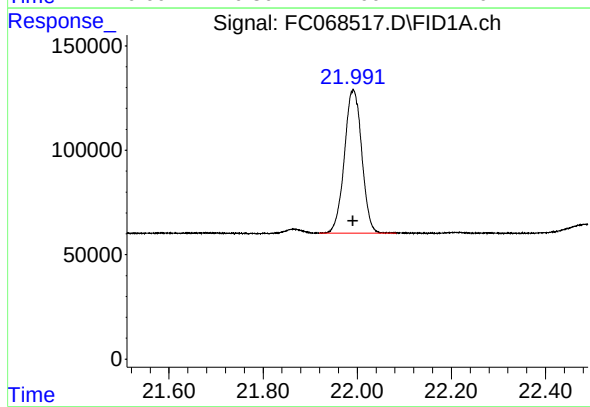
R.T.: 20.234 min
Delta R.T.: 0.000 min
Response: 1773721
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.012 min
Delta R.T.: 0.000 min
Response: 1754719
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.991 min
Delta R.T.: 0.000 min
Response: 1753808
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
Data File : FC068517.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 15:34
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 040925.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	3.449	3.399	3.487	BV	253958	2096221	82.19%	4.810%
2	4.526	4.469	4.562	BB	238340	2095530	82.16%	4.809%
3	6.124	6.065	6.157	BB	253815	2319276	90.94%	5.322%
4	6.551	6.492	6.584	BB	209737	2094281	82.11%	4.806%
5	7.183	7.127	7.247	BB	239201	2314991	90.77%	5.312%
6	8.350	8.292	8.385	BB	201953	2051743	80.45%	4.708%
7	9.953	9.892	9.995	BB	188220	2036847	79.86%	4.674%
8	11.397	11.329	11.444	BB	171872	2013255	78.94%	4.620%
9	11.722	11.664	11.770	BB	235078	2550464	100.00%	5.853%
10	12.708	12.650	12.752	BB	163857	1973342	77.37%	4.528%
11	13.154	13.095	13.192	BB	157485	1862131	73.01%	4.273%
12	13.320	13.259	13.354	BB	163602	1951198	76.50%	4.478%
13	13.907	13.842	13.960	BB	161073	1934500	75.85%	4.439%
14	15.012	14.950	15.065	BB	154219	1902333	74.59%	4.365%
15	16.034	15.990	16.072	BB	143647	1867249	73.21%	4.285%
16	16.985	16.925	17.029	BB	140633	1825121	71.56%	4.188%
17	17.874	17.809	17.932	BB	137283	1825746	71.58%	4.190%
18	18.708	18.637	18.752	BB	132106	1812670	71.07%	4.160%
19	19.492	19.440	19.534	BB	125064	1768427	69.34%	4.058%
20	20.234	20.180	20.275	BB	121667	1773721	69.55%	4.070%
21	21.012	20.932	21.075	BB	93948	1754719	68.80%	4.027%
22	21.991	21.919	22.082	BB	68732	1753808	68.76%	4.025%
Sum of corrected areas:							43577572	

Aliphatic EPH 040925.M Wed Apr 09 02:02:52 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068518.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 16:12
 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: Apr 08 17:03:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:03:20 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)	11.720	1388282	10.977 ug/ml
Spiked Amount 50.000		Recovery =	21.95%
12) S 1-chlorooctadecane (S...	13.154	1026505	11.083 ug/ml
Spiked Amount 50.000		Recovery =	22.17%
Target Compounds			
1) T n-Nonane (C9)	3.450	1136561	10.913 ug/ml
2) T n-Decane (C10)	4.525	1140863	10.944 ug/ml
3) T A~Naphthalene (C11.7)	6.124	1256563	10.901 ug/ml
4) T n-Dodecane (C12)	6.551	1144968	10.993 ug/ml
5) T A~2-methylnaphthalene...	7.181	1247891	10.901 ug/ml
6) T n-Tetradecane (C14)	8.348	1128652	11.073 ug/ml
7) T n-Hexadecane (C16)	9.952	1124488	11.125 ug/ml
8) T n-Octadecane (C18)	11.396	1115425	11.151 ug/ml
10) T n-Eicosane (C20)	12.707	1092518	11.147 ug/ml
11) T n-Heneicosane (C21)	13.320	1082284	11.149 ug/ml
13) T n-Docosane (C22)	13.907	1070404	11.124 ug/ml
14) T n-Tetracosane (C24)	15.011	1051523	11.083 ug/ml
15) T n-Hexacosane (C26)	16.034	1022441	10.974 ug/ml
16) T n-Octacosane (C28)	16.985	993075	10.887 ug/ml
17) T n-Tricontane (C30)	17.873	990582	10.833 ug/ml
18) T n-Dotriacontane (C32)	18.707	985052	10.817 ug/ml
19) T n-Tetratriacontane (C34)	19.492	949339	10.711 ug/ml
20) T n-Hexatriacontane (C36)	20.233	947135	10.651 ug/ml
21) T n-Octatriacontane (C38)	21.009	932368	10.629 ug/ml
22) T n-Tetracontane (C40)	21.991	924309	10.560 ug/ml

(f)=RT Delta > 1/2 Window

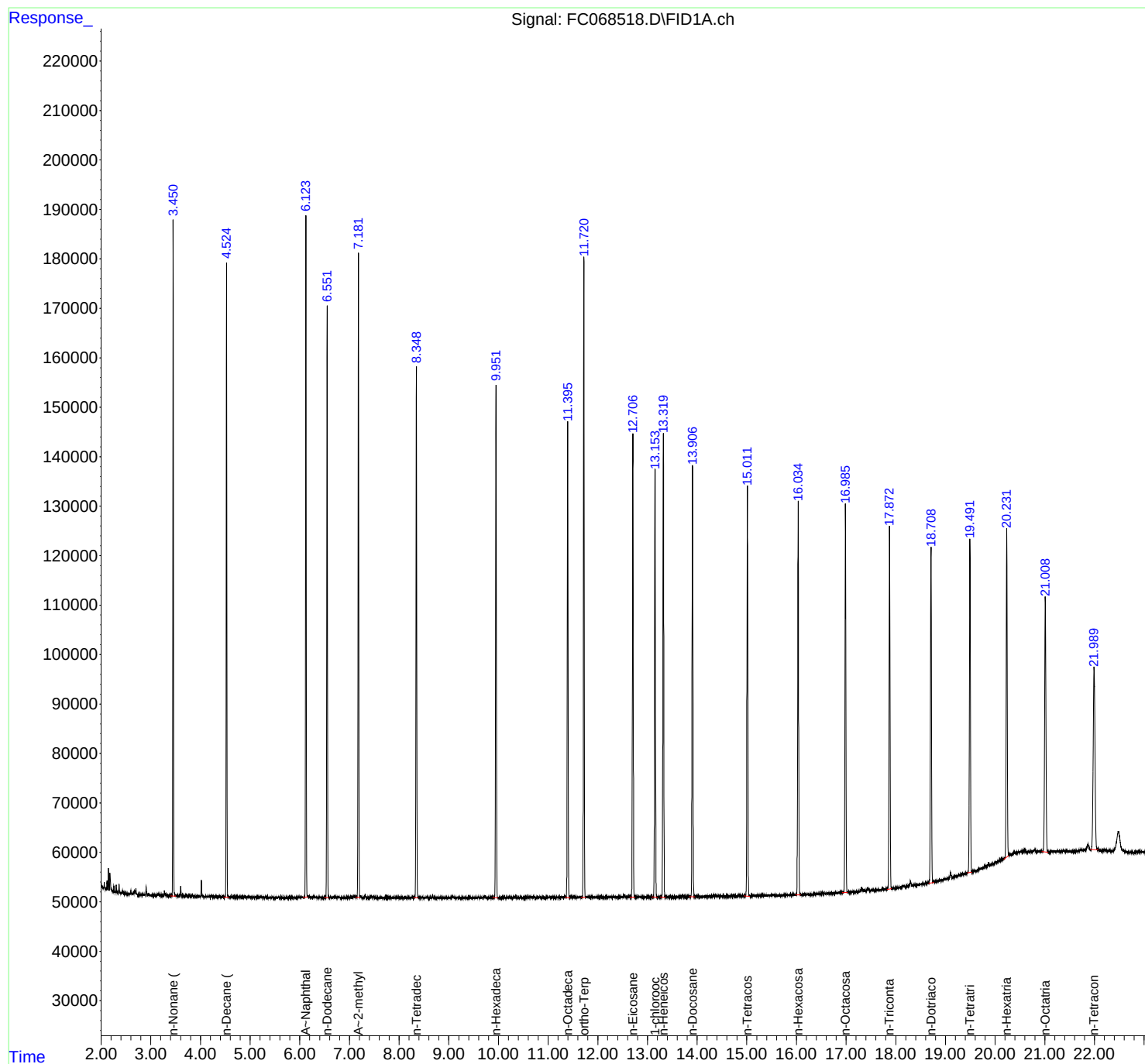
(m)=manual int.

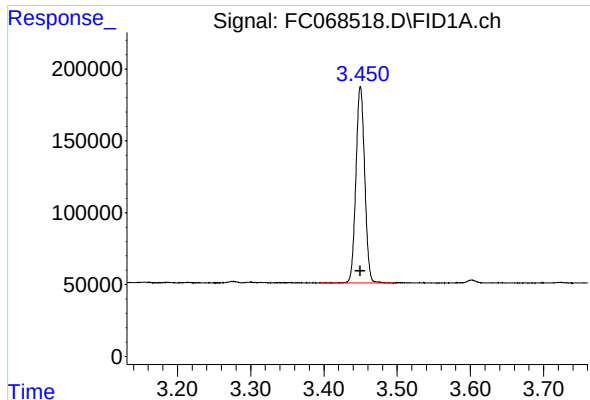
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
Data File : FC068518.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 16:12
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Apr 08 17:03:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:03:20 2025
Response via : Initial Calibration
Integrator: ChemStation

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

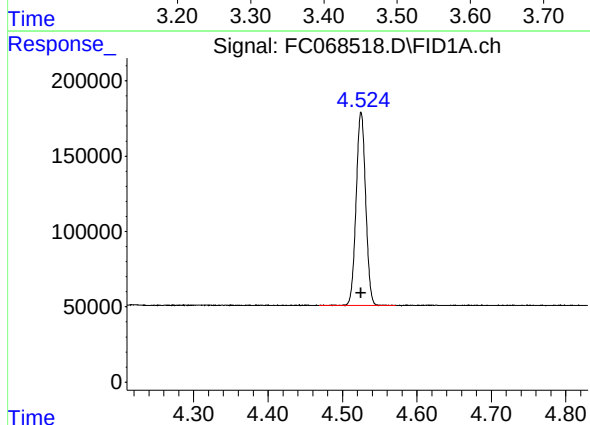




#1 n-Nonane (C9)

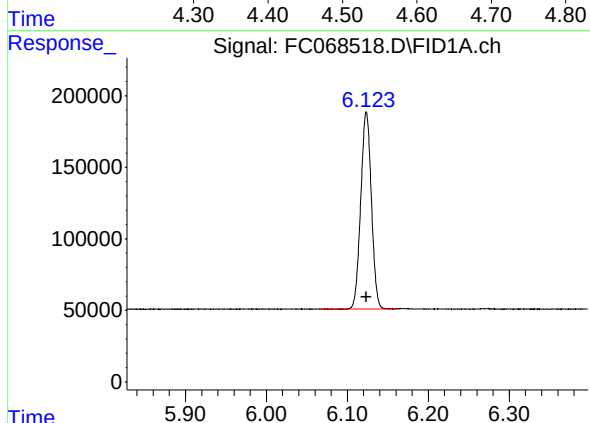
R.T.: 3.450 min
Delta R.T.: 0.000 min
Response: 1136561
Conc: 10.91 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



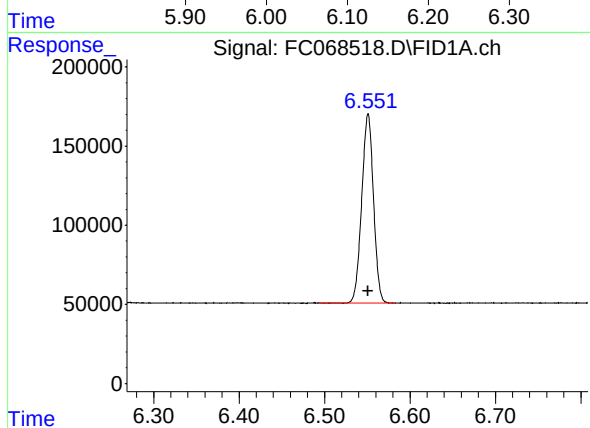
#2 n-Decane (C10)

R.T.: 4.525 min
Delta R.T.: 0.000 min
Response: 1140863
Conc: 10.94 ug/ml



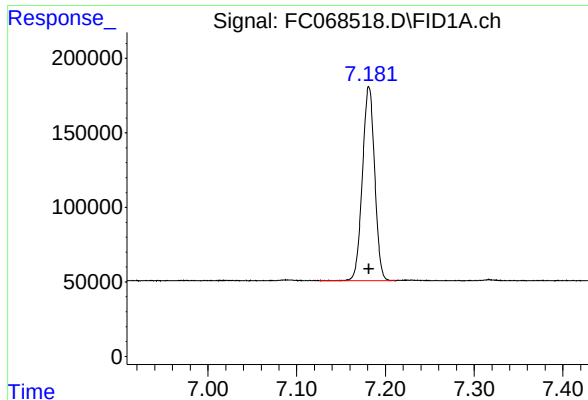
#3 A~Naphthalene (C11.7)

R.T.: 6.124 min
Delta R.T.: 0.000 min
Response: 1256563
Conc: 10.90 ug/ml



#4 n-Dodecane (C12)

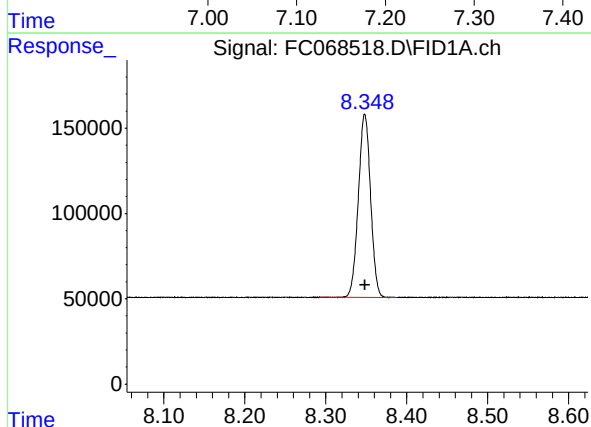
R.T.: 6.551 min
Delta R.T.: 0.000 min
Response: 1144968
Conc: 10.99 ug/ml



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

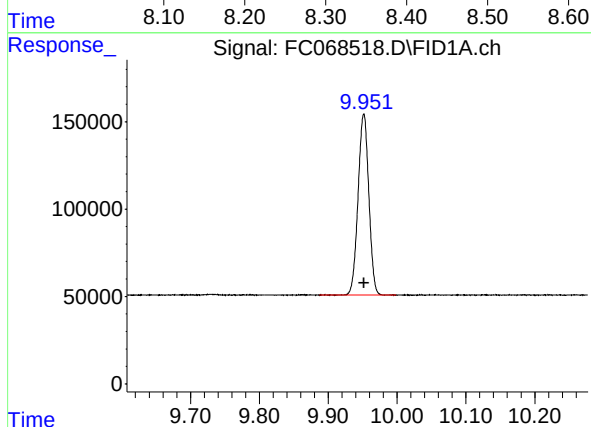
R.T.: 7.181 min
Delta R.T.: 0.000 min
Response: 1247891
Conc: 10.90 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



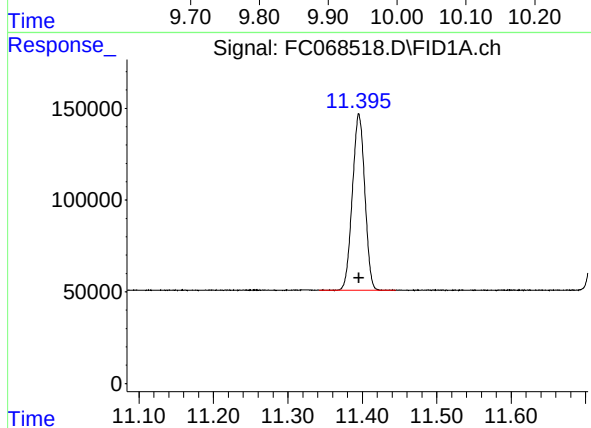
#6 n-Tetradecane (C14)

R.T.: 8.348 min
Delta R.T.: 0.000 min
Response: 1128652
Conc: 11.07 ug/ml



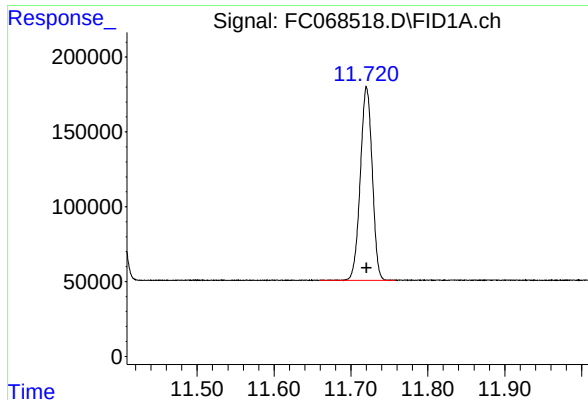
#7 n-Hexadecane (C16)

R.T.: 9.952 min
Delta R.T.: 0.000 min
Response: 1124488
Conc: 11.13 ug/ml



#8 n-Octadecane (C18)

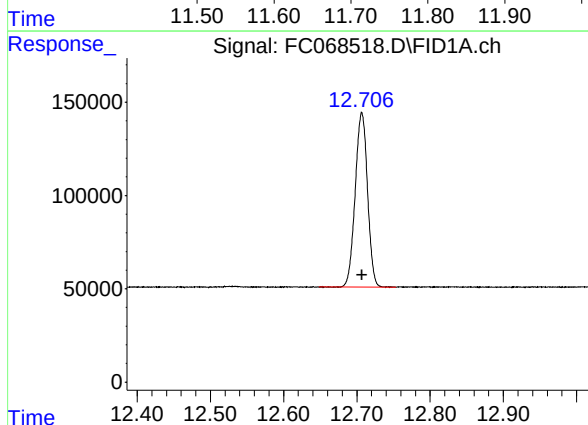
R.T.: 11.396 min
Delta R.T.: 0.000 min
Response: 1115425
Conc: 11.15 ug/ml



#9 ortho-Terphenyl (SURR)

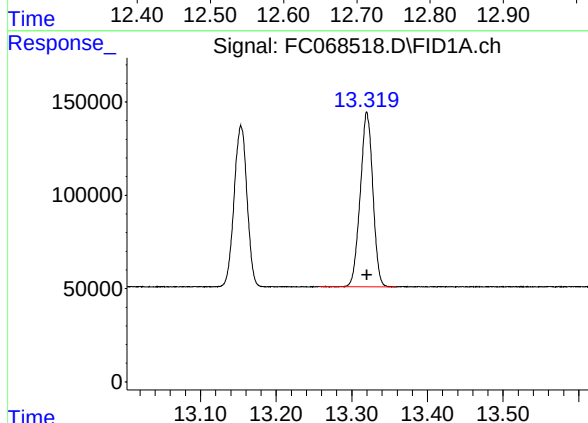
R.T.: 11.720 min
Delta R.T.: 0.000 min
Response: 1388282
Conc: 10.98 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



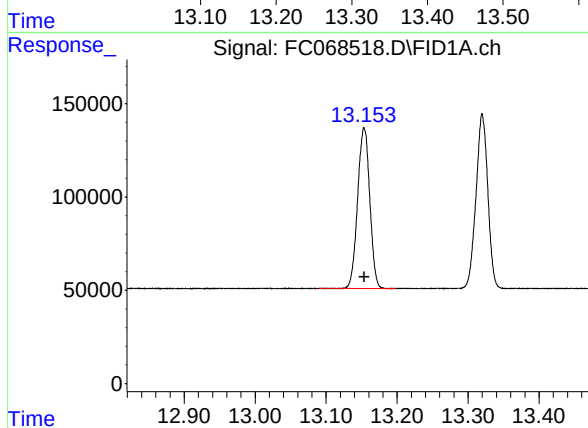
#10 n-Eicosane (C20)

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 1092518
Conc: 11.15 ug/ml



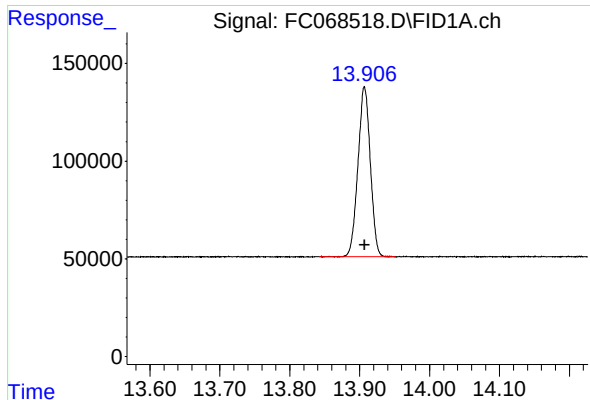
#11 n-Heneicosane (C21)

R.T.: 13.320 min
Delta R.T.: 0.000 min
Response: 1082284
Conc: 11.15 ug/ml



#12 1-chlorooctadecane (SURR)

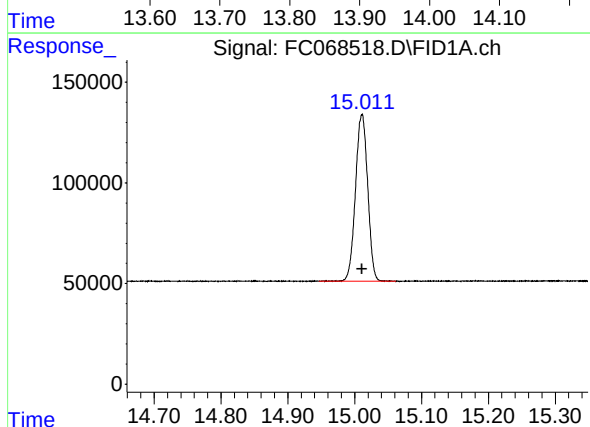
R.T.: 13.154 min
Delta R.T.: 0.000 min
Response: 1026505
Conc: 11.08 ug/ml



#13 n-Docosane (C22)

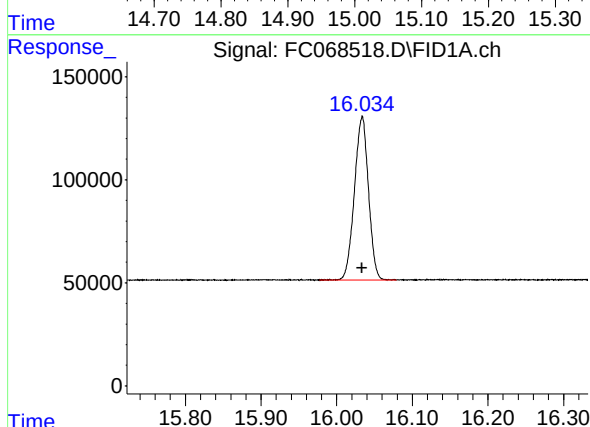
R.T.: 13.907 min
Delta R.T.: 0.000 min
Response: 1070404
Conc: 11.12 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



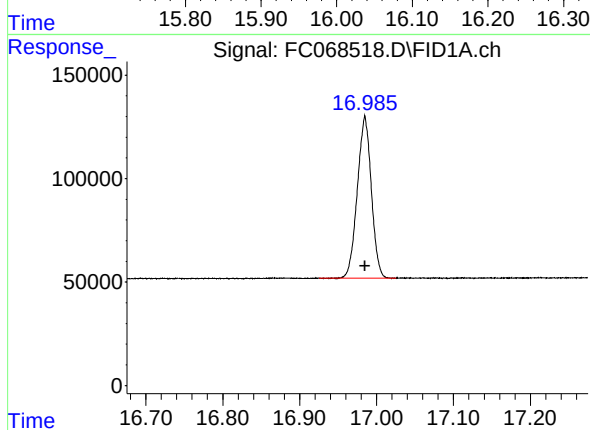
#14 n-Tetracosane (C24)

R.T.: 15.011 min
Delta R.T.: 0.000 min
Response: 1051523
Conc: 11.08 ug/ml



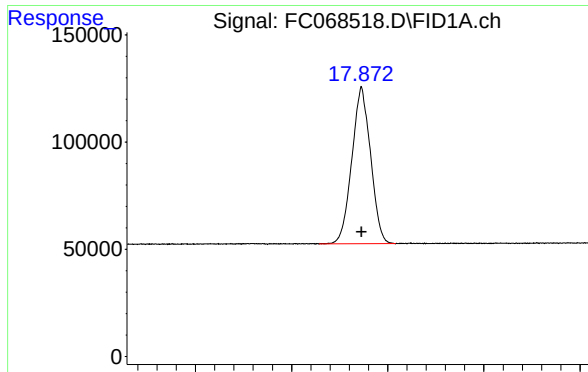
#15 n-Hexacosane (C26)

R.T.: 16.034 min
Delta R.T.: 0.000 min
Response: 1022441
Conc: 10.97 ug/ml



#16 n-Octacosane (C28)

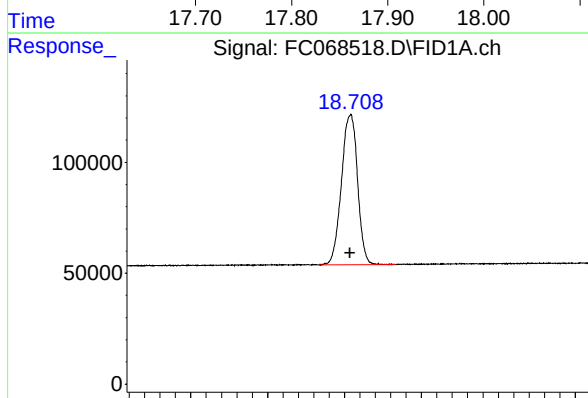
R.T.: 16.985 min
Delta R.T.: 0.000 min
Response: 993075
Conc: 10.89 ug/ml



#17 n-Tricontane (C30)

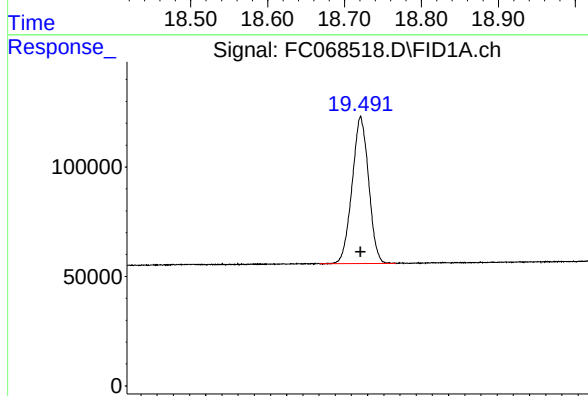
R.T.: 17.873 min
Delta R.T.: 0.000 min
Response: 990582
Conc: 10.83 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



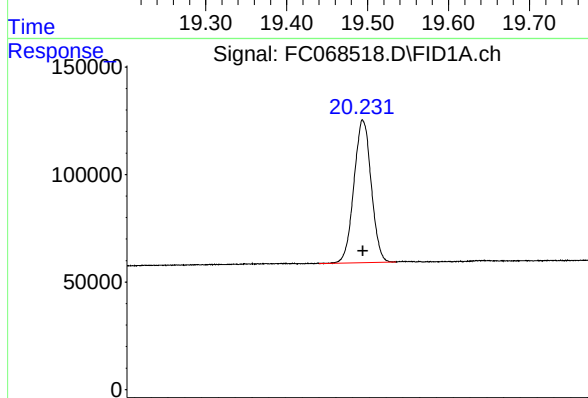
#18 n-Dotriacontane (C32)

R.T.: 18.707 min
Delta R.T.: 0.000 min
Response: 985052
Conc: 10.82 ug/ml



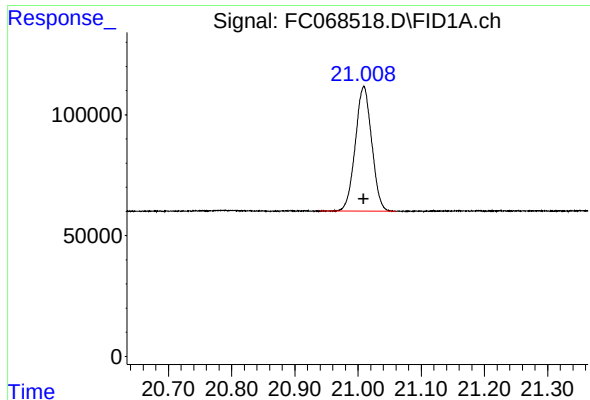
#19 n-Tetratriacontane (C34)

R.T.: 19.492 min
Delta R.T.: 0.000 min
Response: 949339
Conc: 10.71 ug/ml



#20 n-Hexatriacontane (C36)

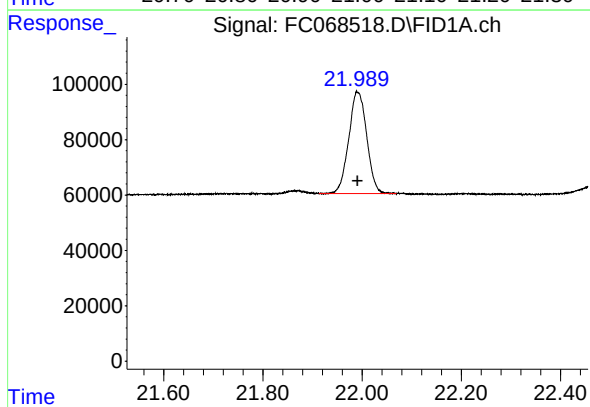
R.T.: 20.233 min
Delta R.T.: 0.000 min
Response: 947135
Conc: 10.65 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.009 min
Delta R.T.: 0.000 min
Response: 932368
Conc: 10.63 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.991 min
Delta R.T.: 0.000 min
Response: 924309
Conc: 10.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068518.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 16:12
 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 040925.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	3.450	3.393	3.498	BB	136592	1136561	81.87%	4.786%
2	4.525	4.468	4.572	BB	128280	1140863	82.18%	4.804%
3	6.124	6.065	6.160	BB	137899	1256563	90.51%	5.291%
4	6.551	6.493	6.583	BB	119252	1144968	82.47%	4.821%
5	7.181	7.125	7.212	BB	129998	1247891	89.89%	5.255%
6	8.348	8.292	8.387	BB	107295	1128652	81.30%	4.752%
7	9.952	9.887	9.998	BB	103764	1124488	81.00%	4.735%
8	11.396	11.342	11.445	BB	96197	1115425	80.35%	4.697%
9	11.720	11.658	11.758	BB	129278	1388282	100.00%	5.846%
10	12.707	12.648	12.753	BB	93709	1092518	78.70%	4.600%
11	13.154	13.090	13.198	BB	86387	1026505	73.94%	4.322%
12	13.320	13.257	13.358	BB	93486	1082284	77.96%	4.557%
13	13.907	13.842	13.952	BB	86937	1070404	77.10%	4.507%
14	15.011	14.947	15.062	BB	82738	1051523	75.74%	4.428%
15	16.034	15.990	16.078	BB	79228	1020144	73.48%	4.296%
16	16.985	16.925	17.025	BB	78376	993075	71.53%	4.182%
17	17.873	17.828	17.908	BB	73117	990582	71.35%	4.171%
18	18.707	18.667	18.767	BB	67397	985052	70.95%	4.148%
19	19.492	19.440	19.535	BB	67160	949339	68.38%	3.997%
20	20.233	20.180	20.272	BB	66319	947135	68.22%	3.988%
21	21.009	20.938	21.060	BB	51593	932368	67.16%	3.926%
22	21.991	21.913	22.068	BB	36350	924309	66.58%	3.892%
Sum of corrected areas:							23748929	

Aliphatic EPH 040925.M Wed Apr 09 02:03:17 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068519.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 16:48
 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: Apr 08 17:30:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:30:46 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)	11.719	654057	5.136 ug/ml
Spiked Amount 50.000		Recovery =	10.27%
12) S 1-chlorooctadecane (S...	13.152	470010	5.060 ug/ml
Spiked Amount 50.000		Recovery =	10.12%
Target Compounds			
1) T n-Nonane (C9)	3.449	550187	5.224 ug/ml
2) T n-Decane (C10)	4.525	549045	5.211 ug/ml
3) T A~Naphthalene (C11.7)	6.124	606085	5.204 ug/ml
4) T n-Dodecane (C12)	6.550	546064	5.193 ug/ml
5) T A~2-methylnaphthalene...	7.181	598007	5.178 ug/ml
6) T n-Tetradecane (C14)	8.348	531626	5.171 ug/ml
7) T n-Hexadecane (C16)	9.951	524477	5.150 ug/ml
8) T n-Octadecane (C18)	11.395	515183	5.119 ug/ml
10) T n-Eicosane (C20)	12.706	498787	5.071 ug/ml
11) T n-Heneicosane (C21)	13.318	495018	5.079 ug/ml
13) T n-Docosane (C22)	13.905	490416	5.077 ug/ml
14) T n-Tetracosane (C24)	15.010	482111	5.065 ug/ml
15) T n-Hexacosane (C26)	16.032	471652	5.050 ug/ml
16) T n-Octacosane (C28)	16.984	464643	5.075 ug/ml
17) T n-Tricontane (C30)	17.871	469479	5.107 ug/ml
18) T n-Dotriacontane (C32)	18.706	471859	5.144 ug/ml
19) T n-Tetratriacontane (C34)	19.492	460798	5.158 ug/ml
20) T n-Hexatriacontane (C36)	20.232	461012	5.146 ug/ml
21) T n-Octatriacontane (C38)	21.009	455897	5.156 ug/ml
22) T n-Tetracontane (C40)	21.989	457120	5.177 ug/ml

(f)=RT Delta > 1/2 Window

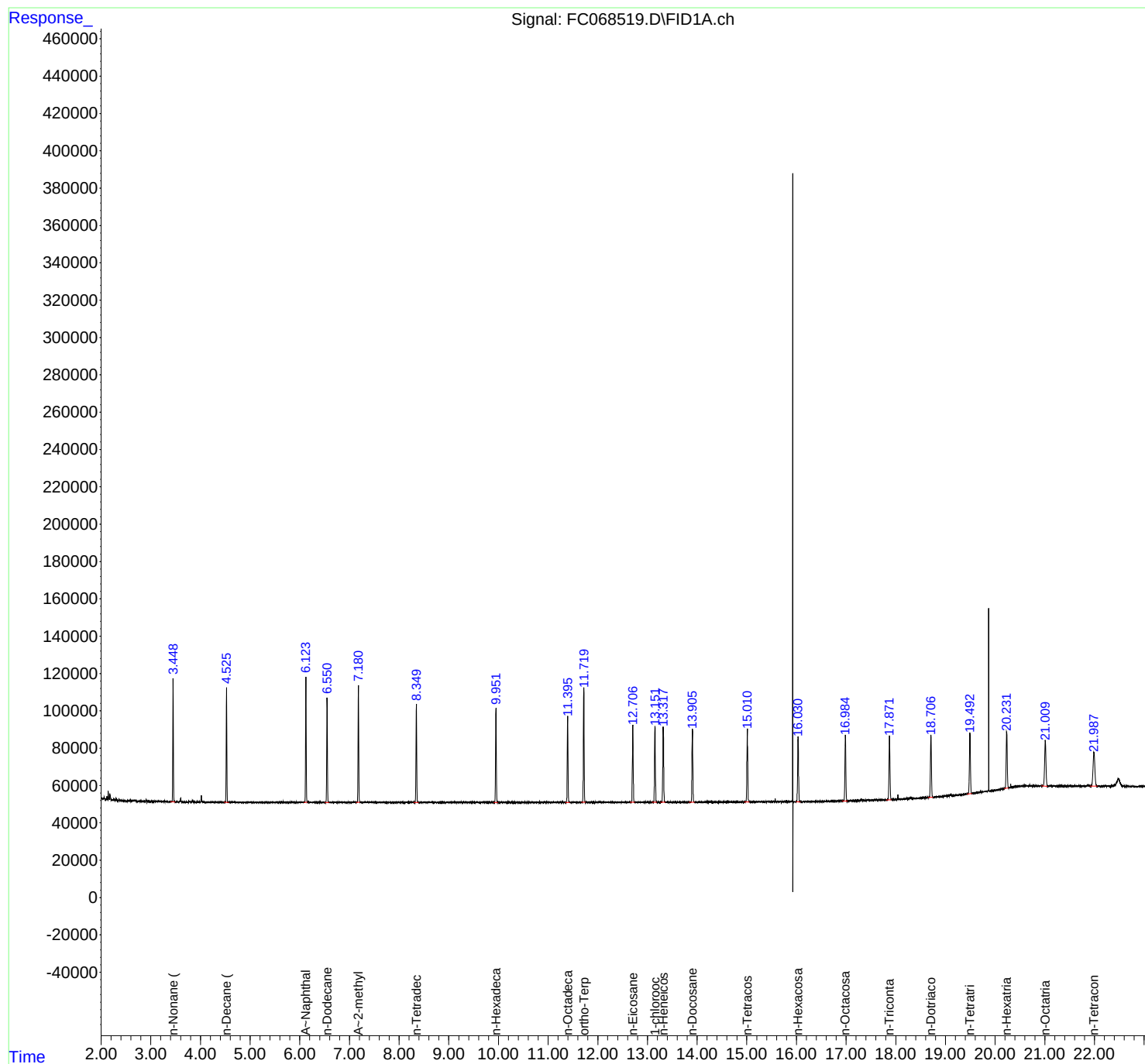
(m)=manual int.

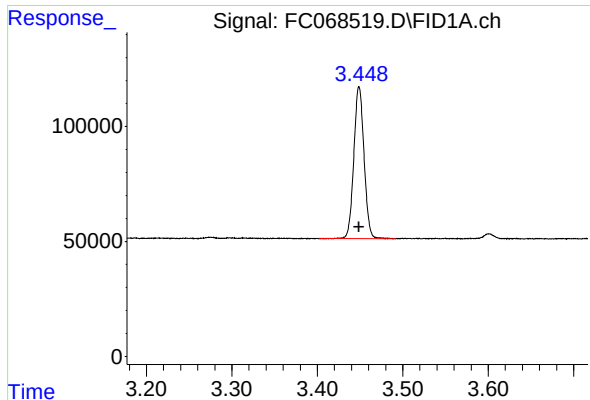
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
Data File : FC068519.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 16:48
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Apr 08 17:30:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:30:46 2025
Response via : Initial Calibration
Integrator: ChemStation

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

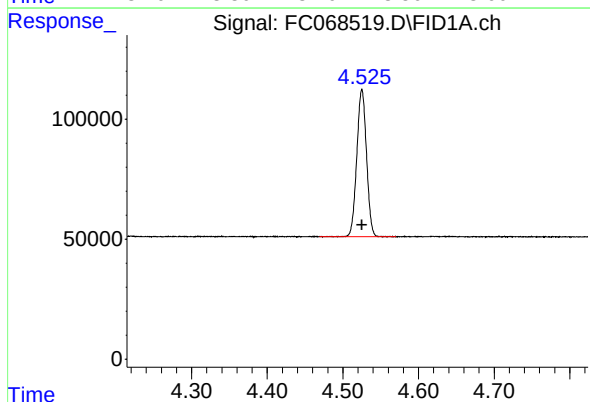




#1 n-Nonane (C9)

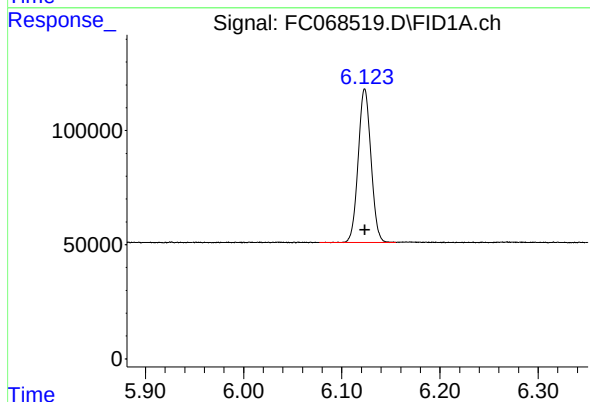
R.T.: 3.449 min
Delta R.T.: 0.000 min
Response: 550187
Conc: 5.22 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



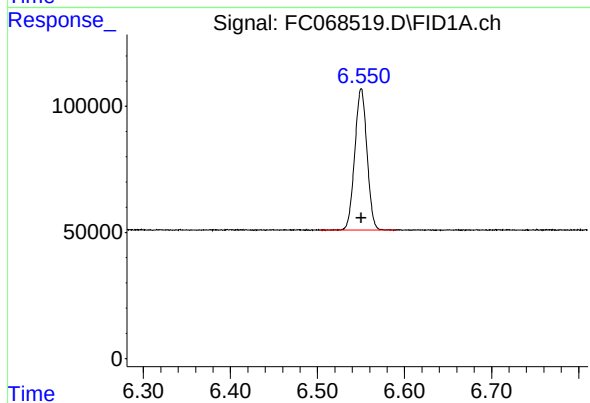
#2 n-Decane (C10)

R.T.: 4.525 min
Delta R.T.: 0.000 min
Response: 549045
Conc: 5.21 ug/ml



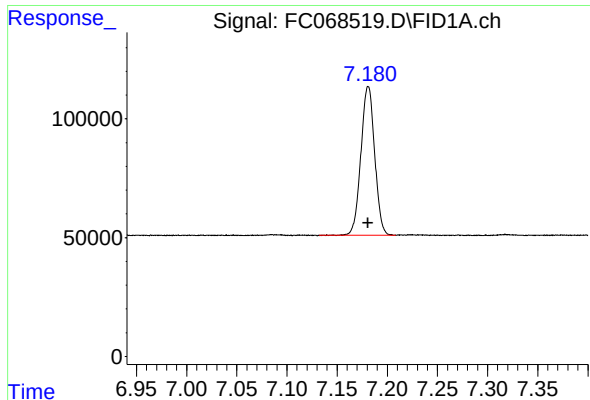
#3 A~Naphthalene (C11.7)

R.T.: 6.124 min
Delta R.T.: 0.000 min
Response: 606085
Conc: 5.20 ug/ml



#4 n-Dodecane (C12)

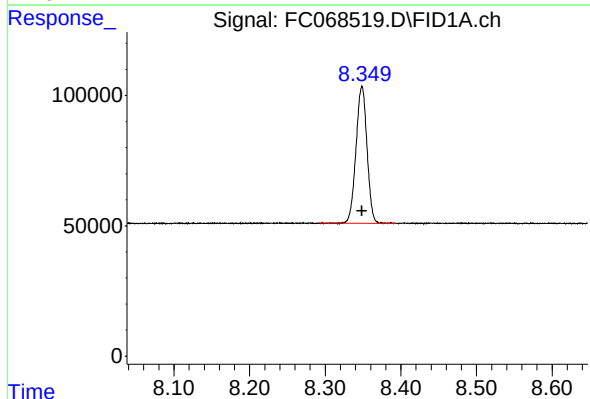
R.T.: 6.550 min
Delta R.T.: 0.000 min
Response: 546064
Conc: 5.19 ug/ml



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

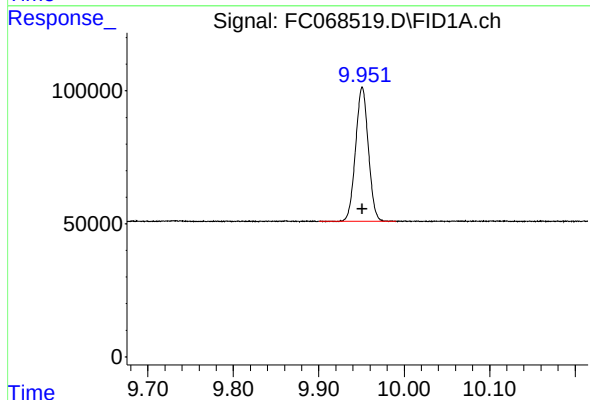
R.T.: 7.181 min
Delta R.T.: 0.000 min
Response: 598007
Conc: 5.18 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



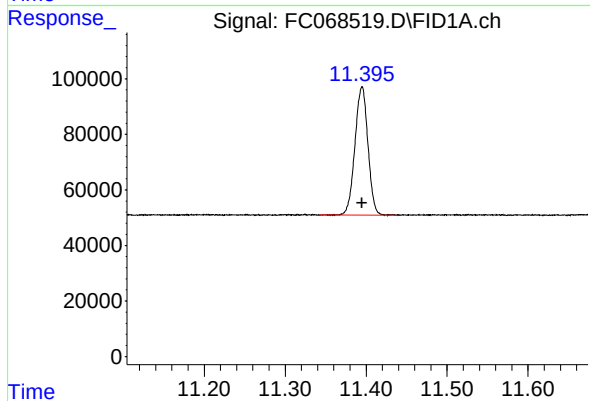
#6 n-Tetradecane (C14)

R.T.: 8.348 min
Delta R.T.: 0.000 min
Response: 531626
Conc: 5.17 ug/ml



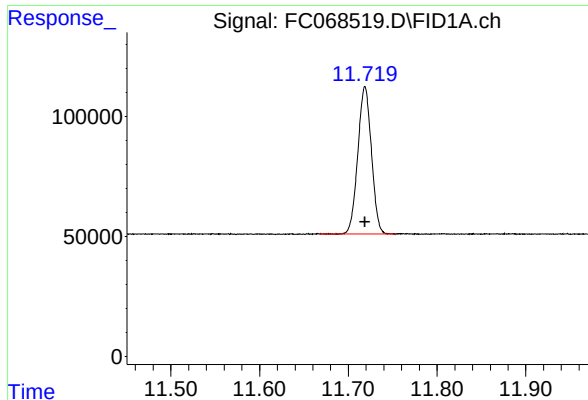
#7 n-Hexadecane (C16)

R.T.: 9.951 min
Delta R.T.: 0.000 min
Response: 524477
Conc: 5.15 ug/ml



#8 n-Octadecane (C18)

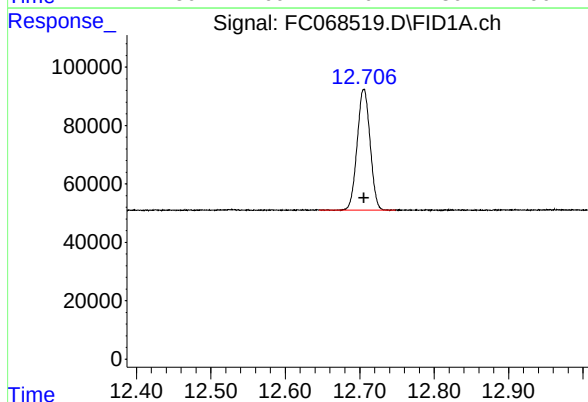
R.T.: 11.395 min
Delta R.T.: 0.000 min
Response: 515183
Conc: 5.12 ug/ml



#9 ortho-Terphenyl (SURR)

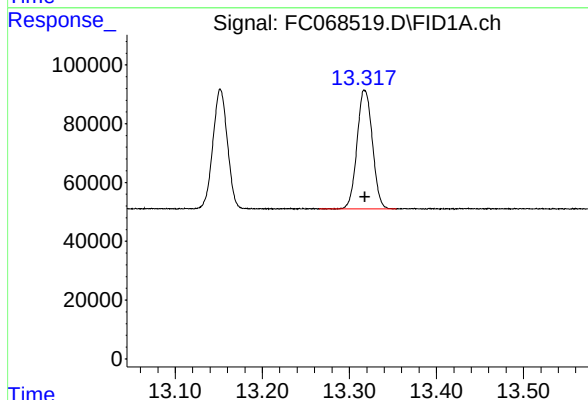
R.T.: 11.719 min
Delta R.T.: 0.000 min
Response: 654057
Conc: 5.14 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



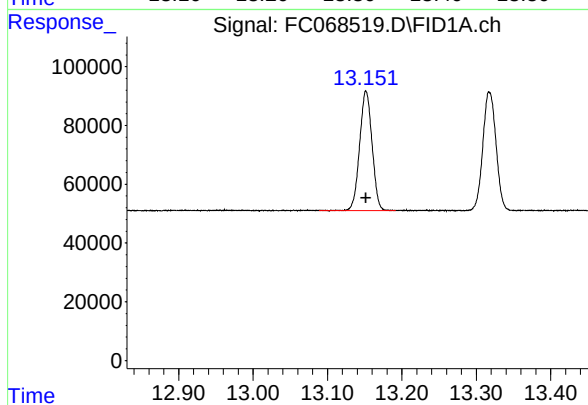
#10 n-Eicosane (C20)

R.T.: 12.706 min
Delta R.T.: 0.000 min
Response: 498787
Conc: 5.07 ug/ml



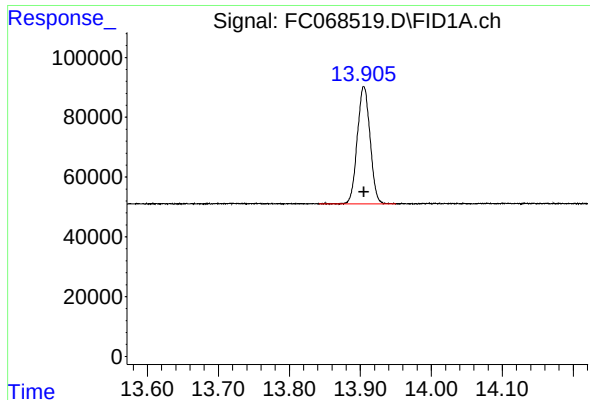
#11 n-Heneicosane (C21)

R.T.: 13.318 min
Delta R.T.: 0.000 min
Response: 495018
Conc: 5.08 ug/ml



#12 1-chlorooctadecane (SURR)

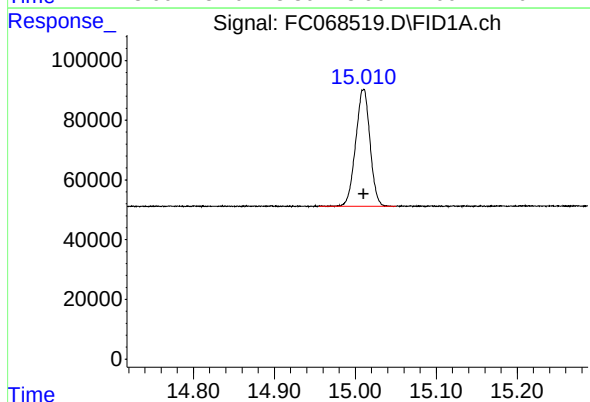
R.T.: 13.152 min
Delta R.T.: 0.000 min
Response: 470010
Conc: 5.06 ug/ml



#13 n-Docosane (C22)

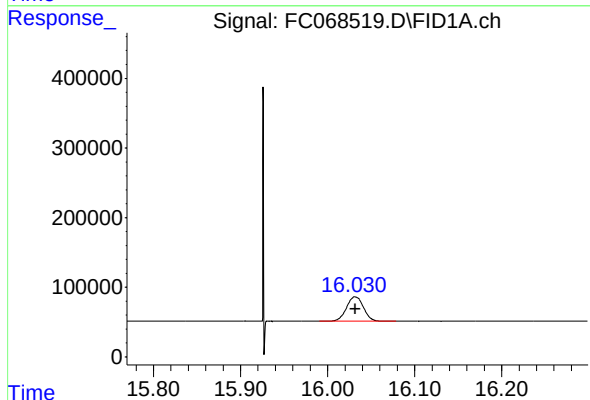
R.T.: 13.905 min
Delta R.T.: 0.000 min
Response: 490416
Conc: 5.08 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



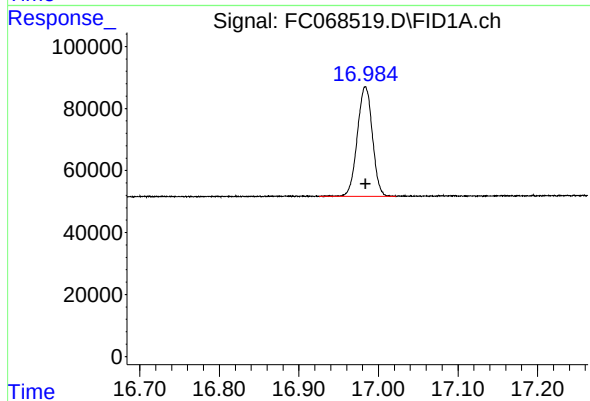
#14 n-Tetracosane (C24)

R.T.: 15.010 min
Delta R.T.: 0.000 min
Response: 482111
Conc: 5.07 ug/ml



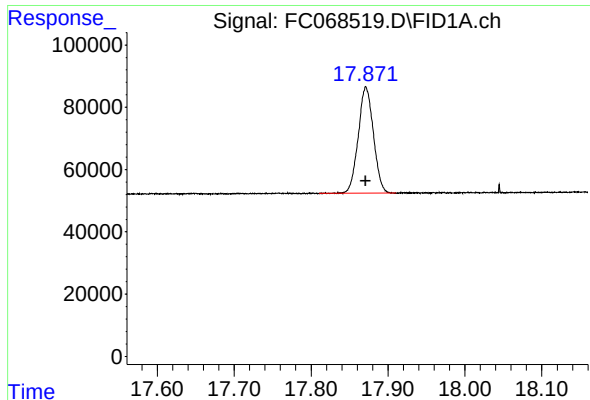
#15 n-Hexacosane (C26)

R.T.: 16.032 min
Delta R.T.: 0.000 min
Response: 471652
Conc: 5.05 ug/ml



#16 n-Octacosane (C28)

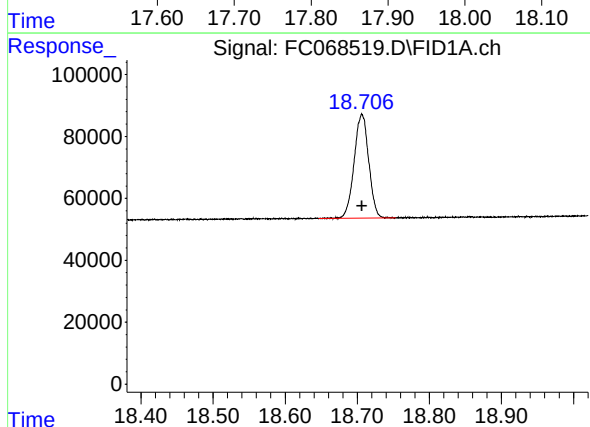
R.T.: 16.984 min
Delta R.T.: 0.000 min
Response: 464643
Conc: 5.07 ug/ml



#17 n-Tricontane (C30)

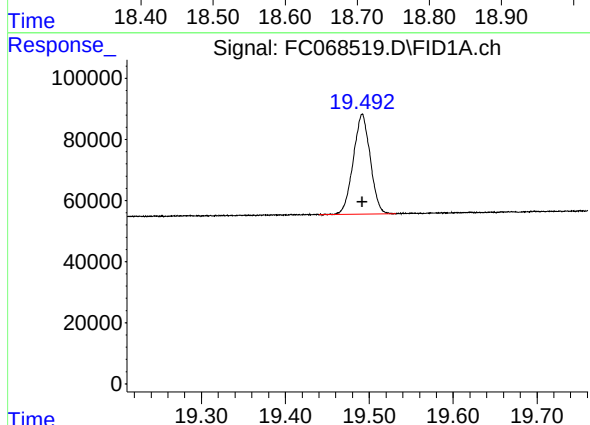
R.T.: 17.871 min
Delta R.T.: 0.000 min
Response: 469479
Conc: 5.11 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



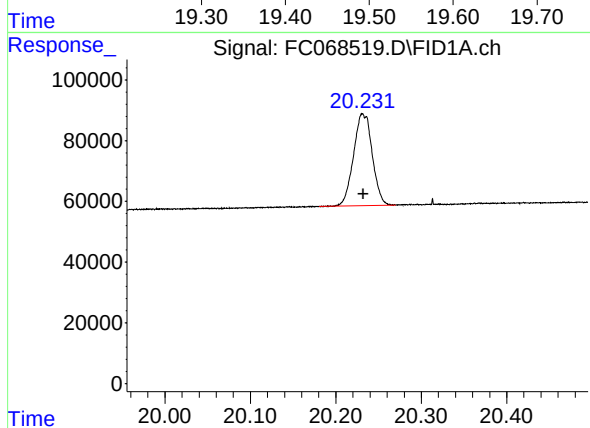
#18 n-Dotriacontane (C32)

R.T.: 18.706 min
Delta R.T.: 0.000 min
Response: 471859
Conc: 5.14 ug/ml



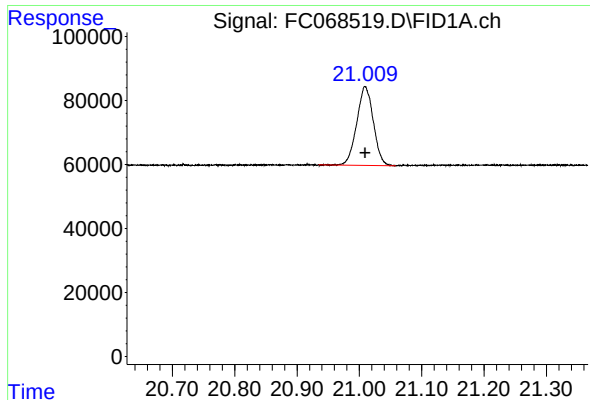
#19 n-Tetatriacontane (C34)

R.T.: 19.492 min
Delta R.T.: 0.000 min
Response: 460798
Conc: 5.16 ug/ml



#20 n-Hexatriacontane (C36)

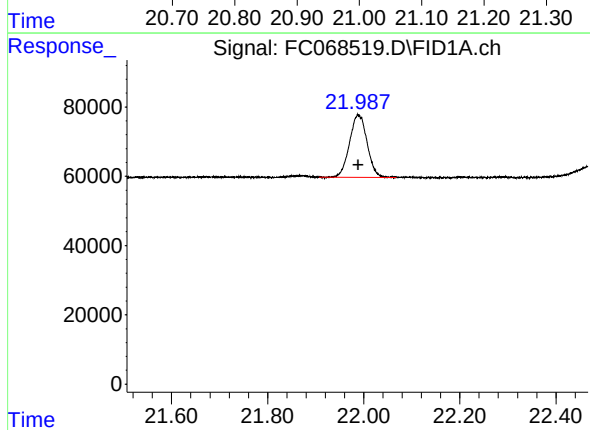
R.T.: 20.232 min
Delta R.T.: 0.000 min
Response: 461012
Conc: 5.15 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.009 min
Delta R.T.: 0.000 min
Response: 455897
Conc: 5.16 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.989 min
Delta R.T.: 0.000 min
Response: 457120
Conc: 5.18 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068519.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 16:48
 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 040925.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	3.449	3.402	3.492	BB	66232	550187	84.12%	4.902%
2	4.525	4.469	4.570	BB	61433	549045	83.94%	4.892%
3	6.124	6.077	6.155	BB	67157	606085	92.67%	5.400%
4	6.550	6.502	6.590	BB	56117	546064	83.49%	4.865%
5	7.181	7.132	7.209	BB	62637	598007	91.43%	5.328%
6	8.348	8.292	8.394	BB	52506	531626	81.28%	4.737%
7	9.951	9.900	9.990	BB	50448	524477	80.19%	4.673%
8	11.395	11.342	11.437	BB	46359	515183	78.77%	4.590%
9	11.719	11.667	11.754	BB	61429	654057	100.00%	5.828%
10	12.706	12.645	12.749	BB	41337	498787	76.26%	4.444%
11	13.152	13.089	13.192	BB	40685	470010	71.86%	4.188%
12	13.318	13.265	13.354	BB	40194	495018	75.68%	4.411%
13	13.905	13.842	13.950	BB	39220	490416	74.98%	4.370%
14	15.010	14.955	15.050	BB	39129	482111	73.71%	4.296%
15	16.032	15.990	16.079	BB	34767	471652	72.11%	4.202%
16	16.984	16.925	17.022	BB	35366	464643	71.04%	4.140%
17	17.871	17.810	17.910	BB	34125	469479	71.78%	4.183%
18	18.706	18.647	18.754	BB	33576	471859	72.14%	4.204%
19	19.492	19.440	19.532	BB	32784	460798	70.45%	4.106%
20	20.232	20.180	20.270	BB	30000	461012	70.48%	4.108%
21	21.009	20.935	21.059	BB	24672	455897	69.70%	4.062%
22	21.989	21.907	22.067	BB	17907	457120	69.89%	4.073%
Sum of corrected areas:							11223533	

Aliphatic EPH 040925.M Wed Apr 09 02:04:09 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068520.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 17:26
 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: Apr 08 18:06:14 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.722	2509889	19.710 ug/ml
Spiked Amount 50.000		Recovery =	39.42%
12) S 1-chlorooctadecane (S...	13.154	1813783	19.525 ug/ml
Spiked Amount 50.000		Recovery =	39.05%
Target Compounds			
1) T n-Nonane (C9)	3.450	2152986	20.442 ug/ml
2) T n-Decane (C10)	4.526	2151620	20.422 ug/ml
3) T A~Naphthalene (C11.7)	6.124	2370053	20.351 ug/ml
4) T n-Dodecane (C12)	6.551	2138499	20.335 ug/ml
5) T A~2-methylnaphthalene...	7.182	2340318	20.263 ug/ml
6) T n-Tetradecane (C14)	8.349	2073539	20.170 ug/ml
7) T n-Hexadecane (C16)	9.952	2031391	19.947 ug/ml
8) T n-Octadecane (C18)	11.397	1983646	19.712 ug/ml
10) T n-Eicosane (C20)	12.708	1924584	19.567 ug/ml
11) T n-Heneicosane (C21)	13.322	1900069	19.497 ug/ml
13) T n-Docosane (C22)	13.908	1874678	19.408 ug/ml
14) T n-Tetracosane (C24)	15.012	1840193	19.333 ug/ml
15) T n-Hexacosane (C26)	16.035	1805920	19.334 ug/ml
16) T n-Octacosane (C28)	16.986	1775159	19.388 ug/ml
17) T n-Tricontane (C30)	17.874	1789949	19.470 ug/ml
18) T n-Dotriacontane (C32)	18.709	1790701	19.522 ug/ml
19) T n-Tetratriacontane (C34)	19.494	1754814	19.642 ug/ml
20) T n-Hexatriacontane (C36)	20.234	1766416	19.719 ug/ml
21) T n-Octatriacontane (C38)	21.013	1737168	19.648 ug/ml
22) T n-Tetracontane (C40)	21.995	1737661	19.678 ug/ml

(f)=RT Delta > 1/2 Window

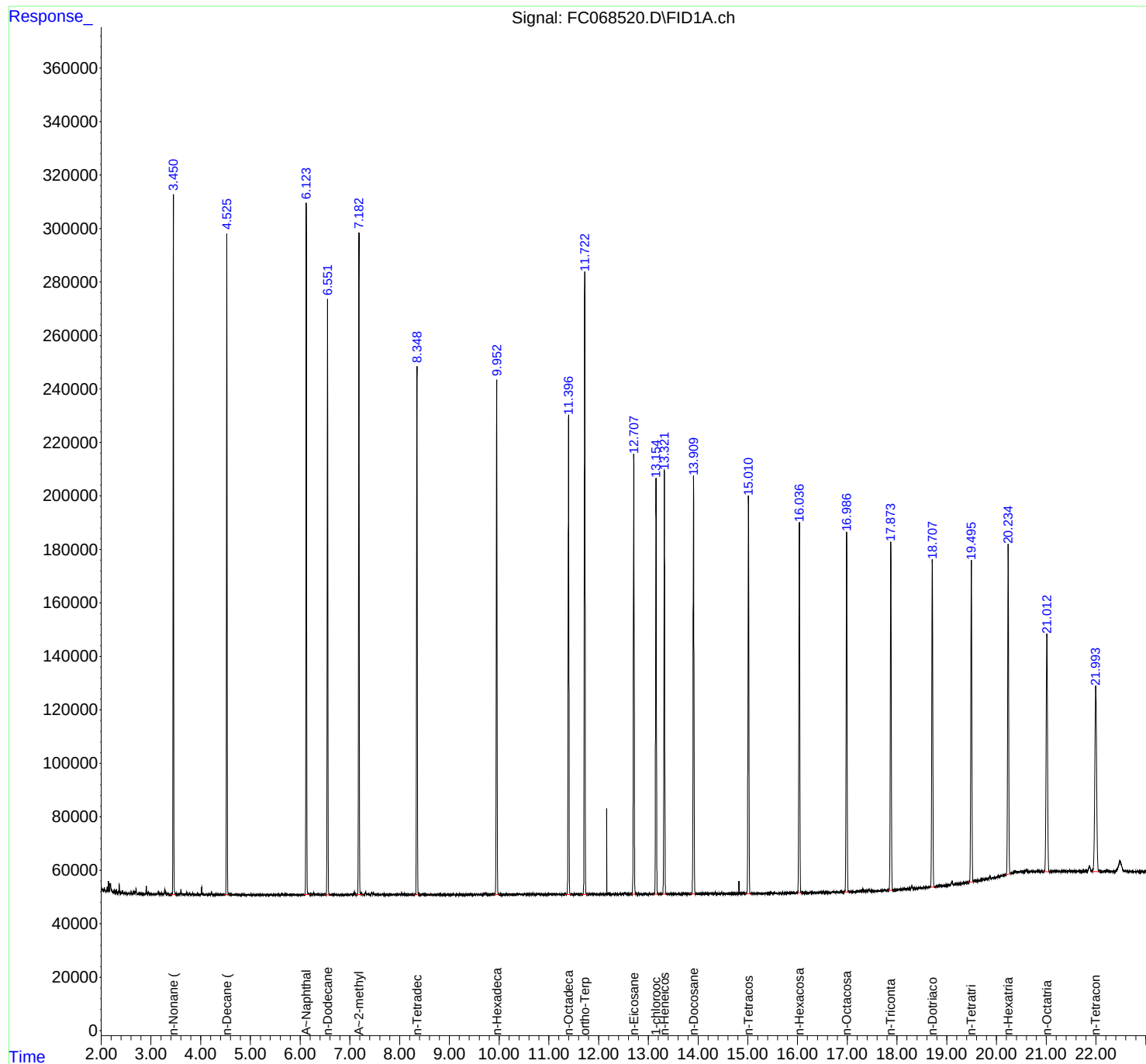
(m)=manual int.

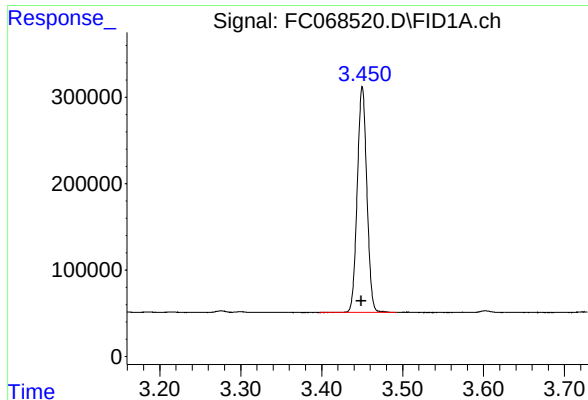
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
Data File : FC068520.D
Signal(s) : FID1A.ch
Acq On : 08 Apr 2025 17:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Apr 08 18:06:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 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)

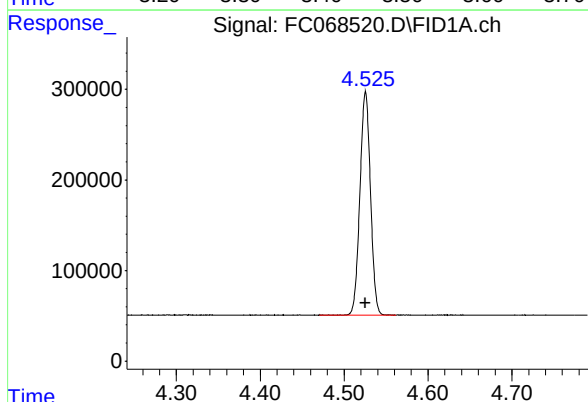
R.T.: 3.450 min
Delta R.T.: 0.001 min
Response: 2152986
Conc: 20.44 ug/ml

Instrument :

FID_C

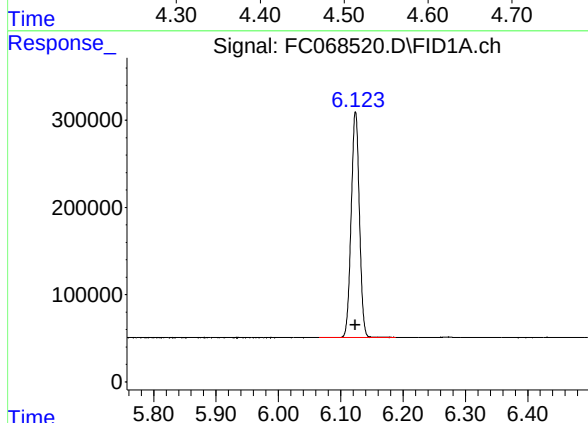
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



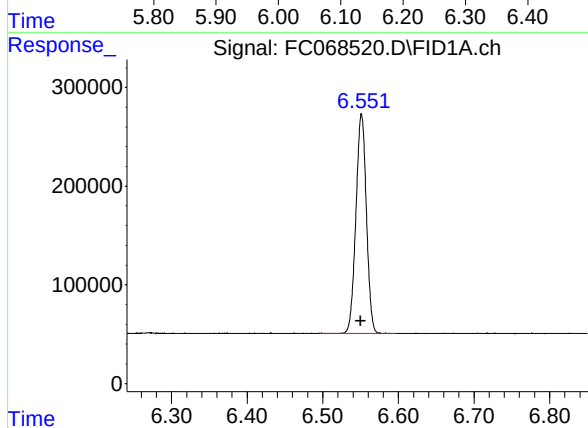
#2 n-Decane (C10)

R.T.: 4.526 min
Delta R.T.: 0.000 min
Response: 2151620
Conc: 20.42 ug/ml



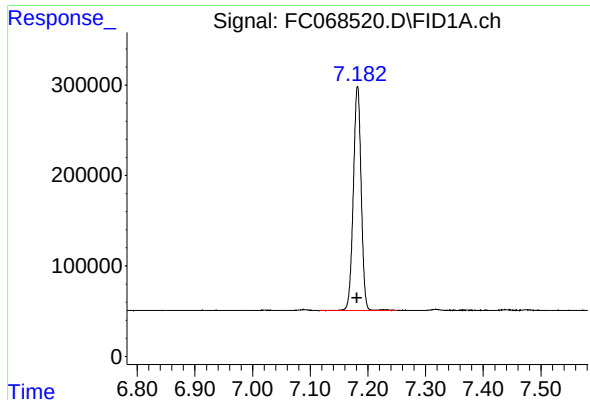
#3 A~Naphthalene (C11.7)

R.T.: 6.124 min
Delta R.T.: 0.000 min
Response: 2370053
Conc: 20.35 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.551 min
Delta R.T.: 0.000 min
Response: 2138499
Conc: 20.34 ug/ml



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

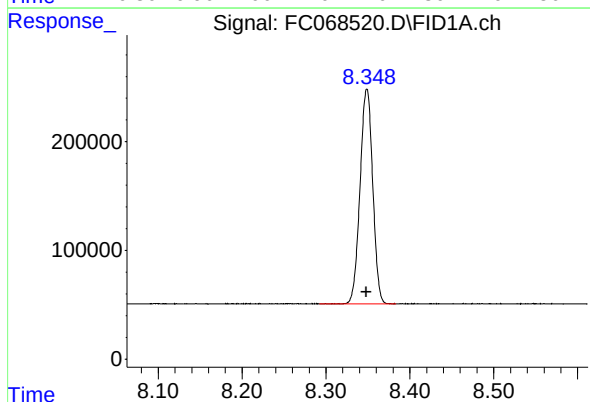
R.T.: 7.182 min
Delta R.T.: 0.001 min
Response: 2340318
Conc: 20.26 ug/ml

Instrument :

FID_C

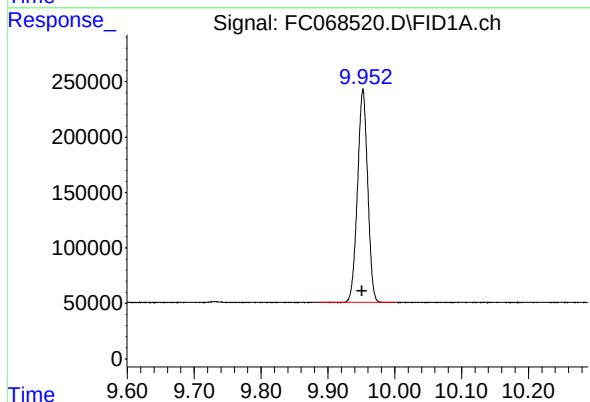
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



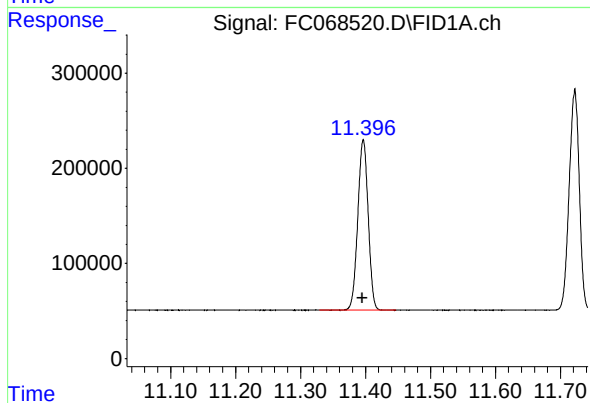
#6 n-Tetradecane (C14)

R.T.: 8.349 min
Delta R.T.: 0.000 min
Response: 2073539
Conc: 20.17 ug/ml



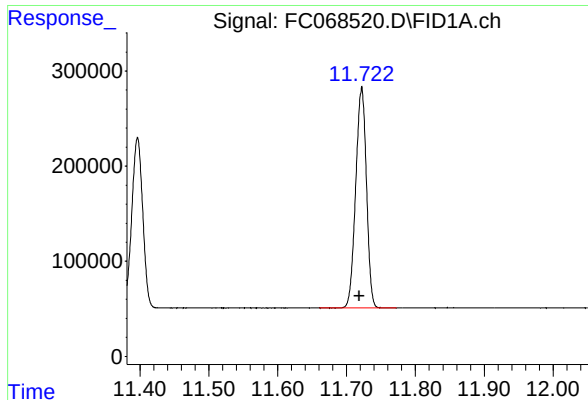
#7 n-Hexadecane (C16)

R.T.: 9.952 min
Delta R.T.: 0.001 min
Response: 2031391
Conc: 19.95 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.397 min
Delta R.T.: 0.002 min
Response: 1983646
Conc: 19.71 ug/ml



#9 ortho-Terphenyl (SURR)

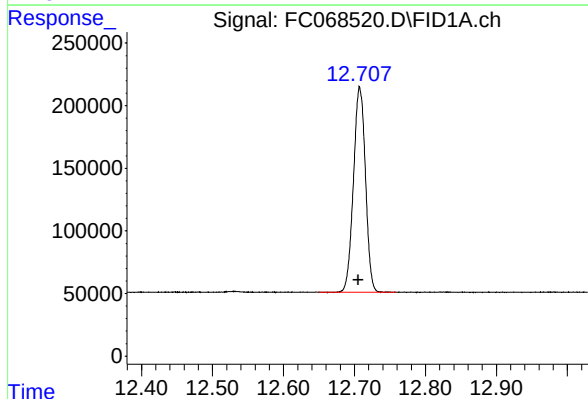
R.T.: 11.722 min
Delta R.T.: 0.003 min
Response: 2509889
Conc: 19.71 ug/ml

Instrument :

FID_C

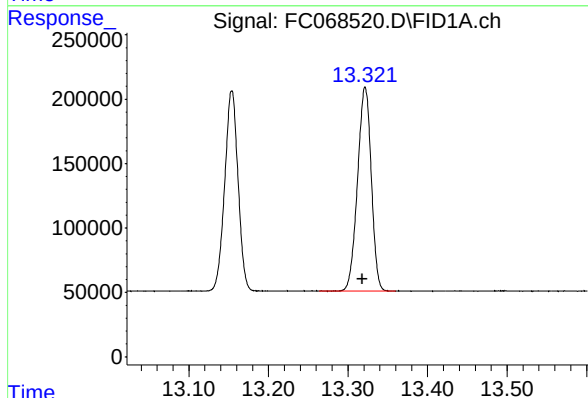
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



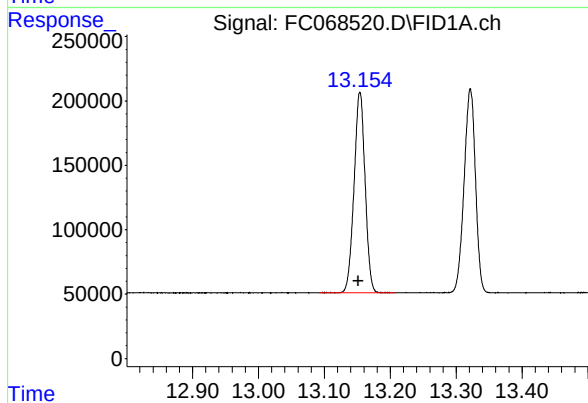
#10 n-Eicosane (C20)

R.T.: 12.708 min
Delta R.T.: 0.002 min
Response: 1924584
Conc: 19.57 ug/ml



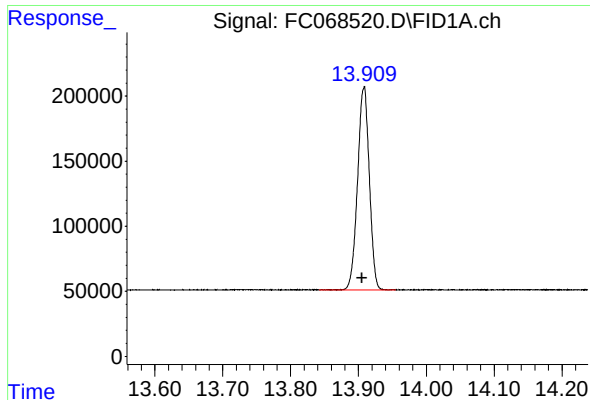
#11 n-Heneicosane (C21)

R.T.: 13.322 min
Delta R.T.: 0.004 min
Response: 1900069
Conc: 19.50 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.154 min
Delta R.T.: 0.002 min
Response: 1813783
Conc: 19.53 ug/ml



#13 n-Docosane (C22)

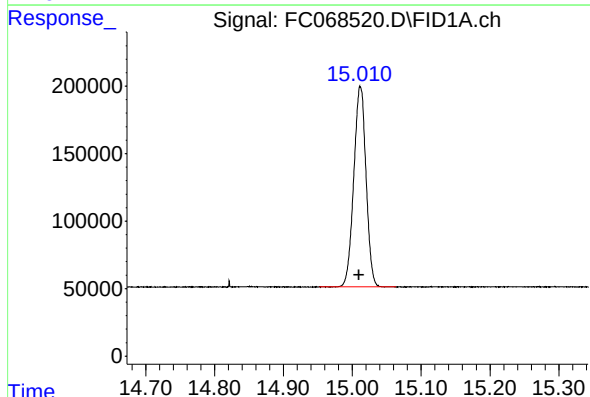
R.T.: 13.908 min
Delta R.T.: 0.003 min
Response: 1874678
Conc: 19.41 ug/ml

Instrument :

FID_C

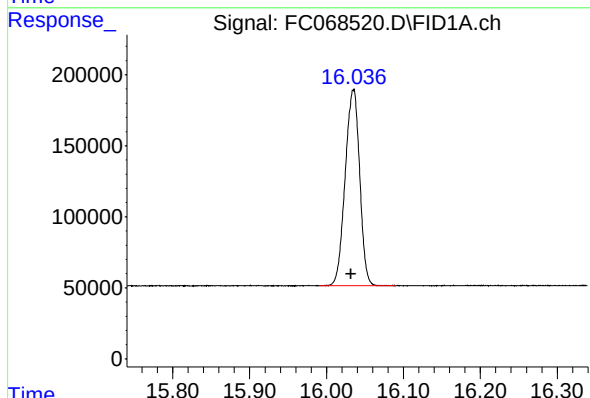
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



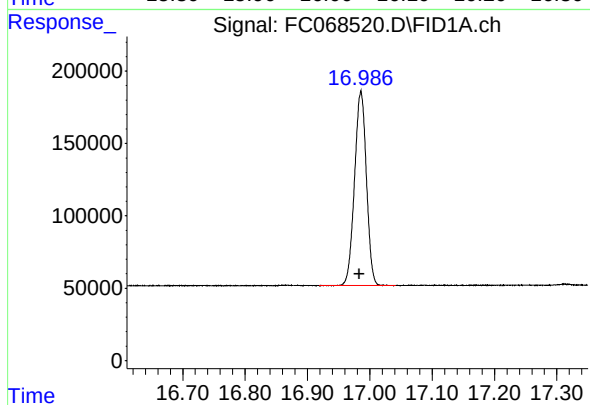
#14 n-Tetracosane (C24)

R.T.: 15.012 min
Delta R.T.: 0.002 min
Response: 1840193
Conc: 19.33 ug/ml



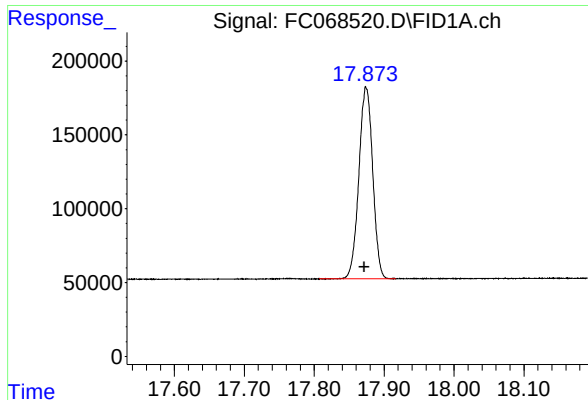
#15 n-Hexacosane (C26)

R.T.: 16.035 min
Delta R.T.: 0.003 min
Response: 1805920
Conc: 19.33 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.986 min
Delta R.T.: 0.002 min
Response: 1775159
Conc: 19.39 ug/ml



#17 n-Tricontane (C30)

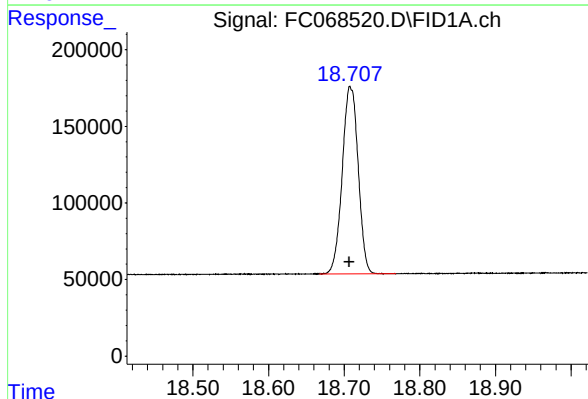
R.T.: 17.874 min
Delta R.T.: 0.003 min
Response: 1789949
Conc: 19.47 ug/ml

Instrument :

FID_C

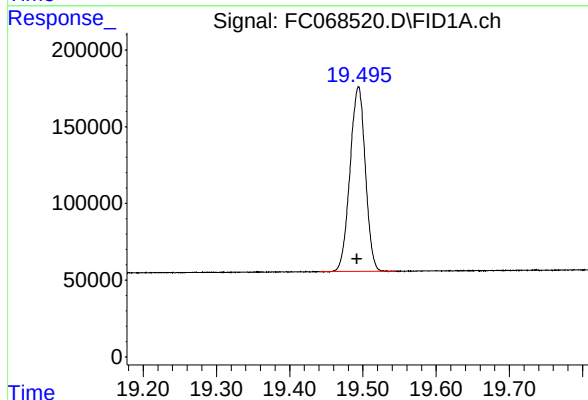
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



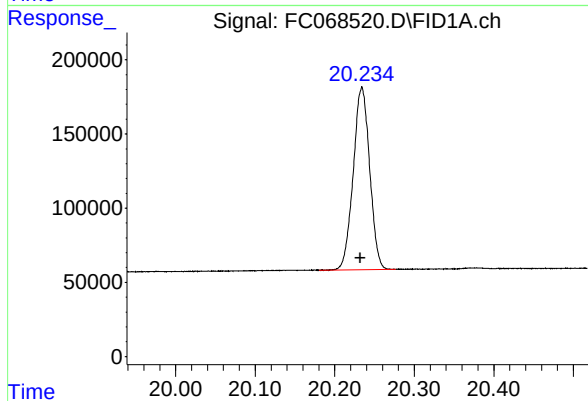
#18 n-Dotriacontane (C32)

R.T.: 18.709 min
Delta R.T.: 0.002 min
Response: 1790701
Conc: 19.52 ug/ml



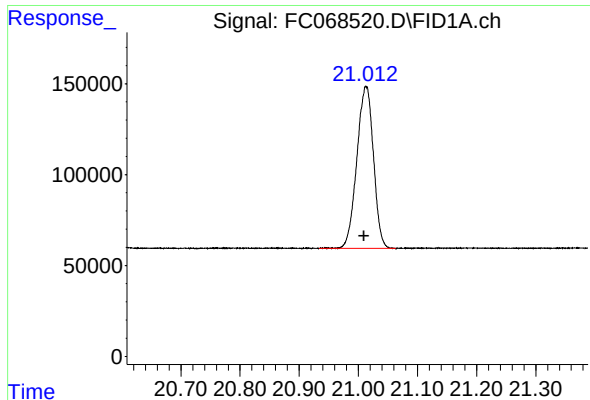
#19 n-Tetratriacontane (C34)

R.T.: 19.494 min
Delta R.T.: 0.002 min
Response: 1754814
Conc: 19.64 ug/ml



#20 n-Hexatriacontane (C36)

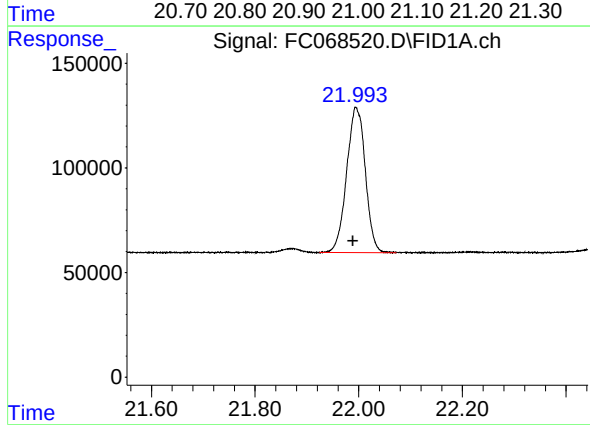
R.T.: 20.234 min
Delta R.T.: 0.002 min
Response: 1766416
Conc: 19.72 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.013 min
Delta R.T.: 0.004 min
Response: 1737168
Conc: 19.65 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.995 min
Delta R.T.: 0.006 min
Response: 1737661
Conc: 19.68 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC040925AL\
 Data File : FC068520.D
 Signal(s) : FID1A.ch
 Acq On : 08 Apr 2025 17:26
 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 040925.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	3.450	3.397	3.492	BV	261815	2152986	85.78%	4.977%
2	4.526	4.470	4.562	BB	246519	2151620	85.73%	4.973%
3	6.124	6.065	6.189	BB	259162	2370053	94.43%	5.478%
4	6.551	6.495	6.597	BB	221869	2138499	85.20%	4.943%
5	7.182	7.115	7.249	BB	248160	2340318	93.24%	5.410%
6	8.349	8.292	8.384	BB	197952	2073539	82.61%	4.793%
7	9.952	9.887	10.002	BB	191548	2031391	80.94%	4.695%
8	11.397	11.329	11.447	BB	179415	1983646	79.03%	4.585%
9	11.722	11.660	11.772	BB	230868	2509889	100.00%	5.801%
10	12.708	12.650	12.759	BB	163927	1924584	76.68%	4.449%
11	13.154	13.092	13.209	BB	155654	1813783	72.27%	4.192%
12	13.322	13.264	13.360	BB	158466	1900069	75.70%	4.392%
13	13.908	13.842	13.955	BB	156193	1874678	74.69%	4.333%
14	15.012	14.952	15.064	BB	148360	1840193	73.32%	4.254%
15	16.035	15.990	16.090	BB	138007	1805920	71.95%	4.174%
16	16.986	16.919	17.042	BB	133594	1775159	70.73%	4.103%
17	17.874	17.807	17.917	BB	130326	1789949	71.32%	4.137%
18	18.709	18.667	18.769	BB	121479	1790701	71.35%	4.139%
19	19.494	19.440	19.545	BB	120222	1754814	69.92%	4.056%
20	20.234	20.180	20.277	BB	122561	1766416	70.38%	4.083%
21	21.013	20.934	21.064	BB	88867	1737168	69.21%	4.015%
22	21.995	21.924	22.072	BB	69207	1737661	69.23%	4.017%
Sum of corrected areas:							43263036	

Aliphatic EPH 040925.M Wed Apr 09 02:04:39 2025

Initial Calibration Report for SequenceID : FE041725AL

AreaCount

Parameter Range	FE053387.D	FE053388.D	FE053389.D	FE053390.D	FE053391.D	
Aliphatic C9-C12	40273090.000	19897378.000	8360865.000	4326048.000	2135544.000	
Aliphatic C12-C16	27441716.000	13492815.000	5715907.000	2962308.000	1458806.000	
Aliphatic C16-C21	41381922.000	20604545.000	8806501.000	4584729.000	2278742.000	
Aliphatic C21-C28	52866206.000	26808218.000	11424282.000	6149304.000	2962608.000	
Aliphatic C28-C40	71474370.000	36798070.000	15512235.000	8329821.000	4060883.000	
Aliphatic EPH	233437304.000	117601026.000	49819790.000	26352210.000	12896583.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	138562.3539998	3.618				
Aliphatic C12-C16	141806.081	3.959				
Aliphatic C16-C21	145363.7646664	5.098				
Aliphatic C21-C28	142174.626	6.444				
Aliphatic C28-C40	129049.1849998	6.424				
Aliphatic EPH	137688.0073328	5.4				

Concentration

Parameter Range	FE053387.D	FE053388.D	FE053389.D	FE053390.D	FE053391.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	FE053387.D	FE053388.D	FE053389.D	FE053390.D	FE053391.D	
Aliphatic C9-C12	134243.633333	132649.186666	139347.750000	144201.600000	142369.600000	
Aliphatic C12-C16	137208.580000	134928.150000	142897.675000	148115.400000	145880.600000	
Aliphatic C16-C21	137939.740000	137363.633333	146775.016666	152824.300000	151916.133333	

Initial Calibration Report for SequenceID : FE041725AL

Aliphatic C21-C28	132165.515000	134041.090000	142803.525000	153732.600000	148130.400000	
Aliphatic C28-C40	119123.950000	122660.233333	129268.625000	138830.350000	135362.766666	
Aliphatic EPH	129687.391111	130667.806666	138388.305555	146401.166666	143295.366666	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053387.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 15:35
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Apr 16 17:31:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Wed Apr 16 17:29:00 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)	11.897	17254133	97.377 ug/ml
Spiked Amount 50.000		Recovery =	194.75%
12) S 1-chlorooctadecane (S...	13.340	12911819	97.103 ug/ml
Spiked Amount 50.000		Recovery =	194.21%
Target Compounds			
1) T n-Nonane (C9)	3.235	13201429	97.806 ug/ml
2) T n-Decane (C10)	4.496	13423214	98.275 ug/ml
3) T A~Naphthalene (C11.7)	6.209	14943300	98.978 ug/ml
4) T n-Dodecane (C12)	6.677	13648447	98.315 ug/ml
5) T A~2-methylnaphthalene...	7.313	14933440	99.120 ug/ml
6) T n-Tetradecane (C14)	8.514	13623353	98.225 ug/ml
7) T n-Hexadecane (C16)	10.129	13818363	97.718 ug/ml
8) T n-Octadecane (C18)	11.580	13916696	97.192 ug/ml
10) T n-Eicosane (C20)	12.893	13773973	96.784 ug/ml
11) T n-Heneicosane (C21)	13.509	13691253	96.712 ug/ml
13) T n-Docosane (C22)	14.097	13585495	96.579 ug/ml
14) T n-Tetracosane (C24)	15.203	13396031	96.279 ug/ml
15) T n-Hexacosane (C26)	16.227	13122804	96.079 ug/ml
16) T n-Octacosane (C28)	17.179	12761876	95.559 ug/ml
17) T n-Tricontane (C30)	18.070	12660425	95.282 ug/ml
18) T n-Dotriacontane (C32)	18.905	12453995	95.078 ug/ml
19) T n-Tetratriacontane (C34)	19.691	11958465	95.363 ug/ml
20) T n-Hexatriacontane (C36)	20.431	11785134	96.522 ug/ml
21) T n-Octatriacontane (C38)	21.171	11353126	96.357 ug/ml
22) T n-Tetracontane (C40)	22.087	11263225	97.099 ug/ml

(f)=RT Delta > 1/2 Window

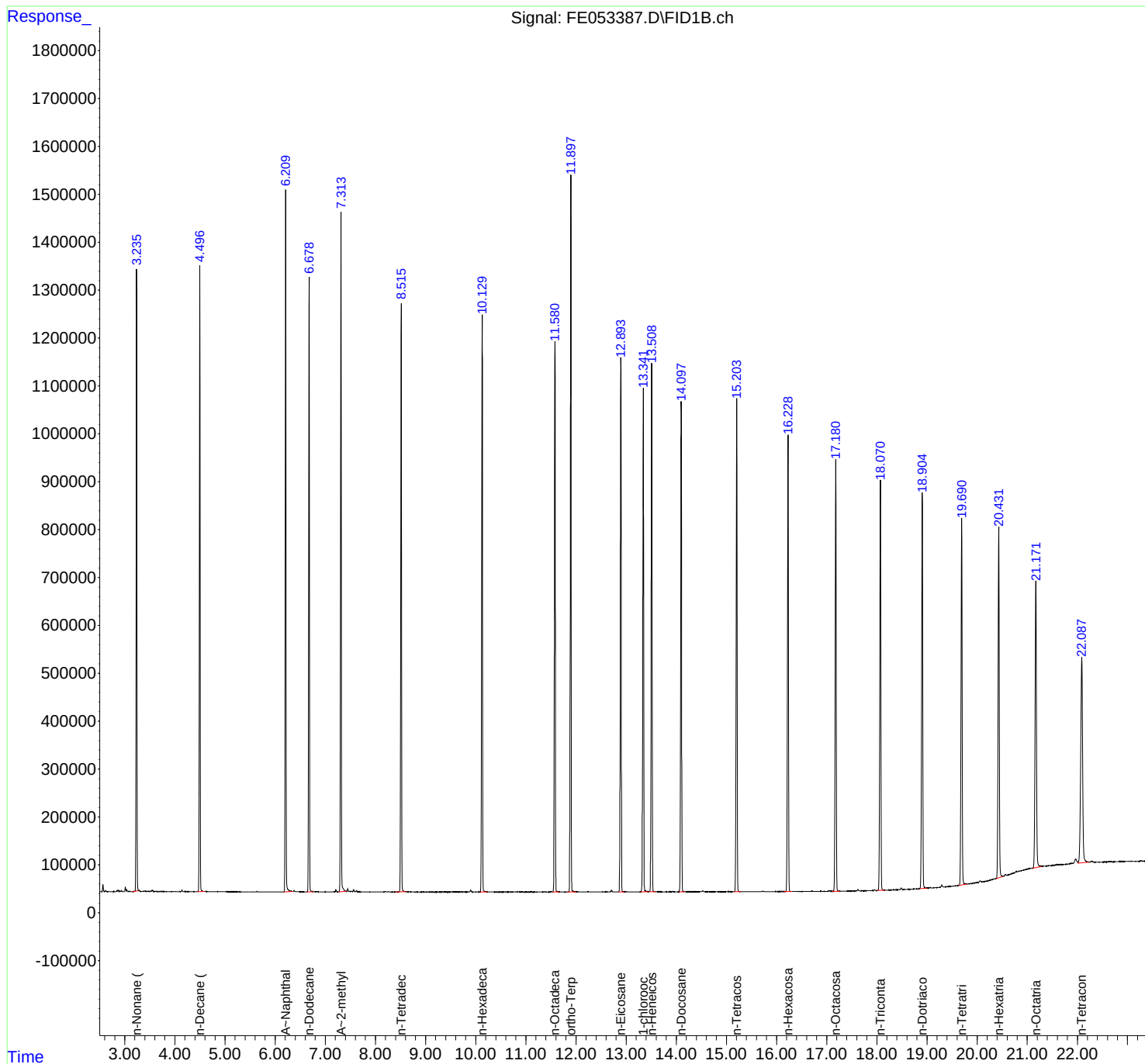
(m)=manual int.

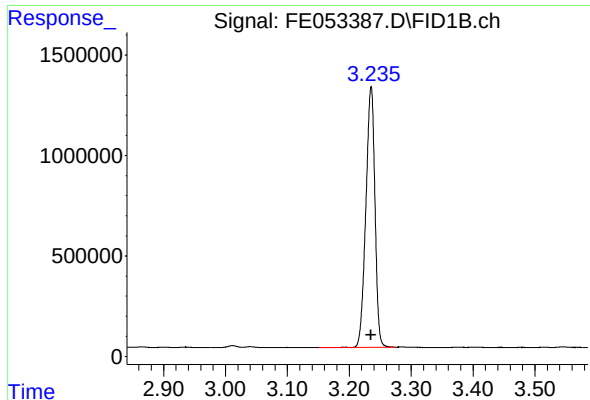
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053387.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 15:35
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Apr 16 17:31:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Wed Apr 16 17:29:00 2025
Response via : Initial Calibration
Integrator: ChemStation

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

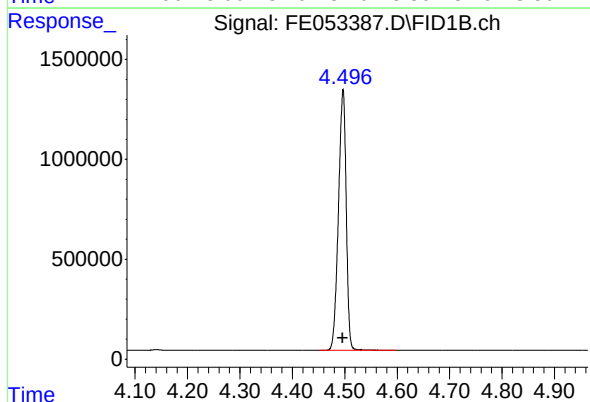




#1 n-Nonane (C9)

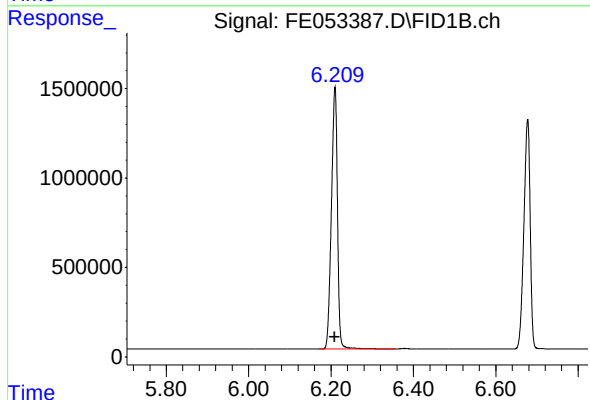
R.T.: 3.235 min
Delta R.T.: 0.000 min
Response: 13201429
Conc: 97.81 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



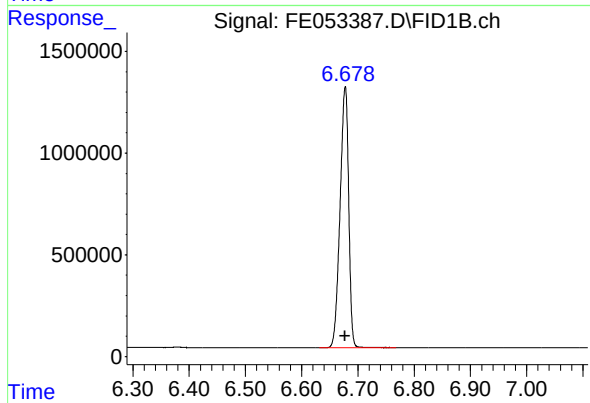
#2 n-Decane (C10)

R.T.: 4.496 min
Delta R.T.: 0.000 min
Response: 13423214
Conc: 98.27 ug/ml



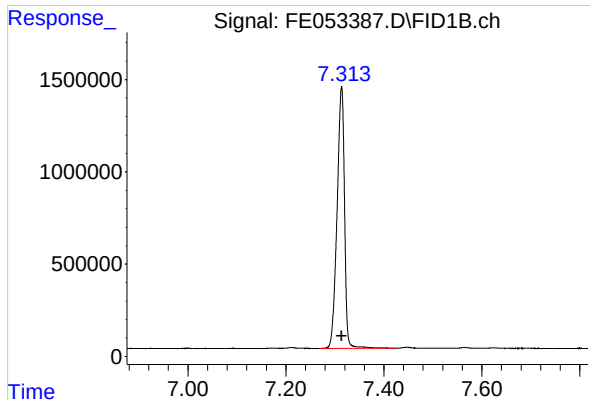
#3 A~Naphthalene (C11.7)

R.T.: 6.209 min
Delta R.T.: 0.000 min
Response: 14943300
Conc: 98.98 ug/ml



#4 n-Dodecane (C12)

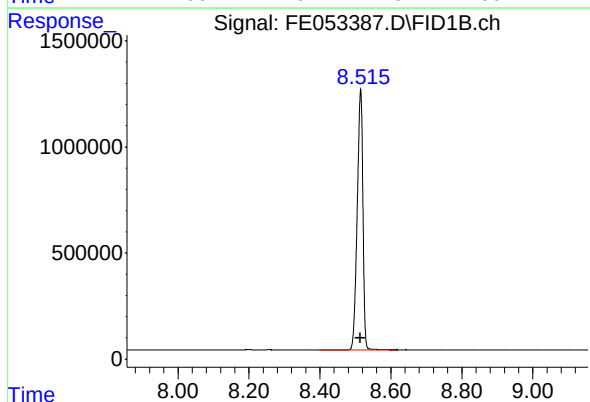
R.T.: 6.677 min
Delta R.T.: 0.000 min
Response: 13648447
Conc: 98.32 ug/ml



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

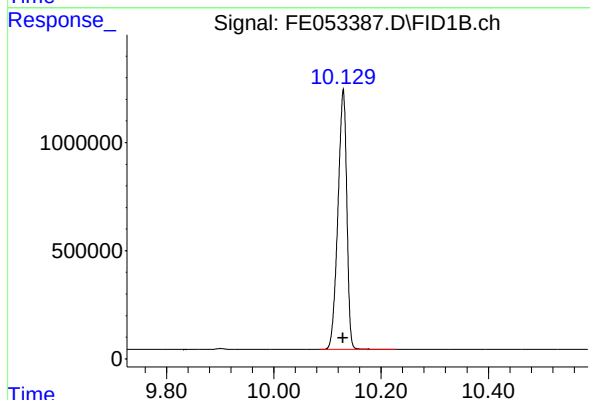
R.T.: 7.313 min
Delta R.T.: 0.000 min
Response: 14933440
Conc: 99.12 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



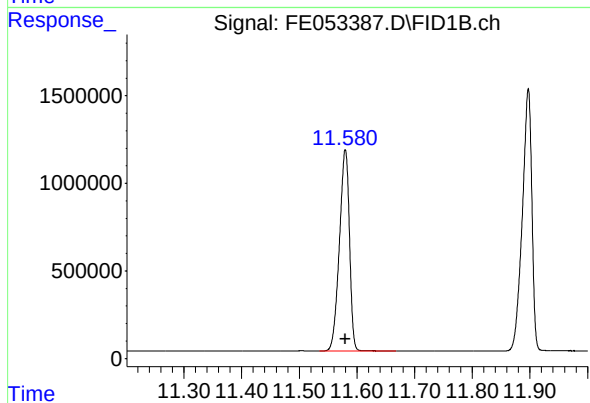
#6 n-Tetradecane (C14)

R.T.: 8.514 min
Delta R.T.: 0.000 min
Response: 13623353
Conc: 98.22 ug/ml



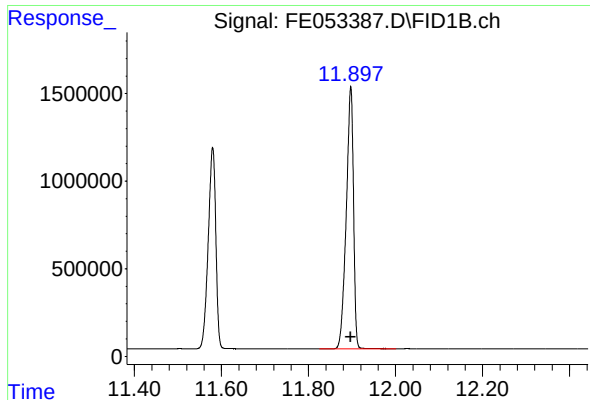
#7 n-Hexadecane (C16)

R.T.: 10.129 min
Delta R.T.: 0.000 min
Response: 13818363
Conc: 97.72 ug/ml



#8 n-Octadecane (C18)

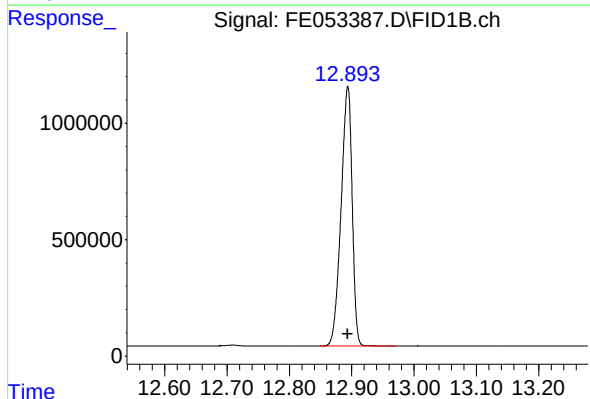
R.T.: 11.580 min
Delta R.T.: 0.000 min
Response: 13916696
Conc: 97.19 ug/ml



#9 ortho-Terphenyl (SURR)

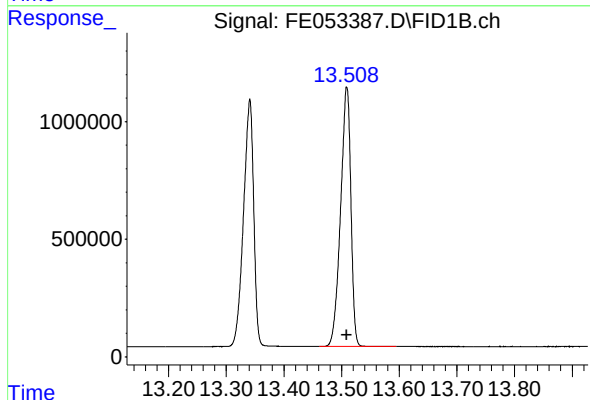
R.T.: 11.897 min
Delta R.T.: 0.000 min
Response: 17254133
Conc: 97.38 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



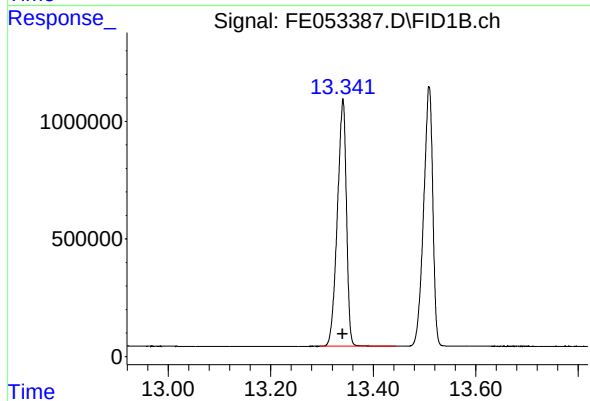
#10 n-Eicosane (C20)

R.T.: 12.893 min
Delta R.T.: 0.000 min
Response: 13773973
Conc: 96.78 ug/ml



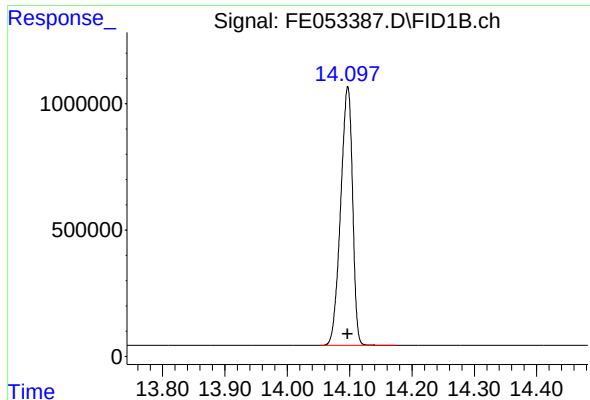
#11 n-Heneicosane (C21)

R.T.: 13.509 min
Delta R.T.: 0.000 min
Response: 13691253
Conc: 96.71 ug/ml



#12 1-chlorooctadecane (SURR)

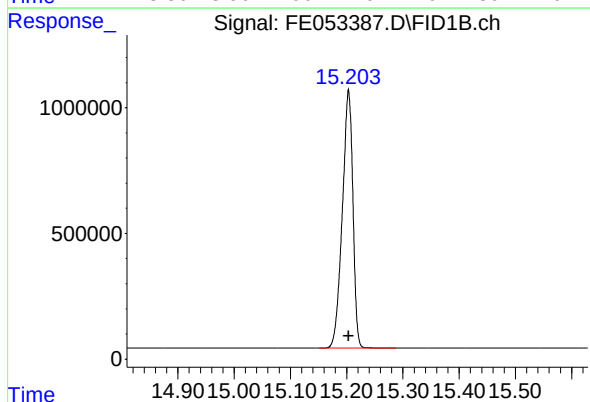
R.T.: 13.340 min
Delta R.T.: 0.000 min
Response: 12911819
Conc: 97.10 ug/ml



#13 n-Docosane (C22)

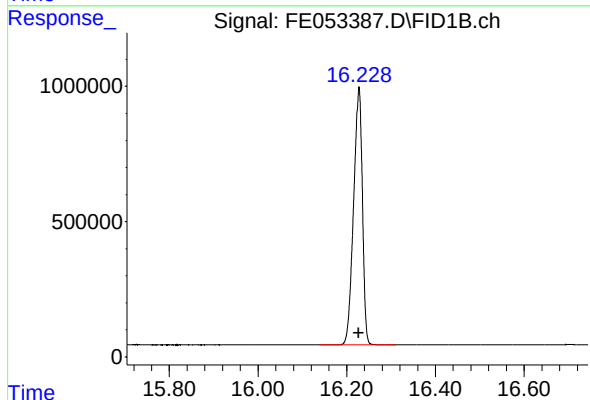
R.T.: 14.097 min
Delta R.T.: 0.000 min
Response: 13585495
Conc: 96.58 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



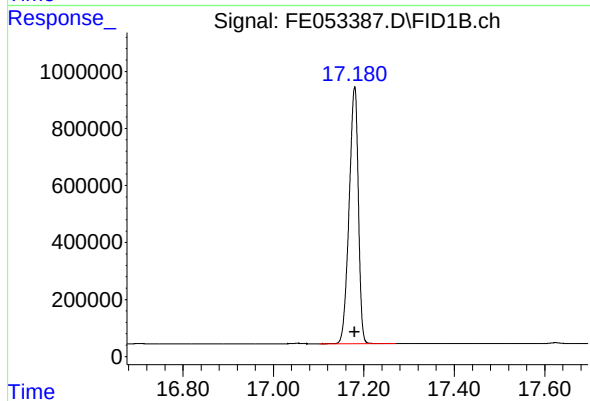
#14 n-Tetracosane (C24)

R.T.: 15.203 min
Delta R.T.: 0.000 min
Response: 13396031
Conc: 96.28 ug/ml



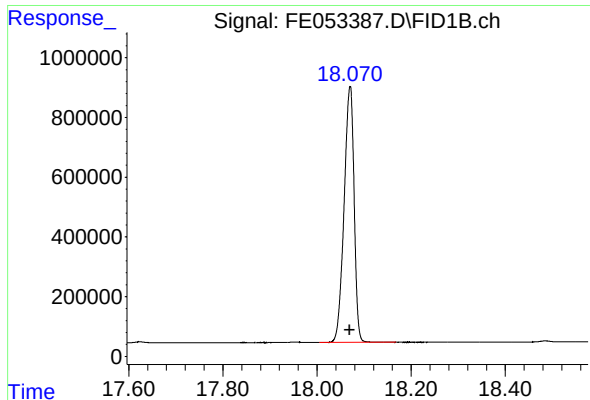
#15 n-Hexacosane (C26)

R.T.: 16.227 min
Delta R.T.: 0.000 min
Response: 13122804
Conc: 96.08 ug/ml



#16 n-Octacosane (C28)

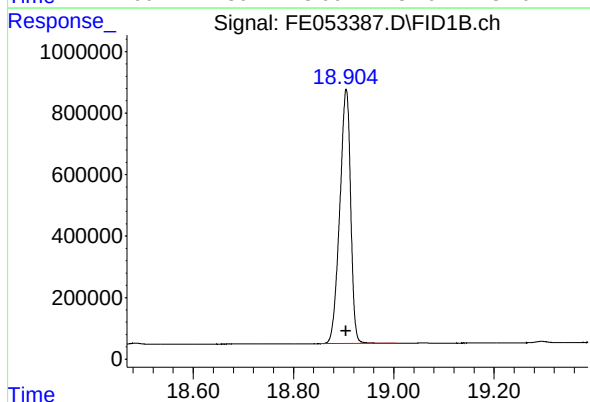
R.T.: 17.179 min
Delta R.T.: 0.000 min
Response: 12761876
Conc: 95.56 ug/ml



#17 n-Tricontane (C30)

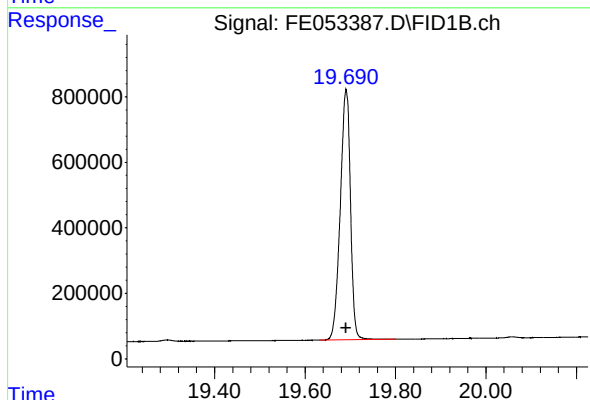
R.T.: 18.070 min
Delta R.T.: 0.000 min
Response: 12660425
Conc: 95.28 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



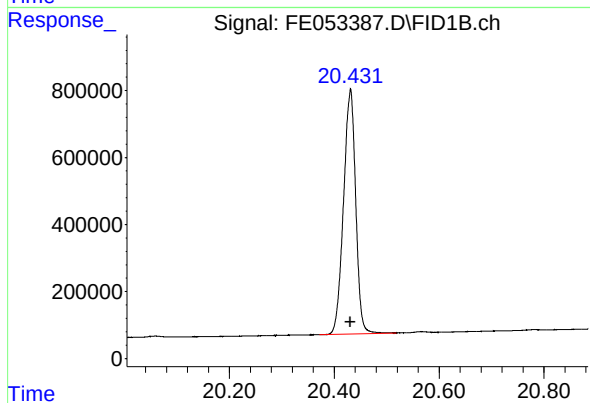
#18 n-Dotriacontane (C32)

R.T.: 18.905 min
Delta R.T.: 0.000 min
Response: 12453995
Conc: 95.08 ug/ml



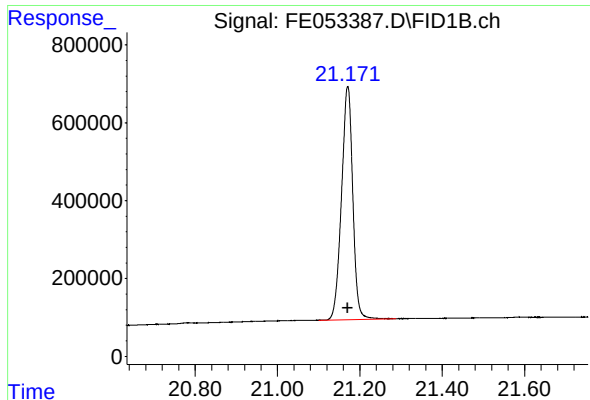
#19 n-Tetatriacontane (C34)

R.T.: 19.691 min
Delta R.T.: 0.000 min
Response: 11958465
Conc: 95.36 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.431 min
Delta R.T.: 0.000 min
Response: 11785134
Conc: 96.52 ug/ml



#21 n-Octatriacontane (C38)

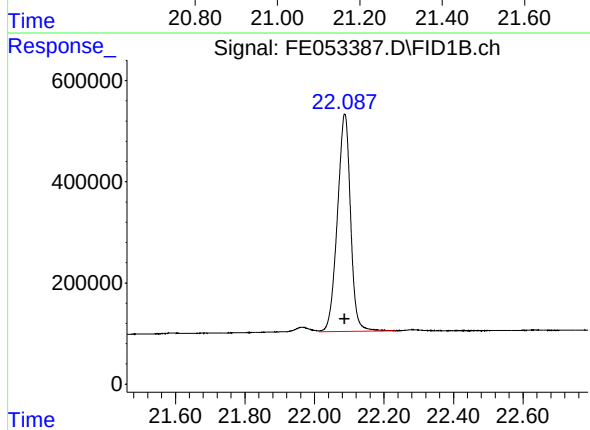
R.T.: 21.171 min
Delta R.T.: 0.000 min
Response: 11353126
Conc: 96.36 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.087 min
Delta R.T.: 0.000 min
Response: 11263225
Conc: 97.10 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053387.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 15:35
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.235	3.151	3.275	BV	1293097	13201429	76.51%	4.498%
2	4.496	4.451	4.598	BB	1319483	13423214	77.80%	4.574%
3	6.209	6.171	6.358	BV	1487035	14943300	86.61%	5.092%
4	6.677	6.631	6.768	BB	1292806	13648447	79.10%	4.651%
5	7.313	7.268	7.425	BV	1434572	14933440	86.55%	5.088%
6	8.514	8.398	8.614	BB	1226836	13623353	78.96%	4.642%
7	10.129	10.084	10.228	BB	1183838	13818363	80.09%	4.708%
8	11.580	11.534	11.668	BB	1155505	13916696	80.66%	4.742%
9	11.897	11.824	12.001	BB	1510414	17254133	100.00%	5.879%
10	12.893	12.848	12.971	BB	1122609	13773973	79.83%	4.693%
11	13.340	13.294	13.444	BB	1054518	12911819	74.83%	4.400%
12	13.509	13.461	13.594	BB	1104290	13691253	79.35%	4.665%
13	14.097	14.051	14.174	BB	1027855	13585495	78.74%	4.629%
14	15.203	15.151	15.288	BB	1022741	13396031	77.64%	4.565%
15	16.227	16.138	16.311	BB	954045	13122804	76.06%	4.471%
16	17.179	17.101	17.271	BB	910602	12761876	73.96%	4.348%
17	18.070	18.004	18.168	BB	866175	12660425	73.38%	4.314%
18	18.905	18.851	19.004	BB	829094	12453995	72.18%	4.244%
19	19.691	19.631	19.801	BB	764724	11958465	69.31%	4.075%
20	20.431	20.371	20.518	BV	730817	11785134	68.30%	4.016%
21	21.171	21.101	21.288	BB	599663	11353126	65.80%	3.868%
22	22.087	22.013	22.234	VV	429735	11263225	65.28%	3.838%
Sum of corrected areas:						293479995		

Aliphatic EPH 041725.M Thu Apr 17 04:25:52 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053388.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 16:35
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Apr 16 17:33:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Wed Apr 16 17:29:00 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)	11.890	8499004	48.625 ug/ml
Spiked Amount 50.000		Recovery =	97.25%
12) S 1-chlorooctadecane (S...	13.334	6421755	48.850 ug/ml
Spiked Amount 50.000		Recovery =	97.70%
Target Compounds			
1) T n-Nonane (C9)	3.231	6562926	49.074 ug/ml
2) T n-Decane (C10)	4.492	6620620	48.970 ug/ml
3) T A~Naphthalene (C11.7)	6.205	7332105	49.034 ug/ml
4) T n-Dodecane (C12)	6.673	6713832	48.896 ug/ml
5) T A~2-methylnaphthalene...	7.308	7291791	48.921 ug/ml
6) T n-Tetradecane (C14)	8.510	6689138	48.805 ug/ml
7) T n-Hexadecane (C16)	10.125	6803677	48.726 ug/ml
8) T n-Octadecane (C18)	11.574	6892409	48.741 ug/ml
10) T n-Eicosane (C20)	12.888	6864559	48.809 ug/ml
11) T n-Heneicosane (C21)	13.502	6847577	48.901 ug/ml
13) T n-Docosane (C22)	14.090	6821686	48.987 ug/ml
14) T n-Tetracosane (C24)	15.197	6773377	49.113 ug/ml
15) T n-Hexacosane (C26)	16.221	6677317	49.253 ug/ml
16) T n-Octacosane (C28)	17.173	6535838	49.288 ug/ml
17) T n-Tricontane (C30)	18.063	6526749	49.410 ug/ml
18) T n-Dotriacontane (C32)	18.898	6438595	49.433 ug/ml
19) T n-Tetratriacontane (C34)	19.683	6170453	49.468 ug/ml
20) T n-Hexatriacontane (C36)	20.425	6039761	49.643 ug/ml
21) T n-Octatriacontane (C38)	21.162	5881041	49.943 ug/ml
22) T n-Tetracontane (C40)	22.075	5741471	49.663 ug/ml

(f)=RT Delta > 1/2 Window

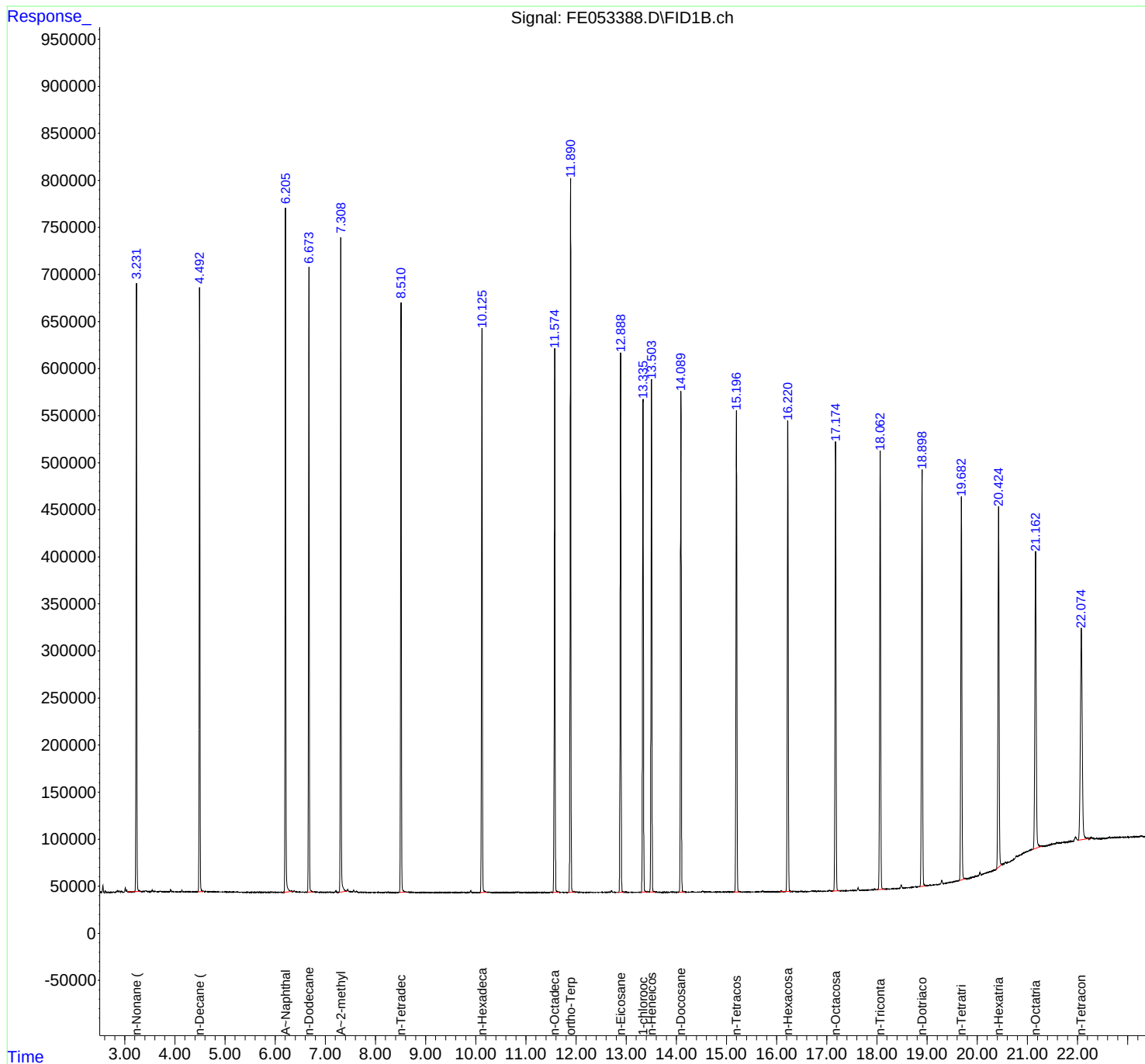
(m)=manual int.

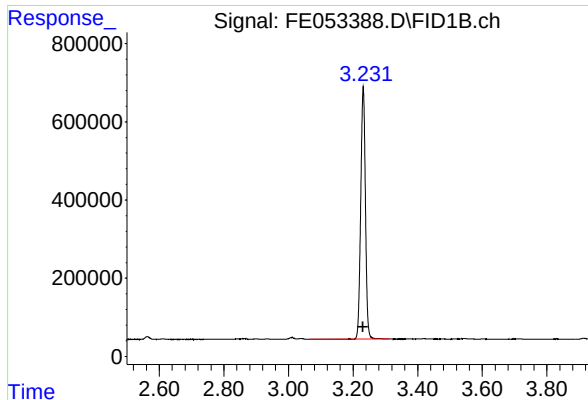
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053388.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 16:35
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Apr 16 17:33:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Wed Apr 16 17:29:00 2025
Response via : Initial Calibration
Integrator: ChemStation

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

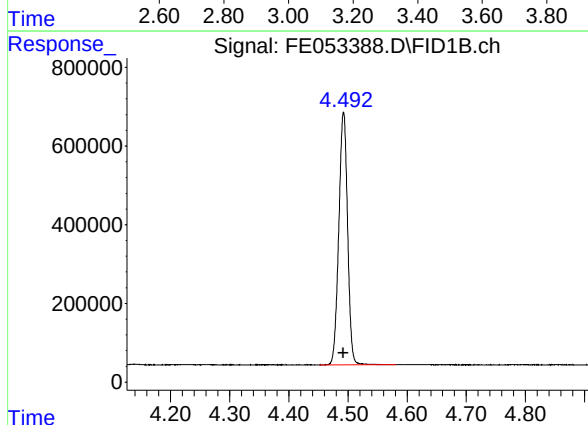




#1 n-Nonane (C9)

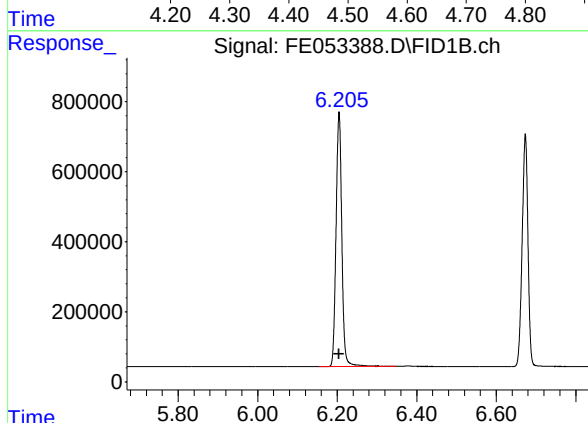
R.T.: 3.231 min
Delta R.T.: 0.000 min
Response: 6562926
Conc: 49.07 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



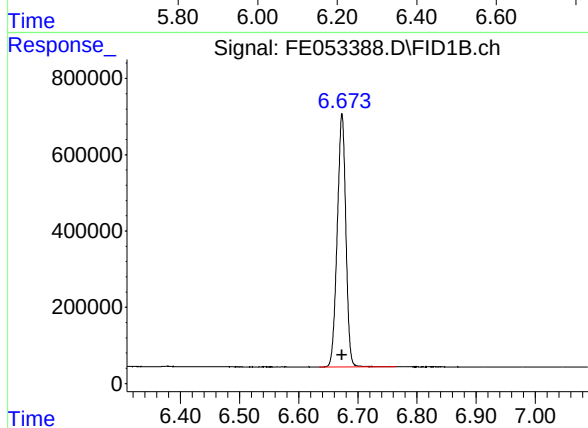
#2 n-Decane (C10)

R.T.: 4.492 min
Delta R.T.: 0.000 min
Response: 6620620
Conc: 48.97 ug/ml



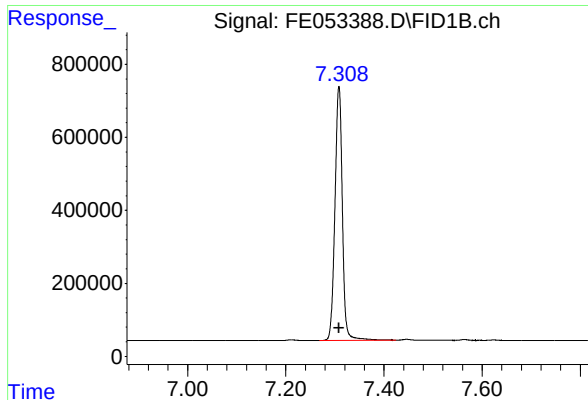
#3 A~Naphthalene (C11.7)

R.T.: 6.205 min
Delta R.T.: 0.000 min
Response: 7332105
Conc: 49.03 ug/ml



#4 n-Dodecane (C12)

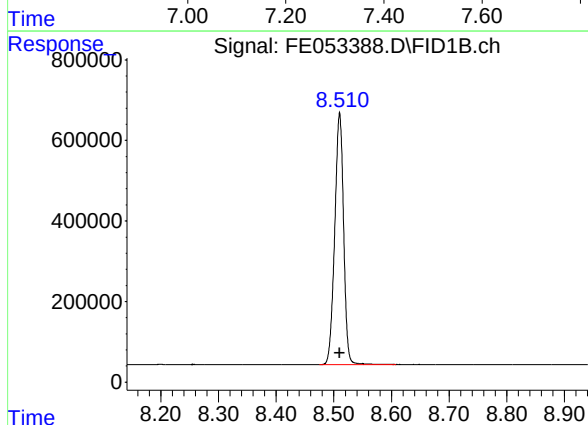
R.T.: 6.673 min
Delta R.T.: 0.000 min
Response: 6713832
Conc: 48.90 ug/ml



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

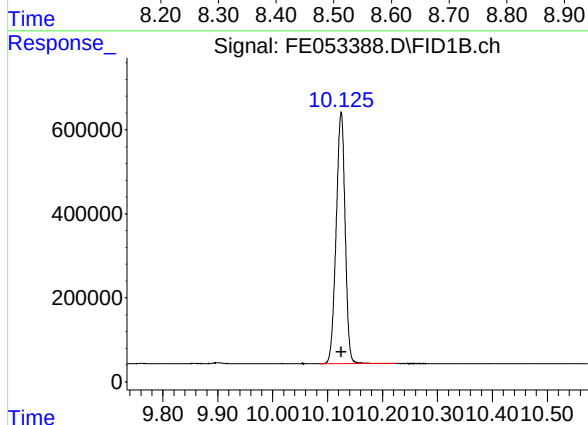
R.T.: 7.308 min
Delta R.T.: 0.000 min
Response: 7291791
Conc: 48.92 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



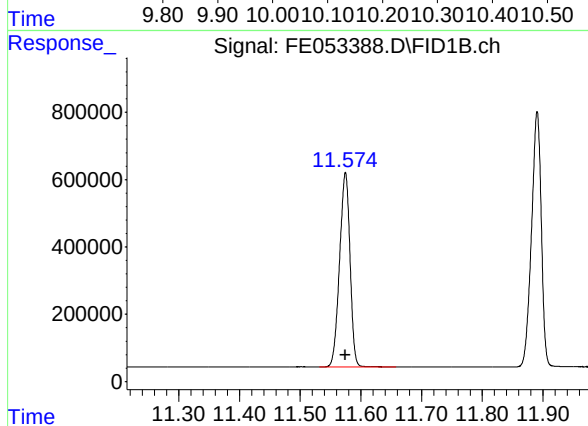
#6 n-Tetradecane (C14)

R.T.: 8.510 min
Delta R.T.: 0.000 min
Response: 6689138
Conc: 48.81 ug/ml



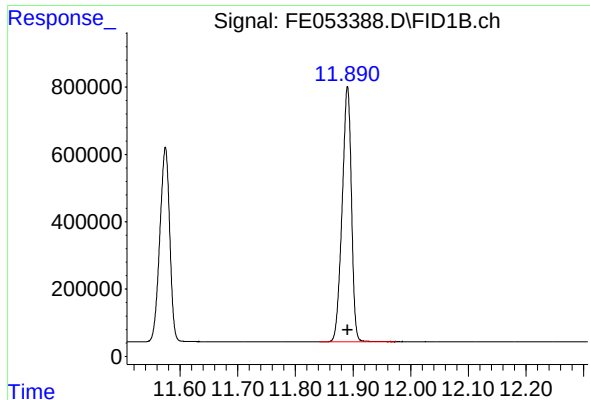
#7 n-Hexadecane (C16)

R.T.: 10.125 min
Delta R.T.: 0.000 min
Response: 6803677
Conc: 48.73 ug/ml



#8 n-Octadecane (C18)

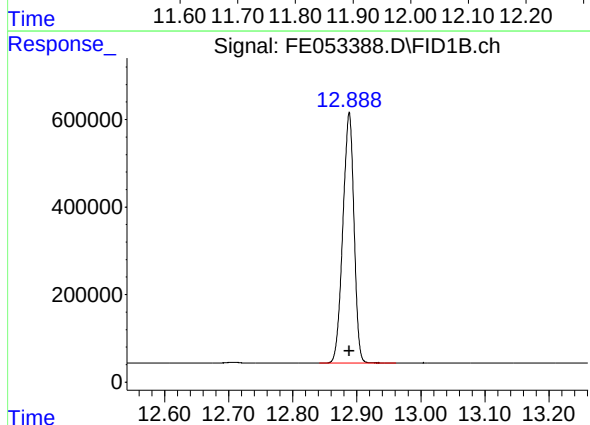
R.T.: 11.574 min
Delta R.T.: 0.000 min
Response: 6892409
Conc: 48.74 ug/ml



#9 ortho-Terphenyl (SURR)

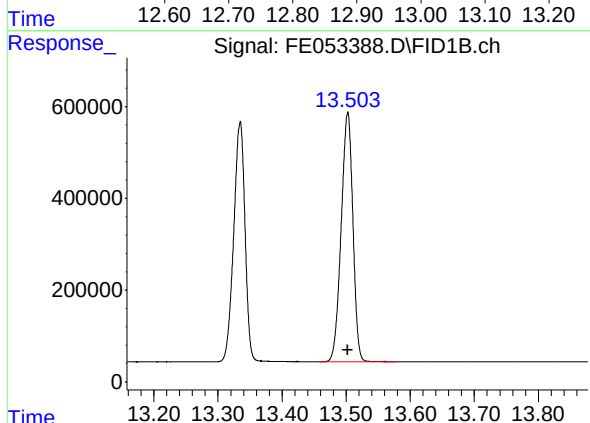
R.T.: 11.890 min
Delta R.T.: 0.000 min
Response: 8499004
Conc: 48.63 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



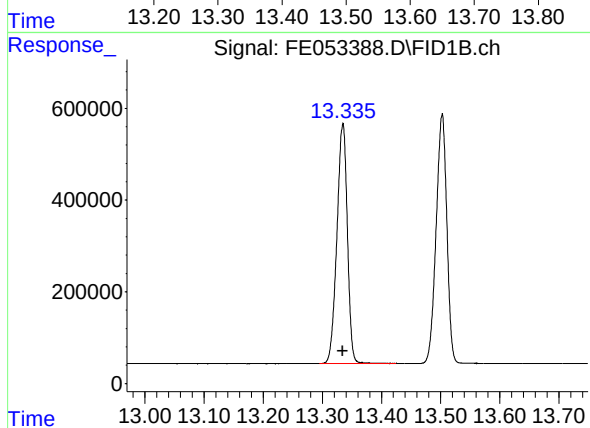
#10 n-Eicosane (C20)

R.T.: 12.888 min
Delta R.T.: 0.000 min
Response: 6864559
Conc: 48.81 ug/ml



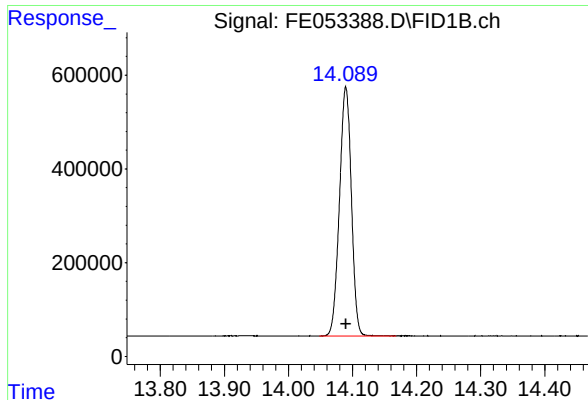
#11 n-Heneicosane (C21)

R.T.: 13.502 min
Delta R.T.: 0.000 min
Response: 6847577
Conc: 48.90 ug/ml



#12 1-chlorooctadecane (SURR)

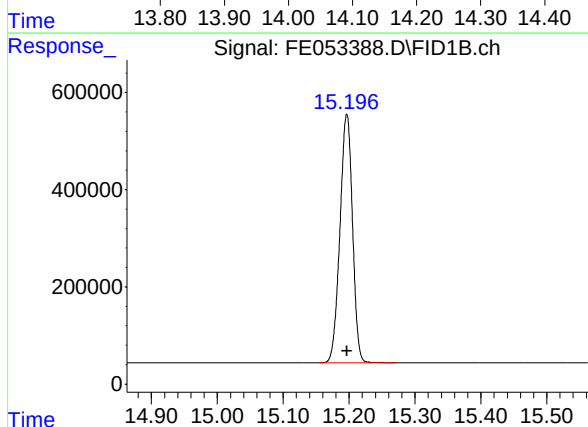
R.T.: 13.334 min
Delta R.T.: 0.000 min
Response: 6421755
Conc: 48.85 ug/ml



#13 n-Docosane (C22)

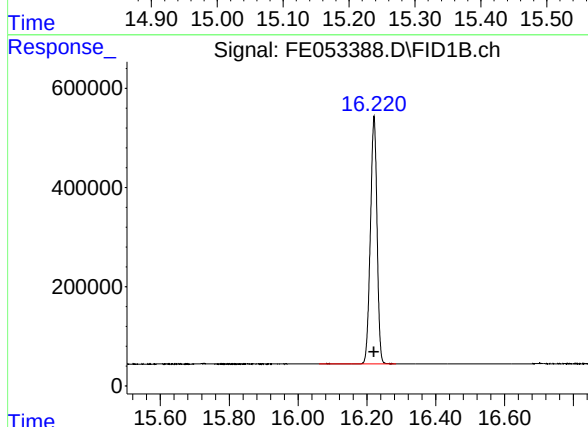
R.T.: 14.090 min
Delta R.T.: 0.000 min
Response: 6821686
Conc: 48.99 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



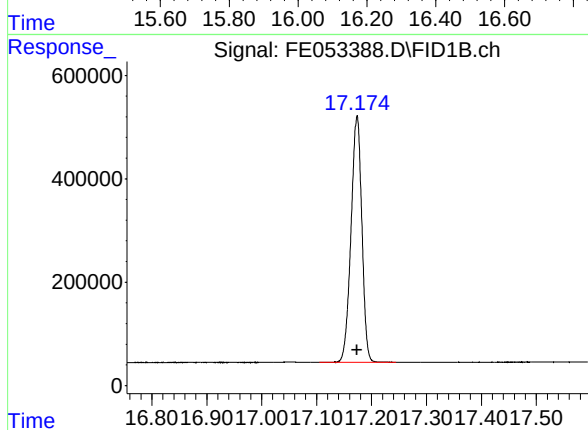
#14 n-Tetracosane (C24)

R.T.: 15.197 min
Delta R.T.: 0.000 min
Response: 6773377
Conc: 49.11 ug/ml



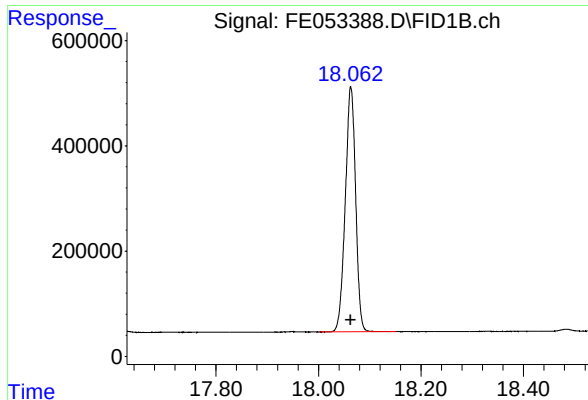
#15 n-Hexacosane (C26)

R.T.: 16.221 min
Delta R.T.: 0.000 min
Response: 6677317
Conc: 49.25 ug/ml



#16 n-Octacosane (C28)

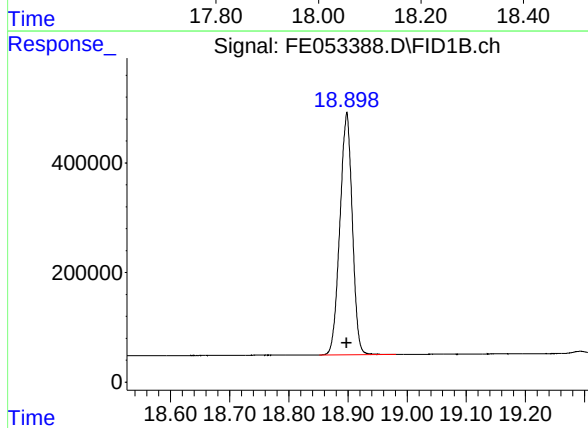
R.T.: 17.173 min
Delta R.T.: 0.000 min
Response: 6535838
Conc: 49.29 ug/ml



#17 n-Tricontane (C30)

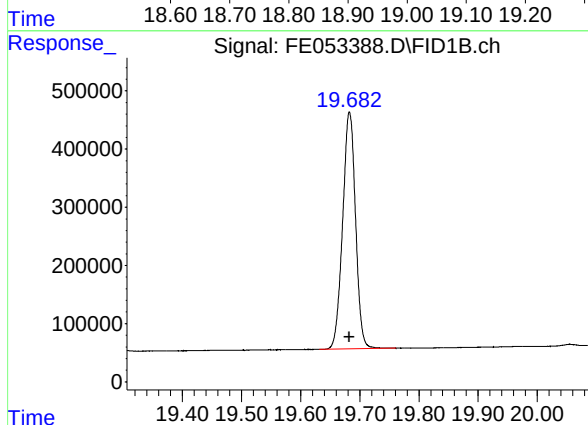
R.T.: 18.063 min
Delta R.T.: 0.000 min
Response: 6526749
Conc: 49.41 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



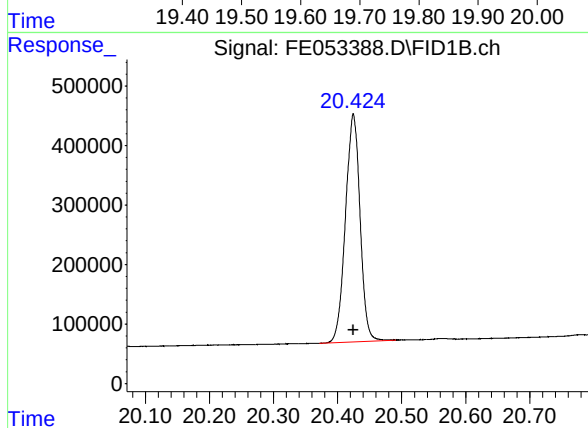
#18 n-Dotriacontane (C32)

R.T.: 18.898 min
Delta R.T.: 0.000 min
Response: 6438595
Conc: 49.43 ug/ml



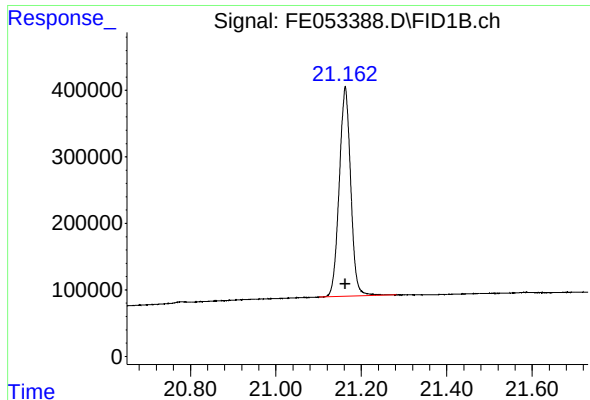
#19 n-Tetatriacontane (C34)

R.T.: 19.683 min
Delta R.T.: 0.000 min
Response: 6170453
Conc: 49.47 ug/ml



#20 n-Hexatriacontane (C36)

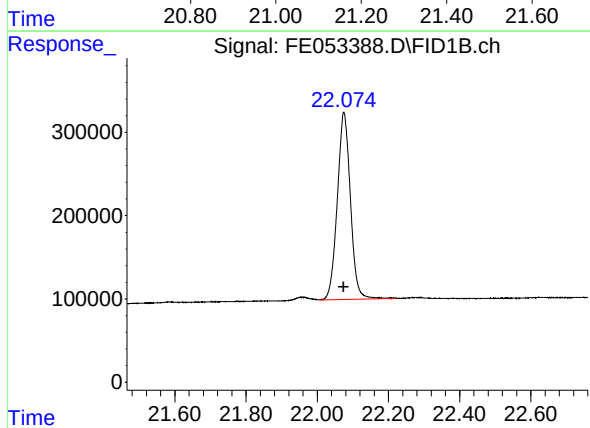
R.T.: 20.425 min
Delta R.T.: 0.000 min
Response: 6039761
Conc: 49.64 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.162 min
Delta R.T.: 0.000 min
Response: 5881041
Conc: 49.94 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.075 min
Delta R.T.: 0.000 min
Response: 5741471
Conc: 49.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053388.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 16:35
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.231	3.065	3.311	BB	644246	6562926	77.22%	4.460%
2	4.492	4.451	4.581	BB	639740	6620620	77.90%	4.499%
3	6.205	6.155	6.348	BB	724713	7332105	86.27%	4.983%
4	6.673	6.635	6.765	BB	663649	6713832	79.00%	4.563%
5	7.308	7.268	7.425	BV	695510	7291791	85.80%	4.955%
6	8.510	8.475	8.608	BB	623330	6689138	78.70%	4.546%
7	10.125	10.085	10.225	BB	598353	6803677	80.05%	4.624%
8	11.574	11.531	11.658	BB	578076	6892409	81.10%	4.684%
9	11.890	11.841	11.975	BB	761929	8499004	100.00%	5.776%
10	12.888	12.841	12.961	BB	572047	6864559	80.77%	4.665%
11	13.334	13.295	13.425	BB	522152	6421755	75.56%	4.364%
12	13.502	13.458	13.578	BB	540370	6847577	80.57%	4.654%
13	14.090	14.048	14.168	BB	529648	6821686	80.26%	4.636%
14	15.197	15.155	15.271	BB	513772	6773377	79.70%	4.603%
15	16.221	16.061	16.285	BB	498805	6677317	78.57%	4.538%
16	17.173	17.105	17.245	BB	479074	6535838	76.90%	4.442%
17	18.063	18.001	18.151	BB	463690	6526749	76.79%	4.436%
18	18.898	18.851	18.981	BB	440326	6438595	75.76%	4.376%
19	19.683	19.631	19.761	BB	407622	6170453	72.60%	4.193%
20	20.425	20.371	20.491	BB	382777	6039761	71.06%	4.105%
21	21.162	21.101	21.281	BB	313577	5881041	69.20%	3.997%
22	22.075	22.005	22.221	VB	225074	5741471	67.55%	3.902%
Sum of corrected areas:						147145678		

Aliphatic EPH 041725.M Thu Apr 17 04:26:26 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053389.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 17:05
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Apr 16 17:29:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Wed Apr 16 17:29:00 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)	11.886	3636748	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.330	2736436	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.230	2758721	20.000 ug/ml
2) T n-Decane (C10)	4.491	2778902	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.203	3050394	20.000 ug/ml
4) T n-Dodecane (C12)	6.671	2823242	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.306	3039727	20.000 ug/ml
6) T n-Tetradecane (C14)	8.508	2823165	20.000 ug/ml
7) T n-Hexadecane (C16)	10.121	2892742	20.000 ug/ml
8) T n-Octadecane (C18)	11.571	2944162	20.000 ug/ml
10) T n-Eicosane (C20)	12.885	2937897	20.000 ug/ml
11) T n-Heneicosane (C21)	13.499	2924442	20.000 ug/ml
13) T n-Docosane (C22)	14.087	2909579	20.000 ug/ml
14) T n-Tetracosane (C24)	15.194	2886306	20.000 ug/ml
15) T n-Hexacosane (C26)	16.218	2838759	20.000 ug/ml
16) T n-Octacosane (C28)	17.170	2789638	20.000 ug/ml
17) T n-Tricontane (C30)	18.060	2782832	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.893	2748709	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.680	2624272	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.422	2526868	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.158	2442302	20.000 ug/ml
22) T n-Tetracontane (C40)	22.073	2387252	20.000 ug/ml

(f)=RT Delta > 1/2 Window

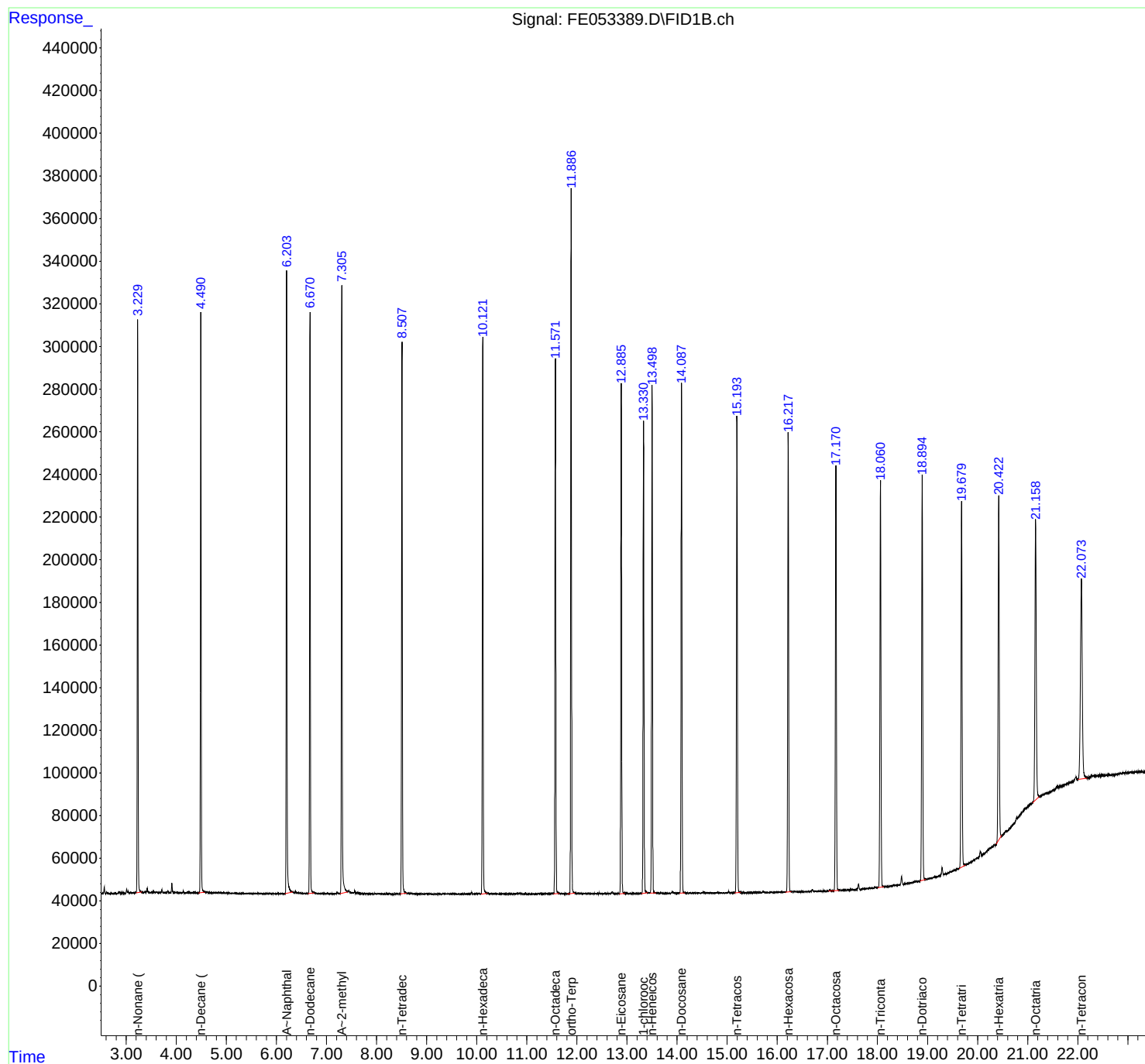
(m)=manual int.

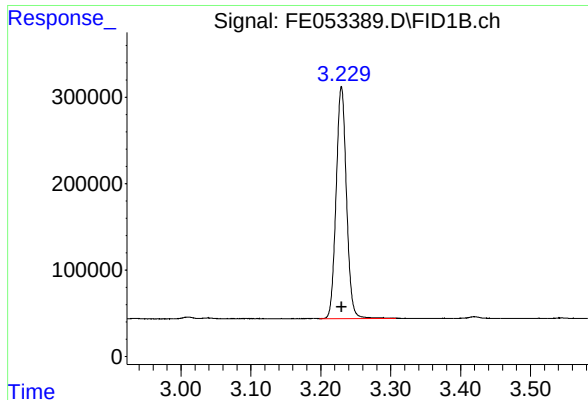
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053389.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 17:05
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Apr 16 17:29:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Wed Apr 16 17:29:00 2025
Response via : Initial Calibration
Integrator: ChemStation

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

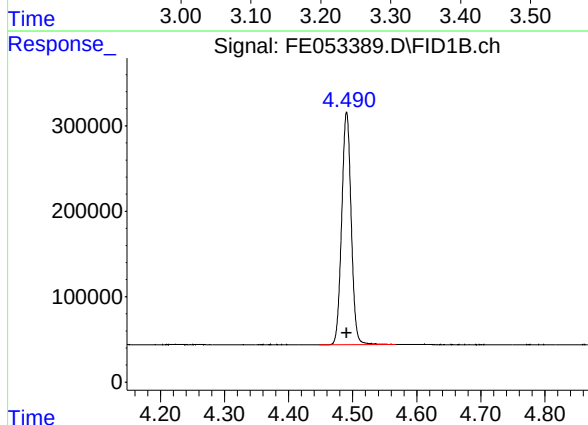




#1 n-Nonane (C9)

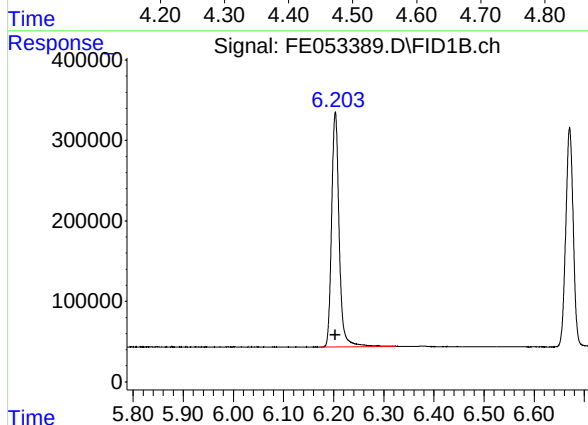
R.T.: 3.230 min
Delta R.T.: 0.000 min
Response: 2758721
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



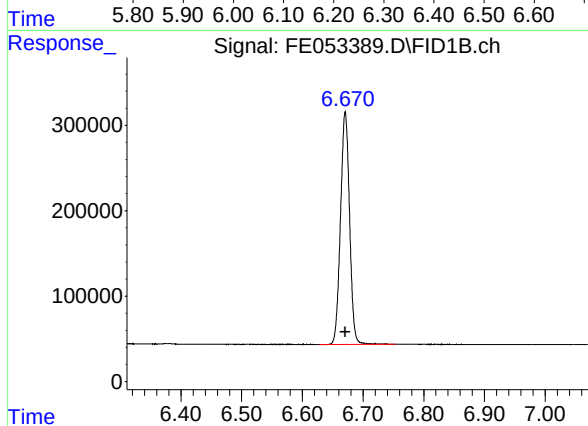
#2 n-Decane (C10)

R.T.: 4.491 min
Delta R.T.: 0.000 min
Response: 2778902
Conc: 20.00 ug/ml



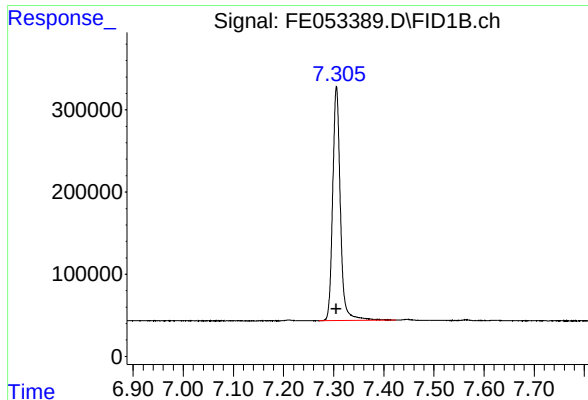
#3 A~Naphthalene (C11.7)

R.T.: 6.203 min
Delta R.T.: 0.000 min
Response: 3050394
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

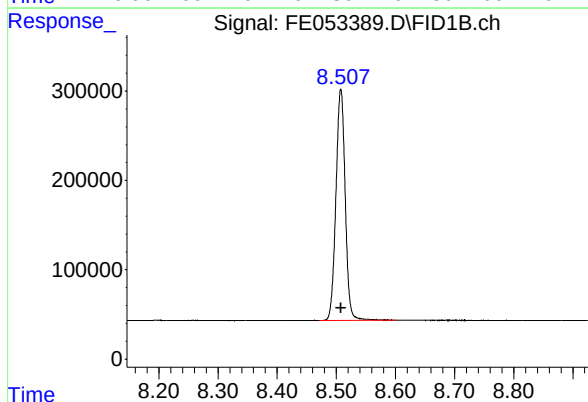
R.T.: 6.671 min
Delta R.T.: 0.000 min
Response: 2823242
Conc: 20.00 ug/ml



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

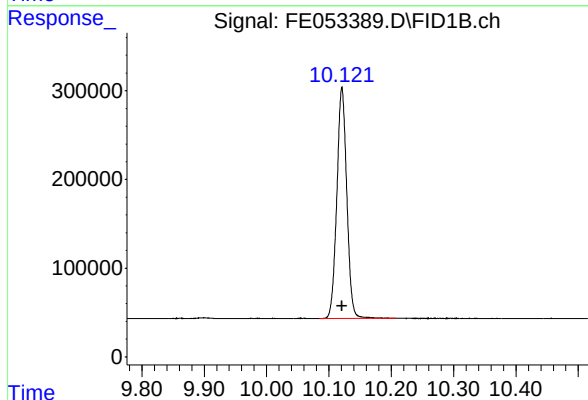
R.T.: 7.306 min
Delta R.T.: 0.000 min
Response: 3039727
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



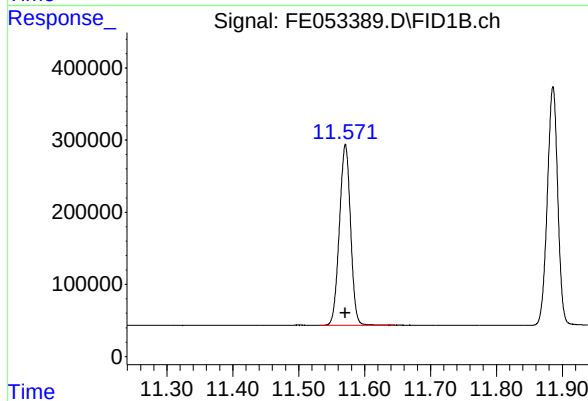
#6 n-Tetradecane (C14)

R.T.: 8.508 min
Delta R.T.: 0.000 min
Response: 2823165
Conc: 20.00 ug/ml



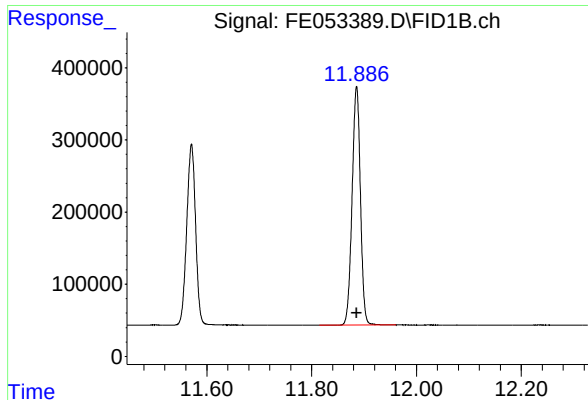
#7 n-Hexadecane (C16)

R.T.: 10.121 min
Delta R.T.: 0.000 min
Response: 2892742
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

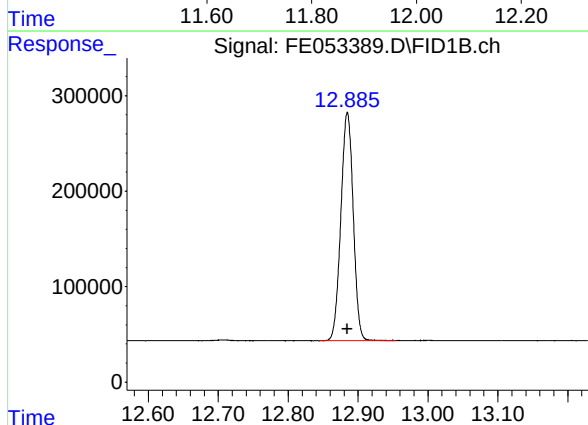
R.T.: 11.571 min
Delta R.T.: 0.000 min
Response: 2944162
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

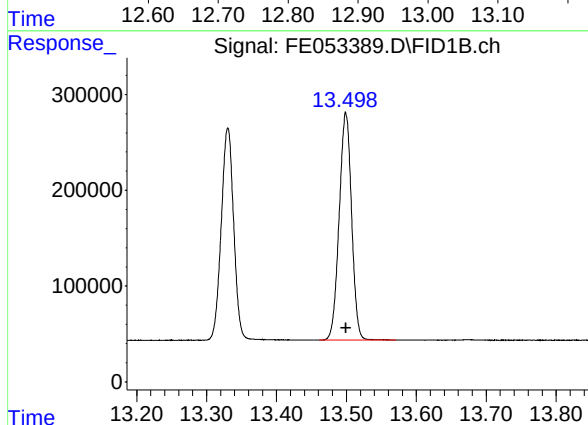
R.T.: 11.886 min
Delta R.T.: 0.000 min
Response: 3636748
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



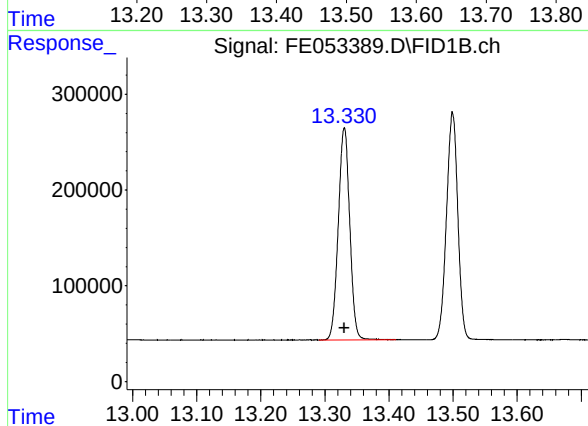
#10 n-Eicosane (C20)

R.T.: 12.885 min
Delta R.T.: 0.000 min
Response: 2937897
Conc: 20.00 ug/ml



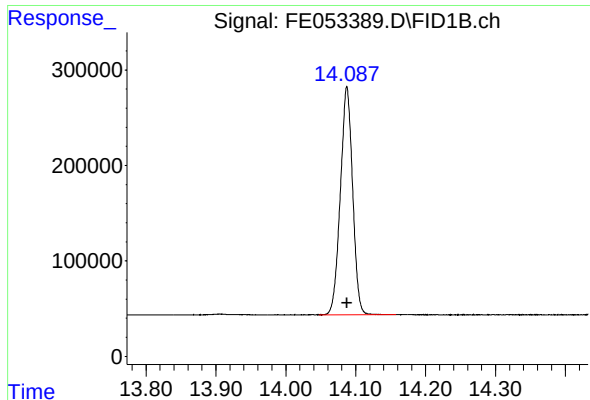
#11 n-Heneicosane (C21)

R.T.: 13.499 min
Delta R.T.: 0.000 min
Response: 2924442
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

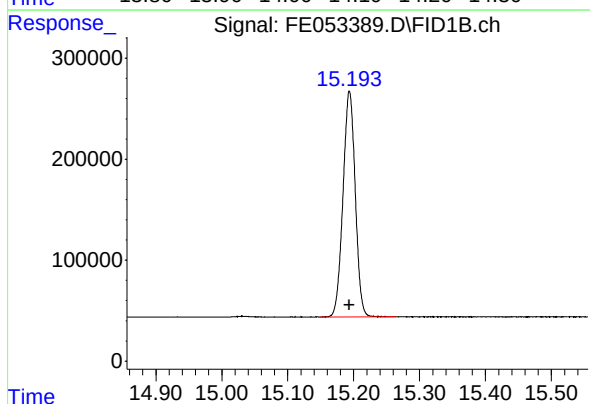
R.T.: 13.330 min
Delta R.T.: 0.000 min
Response: 2736436
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

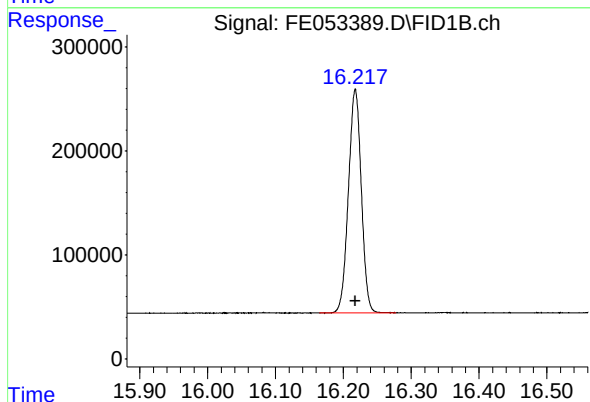
R.T.: 14.087 min
Delta R.T.: 0.000 min
Response: 2909579
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



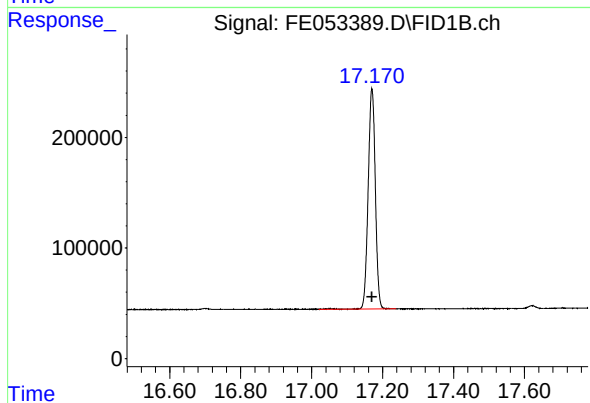
#14 n-Tetracosane (C24)

R.T.: 15.194 min
Delta R.T.: 0.000 min
Response: 2886306
Conc: 20.00 ug/ml



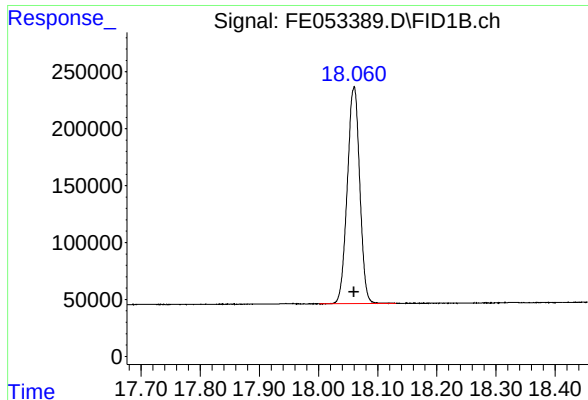
#15 n-Hexacosane (C26)

R.T.: 16.218 min
Delta R.T.: 0.000 min
Response: 2838759
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

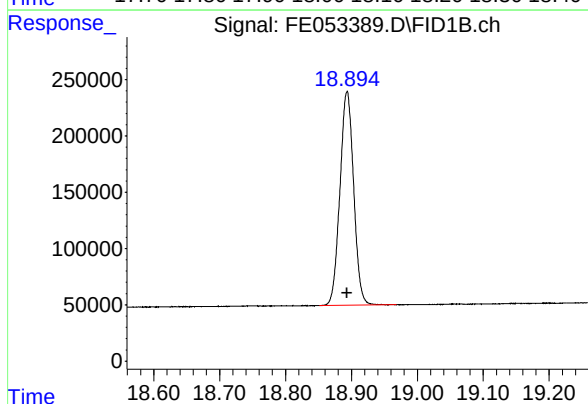
R.T.: 17.170 min
Delta R.T.: 0.000 min
Response: 2789638
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

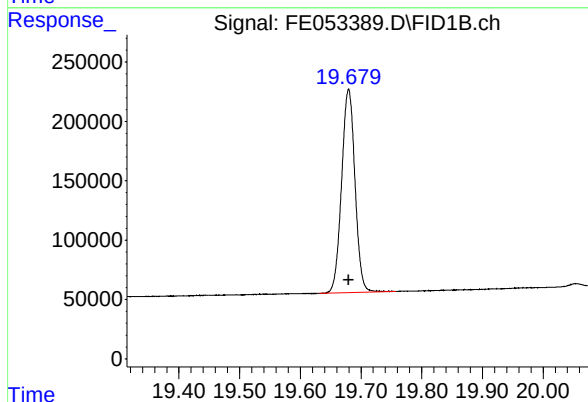
R.T.: 18.060 min
Delta R.T.: 0.000 min
Response: 2782832
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



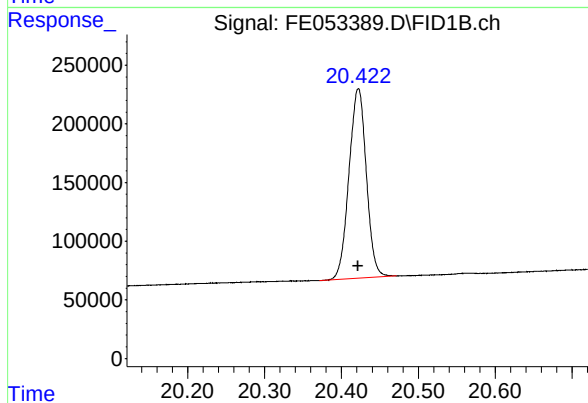
#18 n-Dotriacontane (C32)

R.T.: 18.893 min
Delta R.T.: 0.000 min
Response: 2748709
Conc: 20.00 ug/ml



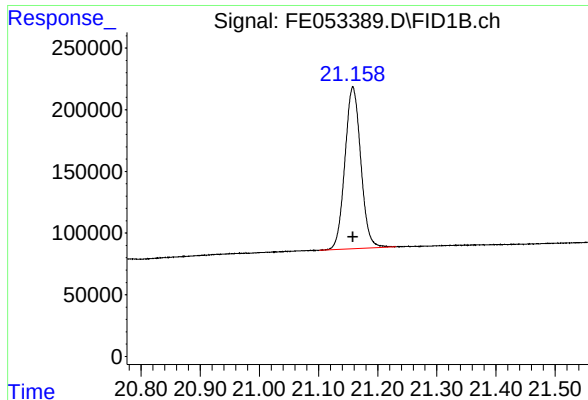
#19 n-Tetatriacontane (C34)

R.T.: 19.680 min
Delta R.T.: 0.000 min
Response: 2624272
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

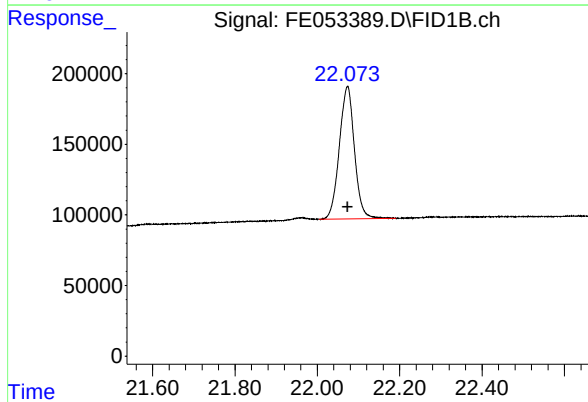
R.T.: 20.422 min
Delta R.T.: 0.000 min
Response: 2526868
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.158 min
Delta R.T.: 0.000 min
Response: 2442302
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.073 min
Delta R.T.: 0.000 min
Response: 2387252
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053389.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 17:05
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.230	3.198	3.308	BB	267962	2758721	75.86%	4.429%
2	4.491	4.448	4.568	BB	272704	2778902	76.41%	4.462%
3	6.203	6.171	6.324	BB	292802	3050394	83.88%	4.898%
4	6.671	6.628	6.754	BB	271603	2823242	77.63%	4.533%
5	7.306	7.271	7.424	BV	282773	3039727	83.58%	4.881%
6	8.508	8.471	8.601	BB	259133	2823165	77.63%	4.533%
7	10.121	10.084	10.208	BB	260136	2892742	79.54%	4.645%
8	11.571	11.531	11.648	BB	250837	2944162	80.96%	4.727%
9	11.886	11.814	11.961	BB	328980	3636748	100.00%	5.839%
10	12.885	12.844	12.954	BB	239134	2937897	80.78%	4.717%
11	13.330	13.291	13.411	BB	221954	2736436	75.24%	4.394%
12	13.499	13.461	13.571	BB	236315	2924442	80.41%	4.695%
13	14.087	14.048	14.158	BB	238674	2909579	80.00%	4.672%
14	15.194	15.148	15.264	BB	223550	2886306	79.37%	4.634%
15	16.218	16.164	16.278	BB	214955	2838759	78.06%	4.558%
16	17.170	17.021	17.238	BB	198686	2789638	76.71%	4.479%
17	18.060	18.001	18.131	BB	191290	2782832	76.52%	4.468%
18	18.893	18.851	18.968	BB	190388	2748709	75.58%	4.413%
19	19.680	19.631	19.758	BB	171279	2624272	72.16%	4.213%
20	20.422	20.371	20.471	BV	161787	2526868	69.48%	4.057%
21	21.158	21.101	21.231	BB	131193	2442302	67.16%	3.921%
22	22.073	22.004	22.191	BB	94184	2387252	65.64%	3.833%
Sum of corrected areas:							62283095	

Aliphatic EPH 041725.M Thu Apr 17 04:26:43 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053390.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 17:36
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Apr 16 17:59:42 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Wed Apr 16 17:59:32 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)	11.884	1893058	10.610 ug/ml
Spiked Amount 50.000		Recovery =	21.22%
12) S 1-chlorooctadecane (S...	13.330	1412249	10.547 ug/ml
Spiked Amount 50.000		Recovery =	21.09%
Target Compounds			
1) T n-Nonane (C9)	3.229	1427931	10.499 ug/ml
2) T n-Decane (C10)	4.490	1440599	10.484 ug/ml
3) T A~Naphthalene (C11.7)	6.204	1558579	10.314 ug/ml
4) T n-Dodecane (C12)	6.670	1457518	10.454 ug/ml
5) T A~2-methylnaphthalene...	7.306	1522133	10.158 ug/ml
6) T n-Tetradecane (C14)	8.507	1461405	10.489 ug/ml
7) T n-Hexadecane (C16)	10.121	1500903	10.551 ug/ml
8) T n-Octadecane (C18)	11.570	1528768	10.596 ug/ml
10) T n-Eicosane (C20)	12.884	1532713	10.659 ug/ml
11) T n-Heneicosane (C21)	13.498	1523248	10.644 ug/ml
13) T n-Docosane (C22)	14.086	1528369	10.714 ug/ml
14) T n-Tetracosane (C24)	15.193	1552378	10.913 ug/ml
15) T n-Hexacosane (C26)	16.217	1541972	10.996 ug/ml
16) T n-Octacosane (C28)	17.169	1526585	11.093 ug/ml
17) T n-Tricontane (C30)	18.058	1529997	11.142 ug/ml
18) T n-Dotriacontane (C32)	18.893	1499644	11.094 ug/ml
19) T n-Tetratriacontane (C34)	19.678	1400795	10.895 ug/ml
20) T n-Hexatriacontane (C36)	20.420	1333734	10.705 ug/ml
21) T n-Octatriacontane (C38)	21.157	1286878	10.680 ug/ml
22) T n-Tetracontane (C40)	22.070	1278773	10.775 ug/ml

(f)=RT Delta > 1/2 Window

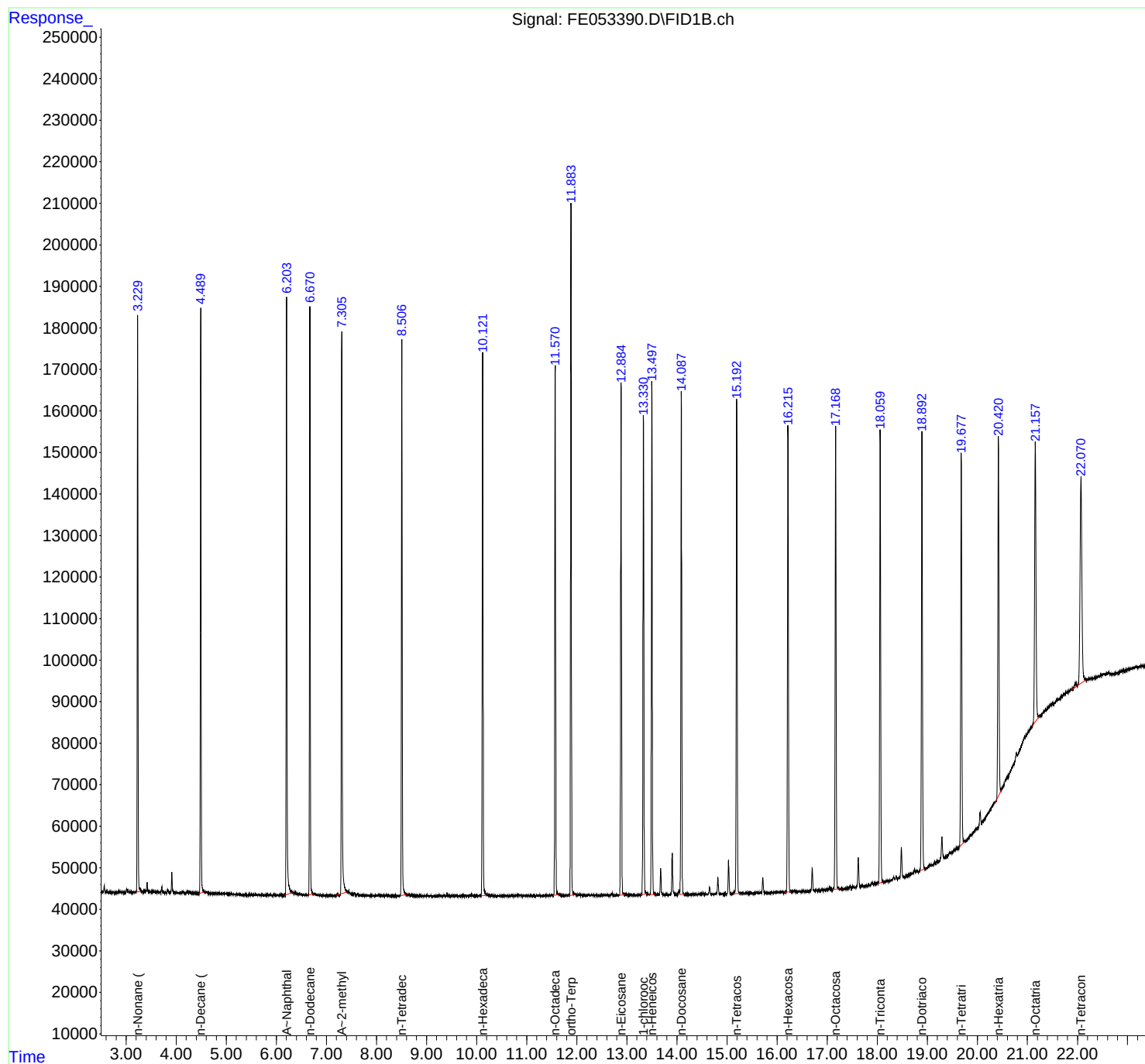
(m)=manual int.

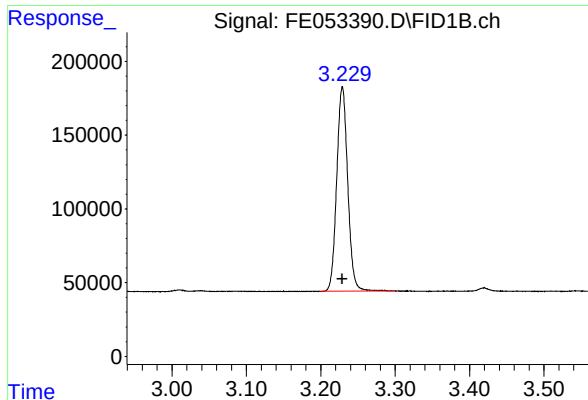
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053390.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 17:36
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Apr 16 17:59:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Wed Apr 16 17:59:32 2025
Response via : Initial Calibration
Integrator: ChemStation

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

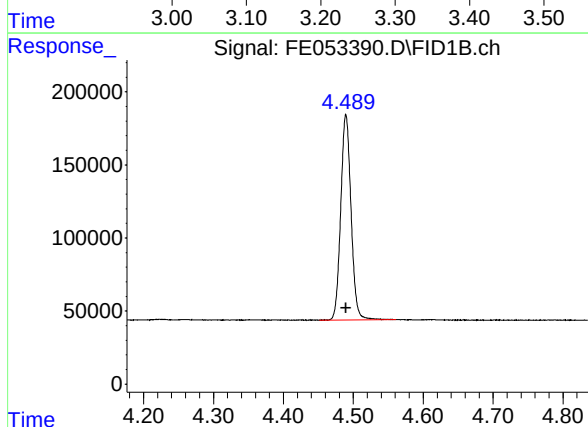




#1 n-Nonane (C9)

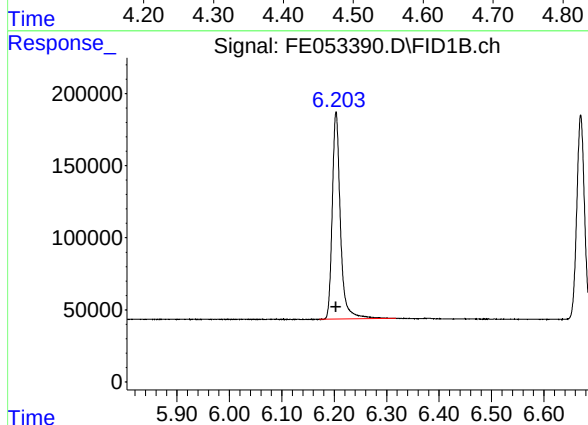
R.T.: 3.229 min
Delta R.T.: 0.000 min
Response: 1427931
Conc: 10.50 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



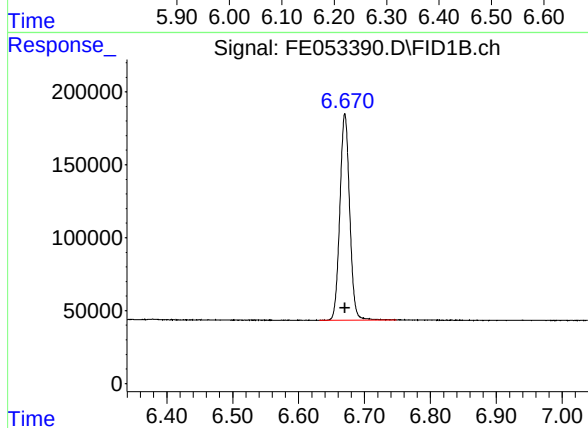
#2 n-Decane (C10)

R.T.: 4.490 min
Delta R.T.: 0.000 min
Response: 1440599
Conc: 10.48 ug/ml



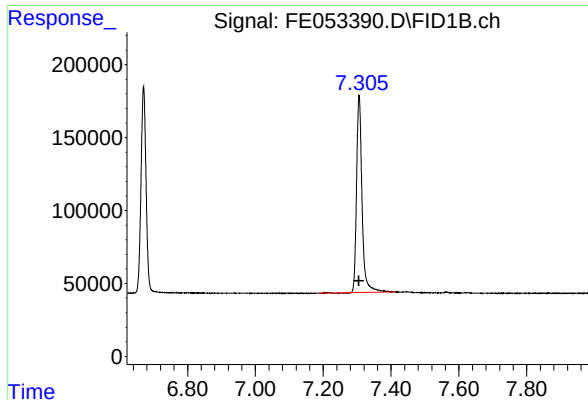
#3 A~Naphthalene (C11.7)

R.T.: 6.204 min
Delta R.T.: 0.000 min
Response: 1558579
Conc: 10.31 ug/ml



#4 n-Dodecane (C12)

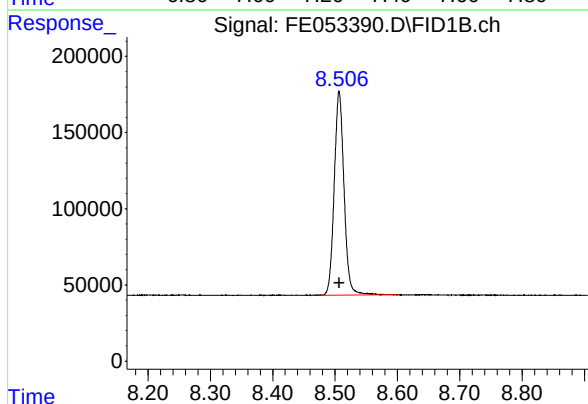
R.T.: 6.670 min
Delta R.T.: 0.000 min
Response: 1457518
Conc: 10.45 ug/ml



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

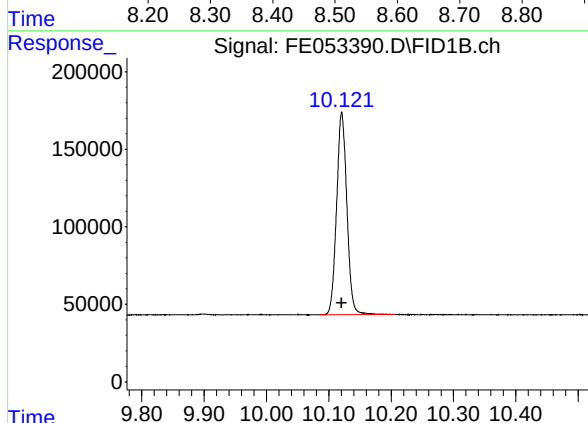
R.T.: 7.306 min
Delta R.T.: 0.000 min
Response: 1522133
Conc: 10.16 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



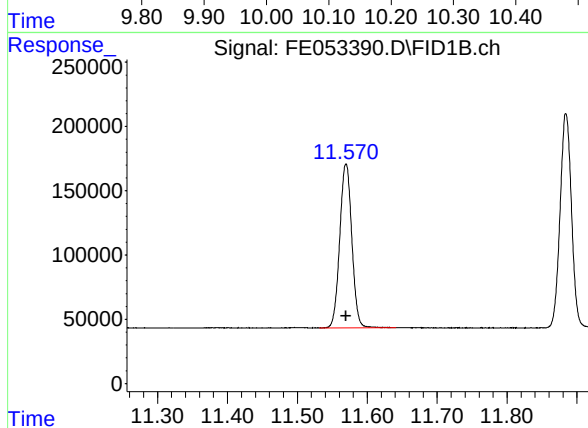
#6 n-Tetradecane (C14)

R.T.: 8.507 min
Delta R.T.: 0.000 min
Response: 1461405
Conc: 10.49 ug/ml



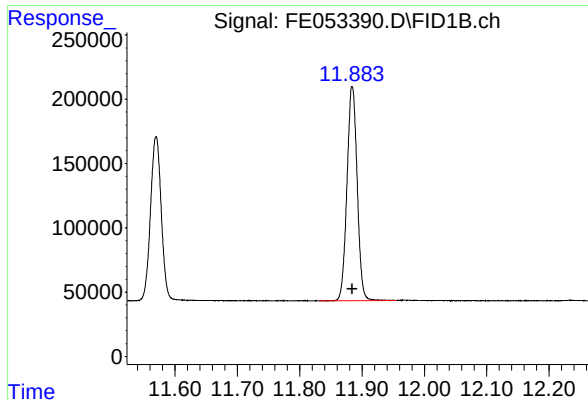
#7 n-Hexadecane (C16)

R.T.: 10.121 min
Delta R.T.: 0.000 min
Response: 1500903
Conc: 10.55 ug/ml



#8 n-Octadecane (C18)

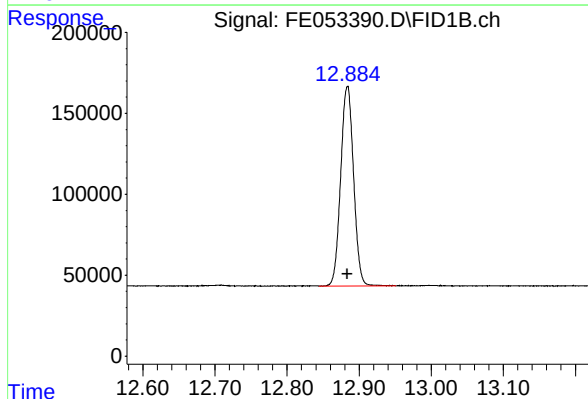
R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 1528768
Conc: 10.60 ug/ml



#9 ortho-Terphenyl (SURR)

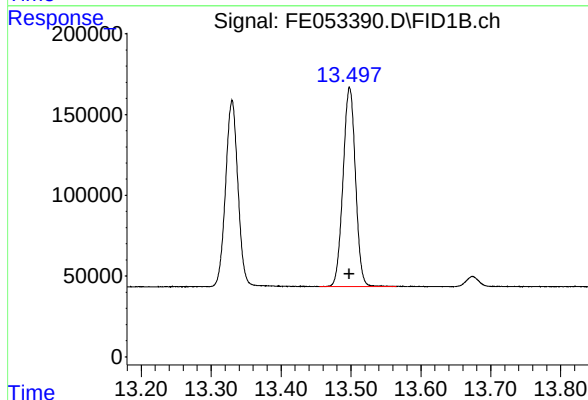
R.T.: 11.884 min
Delta R.T.: 0.000 min
Response: 1893058
Conc: 10.61 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



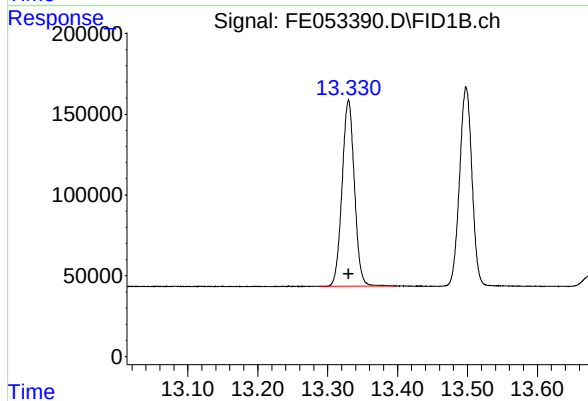
#10 n-Eicosane (C20)

R.T.: 12.884 min
Delta R.T.: 0.000 min
Response: 1532713
Conc: 10.66 ug/ml



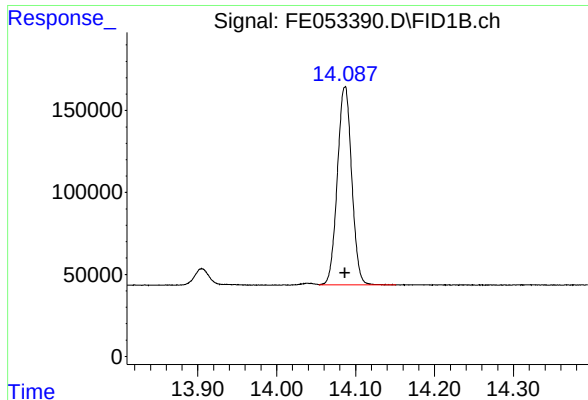
#11 n-Heneicosane (C21)

R.T.: 13.498 min
Delta R.T.: 0.000 min
Response: 1523248
Conc: 10.64 ug/ml



#12 1-chlorooctadecane (SURR)

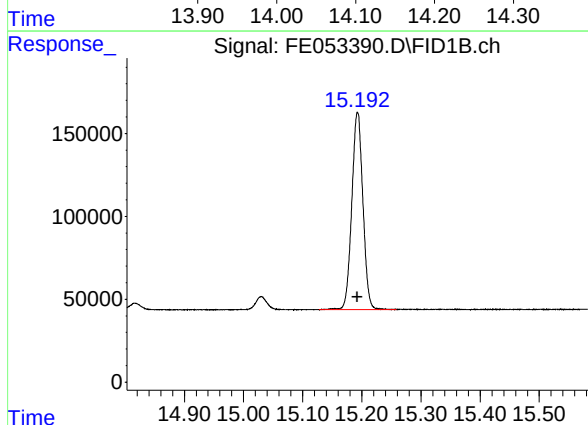
R.T.: 13.330 min
Delta R.T.: 0.000 min
Response: 1412249
Conc: 10.55 ug/ml



#13 n-Docosane (C22)

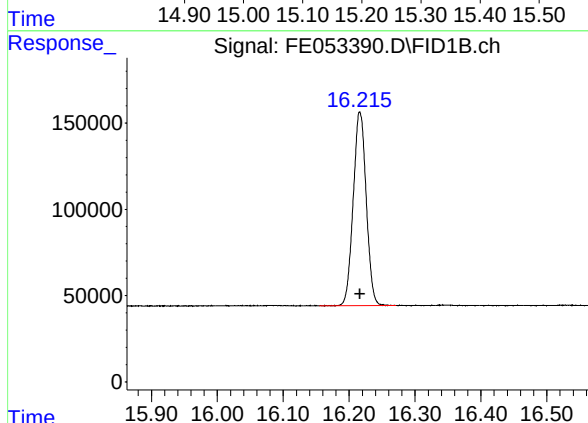
R.T.: 14.086 min
Delta R.T.: 0.000 min
Response: 1528369
Conc: 10.71 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



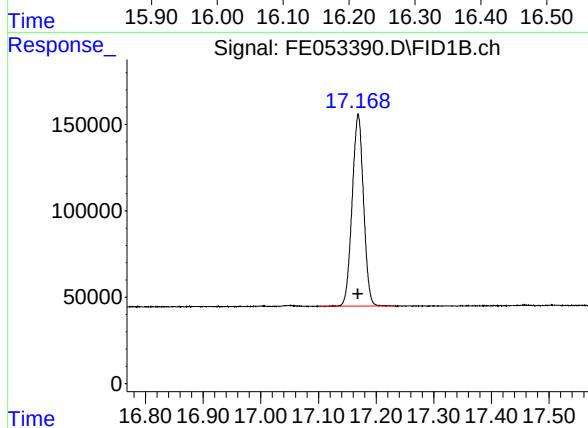
#14 n-Tetracosane (C24)

R.T.: 15.193 min
Delta R.T.: 0.000 min
Response: 1552378
Conc: 10.91 ug/ml



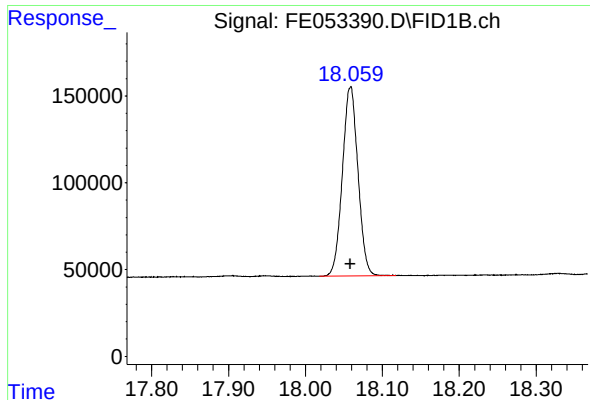
#15 n-Hexacosane (C26)

R.T.: 16.217 min
Delta R.T.: 0.000 min
Response: 1541972
Conc: 11.00 ug/ml



#16 n-Octacosane (C28)

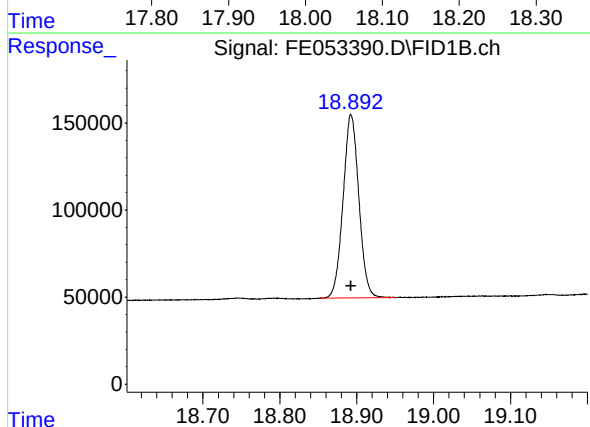
R.T.: 17.169 min
Delta R.T.: 0.000 min
Response: 1526585
Conc: 11.09 ug/ml



#17 n-Tricontane (C30)

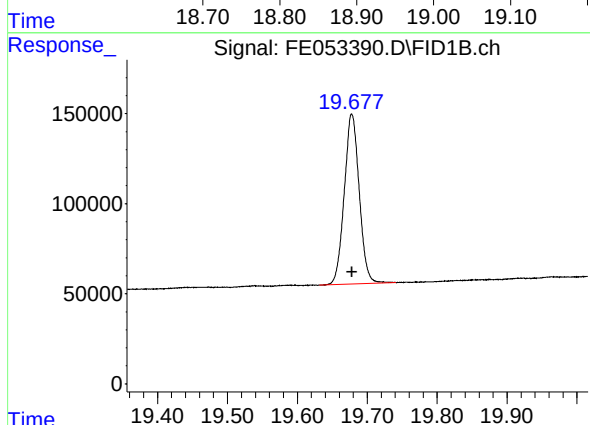
R.T.: 18.058 min
Delta R.T.: 0.000 min
Response: 1529997
Conc: 11.14 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



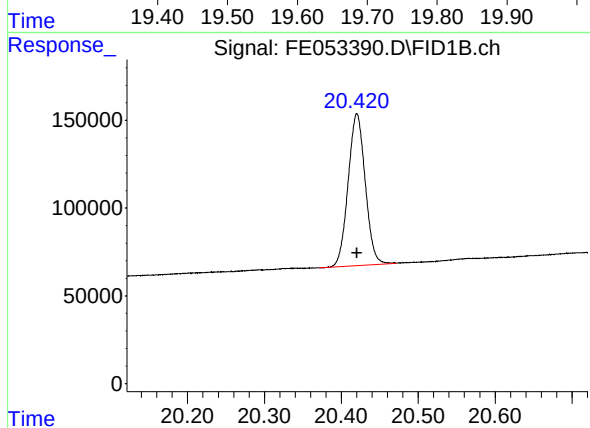
#18 n-Dotriacontane (C32)

R.T.: 18.893 min
Delta R.T.: 0.000 min
Response: 1499644
Conc: 11.09 ug/ml



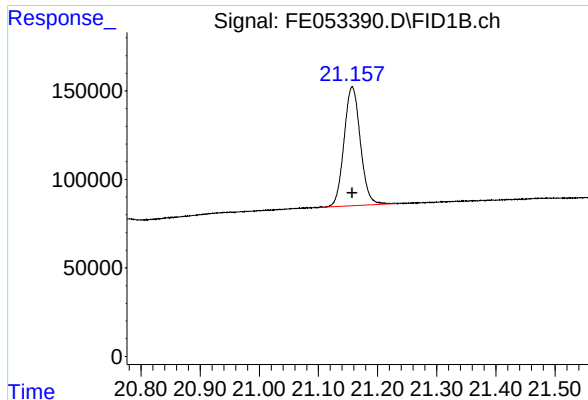
#19 n-Tetratriacontane (C34)

R.T.: 19.678 min
Delta R.T.: 0.000 min
Response: 1400795
Conc: 10.90 ug/ml



#20 n-Hexatriacontane (C36)

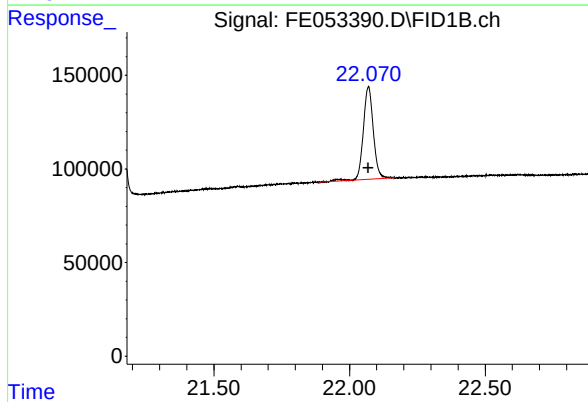
R.T.: 20.420 min
Delta R.T.: 0.000 min
Response: 1333734
Conc: 10.70 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.157 min
Delta R.T.: 0.000 min
Response: 1286878
Conc: 10.68 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.070 min
Delta R.T.: 0.000 min
Response: 1278773
Conc: 10.78 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053390.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 17:36
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.229	3.198	3.301	BB	137884	1427931	75.43%	4.362%
2	4.490	4.451	4.561	BB	139495	1440599	76.10%	4.400%
3	6.204	6.171	6.318	BB	143453	1558579	82.33%	4.761%
4	6.670	6.631	6.748	BB	141302	1457518	76.99%	4.452%
5	7.306	7.188	7.414	BB	134615	1522133	80.41%	4.649%
6	8.507	8.474	8.598	BB	132750	1461405	77.20%	4.464%
7	10.121	10.084	10.208	BB	130075	1500903	79.28%	4.585%
8	11.570	11.531	11.641	BB	128104	1528768	80.76%	4.670%
9	11.884	11.831	11.954	BB	166955	1893058	100.00%	5.782%
10	12.884	12.844	12.951	BB	124033	1532713	80.96%	4.682%
11	13.330	13.288	13.398	BB	115435	1412249	74.60%	4.314%
12	13.498	13.454	13.564	BB	123197	1523248	80.46%	4.653%
13	14.086	14.054	14.151	VB	121695	1528369	80.74%	4.668%
14	15.193	15.128	15.258	BB	119946	1552378	82.00%	4.742%
15	16.217	16.154	16.271	BB	111897	1541972	81.45%	4.710%
16	17.169	17.101	17.234	BB	110581	1526585	80.64%	4.663%
17	18.058	18.018	18.118	BB	108996	1529997	80.82%	4.673%
18	18.893	18.851	18.951	BB	104570	1499644	79.22%	4.581%
19	19.678	19.631	19.741	BB	94427	1400795	74.00%	4.279%
20	20.420	20.371	20.471	BV	86600	1333734	70.45%	4.074%
21	21.157	21.101	21.231	BB	67282	1286878	67.98%	3.931%
22	22.070	21.888	22.171	BB	49964	1278773	67.55%	3.906%
Sum of corrected areas:							32738229	

Aliphatic EPH 041725.M Thu Apr 17 04:27:17 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053391.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 18:06
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Apr 16 18:28:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Wed Apr 16 18:28:37 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)	11.883	940709	5.216 ug/ml
Spiked Amount 50.000		Recovery =	10.43%
12) S 1-chlorooctadecane (S...	13.329	701389	5.189 ug/ml
Spiked Amount 50.000		Recovery =	10.38%
Target Compounds			
1) T n-Nonane (C9)	3.230	707563	5.161 ug/ml
2) T n-Decane (C10)	4.490	710133	5.133 ug/ml
3) T A~Naphthalene (C11.7)	6.204	751368	4.978 ug/ml
4) T n-Dodecane (C12)	6.670	717848	5.118 ug/ml
5) T A~2-methylnaphthalene...	7.306	735745	4.928 ug/ml
6) T n-Tetradecane (C14)	8.506	720666	5.137 ug/ml
7) T n-Hexadecane (C16)	10.120	738140	5.150 ug/ml
8) T n-Octadecane (C18)	11.568	757847	5.200 ug/ml
10) T n-Eicosane (C20)	12.883	761828	5.235 ug/ml
11) T n-Heneicosane (C21)	13.497	759067	5.241 ug/ml
13) T n-Docosane (C22)	14.085	754554	5.229 ug/ml
14) T n-Tetracosane (C24)	15.191	746100	5.194 ug/ml
15) T n-Hexacosane (C26)	16.216	736181	5.198 ug/ml
16) T n-Octacosane (C28)	17.168	725773	5.217 ug/ml
17) T n-Tricontane (C30)	18.057	733475	5.269 ug/ml
18) T n-Dotriacontane (C32)	18.892	729142	5.310 ug/ml
19) T n-Tetratriacontane (C34)	19.677	685913	5.264 ug/ml
20) T n-Hexatriacontane (C36)	20.418	664340	5.262 ug/ml
21) T n-Octatriacontane (C38)	21.155	635999	5.220 ug/ml
22) T n-Tetracontane (C40)	22.069	612014	5.125 ug/ml

(f)=RT Delta > 1/2 Window

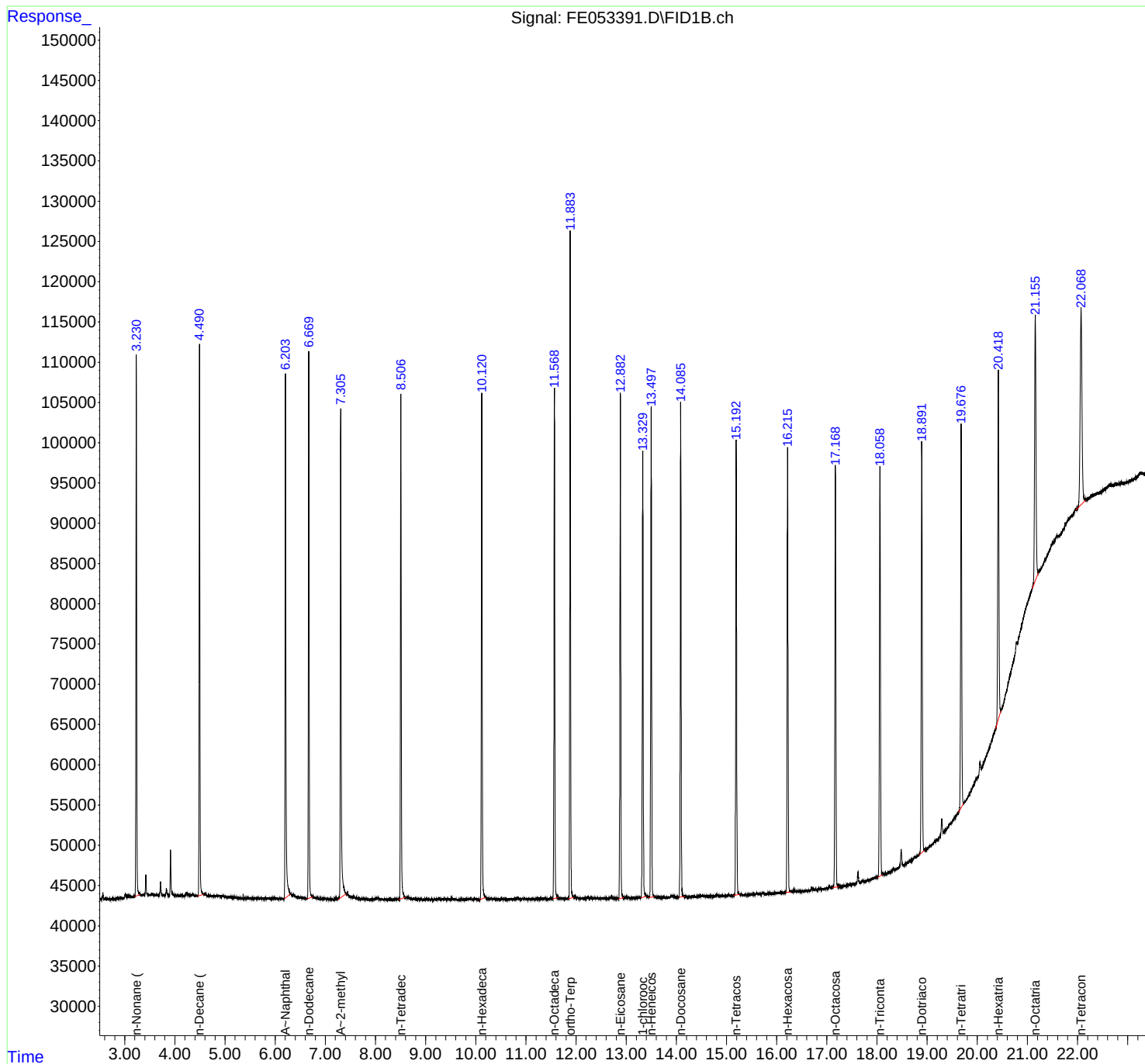
(m)=manual int.

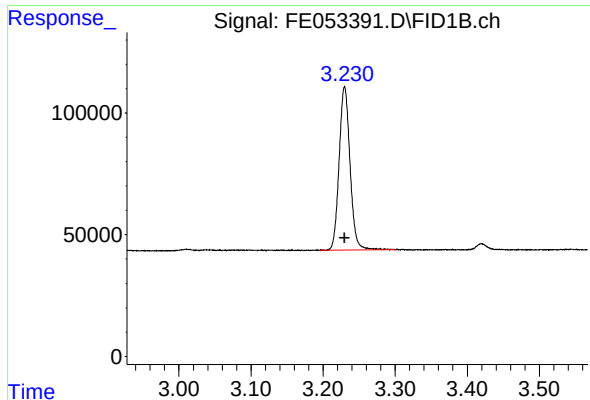
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053391.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 18:06
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Apr 16 18:28:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Wed Apr 16 18:28:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

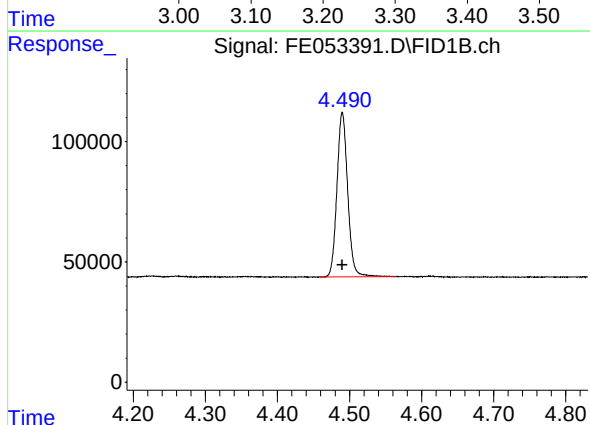




#1 n-Nonane (C9)

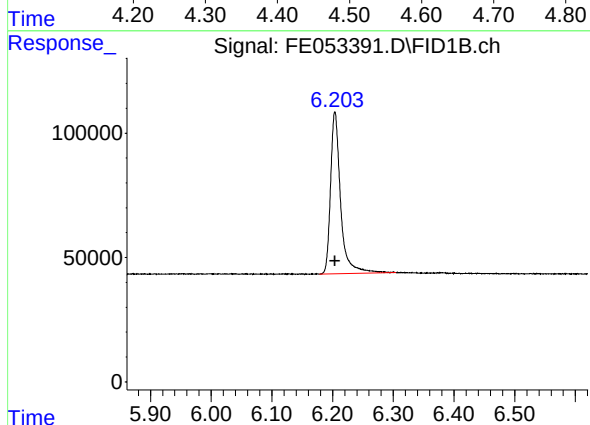
R.T.: 3.230 min
Delta R.T.: 0.000 min
Response: 707563
Conc: 5.16 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



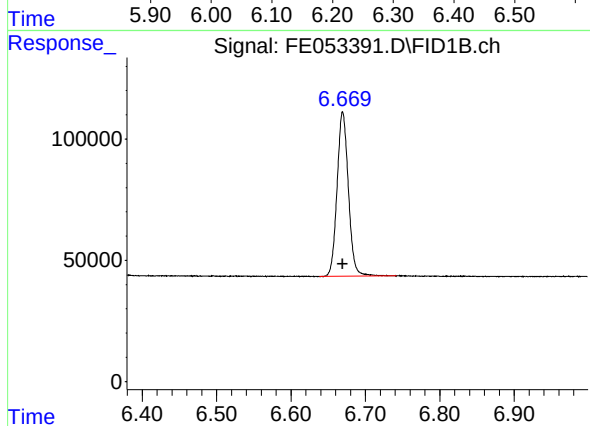
#2 n-Decane (C10)

R.T.: 4.490 min
Delta R.T.: 0.000 min
Response: 710133
Conc: 5.13 ug/ml



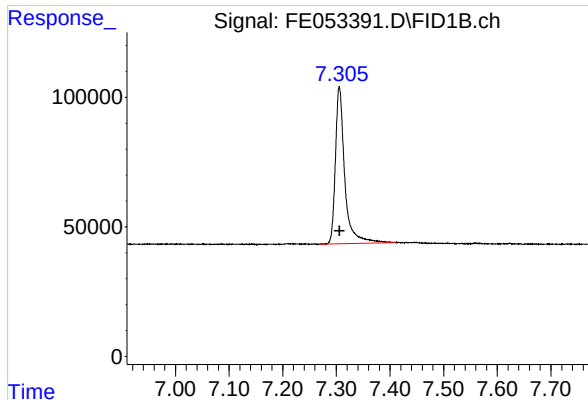
#3 A~Naphthalene (C11.7)

R.T.: 6.204 min
Delta R.T.: 0.000 min
Response: 751368
Conc: 4.98 ug/ml



#4 n-Dodecane (C12)

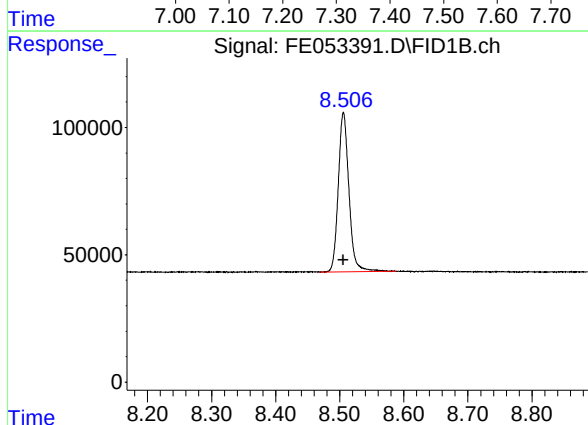
R.T.: 6.670 min
Delta R.T.: 0.000 min
Response: 717848
Conc: 5.12 ug/ml



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

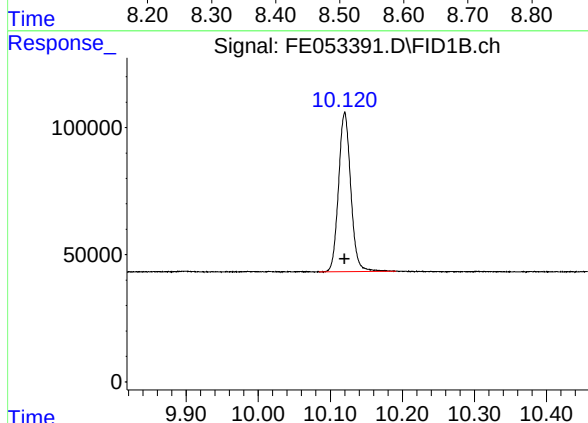
R.T.: 7.306 min
Delta R.T.: 0.000 min
Response: 735745
Conc: 4.93 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



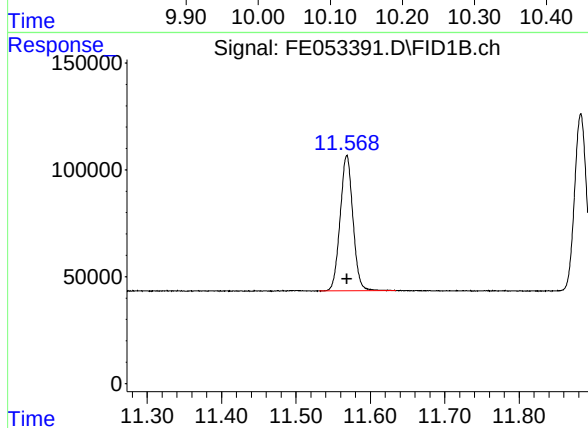
#6 n-Tetradecane (C14)

R.T.: 8.506 min
Delta R.T.: 0.000 min
Response: 720666
Conc: 5.14 ug/ml



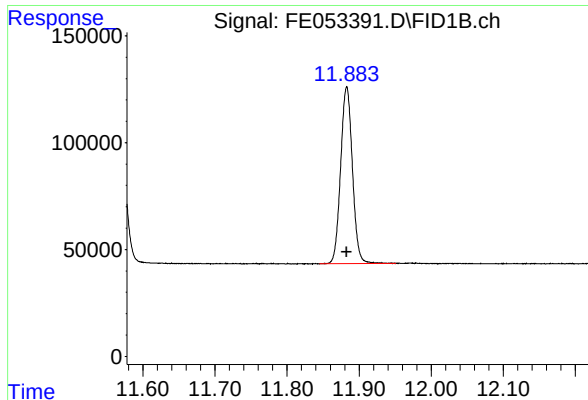
#7 n-Hexadecane (C16)

R.T.: 10.120 min
Delta R.T.: 0.000 min
Response: 738140
Conc: 5.15 ug/ml



#8 n-Octadecane (C18)

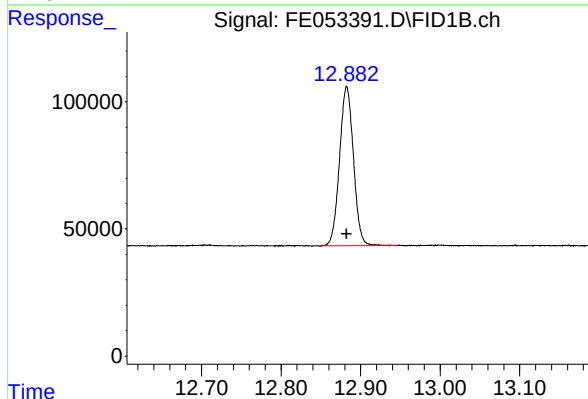
R.T.: 11.568 min
Delta R.T.: 0.000 min
Response: 757847
Conc: 5.20 ug/ml



#9 ortho-Terphenyl (SURR)

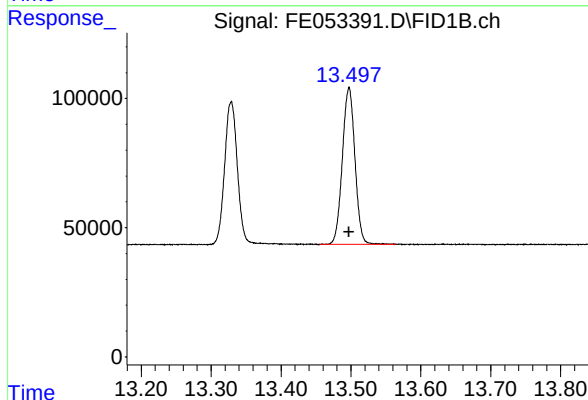
R.T.: 11.883 min
Delta R.T.: 0.000 min
Response: 940709
Conc: 5.22 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



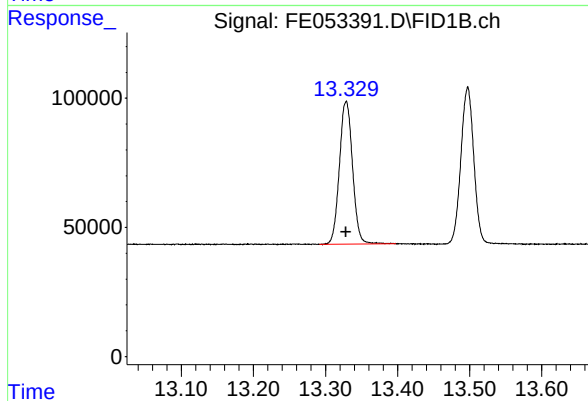
#10 n-Eicosane (C20)

R.T.: 12.883 min
Delta R.T.: 0.000 min
Response: 761828
Conc: 5.24 ug/ml



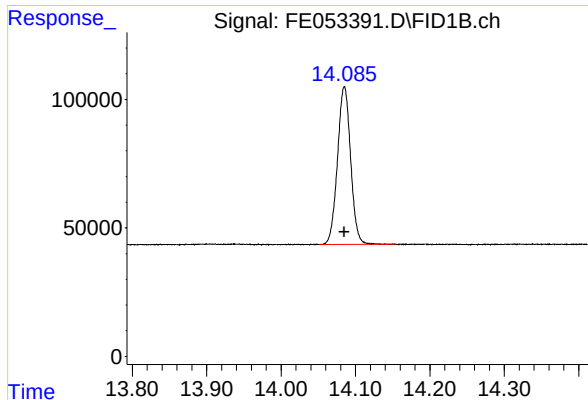
#11 n-Heneicosane (C21)

R.T.: 13.497 min
Delta R.T.: 0.000 min
Response: 759067
Conc: 5.24 ug/ml



#12 1-chlorooctadecane (SURR)

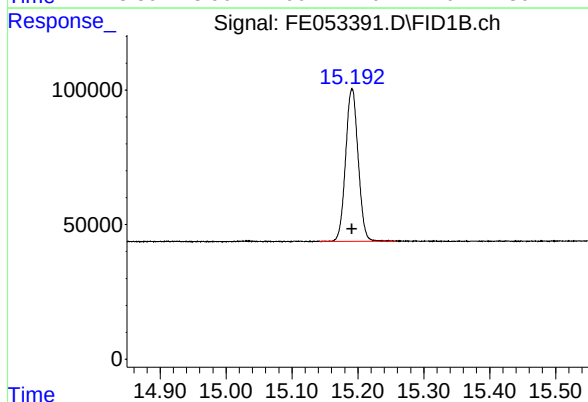
R.T.: 13.329 min
Delta R.T.: 0.000 min
Response: 701389
Conc: 5.19 ug/ml



#13 n-Docosane (C22)

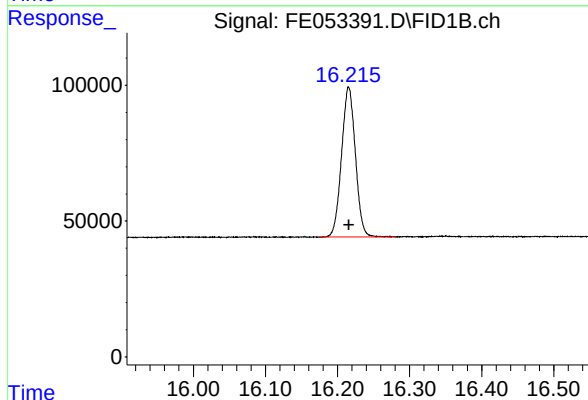
R.T.: 14.085 min
Delta R.T.: 0.000 min
Response: 754554
Conc: 5.23 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



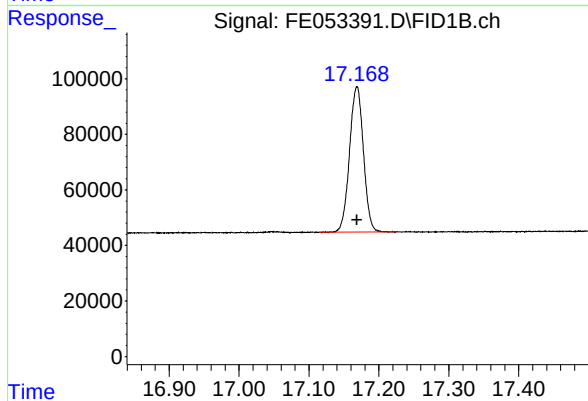
#14 n-Tetracosane (C24)

R.T.: 15.191 min
Delta R.T.: 0.000 min
Response: 746100
Conc: 5.19 ug/ml



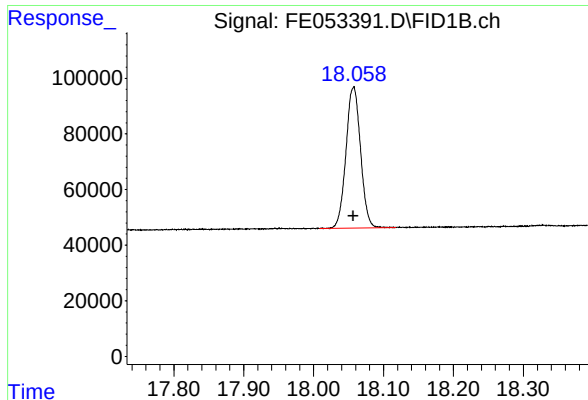
#15 n-Hexacosane (C26)

R.T.: 16.216 min
Delta R.T.: 0.000 min
Response: 736181
Conc: 5.20 ug/ml



#16 n-Octacosane (C28)

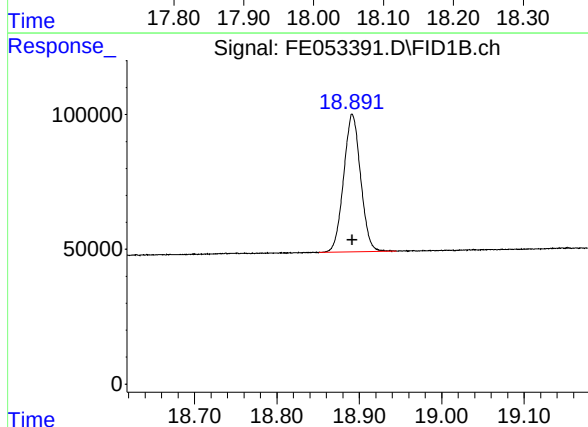
R.T.: 17.168 min
Delta R.T.: 0.000 min
Response: 725773
Conc: 5.22 ug/ml



#17 n-Tricontane (C30)

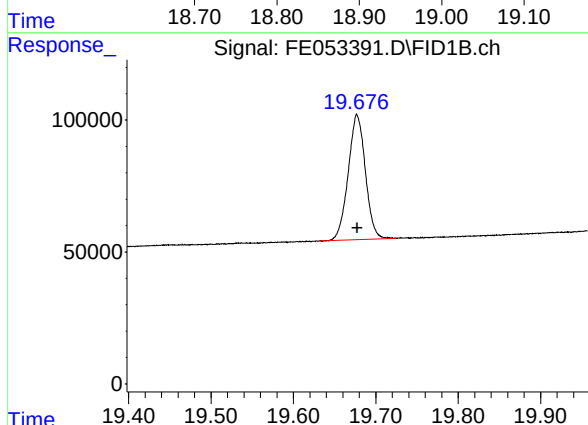
R.T.: 18.057 min
Delta R.T.: 0.000 min
Response: 733475
Conc: 5.27 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



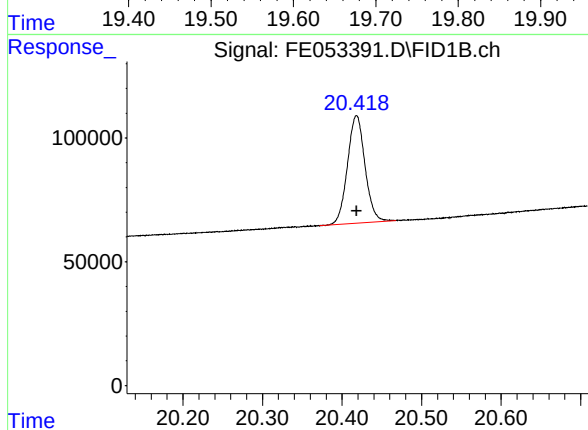
#18 n-Dotriacontane (C32)

R.T.: 18.892 min
Delta R.T.: 0.000 min
Response: 729142
Conc: 5.31 ug/ml



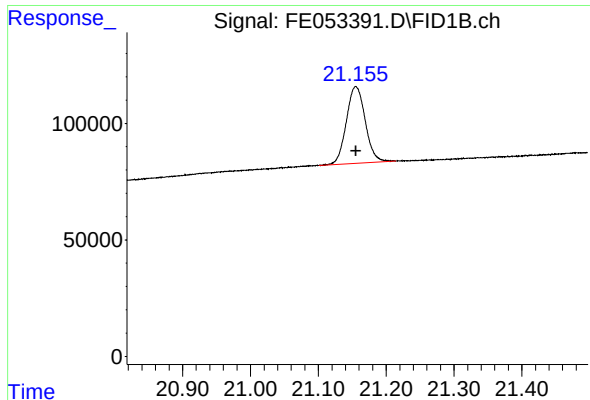
#19 n-Tetatriacontane (C34)

R.T.: 19.677 min
Delta R.T.: 0.000 min
Response: 685913
Conc: 5.26 ug/ml



#20 n-Hexatriacontane (C36)

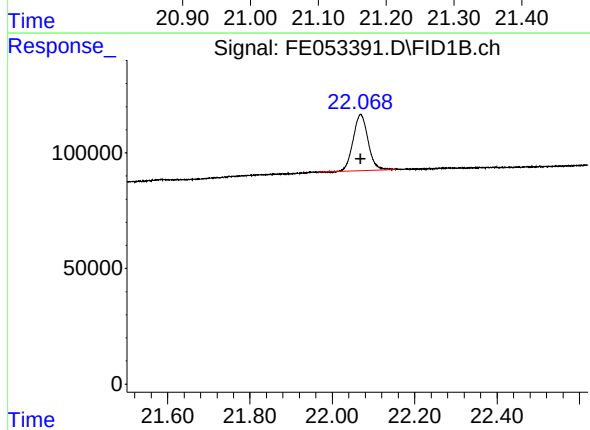
R.T.: 20.418 min
Delta R.T.: 0.000 min
Response: 664340
Conc: 5.26 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.155 min
Delta R.T.: 0.000 min
Response: 635999
Conc: 5.22 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.069 min
Delta R.T.: 0.000 min
Response: 612014
Conc: 5.12 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053391.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 18:06
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.230	3.194	3.301	BB	66905	707563	75.22%	4.415%
2	4.490	4.458	4.564	BB	68084	710133	75.49%	4.431%
3	6.204	6.178	6.304	BB	64926	751368	79.87%	4.688%
4	6.670	6.638	6.741	BB	66816	717848	76.31%	4.479%
5	7.306	7.268	7.411	BB	60660	735745	78.21%	4.591%
6	8.506	8.468	8.588	BB	62390	720666	76.61%	4.497%
7	10.120	10.084	10.191	BB	62482	738140	78.47%	4.606%
8	11.568	11.531	11.634	BB	63215	757847	80.56%	4.729%
9	11.883	11.844	11.951	BB	82336	940709	100.00%	5.870%
10	12.883	12.848	12.944	BB	62339	761828	80.98%	4.754%
11	13.329	13.291	13.398	BB	55184	701389	74.56%	4.377%
12	13.497	13.454	13.564	BB	60842	759067	80.69%	4.737%
13	14.085	14.051	14.154	BB	61412	754554	80.21%	4.708%
14	15.191	15.141	15.258	BB	56621	746100	79.31%	4.656%
15	16.216	16.174	16.281	BB	55228	736181	78.26%	4.594%
16	17.168	17.114	17.224	BB	52307	725773	77.15%	4.529%
17	18.057	18.008	18.118	BB	50834	733475	77.97%	4.577%
18	18.892	18.851	18.944	BB	51161	729142	77.51%	4.550%
19	19.677	19.631	19.724	BB	47166	685913	72.91%	4.280%
20	20.418	20.371	20.468	BB	43445	664340	70.62%	4.145%
21	21.155	21.101	21.214	BB	32956	635999	67.61%	3.969%
22	22.069	21.968	22.154	BB	24342	612014	65.06%	3.819%
Sum of corrected areas:							16025793	

Aliphatic EPH 041725.M Thu Apr 17 04:27:35 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
 Data File : FE053392.D
 Signal(s) : FID1B.ch
 Acq On : 16 Apr 2025 18:36
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Apr 16 19:24:24 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Wed Apr 16 18:29:18 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)	11.884	3592156	19.916 ug/ml
Spiked Amount 50.000		Recovery =	39.83%
12) S 1-chlorooctadecane (S...	13.329	2698440	19.962 ug/ml
Spiked Amount 50.000		Recovery =	39.92%
Target Compounds			
1) T n-Nonane (C9)	3.229	2729694	19.910 ug/ml
2) T n-Decane (C10)	4.490	2748010	19.865 ug/ml
3) T A~Naphthalene (C11.7)	6.202	3014099	19.968 ug/ml
4) T n-Dodecane (C12)	6.669	2785938	19.864 ug/ml
5) T A~2-methylnaphthalene...	7.304	2998640	20.084 ug/ml
6) T n-Tetradecane (C14)	8.506	2790709	19.892 ug/ml
7) T n-Hexadecane (C16)	10.120	2856402	19.930 ug/ml
8) T n-Octadecane (C18)	11.570	2904509	19.930 ug/ml
10) T n-Eicosane (C20)	12.884	2899926	19.929 ug/ml
11) T n-Heneicosane (C21)	13.497	2887388	19.934 ug/ml
13) T n-Docosane (C22)	14.085	2871168	19.897 ug/ml
14) T n-Tetracosane (C24)	15.192	2844489	19.803 ug/ml
15) T n-Hexacosane (C26)	16.216	2796796	19.747 ug/ml
16) T n-Octacosane (C28)	17.168	2737911	19.679 ug/ml
17) T n-Tricontane (C30)	18.058	2734044	19.642 ug/ml
18) T n-Dotriacontane (C32)	18.892	2693828	19.619 ug/ml
19) T n-Tetratriacontane (C34)	19.677	2567446	19.705 ug/ml
20) T n-Hexatriacontane (C36)	20.418	2523463	19.988 ug/ml
21) T n-Octatriacontane (C38)	21.155	2409665	19.779 ug/ml
22) T n-Tetracontane (C40)	22.067	2357865	19.744 ug/ml

(f)=RT Delta > 1/2 Window

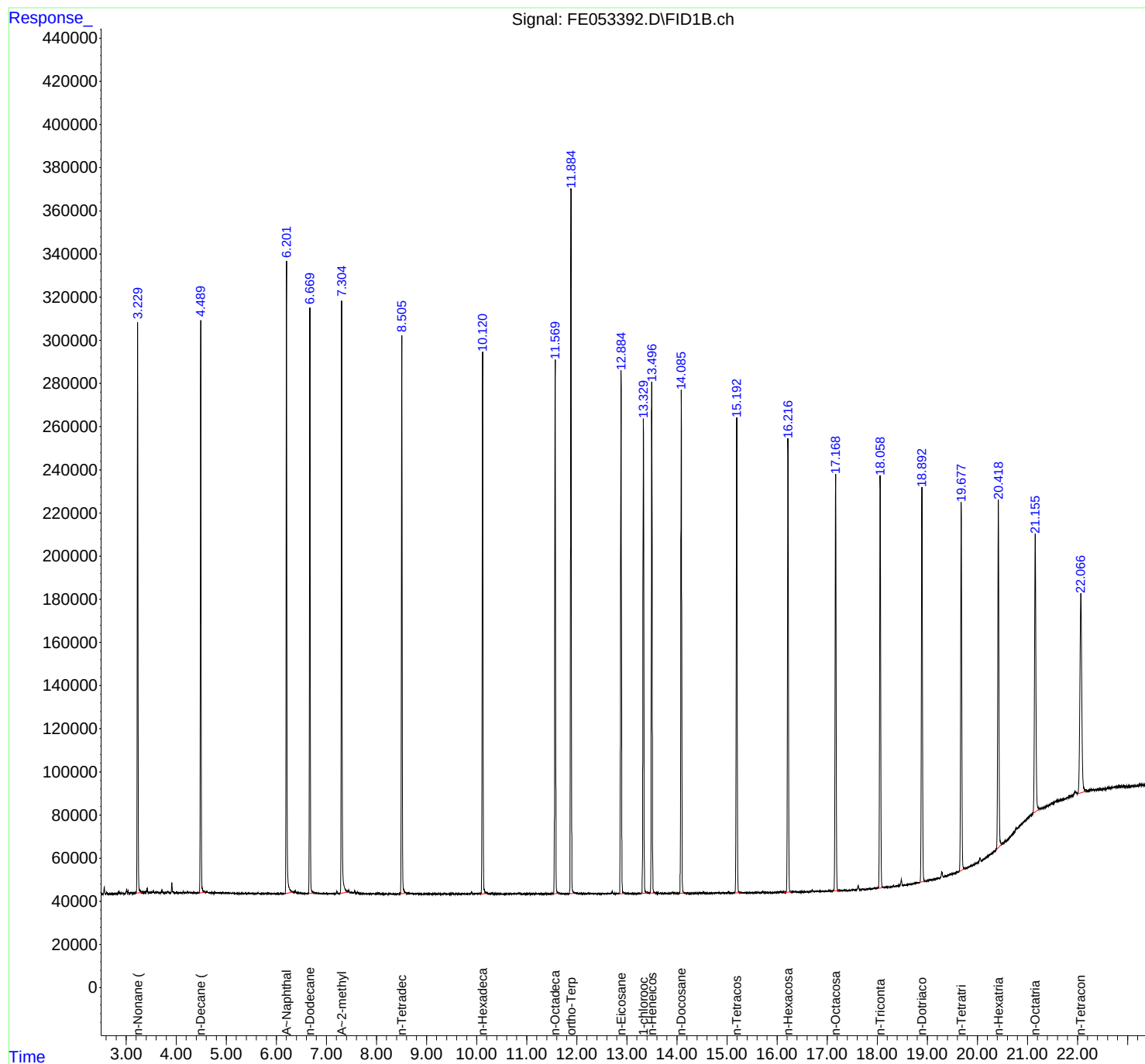
(m)=manual int.

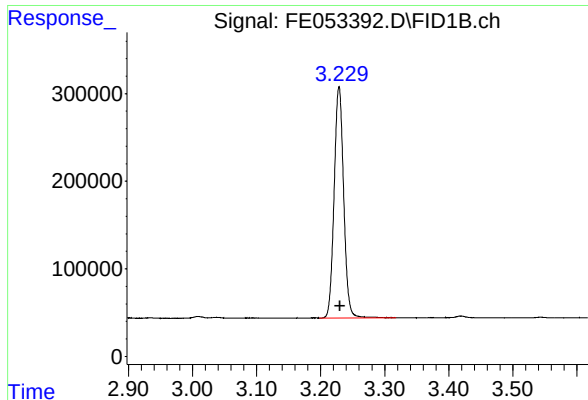
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053392.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 18:36
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Apr 16 19:24:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Wed Apr 16 18:29:18 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)

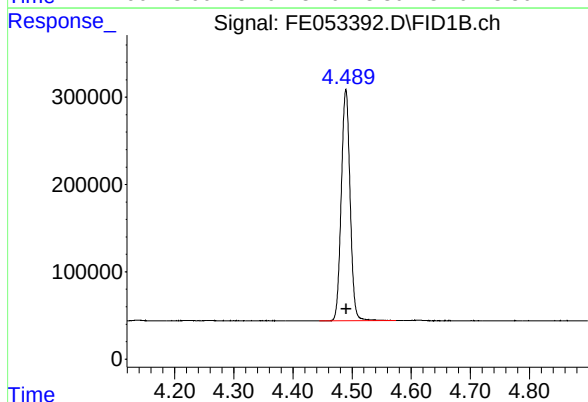
R.T.: 3.229 min
Delta R.T.: -0.001 min
Response: 2729694
Conc: 19.91 ug/ml

Instrument :

FID_E

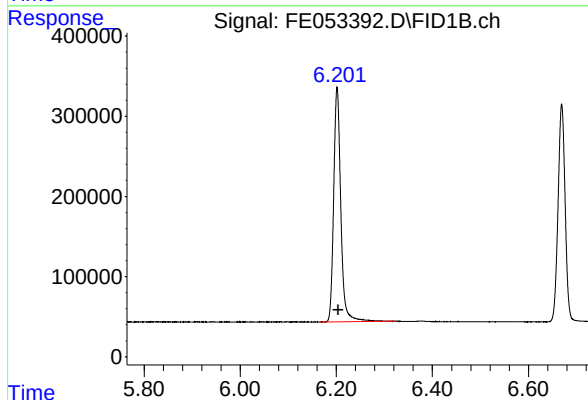
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



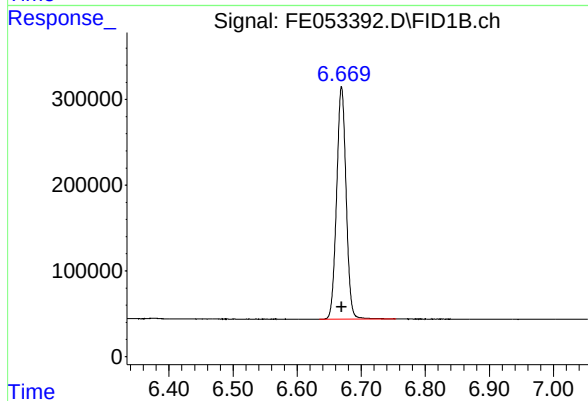
#2 n-Decane (C10)

R.T.: 4.490 min
Delta R.T.: 0.000 min
Response: 2748010
Conc: 19.86 ug/ml



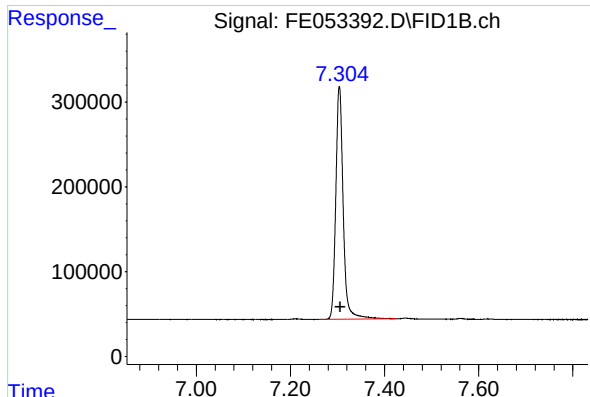
#3 A~Naphthalene (C11.7)

R.T.: 6.202 min
Delta R.T.: -0.002 min
Response: 3014099
Conc: 19.97 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.669 min
Delta R.T.: 0.000 min
Response: 2785938
Conc: 19.86 ug/ml



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

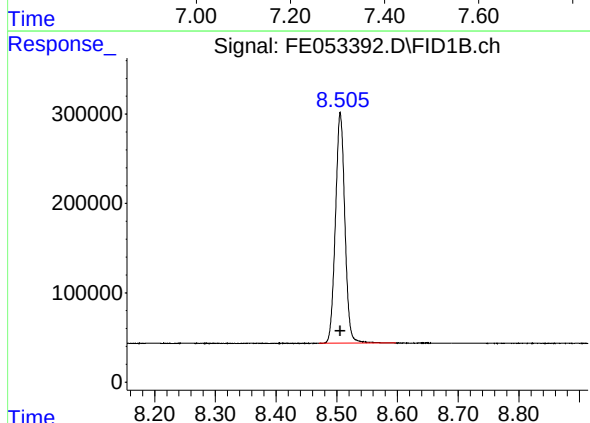
R.T.: 7.304 min
Delta R.T.: -0.002 min
Response: 2998640
Conc: 20.08 ug/ml

Instrument :

FID_E

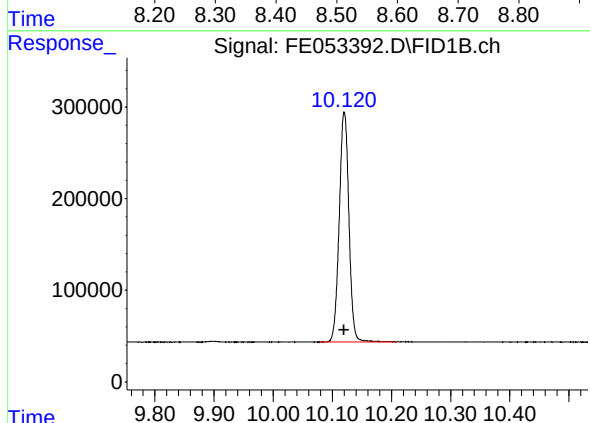
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



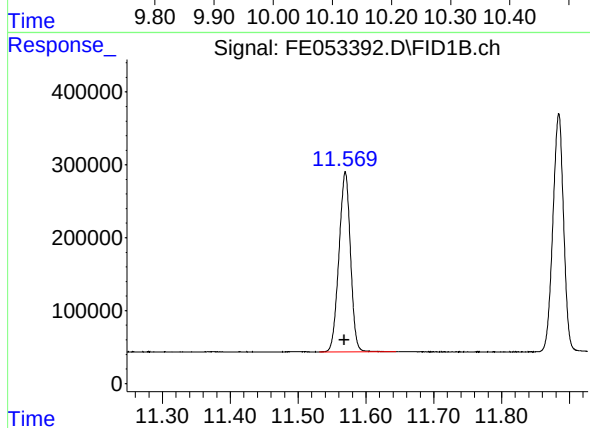
#6 n-Tetradecane (C14)

R.T.: 8.506 min
Delta R.T.: 0.000 min
Response: 2790709
Conc: 19.89 ug/ml



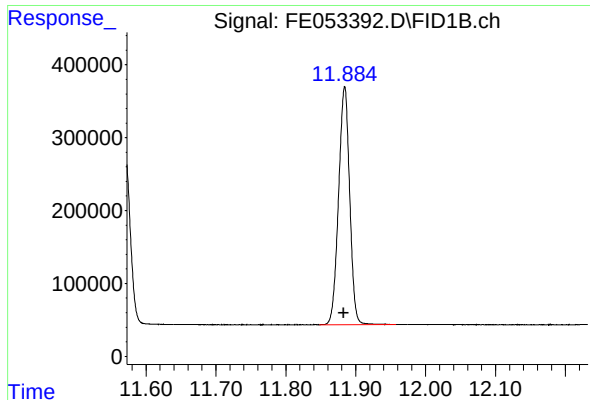
#7 n-Hexadecane (C16)

R.T.: 10.120 min
Delta R.T.: 0.000 min
Response: 2856402
Conc: 19.93 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.570 min
Delta R.T.: 0.001 min
Response: 2904509
Conc: 19.93 ug/ml



#9 ortho-Terphenyl (SURR)

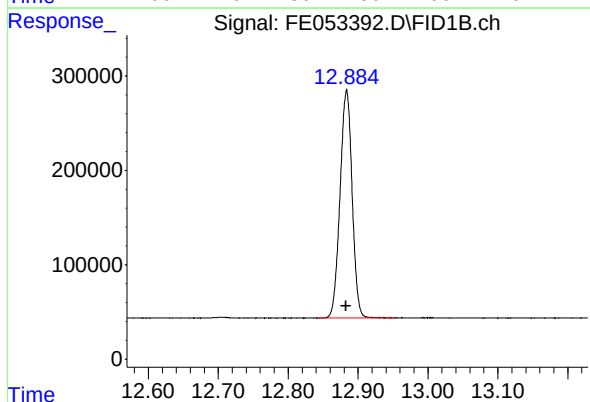
R.T.: 11.884 min
Delta R.T.: 0.001 min
Response: 3592156
Conc: 19.92 ug/ml

Instrument :

FID_E

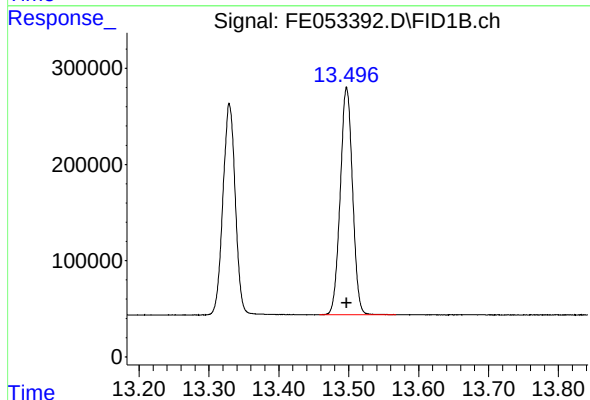
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



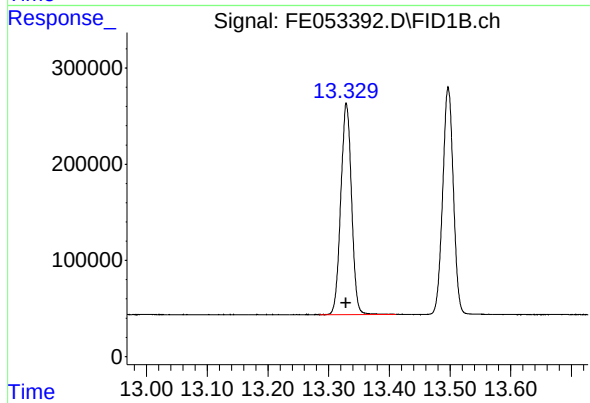
#10 n-Eicosane (C20)

R.T.: 12.884 min
Delta R.T.: 0.001 min
Response: 2899926
Conc: 19.93 ug/ml



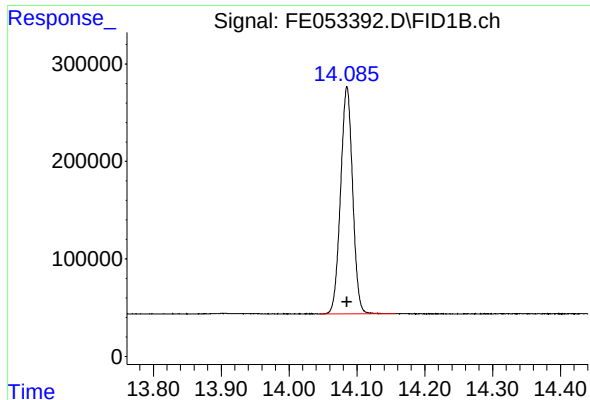
#11 n-Heneicosane (C21)

R.T.: 13.497 min
Delta R.T.: 0.000 min
Response: 2887388
Conc: 19.93 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.329 min
Delta R.T.: 0.000 min
Response: 2698440
Conc: 19.96 ug/ml



#13 n-Docosane (C22)

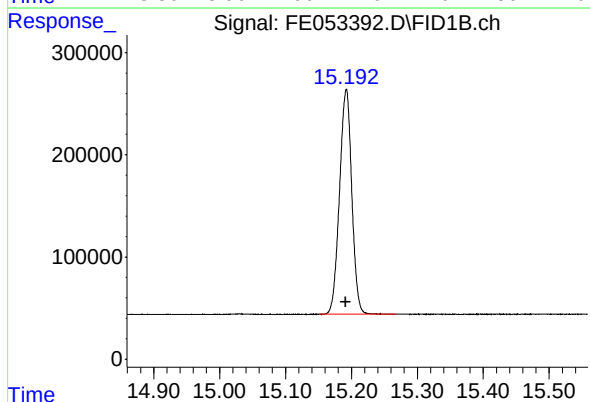
R.T.: 14.085 min
Delta R.T.: 0.000 min
Response: 2871168
Conc: 19.90 ug/ml

Instrument :

FID_E

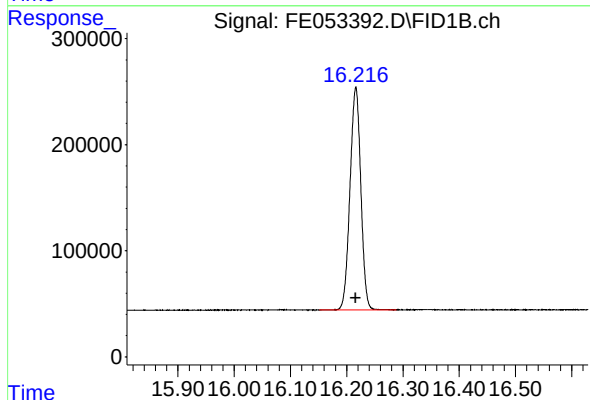
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



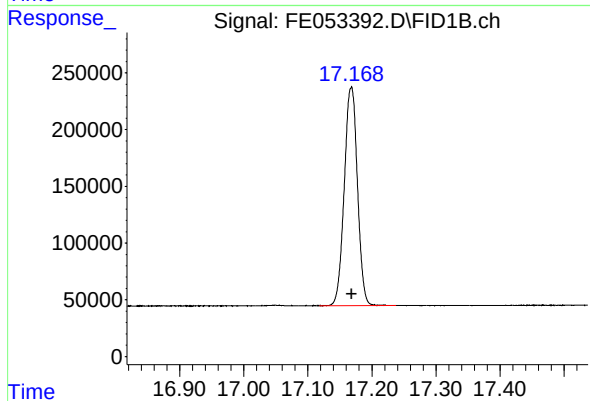
#14 n-Tetracosane (C24)

R.T.: 15.192 min
Delta R.T.: 0.000 min
Response: 2844489
Conc: 19.80 ug/ml



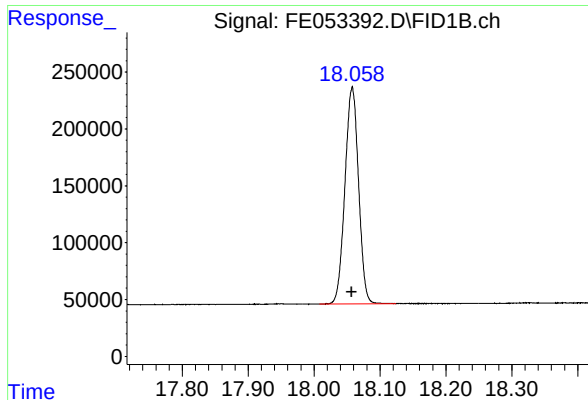
#15 n-Hexacosane (C26)

R.T.: 16.216 min
Delta R.T.: 0.000 min
Response: 2796796
Conc: 19.75 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.168 min
Delta R.T.: 0.000 min
Response: 2737911
Conc: 19.68 ug/ml



#17 n-Tricontane (C30)

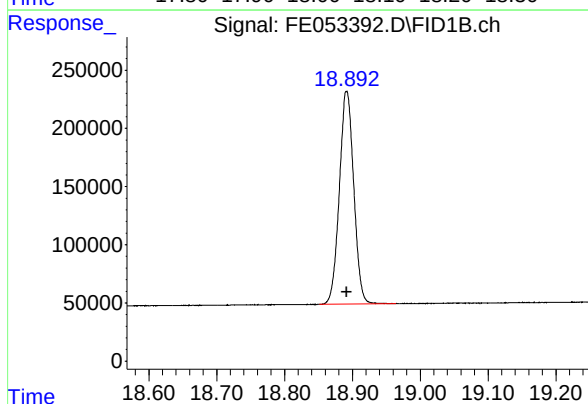
R.T.: 18.058 min
Delta R.T.: 0.000 min
Response: 2734044
Conc: 19.64 ug/ml

Instrument :

FID_E

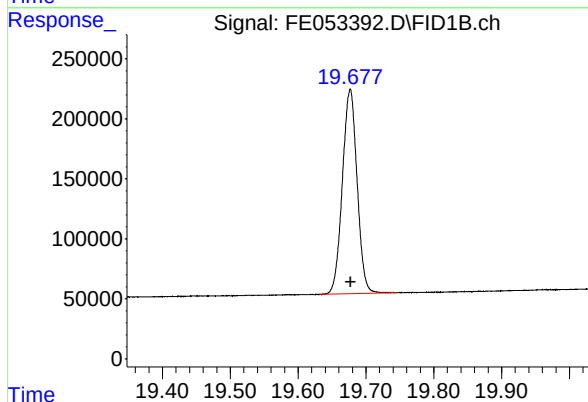
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



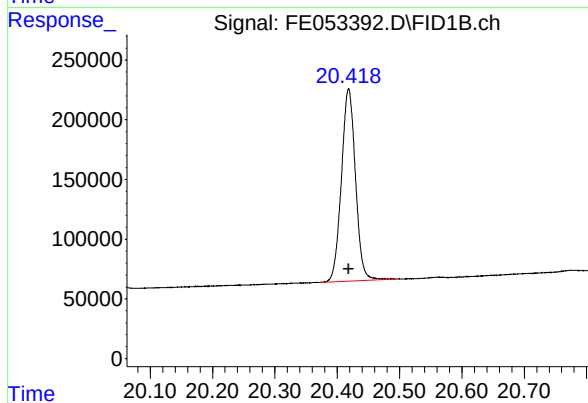
#18 n-Dotriacontane (C32)

R.T.: 18.892 min
Delta R.T.: 0.000 min
Response: 2693828
Conc: 19.62 ug/ml



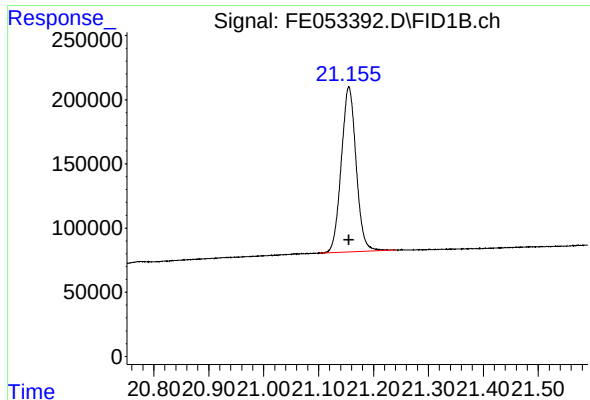
#19 n-Tetatriacontane (C34)

R.T.: 19.677 min
Delta R.T.: 0.000 min
Response: 2567446
Conc: 19.71 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.418 min
Delta R.T.: 0.000 min
Response: 2523463
Conc: 19.99 ug/ml



#21 n-Octatriacontane (C38)

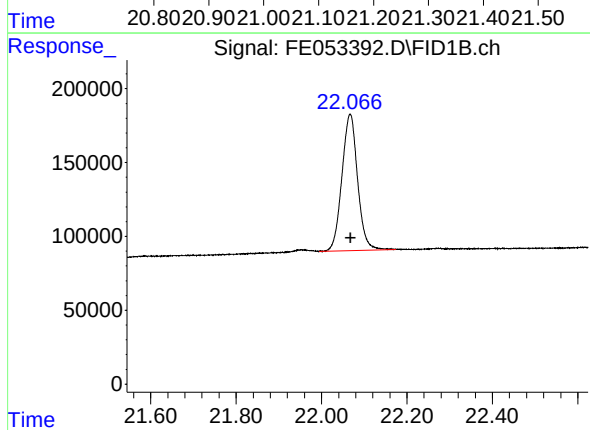
R.T.: 21.155 min
Delta R.T.: 0.000 min
Response: 2409665
Conc: 19.78 ug/ml

Instrument :

FID_E

ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.067 min
Delta R.T.: -0.002 min
Response: 2357865
Conc: 19.74 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053392.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 18:36
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.229	3.198	3.318	BB	263521	2729694	75.99%	4.443%
2	4.490	4.444	4.574	BB	265180	2748010	76.50%	4.472%
3	6.202	6.164	6.324	BB	291196	3014099	83.91%	4.906%
4	6.669	6.634	6.754	BB	269490	2785938	77.56%	4.534%
5	7.304	7.261	7.424	BV	275117	2998640	83.48%	4.880%
6	8.506	8.471	8.598	BB	254552	2790709	77.69%	4.542%
7	10.120	10.078	10.208	BB	250998	2856402	79.52%	4.649%
8	11.570	11.531	11.644	BB	247517	2904509	80.86%	4.727%
9	11.884	11.848	11.958	BB	327117	3592156	100.00%	5.846%
10	12.884	12.844	12.954	BB	241267	2899926	80.73%	4.720%
11	13.329	13.284	13.411	BB	217408	2698440	75.12%	4.392%
12	13.497	13.458	13.568	BB	235681	2887388	80.38%	4.699%
13	14.085	14.044	14.158	BB	231989	2871168	79.93%	4.673%
14	15.192	15.151	15.268	BB	218527	2844489	79.19%	4.630%
15	16.216	16.151	16.288	BB	210624	2796796	77.86%	4.552%
16	17.168	17.118	17.238	BB	192634	2737911	76.22%	4.456%
17	18.058	18.008	18.124	BB	190258	2734044	76.11%	4.450%
18	18.892	18.851	18.964	BB	183755	2693828	74.99%	4.384%
19	19.677	19.631	19.744	BB	170916	2567446	71.47%	4.179%
20	20.418	20.371	20.494	BB	160885	2523463	70.25%	4.107%
21	21.155	21.101	21.241	BB	128552	2409665	67.08%	3.922%
22	22.067	21.994	22.174	VB	92395	2357865	65.64%	3.838%
Sum of corrected areas:							61442583	

Aliphatic EPH 041725.M Thu Apr 17 04:27:52 2025

Continuing Calibration Report for SequenceID : FC050225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC068748.D

Aliphatic C9-C12	5997337.000	60.000	3.343	6.645	99955.617	105282.003	5.059
Aliphatic C12-C16	3867344.000	40.000	6.646	10.046	96683.600	102322.575	5.511
Aliphatic C16-C21	5592959.000	60.000	10.047	13.415	93215.983	98816.539	5.668
Aliphatic C21-C28	7186492.000	80.000	13.416	17.079	89831.150	94185.337	4.623
Aliphatic C28-C40	11519078.000	120.000	17.080	22.085	95992.317	89882.835	-6.797
Aliphatic EPH	34163210.000	360.000	3.343	22.085	94897.806	96276.618	1.432

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	02 May 2025 15:56
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068748.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.343	6.645	5997337.000	60.000	ug/ml
Aliphatic C12-C16	6.646	10.046	3867344.000	40.000	ug/ml
Aliphatic C16-C21	10.047	13.415	5592959.000	60.000	ug/ml
Aliphatic C21-C28	13.416	17.079	7186492.000	80.000	ug/ml
Aliphatic C28-C40	17.080	22.085	11519078.000	120.000	ug/ml
Aliphatic EPH	3.343	22.085	34163210.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068748.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 15:56
 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 05/05/2025
 Supervised By :mohammad ahmed 05/06/2025

Integration File: sample.E
 Quant Time: May 03 00:41:39 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.714	2369412	18.607 ug/ml
Spiked Amount 50.000		Recovery =	37.21%
12) S 1-chlorooctadecane (S...	13.148	1723421	18.553 ug/ml
Spiked Amount 50.000		Recovery =	37.11%
Target Compounds			
1) T n-Nonane (C9)	3.443	1994255	18.935 ug/ml
2) T n-Decane (C10)	4.519	2010147	19.079 ug/ml
3) T A~Naphthalene (C11.7)	6.117	2191764	18.820 ug/ml
4) T n-Dodecane (C12)	6.545	1992935	18.951 ug/ml
5) T A~2-methylnaphthalene...	7.175	2170103	18.789 ug/ml
6) T n-Tetradecane (C14)	8.343	1942804	18.898 ug/ml
7) T n-Hexadecane (C16)	9.946	1924540	18.897 ug/ml
8) T n-Octadecane (C18)	11.390	1903499	18.915 ug/ml
10) T n-Eicosane (C20)	12.700	1854397	18.853 ug/ml
11) T n-Heneicosane (C21)	13.314	1835063	18.829 ug/ml
13) T n-Docosane (C22)	13.901	1823135	18.874 ug/ml
14) T n-Tetracosane (C24)	15.005	1795062	18.859 ug/ml
15) T n-Hexacosane (C26)	16.028	1771024	18.961 ug/ml
16) T n-Octacosane (C28)	16.979	1797271	19.630 ug/ml
17) T n-Tricontane (C30)	17.869	1924385	20.933 ug/ml
18) T n-Dotriacontane (C32)	18.703	1987564	21.668 ug/ml
19) T n-Tetratriacontane (C34)	19.487	1927750	21.578 ug/ml
20) T n-Hexatriacontane (C36)	20.228	1923073	21.468 ug/ml
21) T n-Octatriacontane (C38)	21.001	1894929	21.433 ug/mlm
22) T n-Tetracontane (C40)	21.982	1861377	21.079 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068748.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 15:56
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

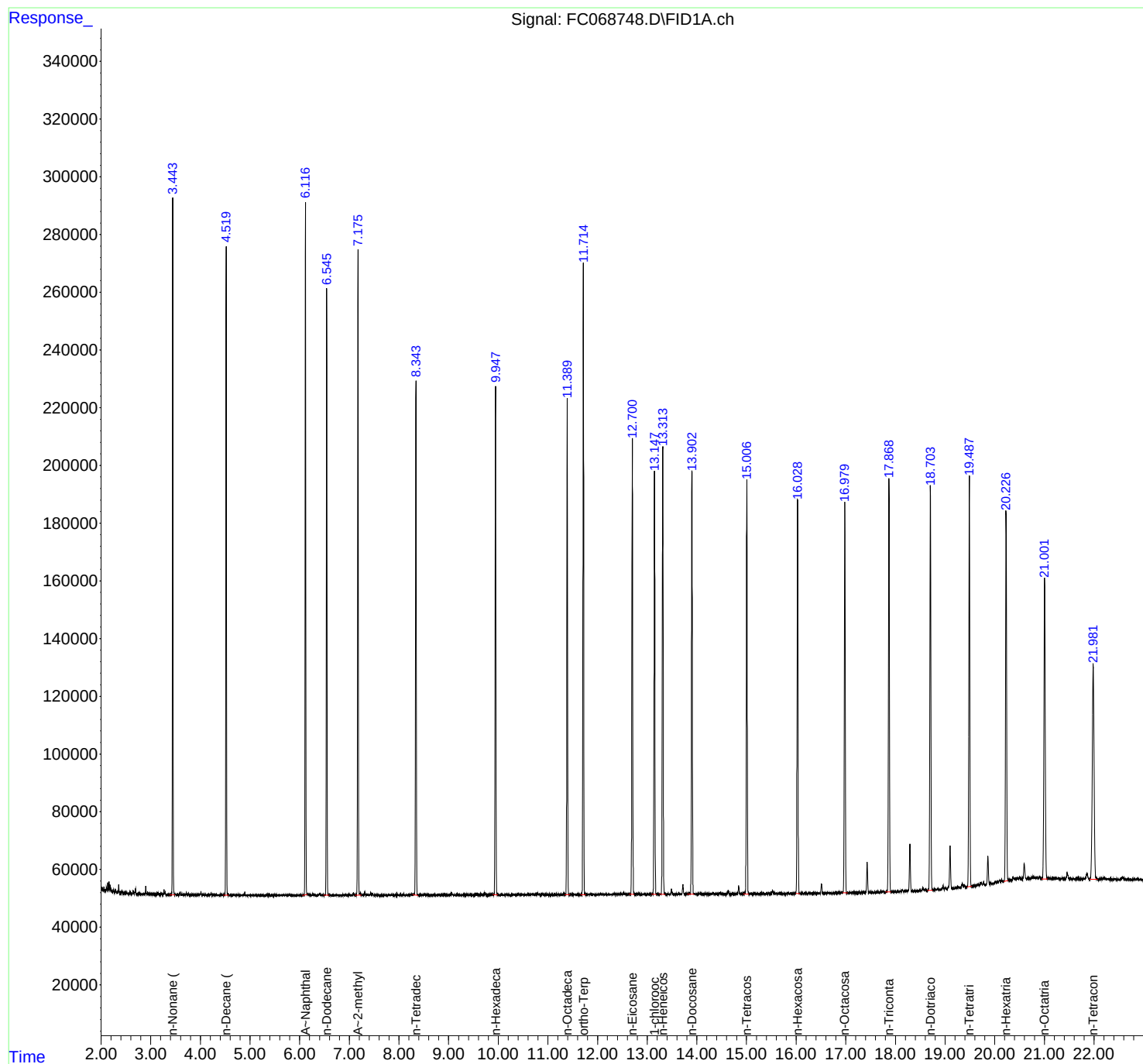
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/05/2025
Supervised By :mohammad ahmed 05/06/2025

Integration File: sample.E
Quant Time: May 03 00:41:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 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
LabSampleId :
20 PPM ALIPHATIC HC STD
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/05/2025
Supervised By :mohammad ahmed 05/06/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC05022
Data File : FC068748.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 15:56
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 040925.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	3.443	3.377	3.484	BV	241296	1994255	84.17%	4.681%
2	4.519	4.462	4.564	BB	223742	2010147	84.84%	4.718%
3	6.117	6.059	6.160	BB	240167	2191764	92.50%	5.144%
4	6.545	6.489	6.590	BB	209885	1992935	84.11%	4.678%
5	7.175	7.110	7.245	BB	223991	2170103	91.59%	5.093%
6	8.343	8.279	8.380	BB	177569	1942804	82.00%	4.560%
7	9.946	9.884	9.989	BB	176223	1924540	81.22%	4.517%
8	11.390	11.342	11.440	BB	171659	1903499	80.34%	4.468%
9	11.714	11.654	11.762	BB	219174	2369412	100.00%	5.561%
10	12.700	12.640	12.742	BB	157644	1854397	78.26%	4.352%
11	13.148	13.087	13.180	BB	147351	1723421	72.74%	4.045%
12	13.314	13.252	13.365	BB	154700	1835063	77.45%	4.307%
13	13.901	13.805	13.950	BB	146167	1823135	76.94%	4.279%
14	15.005	14.935	15.040	BB	142682	1795062	75.76%	4.213%
15	16.028	15.990	16.072	BB	137032	1771024	74.75%	4.157%
16	16.979	16.935	17.032	BB	135333	1797271	75.85%	4.218%
17	17.869	17.804	17.914	BB	143208	1924385	81.22%	4.517%
18	18.703	18.642	18.754	BB	140211	1987564	83.88%	4.665%
19	19.487	19.440	19.535	BB	141718	1927750	81.36%	4.525%
20	20.228	20.180	20.267	BB	126387	1923073	81.16%	4.514%
21	21.004	20.860	21.074	BB	102910	1882794	79.46%	4.419%
22	21.982	21.914	22.074	BB	74654	1861377	78.56%	4.369%
Sum of corrected areas:						42605774		

Aliphatic EPH 040925.M Sat May 03 03:30:09 2025

Continuing Calibration Report for SequenceID : FC050225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC068758.D

Aliphatic C9-C12	5796149.000	60.000	3.343	6.645	96602.483	105282.003	8.244
Aliphatic C12-C16	3655219.000	40.000	6.646	10.046	91380.475	102322.575	10.694
Aliphatic C16-C21	5276212.000	60.000	10.047	13.415	87936.867	98816.539	11.010
Aliphatic C21-C28	6971161.000	80.000	13.416	17.079	87139.513	94185.337	7.481
Aliphatic C28-C40	11514316.000	120.000	17.080	22.085	95952.633	89882.835	-6.753
Aliphatic EPH	33213057.000	360.000	3.343	22.085	92258.492	96276.618	4.174

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	02 May 2025 22:47
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068758.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.343	6.645	5796149.000	60.000	ug/ml
Aliphatic C12-C16	6.646	10.046	3655219.000	40.000	ug/ml
Aliphatic C16-C21	10.047	13.415	5276212.000	60.000	ug/ml
Aliphatic C21-C28	13.416	17.079	6971161.000	80.000	ug/ml
Aliphatic C28-C40	17.080	22.085	11514316.000	120.000	ug/ml
Aliphatic EPH	3.343	22.085	33213057.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068758.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 22:47
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: May 05 11:50:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.712	2299159	18.056 ug/ml
Spiked Amount 50.000		Recovery =	36.11%
12) S 1-chlorooctadecane (S...	13.146	1649010	17.752 ug/ml
Spiked Amount 50.000		Recovery =	35.50%
Target Compounds			
1) T n-Nonane (C9)	3.442	1937428	18.395 ug/ml
2) T n-Decane (C10)	4.519	1946987	18.479 ug/ml
3) T A~Naphthalene (C11.7)	6.116	2146666	18.433 ug/ml
4) T n-Dodecane (C12)	6.544	1911734	18.179 ug/ml
5) T A~2-methylnaphthalene...	7.174	2104999	18.225 ug/ml
6) T n-Tetradecane (C14)	8.342	1844910	17.946 ug/ml
7) T n-Hexadecane (C16)	9.945	1810309	17.776 ug/ml
8) T n-Octadecane (C18)	11.388	1794622	17.833 ug/ml
10) T n-Eicosane (C20)	12.699	1747544	17.767 ug/ml
11) T n-Heneicosane (C21)	13.312	1734046	17.793 ug/ml
13) T n-Docosane (C22)	13.899	1732538	17.936 ug/ml
14) T n-Tetracosane (C24)	15.004	1735217	18.230 ug/ml
15) T n-Hexacosane (C26)	16.025	1726157	18.480 ug/ml
16) T n-Octacosane (C28)	16.977	1777249	19.411 ug/ml
17) T n-Tricontane (C30)	17.866	1922672	20.914 ug/ml
18) T n-Dotriacontane (C32)	18.698	1999382	21.797 ug/ml
19) T n-Tetratriacontane (C34)	19.483	1930280	21.606 ug/ml
20) T n-Hexatriacontane (C36)	20.224	1922291	21.459 ug/ml
21) T n-Octatriacontane (C38)	21.002	1883193	21.300 ug/ml
22) T n-Tetracontane (C40)	21.979	1856498	21.023 ug/ml

(f)=RT Delta > 1/2 Window

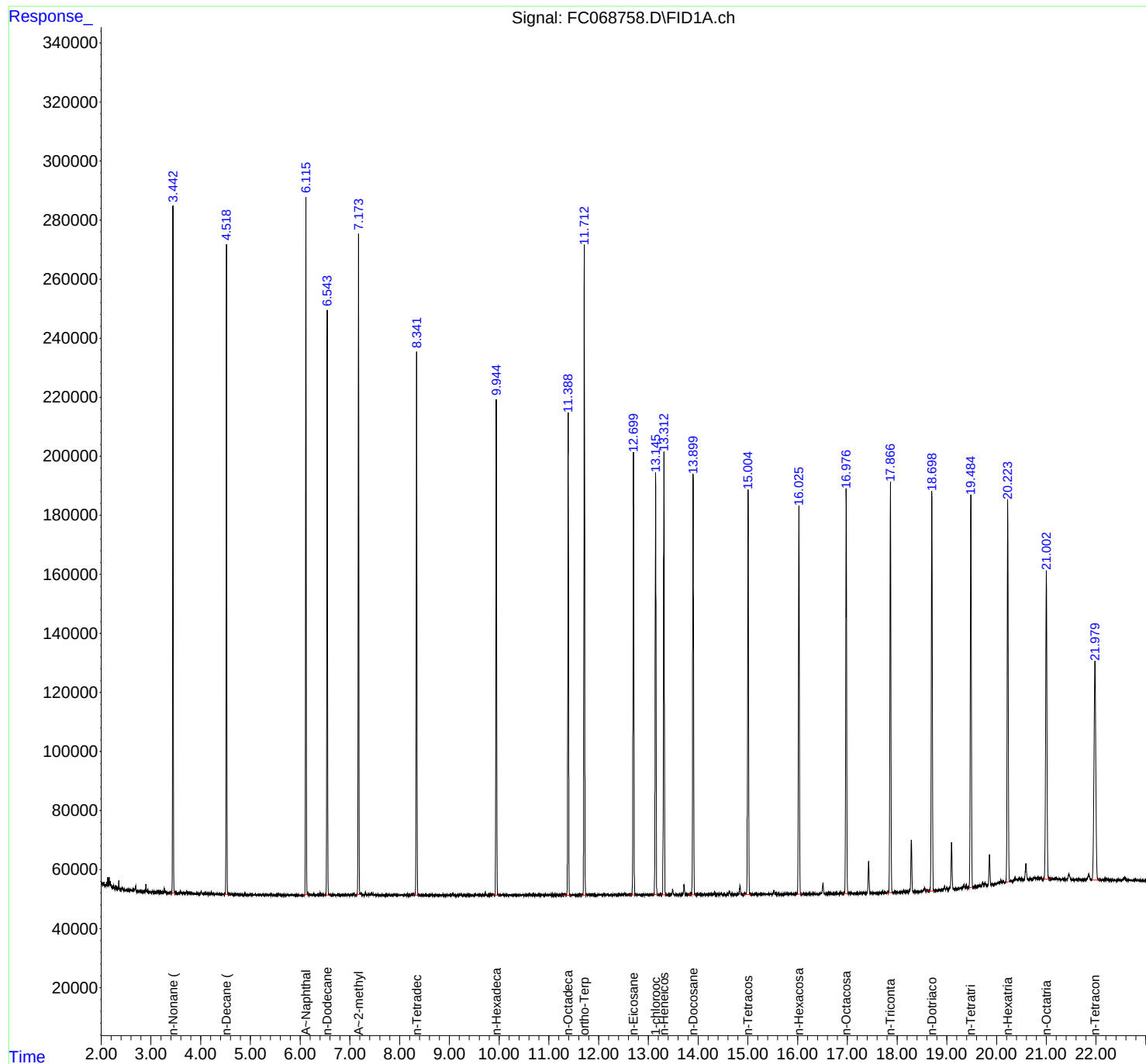
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068758.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 22:47
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: May 05 11:50:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068758.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 22:47
 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 040925.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	3.442	3.392	3.483	BB	232601	1937428	84.27%	4.678%
2	4.519	4.460	4.562	BB	219874	1946987	84.68%	4.701%
3	6.116	6.060	6.153	BB	235981	2146666	93.37%	5.184%
4	6.544	6.488	6.588	BB	198305	1911734	83.15%	4.616%
5	7.174	7.118	7.205	BB	223760	2104999	91.56%	5.083%
6	8.342	8.278	8.377	BB	184060	1844910	80.24%	4.455%
7	9.945	9.878	9.993	BB	167168	1810309	78.74%	4.371%
8	11.388	11.275	11.435	BB	163582	1794622	78.06%	4.333%
9	11.712	11.650	11.745	BB	219121	2299159	100.00%	5.552%
10	12.699	12.640	12.742	BB	148945	1747544	76.01%	4.220%
11	13.146	13.083	13.187	BB	142694	1649010	71.72%	3.982%
12	13.312	13.250	13.360	BB	149610	1734046	75.42%	4.187%
13	13.899	13.815	13.952	BB	142292	1732538	75.36%	4.184%
14	15.004	14.905	15.053	BB	136523	1735217	75.47%	4.190%
15	16.025	15.990	16.075	BB	131564	1726157	75.08%	4.168%
16	16.977	16.912	17.025	BB	137331	1777249	77.30%	4.292%
17	17.866	17.800	17.903	BB	139187	1922672	83.63%	4.643%
18	18.698	18.582	18.757	BB	135470	1999382	86.96%	4.828%
19	19.483	19.440	19.520	BB	132149	1930280	83.96%	4.661%
20	20.224	20.180	20.263	BB	129061	1922291	83.61%	4.642%
21	21.002	20.923	21.070	BB	104538	1883193	81.91%	4.547%
22	21.979	21.907	22.065	BB	74083	1856498	80.75%	4.483%
Sum of corrected areas:							41412890	

Aliphatic EPH 040925.M Mon May 05 11:57:23 2025

Continuing Calibration Report for SequenceID : FC050525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC068761.D

Aliphatic C9-C12	6153886.000	60.000	3.342	6.643	102564.767	105282.003	2.581
Aliphatic C12-C16	4011540.000	40.000	6.644	10.043	100288.500	102322.575	1.988
Aliphatic C16-C21	5821248.000	60.000	10.044	13.410	97020.800	98816.539	1.817
Aliphatic C21-C28	7504771.000	80.000	13.411	17.073	93809.638	94185.337	0.399
Aliphatic C28-C40	11707657.000	120.000	17.074	22.072	97563.808	89882.835	-8.546
Aliphatic EPH	35199102.000	360.000	3.342	22.072	97775.283	96276.618	-1.557

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	05 May 2025 10:11
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068761.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.342	6.643	6153886.000	60.000	ug/ml
Aliphatic C12-C16	6.644	10.043	4011540.000	40.000	ug/ml
Aliphatic C16-C21	10.044	13.410	5821248.000	60.000	ug/ml
Aliphatic C21-C28	13.411	17.073	7504771.000	80.000	ug/ml
Aliphatic C28-C40	17.074	22.072	11707657.000	120.000	ug/ml
Aliphatic EPH	3.342	22.072	35199102.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050525AL\
 Data File : FC068761.D
 Signal(s) : FID1A.ch
 Acq On : 05 May 2025 10:11
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: May 06 03:49:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.710	2464756	19.356 ug/ml
Spiked Amount 50.000		Recovery =	38.71%
12) S 1-chlorooctadecane (S...	13.143	1769009	19.043 ug/ml
Spiked Amount 50.000		Recovery =	38.09%
Target Compounds			
1) T n-Nonane (C9)	3.442	2033323	19.306 ug/ml
2) T n-Decane (C10)	4.518	2063532	19.586 ug/ml
3) T A~Naphthalene (C11.7)	6.115	2235784	19.198 ug/ml
4) T n-Dodecane (C12)	6.543	2057031	19.560 ug/ml
5) T A~2-methylnaphthalene...	7.173	2196105	19.014 ug/ml
6) T n-Tetradecane (C14)	8.340	2013168	19.583 ug/ml
7) T n-Hexadecane (C16)	9.943	1998372	19.622 ug/ml
8) T n-Octadecane (C18)	11.386	1980772	19.683 ug/ml
10) T n-Eicosane (C20)	12.697	1931488	19.637 ug/ml
11) T n-Heneicosane (C21)	13.310	1908988	19.588 ug/ml
13) T n-Docosane (C22)	13.897	1898831	19.658 ug/ml
14) T n-Tetracosane (C24)	15.001	1875102	19.700 ug/ml
15) T n-Hexacosane (C26)	16.023	1845351	19.757 ug/ml
16) T n-Octacosane (C28)	16.973	1885487	20.593 ug/ml
17) T n-Tricontane (C30)	17.862	2027798	22.058 ug/ml
18) T n-Dotriacontane (C32)	18.696	2087788	22.760 ug/ml
19) T n-Tetratriacontane (C34)	19.481	2000220	22.389 ug/ml
20) T n-Hexatriacontane (C36)	20.222	1961696	21.899 ug/ml
21) T n-Octatriacontane (C38)	20.996	1873894	21.195 ug/ml
22) T n-Tetracontane (C40)	21.972	1756261	19.888 ug/ml

(f)=RT Delta > 1/2 Window

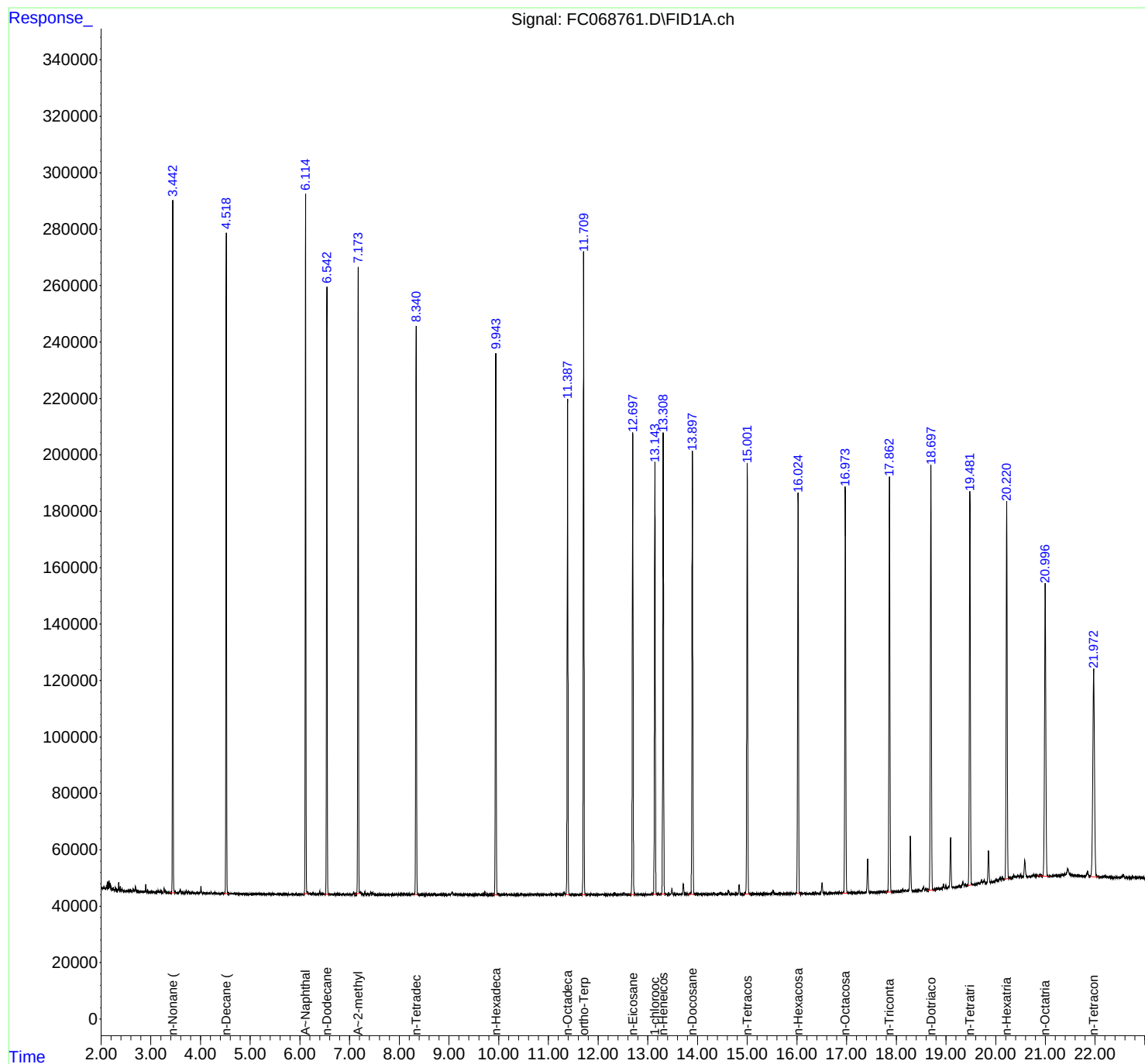
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050525AL\
Data File : FC068761.D
Signal(s) : FID1A.ch
Acq On : 05 May 2025 10:11
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: May 06 03:49:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050525AL\
Data File : FC068761.D
Signal(s) : FID1A.ch
Acq On : 05 May 2025 10:11
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 040925.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	3.442	3.379	3.482	BV	245643	2033323	82.50%	4.635%
2	4.518	4.462	4.554	BB	234239	2063532	83.72%	4.704%
3	6.115	6.059	6.164	BB	246669	2235784	90.71%	5.097%
4	6.543	6.490	6.589	BB	214023	2057031	83.46%	4.689%
5	7.173	7.105	7.210	BB	222285	2196105	89.10%	5.007%
6	8.340	8.279	8.370	BB	201616	2013168	81.68%	4.589%
7	9.943	9.879	9.987	BB	192861	1998372	81.08%	4.556%
8	11.386	11.345	11.420	BB	176552	1980772	80.36%	4.516%
9	11.710	11.652	11.750	BB	227275	2464756	100.00%	5.619%
10	12.697	12.639	12.745	BB	163658	1931488	78.36%	4.403%
11	13.143	13.084	13.175	BB	153174	1769009	71.77%	4.033%
12	13.310	13.247	13.352	BB	160198	1908988	77.45%	4.352%
13	13.897	13.800	13.939	BB	157341	1898831	77.04%	4.329%
14	15.001	14.937	15.055	BB	152713	1875102	76.08%	4.275%
15	16.023	15.990	16.070	BB	142222	1845351	74.87%	4.207%
16	16.973	16.912	17.017	BB	143305	1885487	76.50%	4.298%
17	17.862	17.790	17.915	BB	146420	2027798	82.27%	4.623%
18	18.696	18.629	18.754	BB	151585	2087788	84.71%	4.760%
19	19.481	19.440	19.520	BB	139280	2000220	81.15%	4.560%
20	20.222	20.180	20.262	BV	132711	1961696	79.59%	4.472%
21	20.996	20.842	21.064	BB	103435	1873894	76.03%	4.272%
22	21.972	21.900	22.065	BB	73636	1756261	71.25%	4.004%
Sum of corrected areas:							43864755	

Aliphatic EPH 040925.M Tue May 06 04:07:47 2025

Continuing Calibration Report for SequenceID : FC050525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC068766.D

Aliphatic C9-C12	6034329.000	60.000	3.342	6.643	100572.150	105282.003	4.474
Aliphatic C12-C16	3891947.000	40.000	6.644	10.043	97298.675	102322.575	4.910
Aliphatic C16-C21	5644445.000	60.000	10.044	13.410	94074.083	98816.539	4.799
Aliphatic C21-C28	7443449.000	80.000	13.411	17.073	93043.113	94185.337	1.213
Aliphatic C28-C40	12269931.000	120.000	17.074	22.072	102249.425	89882.835	-13.759
Aliphatic EPH	35284101.000	360.000	3.342	22.072	98011.392	96276.618	-1.802

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	05 May 2025 13:13
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068766.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.342	6.643	6034329.000	60.000	ug/ml
Aliphatic C12-C16	6.644	10.043	3891947.000	40.000	ug/ml
Aliphatic C16-C21	10.044	13.410	5644445.000	60.000	ug/ml
Aliphatic C21-C28	13.411	17.073	7443449.000	80.000	ug/ml
Aliphatic C28-C40	17.074	22.072	12269931.000	120.000	ug/ml
Aliphatic EPH	3.342	22.072	35284101.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050525AL\
 Data File : FC068766.D
 Signal(s) : FID1A.ch
 Acq On : 05 May 2025 13:13
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: May 06 03:50:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.711	2406831	18.901 ug/ml
Spiked Amount 50.000		Recovery =	37.80%
12) S 1-chlorooctadecane (S...	13.143	1749097	18.829 ug/ml
Spiked Amount 50.000		Recovery =	37.66%
Target Compounds			
1) T n-Nonane (C9)	3.442	2002032	19.008 ug/ml
2) T n-Decane (C10)	4.518	2024433	19.214 ug/ml
3) T A~Naphthalene (C11.7)	6.115	2220556	19.067 ug/ml
4) T n-Dodecane (C12)	6.543	2007864	19.093 ug/ml
5) T A~2-methylnaphthalene...	7.173	2187030	18.936 ug/ml
6) T n-Tetradecane (C14)	8.341	1955403	19.021 ug/ml
7) T n-Hexadecane (C16)	9.943	1936544	19.015 ug/ml
8) T n-Octadecane (C18)	11.386	1914119	19.021 ug/ml
10) T n-Eicosane (C20)	12.697	1872246	19.035 ug/ml
11) T n-Heneicosane (C21)	13.309	1858080	19.066 ug/ml
13) T n-Docosane (C22)	13.895	1857071	19.225 ug/ml
14) T n-Tetracosane (C24)	15.001	1847725	19.412 ug/ml
15) T n-Hexacosane (C26)	16.022	1836669	19.664 ug/ml
16) T n-Octacosane (C28)	16.973	1901984	20.774 ug/ml
17) T n-Tricontane (C30)	17.862	2074976	22.571 ug/ml
18) T n-Dotriacontane (C32)	18.695	2156300	23.507 ug/ml
19) T n-Tetratriacontane (C34)	19.479	2072411	23.197 ug/ml
20) T n-Hexatriacontane (C36)	20.221	2048309	22.866 ug/ml
21) T n-Octatriacontane (C38)	20.996	1983361	22.433 ug/ml
22) T n-Tetracontane (C40)	21.973	1934574	21.908 ug/ml

(f)=RT Delta > 1/2 Window

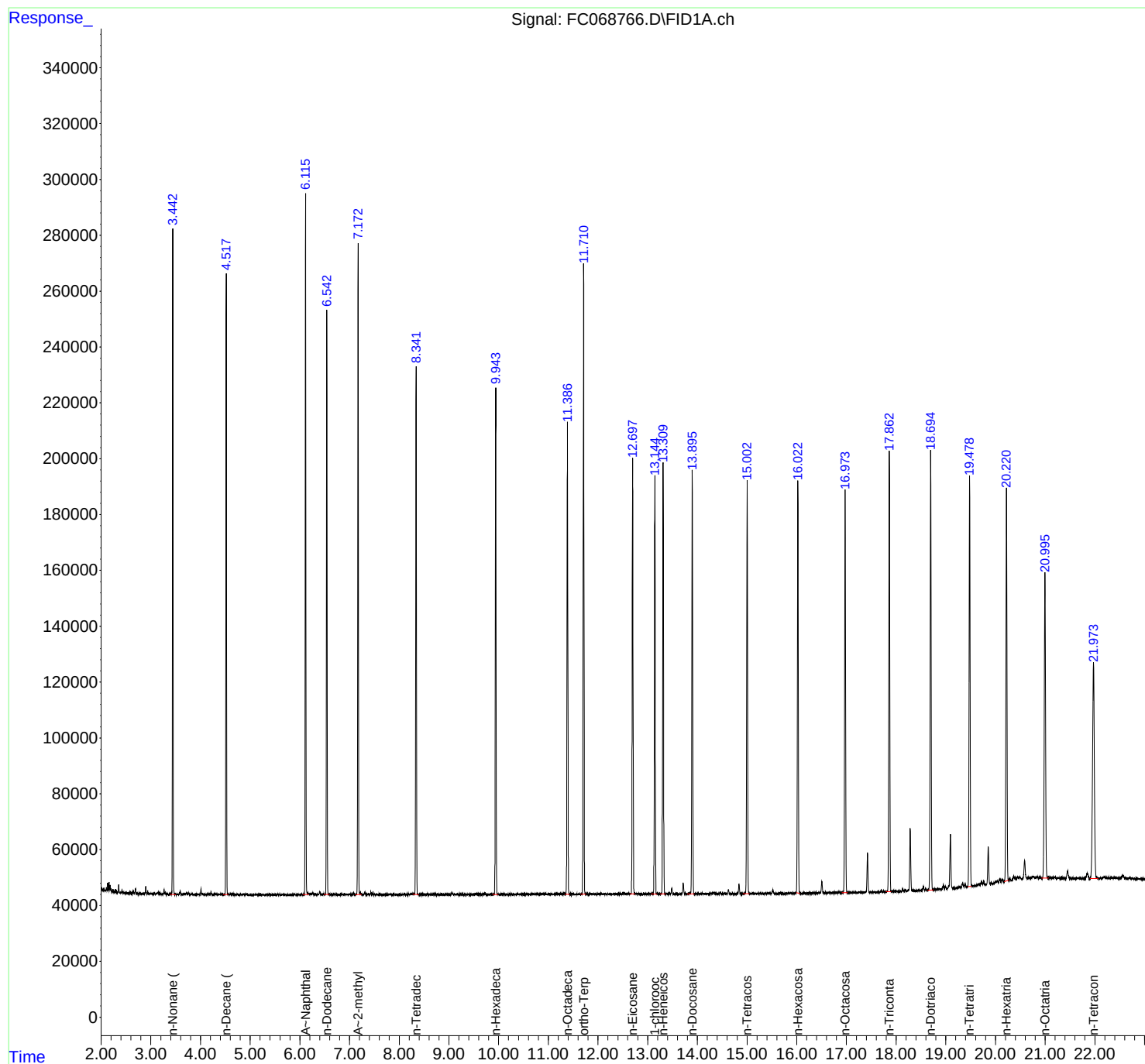
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050525AL\
Data File : FC068766.D
Signal(s) : FID1A.ch
Acq On : 05 May 2025 13:13
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: May 06 03:50:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050525AL\
Data File : FC068766.D
Signal(s) : FID1A.ch
Acq On : 05 May 2025 13:13
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 040925.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	3.442	3.392	3.507	BB	238537	2002032	83.18%	4.566%
2	4.518	4.460	4.559	BB	222292	2024433	84.11%	4.617%
3	6.115	6.057	6.179	BB	250785	2220556	92.26%	5.064%
4	6.543	6.479	6.590	BB	207705	2007864	83.42%	4.579%
5	7.173	7.119	7.242	BB	233757	2187030	90.87%	4.988%
6	8.341	8.279	8.389	BB	188811	1955403	81.24%	4.460%
7	9.943	9.882	9.994	BB	181546	1936544	80.46%	4.417%
8	11.386	11.340	11.430	BB	169353	1914119	79.53%	4.365%
9	11.711	11.652	11.757	BB	225209	2406831	100.00%	5.489%
10	12.697	12.635	12.747	BB	155878	1872246	77.79%	4.270%
11	13.143	13.082	13.189	BB	150334	1749097	72.67%	3.989%
12	13.309	13.249	13.354	BB	154159	1858080	77.20%	4.238%
13	13.895	13.800	13.934	BB	151237	1857071	77.16%	4.235%
14	15.001	14.922	15.042	BB	146615	1847725	76.77%	4.214%
15	16.022	15.990	16.064	BB	147121	1836669	76.31%	4.189%
16	16.973	16.912	17.027	BB	144173	1901984	79.02%	4.338%
17	17.862	17.797	17.902	BB	157735	2074976	86.21%	4.732%
18	18.696	18.637	18.750	BB	155414	2156300	89.59%	4.918%
19	19.479	19.440	19.519	BB	146343	2072411	86.11%	4.726%
20	20.221	20.180	20.260	BV	140610	2048309	85.10%	4.671%
21	20.996	20.922	21.064	BB	109101	1983361	82.41%	4.523%
22	21.973	21.899	22.069	BB	77295	1934574	80.38%	4.412%
Sum of corrected areas:							43847616	

Aliphatic EPH 040925.M Tue May 06 04:08:37 2025

Continuing Calibration Report for SequenceID : FE050225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE053618.D

Aliphatic C9-C12	8509712.000	60.000	3.114	6.755	141828.533	138562.354	-2.357
Aliphatic C12-C16	5638130.000	40.000	6.756	10.204	140953.250	141806.081	0.601
Aliphatic C16-C21	8230190.000	60.000	10.205	13.579	137169.833	145363.765	5.637
Aliphatic C21-C28	10288413.000	80.000	13.580	17.248	128605.163	142174.626	9.544
Aliphatic C28-C40	14723785.000	120.000	17.249	22.135	122698.208	129049.185	4.921
Aliphatic EPH	47390230.000	360.000	3.114	22.135	131639.528	137688.007	4.393

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	02 May 2025 10:11
Client Sample ID:		Operator:	YP\AJ
Data file:	FE053618.D	Misc:	
Instrument:	FID_E	ALS Vial:	4
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.114	6.755	8509712.000	60.000	ug/ml
Aliphatic C12-C16	6.756	10.204	5638130.000	40.000	ug/ml
Aliphatic C16-C21	10.205	13.579	8230190.000	60.000	ug/ml
Aliphatic C21-C28	13.580	17.248	10288413.000	80.000	ug/ml
Aliphatic C28-C40	17.249	22.135	14723785.000	120.000	ug/ml
Aliphatic EPH	3.114	22.135	47390230.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050225AL\
 Data File : FE053618.D
 Signal(s) : FID1B.ch
 Acq On : 02 May 2025 10:11
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 05/05/2025
 Supervised By :mohammad ahmed 05/06/2025

Integration File: autoint1.e
 Quant Time: May 03 00:24:26 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 29 06:49:03 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.866	3388256	18.786 ug/ml
Spiked Amount 50.000		Recovery =	37.57%
12) S 1-chlorooctadecane (S...	13.312	2495080	18.458 ug/ml
Spiked Amount 50.000		Recovery =	36.92%
Target Compounds			
1) T n-Nonane (C9)	3.214	2820991	20.576 ug/ml
2) T n-Decane (C10)	4.474	2833012	20.479 ug/ml
3) T A~Naphthalene (C11.7)	6.187	3079706	20.403 ug/ml
4) T n-Dodecane (C12)	6.655	2855709	20.362 ug/ml
5) T A~2-methylnaphthalene...	7.289	3008276	20.149 ug/ml
6) T n-Tetradecane (C14)	8.491	2824733	20.135 ug/ml
7) T n-Hexadecane (C16)	10.104	2813397	19.630 ug/ml
8) T n-Octadecane (C18)	11.552	2798117	19.200 ug/ml
10) T n-Eicosane (C20)	12.866	2733165	18.783 ug/ml
11) T n-Heneicosane (C21)	13.479	2698908	18.633 ug/ml
13) T n-Docosane (C22)	14.068	2661367	18.443 ug/ml
14) T n-Tetracosane (C24)	15.173	2605210	18.137 ug/ml
15) T n-Hexacosane (C26)	16.196	2545645	17.974 ug/ml
16) T n-Octacosane (C28)	17.148	2476191	17.798 ug/ml
17) T n-Tricontane (C30)	18.037	2479925	17.816 ug/ml
18) T n-Dotriacontane (C32)	18.871	2470847	17.995 ug/ml
19) T n-Tetratriacontane (C34)	19.657	2413770	18.526 ug/ml
20) T n-Hexatriacontane (C36)	20.398	2432676	19.269 ug/ml
21) T n-Octatriacontane (C38)	21.132	2390220	19.619 ug/ml
22) T n-Tetracontane (C40)	22.035	2536347	21.239 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050225AL\
Data File : FE053618.D
Signal(s) : FID1B.ch
Acq On : 02 May 2025 10:11
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

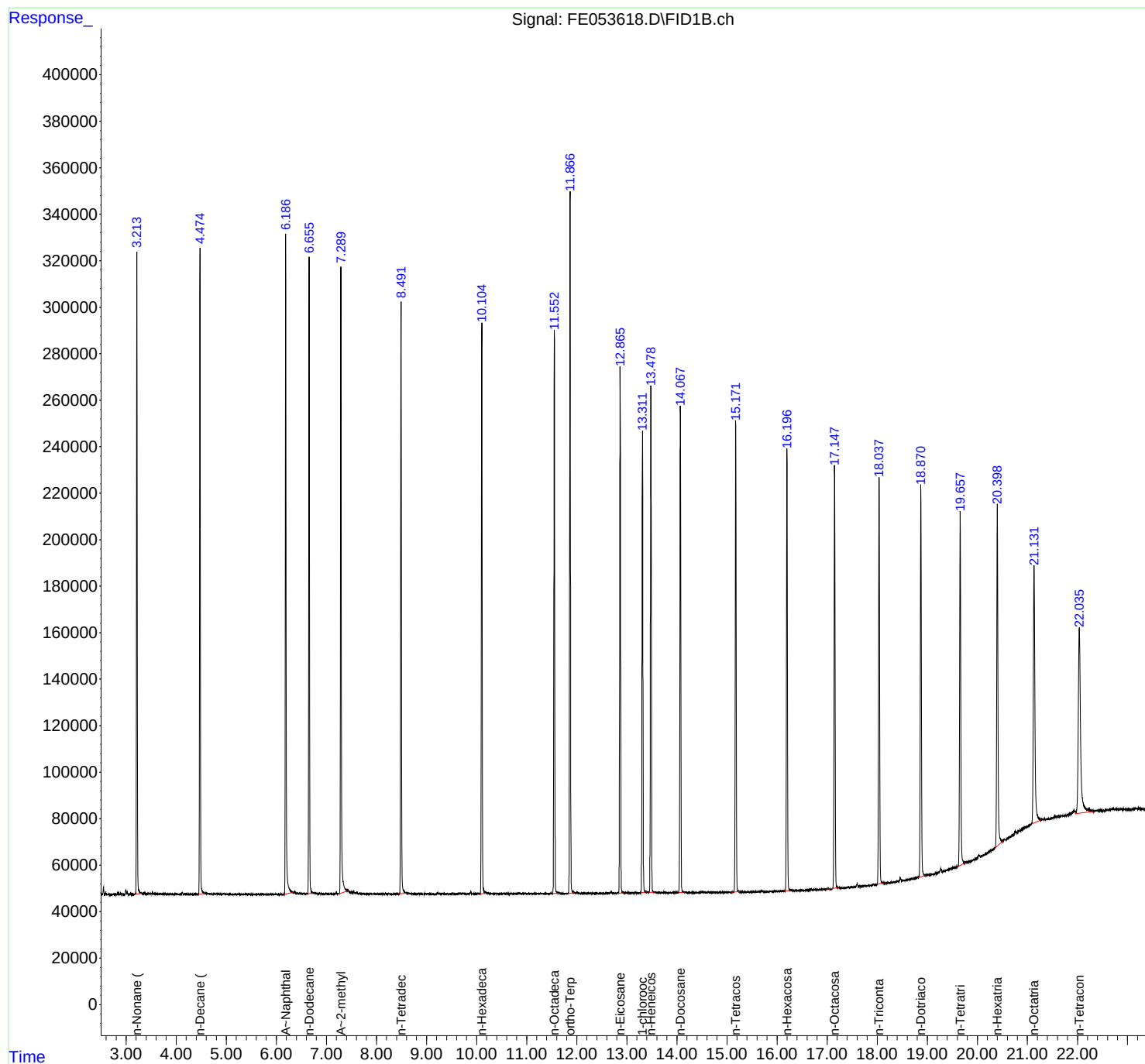
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/05/2025
Supervised By :mohammad ahmed 05/06/2025

Integration File: autoint1.e
Quant Time: May 03 00:24:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.
Quant Title : GC Extractables
QLast Update : Tue Apr 29 06:49:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/05/2025
Supervised By :mohammad ahmed 05/06/2025

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE
Data File : FE053618.D
Signal(s) : FID1B.ch
Acq On : 02 May 2025 10:11
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.214	3.184	3.304	BB	276162	2820991	83.26%	4.762%
2	4.474	4.434	4.571	BB	277497	2833012	83.61%	4.783%
3	6.187	6.151	6.328	BB	282409	3079706	90.89%	5.199%
4	6.655	6.621	6.734	BB	272932	2855709	84.28%	4.821%
5	7.289	7.238	7.414	BV	269290	3008276	88.79%	5.079%
6	8.491	8.441	8.598	BB	254291	2824733	83.37%	4.769%
7	10.104	10.068	10.198	BB	244881	2813397	83.03%	4.750%
8	11.552	11.514	11.628	BB	240143	2798117	82.58%	4.724%
9	11.866	11.821	11.948	BB	300285	3388256	100.00%	5.720%
10	12.866	12.821	12.941	BB	225950	2733165	80.67%	4.614%
11	13.312	13.271	13.384	BB	199126	2495080	73.64%	4.212%
12	13.479	13.438	13.554	BB	217702	2698908	79.65%	4.556%
13	14.068	14.024	14.138	BB	209326	2661367	78.55%	4.493%
14	15.173	15.098	15.248	BB	203131	2605210	76.89%	4.398%
15	16.196	16.141	16.271	BB	189380	2545645	75.13%	4.298%
16	17.148	16.988	17.221	BB	181376	2476191	73.08%	4.180%
17	18.037	18.001	18.124	BB	174519	2479925	73.19%	4.187%
18	18.871	18.821	18.954	BB	168215	2470847	72.92%	4.171%
19	19.657	19.601	19.758	BB	152333	2413770	71.24%	4.075%
20	20.398	20.351	20.511	BB	147112	2432676	71.80%	4.107%
21	21.132	21.081	21.278	BB	110842	2390220	70.54%	4.035%
22	22.036	21.851	22.201	BB	79099	2408780	71.09%	4.067%
Sum of corrected areas:						59233980		

Aliphatic EPH 041725.M Sat May 03 01:30:06 2025

Continuing Calibration Report for SequenceID : FE050225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE053633.D

Aliphatic C9-C12	7523288.000	60.000	3.114	6.755	125388.133	138562.354	9.508
Aliphatic C12-C16	5185546.000	40.000	6.756	10.204	129638.650	141806.081	8.580
Aliphatic C16-C21	7773718.000	60.000	10.205	13.579	129561.967	145363.765	10.871
Aliphatic C21-C28	10140274.000	80.000	13.580	17.248	126753.425	142174.626	10.847
Aliphatic C28-C40	15671059.000	120.000	17.249	22.135	130592.158	129049.185	-1.196
Aliphatic EPH	46293885.000	360.000	3.114	22.135	128594.125	137688.007	6.605

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	02 May 2025 21:25
Client Sample ID:		Operator:	YP\AJ
Data file:	FE053633.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.114	6.755	7523288.000	60.000	ug/ml
Aliphatic C12-C16	6.756	10.204	5185546.000	40.000	ug/ml
Aliphatic C16-C21	10.205	13.579	7773718.000	60.000	ug/ml
Aliphatic C21-C28	13.580	17.248	10140274.000	80.000	ug/ml
Aliphatic C28-C40	17.249	22.135	15671059.000	120.000	ug/ml
Aliphatic EPH	3.114	22.135	46293885.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050225AL\
 Data File : FE053633.D
 Signal(s) : FID1B.ch
 Acq On : 02 May 2025 21:25
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: May 03 00:29:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 29 06:49:03 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.863	3191550	17.695 ug/ml
Spiked Amount 50.000		Recovery =	35.39%
12) S 1-chlorooctadecane (S...	13.309	2372878	17.554 ug/ml
Spiked Amount 50.000		Recovery =	35.11%
Target Compounds			
1) T n-Nonane (C9)	3.211	2430705	17.729 ug/ml
2) T n-Decane (C10)	4.472	2519959	18.216 ug/ml
3) T A~Naphthalene (C11.7)	6.185	2746537	18.196 ug/ml
4) T n-Dodecane (C12)	6.653	2572624	18.343 ug/ml
5) T A~2-methylnaphthalene...	7.287	2720968	18.224 ug/ml
6) T n-Tetradecane (C14)	8.488	2577289	18.371 ug/ml
7) T n-Hexadecane (C16)	10.102	2608257	18.199 ug/ml
8) T n-Octadecane (C18)	11.549	2623429	18.002 ug/ml
10) T n-Eicosane (C20)	12.863	2588025	17.786 ug/ml
11) T n-Heneicosane (C21)	13.476	2562264	17.690 ug/ml
13) T n-Docosane (C22)	14.064	2545036	17.637 ug/ml
14) T n-Tetracosane (C24)	15.170	2529845	17.612 ug/ml
15) T n-Hexacosane (C26)	16.193	2499054	17.645 ug/ml
16) T n-Octacosane (C28)	17.145	2566339	18.446 ug/ml
17) T n-Tricontane (C30)	18.034	2753621	19.782 ug/ml
18) T n-Dotriacontane (C32)	18.869	2843458	20.709 ug/ml
19) T n-Tetratriacontane (C34)	19.653	2677335	20.548 ug/ml
20) T n-Hexatriacontane (C36)	20.395	2570920	20.364 ug/ml
21) T n-Octatriacontane (C38)	21.128	2452139	20.127 ug/ml
22) T n-Tetracontane (C40)	22.031	2373586	19.876 ug/ml

(f)=RT Delta > 1/2 Window

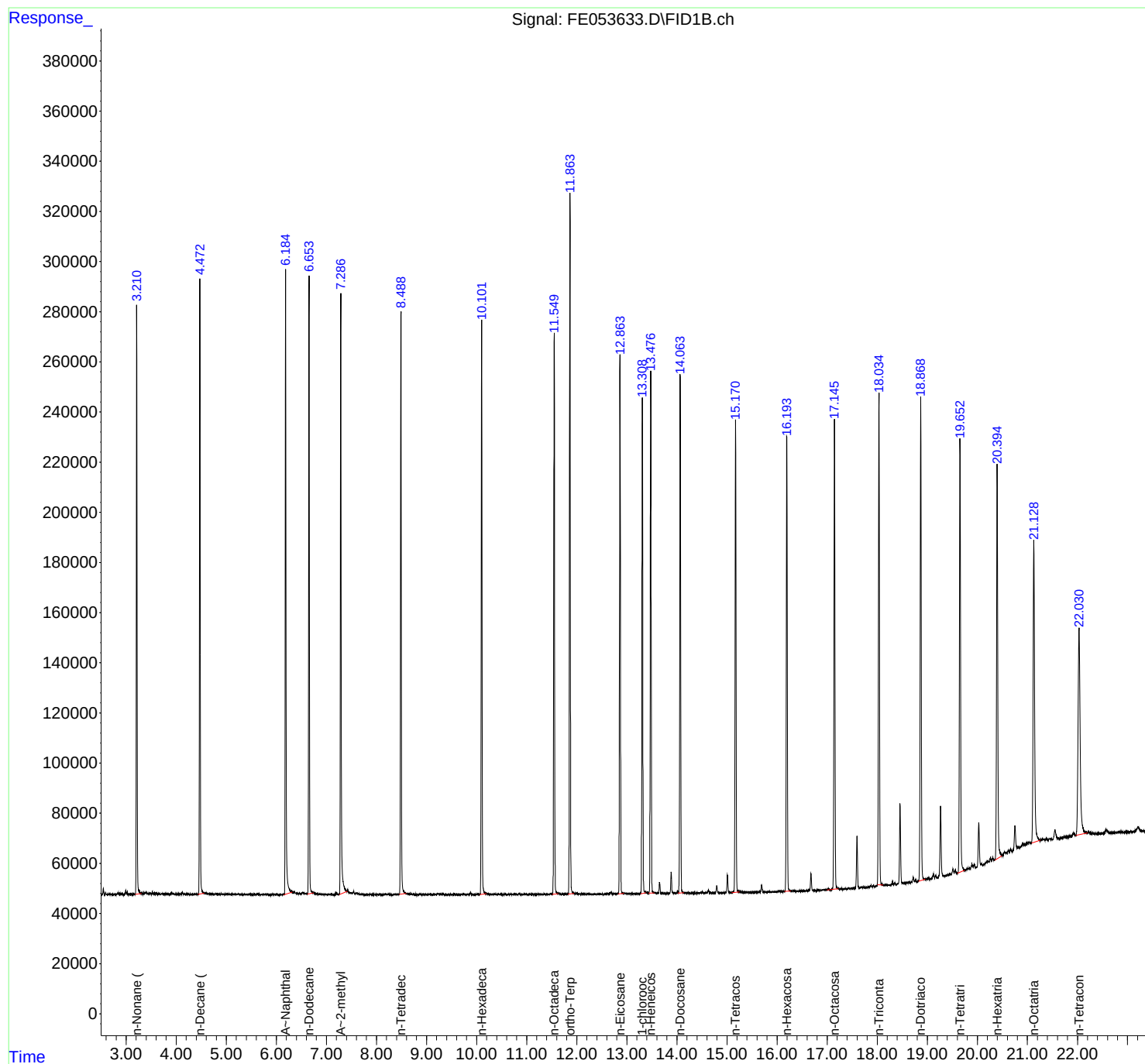
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050225AL\
Data File : FE053633.D
Signal(s) : FID1B.ch
Acq On : 02 May 2025 21:25
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: May 03 00:29:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 29 06:49:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050225AL\
Data File : FE053633.D
Signal(s) : FID1B.ch
Acq On : 02 May 2025 21:25
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.211	3.181	3.308	BB	233737	2430705	76.16%	4.240%
2	4.472	4.431	4.561	BB	244469	2519959	78.96%	4.396%
3	6.185	6.145	6.311	BB	248672	2746537	86.06%	4.791%
4	6.653	6.621	6.738	BB	244719	2572624	80.61%	4.488%
5	7.287	7.251	7.411	BV	238797	2720968	85.26%	4.746%
6	8.488	8.451	8.588	BB	232267	2577289	80.75%	4.496%
7	10.102	10.061	10.188	BB	228182	2608257	81.72%	4.550%
8	11.549	11.508	11.625	BB	221755	2623429	82.20%	4.576%
9	11.863	11.821	11.948	BB	281141	3191550	100.00%	5.567%
10	12.863	12.821	12.938	BB	216548	2588025	81.09%	4.515%
11	13.309	13.271	13.381	BB	197381	2372878	74.35%	4.139%
12	13.476	13.435	13.551	BB	208168	2562264	80.28%	4.470%
13	14.064	14.030	14.138	VB	206527	2545036	79.74%	4.440%
14	15.170	15.091	15.248	BB	188968	2529845	79.27%	4.413%
15	16.193	16.148	16.271	BB	182606	2499054	78.30%	4.359%
16	17.145	17.001	17.225	BB	186908	2566339	80.41%	4.477%
17	18.034	18.001	18.111	BB	195660	2753621	86.28%	4.803%
18	18.869	18.821	18.951	BB	193510	2843458	89.09%	4.960%
19	19.653	19.601	19.751	BB	171509	2677335	83.89%	4.670%
20	20.395	20.351	20.491	BV	157227	2570920	80.55%	4.485%
21	21.128	21.081	21.261	BB	120465	2452139	76.83%	4.278%
22	22.031	21.961	22.195	BB	82417	2373586	74.37%	4.141%
Sum of corrected areas:						57325816		

Aliphatic EPH 041725.M Sat May 03 01:31:10 2025

Continuing Calibration Report for SequenceID : FE050525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE053636.D

Aliphatic C9-C12	9053371.000	60.000	3.112	6.755	150889.517	138562.354	-8.896
Aliphatic C12-C16	6123271.000	40.000	6.756	10.204	153081.775	141806.081	-7.951
Aliphatic C16-C21	9060193.000	60.000	10.205	13.579	151003.217	145363.765	-3.880
Aliphatic C21-C28	11308512.000	80.000	13.580	17.249	141356.400	142174.626	0.576
Aliphatic C28-C40	14043864.000	120.000	17.250	22.140	117032.200	129049.185	9.312
Aliphatic EPH	49589211.000	360.000	3.112	22.140	137747.808	137688.007	-0.043

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	05 May 2025 11:14
Client Sample ID:		Operator:	YP\AJ
Data file:	FE053636.D	Misc:	
Instrument:	FID_E	ALS Vial:	4
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.112	6.755	9053371.000	60.000	ug/ml
Aliphatic C12-C16	6.756	10.204	6123271.000	40.000	ug/ml
Aliphatic C16-C21	10.205	13.579	9060193.000	60.000	ug/ml
Aliphatic C21-C28	13.580	17.249	11308512.000	80.000	ug/ml
Aliphatic C28-C40	17.250	22.140	14043864.000	120.000	ug/ml
Aliphatic EPH	3.112	22.140	49589211.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050525AL\
 Data File : FE053636.D
 Signal(s) : FID1B.ch
 Acq On : 05 May 2025 11:14
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 05/06/2025
 Supervised By :mohammad ahmed 05/07/2025

Integration File: sample.E
 Quant Time: May 06 04:17:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 29 06:49:03 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.866	3735494	20.711 ug/ml
Spiked Amount 50.000		Recovery =	41.42%
12) S 1-chlorooctadecane (S...	13.311	2680298	19.828 ug/ml
Spiked Amount 50.000		Recovery =	39.66%
Target Compounds			
1) T n-Nonane (C9)	3.212	2977799	21.719 ug/ml
2) T n-Decane (C10)	4.474	3010200	21.760 ug/ml
3) T A~Naphthalene (C11.7)	6.187	3311246	21.937 ug/ml
4) T n-Dodecane (C12)	6.655	3065372	21.857 ug/ml
5) T A~2-methylnaphthalene...	7.289	3287803	22.021 ug/ml
6) T n-Tetradecane (C14)	8.491	3051486	21.751 ug/ml
7) T n-Hexadecane (C16)	10.104	3071785	21.433 ug/ml
8) T n-Octadecane (C18)	11.552	3071947	21.079 ug/ml
10) T n-Eicosane (C20)	12.865	3012774	20.705 ug/ml
11) T n-Heneicosane (C21)	13.479	2975472	20.542 ug/ml
13) T n-Docosane (C22)	14.067	2938893	20.366 ug/ml
14) T n-Tetracosane (C24)	15.173	2867222	19.961 ug/ml
15) T n-Hexacosane (C26)	16.197	2788450	19.688 ug/ml
16) T n-Octacosane (C28)	17.149	2713947	19.507 ug/ml
17) T n-Tricontane (C30)	18.039	2698613	19.387 ug/ml
18) T n-Dotriacontane (C32)	18.874	2611847	19.022 ug/ml
19) T n-Tetratriacontane (C34)	19.660	2364744	18.149 ug/ml
20) T n-Hexatriacontane (C36)	20.402	2177936	17.251 ug/ml
21) T n-Octatriacontane (C38)	21.135	2172084	17.829 ug/mlm
22) T n-Tetracontane (C40)	22.040	2018640	16.904 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050525AL\
Data File : FE053636.D
Signal(s) : FID1B.ch
Acq On : 05 May 2025 11:14
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

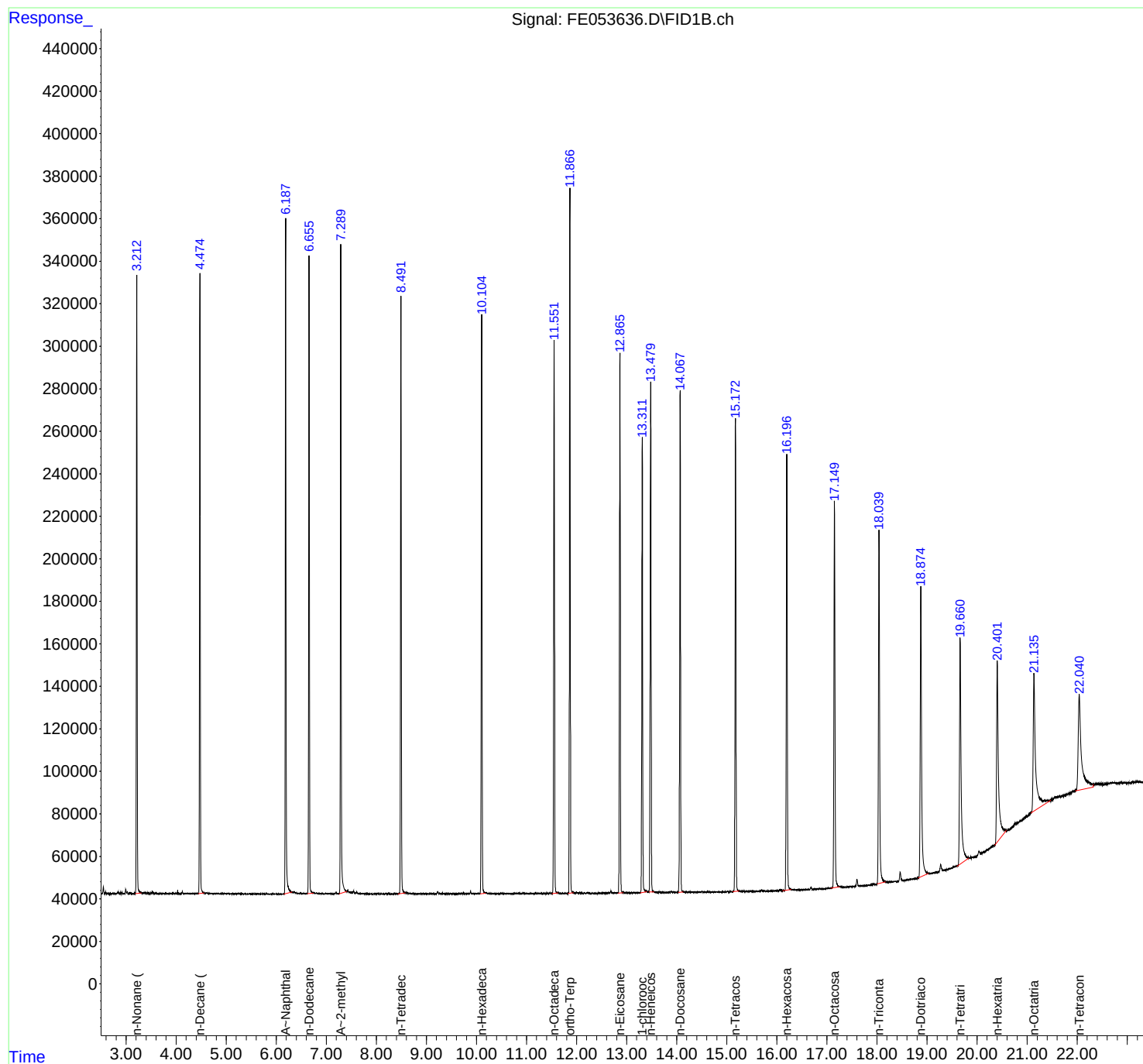
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 05/06/2025
Supervised By :mohammad ahmed 05/07/2025

Integration File: sample.E
Quant Time: May 06 04:17:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.
Quant Title : GC Extractables
QLast Update : Tue Apr 29 06:49:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE05052
Data File : FE053636.D
Signal(s) : FID1B.ch
Acq On : 05 May 2025 11:14
Sample : 20 PPM ALIPAHTIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 05/06/2025
Supervised By :mohammad ahmed 05/07/2025

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.212	3.181	3.305	BB	288909	2977799	79.72%	4.792%
2	4.474	4.441	4.561	BB	291760	3010200	80.58%	4.845%
3	6.187	6.148	6.315	BB	317323	3311246	88.64%	5.329%
4	6.655	6.618	6.741	BB	298823	3065372	82.06%	4.933%
5	7.289	7.255	7.411	BV	304653	3287803	88.02%	5.291%
6	8.491	8.435	8.578	BB	281168	3051486	81.69%	4.911%
7	10.104	10.068	10.185	BB	273561	3071785	82.23%	4.944%
8	11.552	11.508	11.625	BB	259773	3071947	82.24%	4.944%
9	11.866	11.825	11.938	BB	330103	3735494	100.00%	6.012%
10	12.865	12.828	12.931	BB	253254	3012774	80.65%	4.849%
11	13.311	13.271	13.401	BB	213722	2680298	71.75%	4.314%
12	13.479	13.438	13.548	BB	238545	2975472	79.65%	4.789%
13	14.067	14.028	14.135	BB	234920	2938893	78.67%	4.730%
14	15.173	15.115	15.248	BB	222929	2867222	76.76%	4.614%
15	16.197	16.121	16.288	BB	204072	2788450	74.65%	4.488%
16	17.149	17.081	17.258	BB	181076	2713947	72.65%	4.368%
17	18.039	18.001	18.175	BB	166354	2698613	72.24%	4.343%
18	18.874	18.821	19.031	BB	136755	2611847	69.92%	4.203%
19	19.660	19.601	19.835	BB	105981	2364744	63.30%	3.806%
20	20.402	20.351	20.578	BB	85327	2177936	58.30%	3.505%
21	21.135	21.081	21.321	BB	64424	1925048	51.53%	3.098%
22	22.040	21.851	22.271	BB	44592	1797516	48.12%	2.893%
Sum of corrected areas:						62135893		

Aliphatic EPH 041725.M Tue May 06 04:39:00 2025

Continuing Calibration Report for SequenceID : FE050525AL

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

File ID : FE053640.D

Aliphatic C9-C12	9038765.000	60.000	3.112	6.755	150646.083	138562.354	-8.721
Aliphatic C12-C16	6131080.000	40.000	6.756	10.204	153277.000	141806.081	-8.089
Aliphatic C16-C21	9075695.000	60.000	10.205	13.579	151261.583	145363.765	-4.057
Aliphatic C21-C28	11352728.000	80.000	13.580	17.249	141909.100	142174.626	0.187
Aliphatic C28-C40	14676919.000	120.000	17.250	22.140	122307.658	129049.185	5.224
Aliphatic EPH	50275187.000	360.000	3.112	22.140	139653.297	137688.007	-1.427

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	05 May 2025 13:44
Client Sample ID:		Operator:	YPAJ
Data file:	FE053640.D	Misc:	
Instrument:	FID_E	ALS Vial:	4
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.112	6.755	9038765.000	60.000	ug/ml
Aliphatic C12-C16	6.756	10.204	6131080.000	40.000	ug/ml
Aliphatic C16-C21	10.205	13.579	9075695.000	60.000	ug/ml
Aliphatic C21-C28	13.580	17.249	11352728.000	80.000	ug/ml
Aliphatic C28-C40	17.250	22.140	14676919.000	120.000	ug/ml
Aliphatic EPH	3.112	22.140	50275187.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050525AL\
 Data File : FE053640.D
 Signal(s) : FID1B.ch
 Acq On : 05 May 2025 13:44
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: May 06 04:18:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 29 06:49:03 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.864	3739461	20.733 ug/ml
Spiked Amount 50.000		Recovery =	41.47%
12) S 1-chlorooctadecane (S...	13.309	2714904	20.084 ug/ml
Spiked Amount 50.000		Recovery =	40.17%
Target Compounds			
1) T n-Nonane (C9)	3.211	2969480	21.659 ug/ml
2) T n-Decane (C10)	4.473	3007670	21.742 ug/ml
3) T A~Naphthalene (C11.7)	6.185	3315808	21.967 ug/ml
4) T n-Dodecane (C12)	6.654	3061615	21.830 ug/ml
5) T A~2-methylnaphthalene...	7.288	3283584	21.993 ug/ml
6) T n-Tetradecane (C14)	8.489	3052934	21.762 ug/ml
7) T n-Hexadecane (C16)	10.102	3078146	21.477 ug/ml
8) T n-Octadecane (C18)	11.550	3077942	21.120 ug/ml
10) T n-Eicosane (C20)	12.864	3016435	20.730 ug/ml
11) T n-Heneicosane (C21)	13.477	2981318	20.583 ug/ml
13) T n-Docosane (C22)	14.065	2941830	20.386 ug/ml
14) T n-Tetracosane (C24)	15.170	2871675	19.992 ug/ml
15) T n-Hexacosane (C26)	16.194	2799096	19.764 ug/ml
16) T n-Octacosane (C28)	17.146	2740127	19.695 ug/ml
17) T n-Tricontane (C30)	18.036	2739707	19.682 ug/ml
18) T n-Dotriacontane (C32)	18.871	2722959	19.831 ug/ml
19) T n-Tetratriacontane (C34)	19.658	2547099	19.549 ug/ml
20) T n-Hexatriacontane (C36)	20.399	2395564	18.975 ug/ml
21) T n-Octatriacontane (C38)	21.132	2248621	18.457 ug/ml
22) T n-Tetracontane (C40)	22.036	2022969	16.940 ug/ml

(f)=RT Delta > 1/2 Window

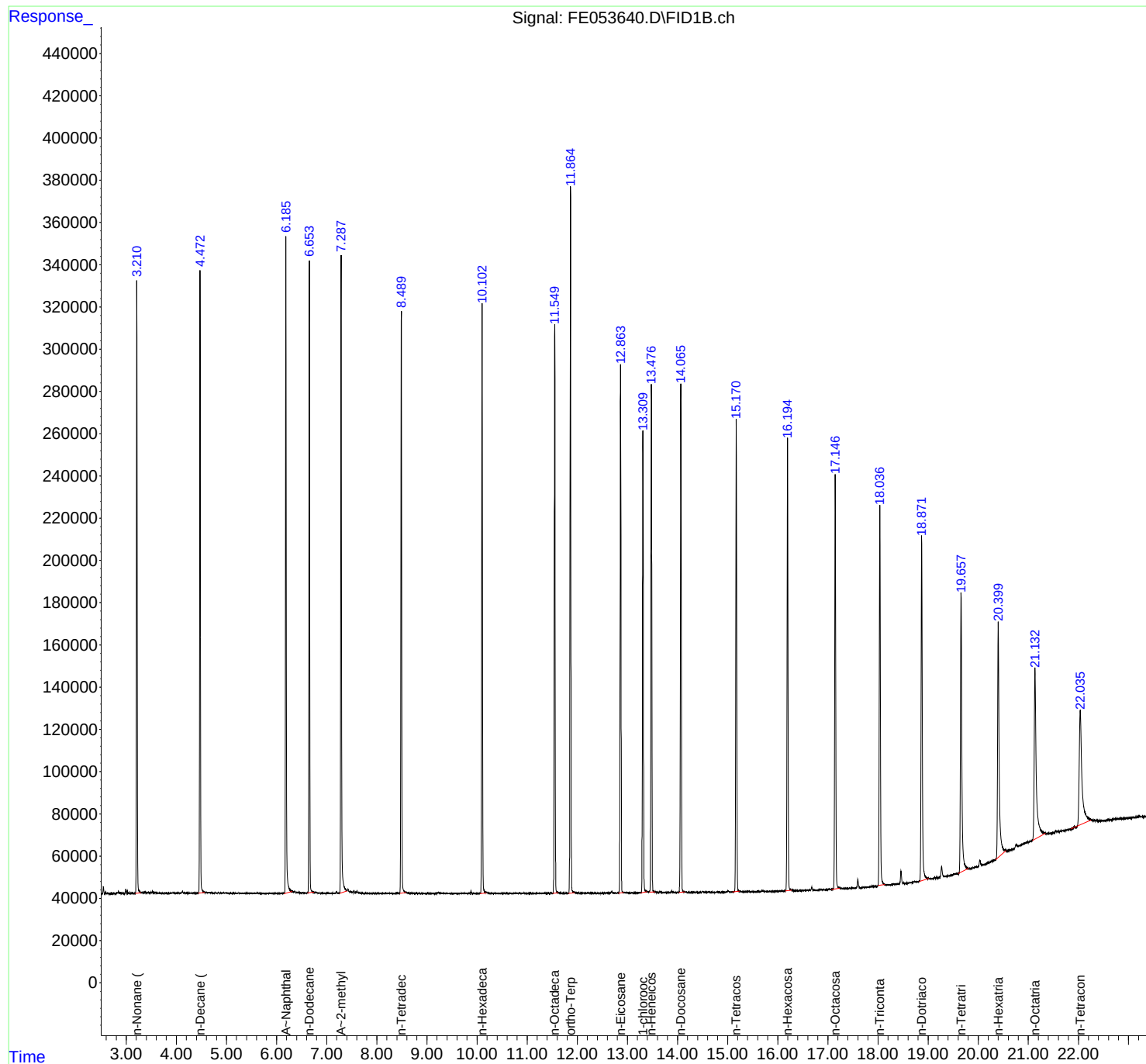
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050525AL\
Data File : FE053640.D
Signal(s) : FID1B.ch
Acq On : 05 May 2025 13:44
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: May 06 04:18:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Tue Apr 29 06:49:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE050525AL\
 Data File : FE053640.D
 Signal(s) : FID1B.ch
 Acq On : 05 May 2025 13:44
 Sample : 20 PPM ALIPAHTIC HC STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.211	3.181	3.298	BB	289594	2969480	79.41%	4.689%
2	4.473	4.438	4.565	BB	292276	3007670	80.43%	4.749%
3	6.185	6.148	6.315	BB	310925	3315808	88.67%	5.236%
4	6.654	6.615	6.741	BB	298209	3061615	81.87%	4.834%
5	7.288	7.251	7.408	BV	300630	3283584	87.81%	5.185%
6	8.489	8.455	8.585	BB	275462	3052934	81.64%	4.821%
7	10.102	10.058	10.188	BB	277854	3078146	82.32%	4.861%
8	11.550	11.508	11.621	BB	267204	3077942	82.31%	4.860%
9	11.864	11.825	11.945	BB	333473	3739461	100.00%	5.905%
10	12.864	12.818	12.928	BB	247801	3016435	80.66%	4.763%
11	13.309	13.268	13.395	BB	218692	2714904	72.60%	4.287%
12	13.477	13.438	13.545	BB	240309	2981318	79.73%	4.708%
13	14.065	14.025	14.141	BB	237851	2941830	78.67%	4.645%
14	15.170	15.101	15.241	BB	221537	2871675	76.79%	4.535%
15	16.194	16.151	16.275	BB	213363	2799096	74.85%	4.420%
16	17.146	17.075	17.241	BB	195590	2740127	73.28%	4.327%
17	18.036	18.001	18.141	BB	179570	2739707	73.26%	4.326%
18	18.871	18.821	19.005	BB	163521	2722959	72.82%	4.300%
19	19.658	19.601	19.805	BB	132337	2547099	68.11%	4.022%
20	20.399	20.351	20.555	BB	111689	2395564	64.06%	3.783%
21	21.132	21.081	21.338	BB	81226	2248621	60.13%	3.551%
22	22.036	21.851	22.255	BB	54319	2022969	54.10%	3.194%
Sum of corrected areas:							63328946	

Aliphatic EPH 041725.M Tue May 06 04:39:26 2025



QC SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Amsterdam	Date Received:	
Client Sample ID:	PB167833BL	SDG No.:	Q1939
Lab Sample ID:	PB167833BL	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
05/02/25 09:15	05/02/25 16:33	PB167833

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC068749.D
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	4.00	mg/kg	FC068749.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg	
Total EPH	Total EPH	2.09	U		2.09	6.00	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Amsterdam	Date Received:	
Client Sample ID:	PB167833BL	SDG No.:	Q1939
Lab Sample ID:	PB167833BL	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
FC068749.D	1	05/02/25	05/02/25	PB167833

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	0.91	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.5		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.2		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167833BL	Acq On:	02 May 2025 16:33
Client Sample ID:	PB167833BL	Operator:	YP/AJ
Data file:	FC068749.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	3.343	6.645	0	0	300	ug/ml
Aliphatic C12-C16	6.646	10.046	0	0	200	ug/ml
Aliphatic C16-C21	10.047	13.415	0	0	300	ug/ml
Aliphatic C21-C28	13.416	17.079	0	0	400	ug/ml
Aliphatic C28-C40	17.080	22.085	0	0	600	ug/ml
Aliphatic EPH	3.343	22.085	0	0		ug/ml
ortho-Terphenyl (SURR)	11.716	11.716	4742359	37.24		ug/ml
1-chlorooctadecane (SURR)	13.149	13.149	3580214	38.54		ug/ml
Aliphatic C9-C28	3.343	17.079	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068749.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 16:33
Operator : YP/AJ
Sample : PB167833BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167833BL

Integration File: sample.E
Quant Time: May 05 11:47:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 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)	11.716	4742359	37.242 ug/ml
Spiked Amount	50.000	Recovery	= 74.48%
12) S 1-chlorooctadecane (S...	13.149	3580214	38.541 ug/ml
Spiked Amount	50.000	Recovery	= 77.08%

Target Compounds

(f)=RT Delta > 1/2 Window

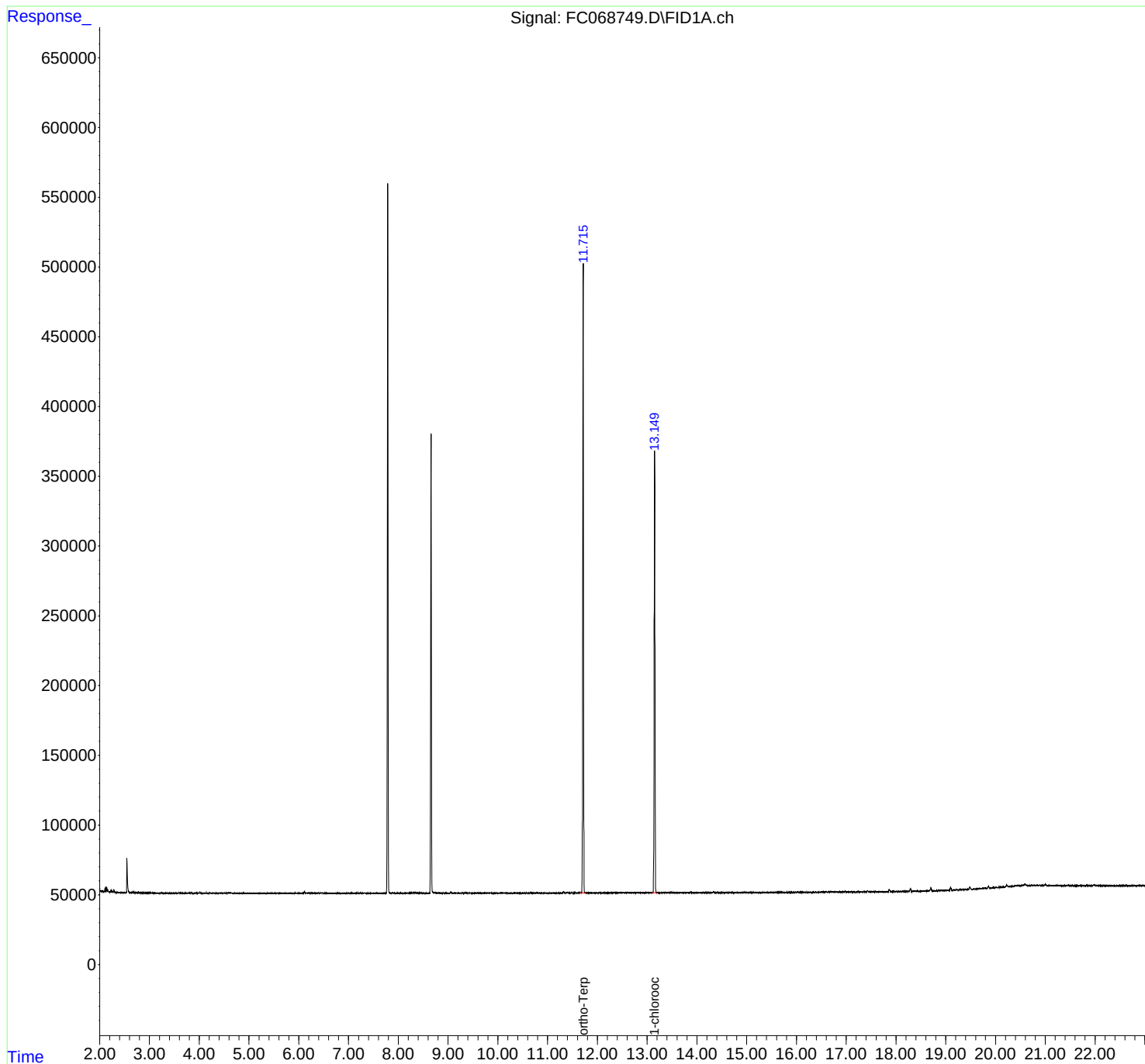
(m)=manual int.

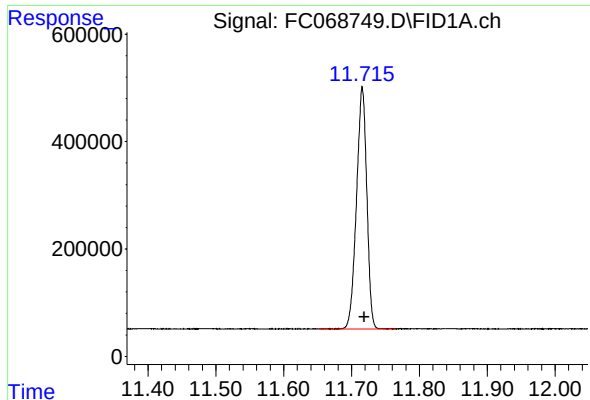
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068749.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 16:33
Operator : YP/AJ
Sample : PB167833BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167833BL

Integration File: sample.E
Quant Time: May 05 11:47:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

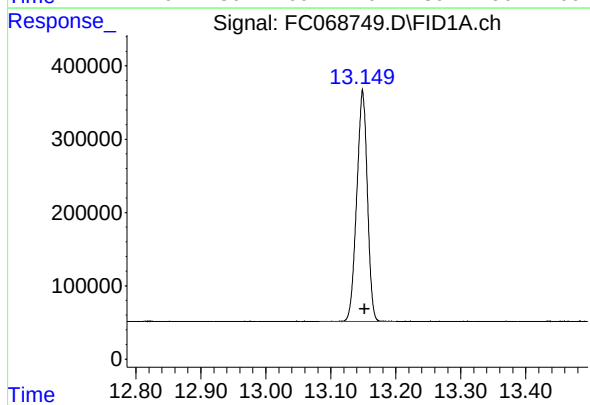




#9 ortho-Terphenyl (SURR)

R.T.: 11.716 min
Delta R.T.: -0.003 min
Response: 4742359
Conc: 37.24 ug/ml

Instrument :
FID_C
ClientSampleId :
PB167833BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.149 min
Delta R.T.: -0.003 min
Response: 3580214
Conc: 38.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068749.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 16:33
Sample : PB167833BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.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	11.716	11.652	11.765	BB	450311	4742359	100.00%	56.982%
2	13.149	13.082	13.200	BB	315366	3580214	75.49%	43.018%
Sum of corrected areas:							8322574	

Aliphatic EPH 040925.M Mon May 05 11:58:08 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Amsterdam	Date Received:	
Client Sample ID:	PB167833BS	SDG No.:	Q1939
Lab Sample ID:	PB167833BS	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
05/02/25 09:15	05/02/25 17:11	PB167833

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	26.5		1	1.18	2.00	mg/kg	FC068750.D
Aliphatic C9-C28	Aliphatic C9-C28	95.3	E	1	0.91	3.99	mg/kg	FC068750.D
Total AliphaticEPH	Total AliphaticEPH	122			2.09	5.99	mg/kg	
Total EPH	Total EPH	122			2.09	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Amsterdam	Date Received:	
Client Sample ID:	PB167833BS	SDG No.:	Q1939
Lab Sample ID:	PB167833BS	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
FC068750.D	1	05/02/25	05/02/25	PB167833

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	95.3	E	0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.5		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.0		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.3		40 - 140	75%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167833BS	Acq On:	02 May 2025 17:11
Client Sample ID:	PB167833BS	Operator:	YP/AJ
Data file:	FC068750.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.343	6.645	23606409	224.221	300	ug/ml
Aliphatic C12-C16	6.646	10.046	38960672	380.763	200	ug/ml
Aliphatic C16-C21	10.047	13.415	35112294	355.328	300	ug/ml
Aliphatic C21-C28	13.416	17.079	44232371	469.631	400	ug/ml
Aliphatic C28-C40	17.080	22.085	35723885	397.449	600	ug/ml
Aliphatic EPH	3.343	22.085	177635631	1830		ug/ml
ortho-Terphenyl (SURR)	11.716	11.716	4746439	37.27		ug/ml
1-chlorooctadecane (SURR)	13.149	13.149	3617879	38.95		ug/ml
Aliphatic C9-C28	3.343	17.079	141911746	1430	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068750.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 17:11
 Operator : YP/AJ
 Sample : PB167833BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB167833BS

Integration File: sample.E
 Quant Time: May 05 11:47:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.716	4746439	37.274 ug/ml
Spiked Amount 50.000		Recovery =	74.55%
12) S 1-chlorooctadecane (S...	13.149	3617879	38.946 ug/ml
Spiked Amount 50.000		Recovery =	77.89%
Target Compounds			
1) T n-Nonane (C9)	3.451	4183534	39.721 ug/ml
2) T n-Decane (C10)	4.525	4448055	42.218 ug/ml
3) T A~Naphthalene (C11.7)	6.119	5332662	45.789 ug/ml
4) T n-Dodecane (C12)	6.547	4612969	43.865 ug/ml
5) T A~2-methylnaphthalene...	7.177	4930620	42.690 ug/ml
6) T n-Tetradecane (C14)	8.346	4713974	45.854 ug/ml
7) T n-Hexadecane (C16)	9.948	4660594	45.763 ug/ml
8) T n-Octadecane (C18)	11.392	4602652	45.737 ug/ml
10) T n-Eicosane (C20)	12.704	4697131	47.754 ug/ml
11) T n-Heneicosane (C21)	13.316	4504471	46.220 ug/ml
13) T n-Docosane (C22)	13.904	4486199	46.443 ug/ml
14) T n-Tetracosane (C24)	15.002	9584037	100.689 ug/ml
15) T n-Hexacosane (C26)	16.033	4462728	47.778 ug/ml
16) T n-Octacosane (C28)	16.982	4556968	49.772 ug/ml
17) T n-Tricontane (C30)	17.872	4581526	49.836 ug/ml
18) T n-Dotriacontane (C32)	18.704	4590126	50.040 ug/ml
19) T n-Tetratriacontane (C34)	19.489	4662560	52.189 ug/ml
20) T n-Hexatriacontane (C36)	20.230	4484131	50.058 ug/ml
21) T n-Octatriacontane (C38)	21.006	4416902	49.958 ug/ml
22) T n-Tetracontane (C40)	21.987	4332224	49.059 ug/ml

(f)=RT Delta > 1/2 Window

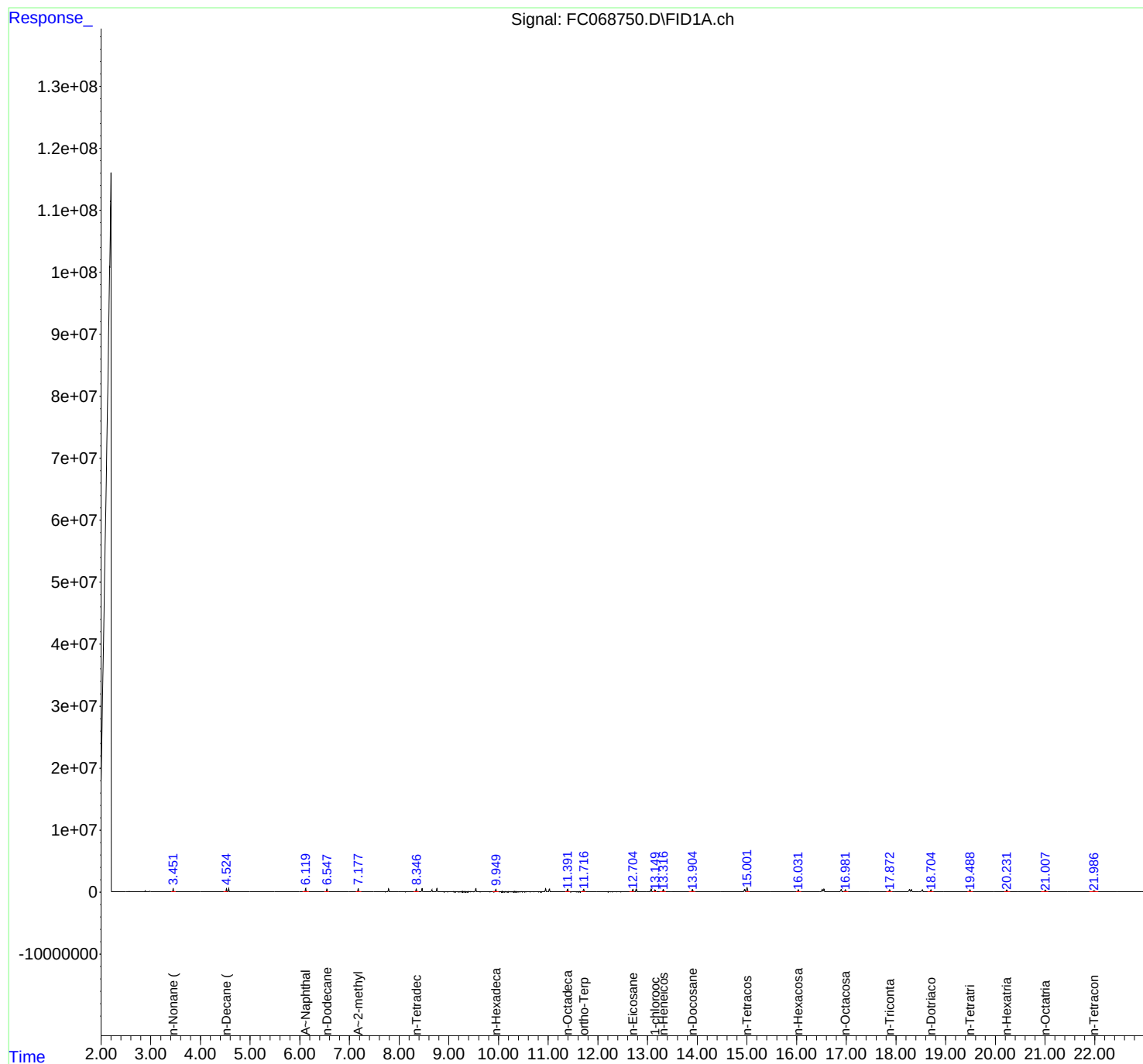
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068750.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 17:11
Operator : YP/AJ
Sample : PB167833BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167833BS

Integration File: sample.E
Quant Time: May 05 11:47:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068750.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 17:11
 Sample : PB167833BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.260	2.252	2.292	VV	28026	457215	4.77%	0.240%
2	2.357	2.340	2.384	VV	16559	271185	2.83%	0.142%
3	2.396	2.384	2.430	VV	13969	189029	1.97%	0.099%
4	2.456	2.430	2.500	VV	26993	323426	3.37%	0.170%
5	2.515	2.500	2.557	VV	6647	106834	1.11%	0.056%
6	2.568	2.557	2.596	VV	62783	551950	5.76%	0.289%
7	2.608	2.596	2.649	VV	10832	115646	1.21%	0.061%
8	2.665	2.649	2.689	VV	15734	128492	1.34%	0.067%
9	2.713	2.689	2.755	VB	29270	249755	2.61%	0.131%
10	2.889	2.844	2.940	BB	171816	1268914	13.24%	0.665%
11	2.979	2.940	3.012	BV	94663	1146788	11.97%	0.601%
12	3.451	3.410	3.504	BB	513949	4183534	43.65%	2.193%
13	4.525	4.465	4.547	BV	500407	4448055	46.41%	2.331%
14	4.569	4.547	4.614	VV	567852	4909217	51.22%	2.573%
15	4.631	4.614	4.655	VV	4852	44805	0.47%	0.023%
16	4.677	4.655	4.710	VB	8534	75167	0.78%	0.039%
17	6.119	6.057	6.187	BB	579885	5332662	55.64%	2.795%
18	6.547	6.494	6.587	BB	474593	4612969	48.13%	2.418%
19	7.017	7.000	7.059	BB	5030	43449	0.45%	0.023%
20	7.083	7.062	7.122	BB	13279	127723	1.33%	0.067%
21	7.177	7.129	7.239	BB	518769	4930620	51.45%	2.584%
22	7.789	7.724	7.840	BB	499620	4714279	49.19%	2.471%
23	8.346	8.290	8.394	BB	458495	4713974	49.19%	2.471%
24	8.463	8.409	8.507	BB	553600	5472540	57.10%	2.868%
25	8.661	8.604	8.709	BB	321187	3188274	33.27%	1.671%
26	8.761	8.709	8.807	BB	558613	5486626	57.25%	2.875%
27	9.545	9.485	9.610	BB	541375	5535555	57.76%	2.901%
28	9.755	9.737	9.797	VB	8357	87038	0.91%	0.046%
29	9.948	9.882	10.000	BB	409386	4660594	48.63%	2.443%
30	10.737	10.704	10.772	BB	11107	146466	1.53%	0.077%
31	10.951	10.865	10.985	BV	507351	5337078	55.69%	2.797%
32	11.026	10.985	11.050	PBA	473925	5219141	54.46%	2.735%
33	11.229	11.210	11.264	VB	3455	36023	0.38%	0.019%
34	11.392	11.344	11.440	BB	403921	4602652	48.02%	2.412%
35	11.716	11.659	11.754	BB	430891	4746439	49.52%	2.488%
36	12.704	12.635	12.736	BV	397958	4697131	49.01%	2.462%

						rters		
37	12.774	12.736	12.805	VB	466573	5300681	55.31%	2.778%
38	12.955	12.902	12.979	BB	5401	57536	0.60%	0.030%
39	13.074	13.000	13.102	BV	460895	5211115	54.37%	2.731%
40	13.149	13.102	13.182	VB	302677	3617879	37.75%	1.896%
41	13.316	13.245	13.367	BB	369913	4504471	47.00%	2.361%
42	13.904	13.834	13.957	BB	370609	4486199	46.81%	2.351%
43	14.955	14.887	14.974	BV	394909	5184915	54.10%	2.717%
44	15.002	14.974	15.055	VB	699018	9584037	100.00%	5.023%
45	16.033	15.990	16.090	BB	334132	4462728	46.56%	2.339%
46	16.516	16.437	16.531	BV	358033	5386897	56.21%	2.823%
47	16.551	16.531	16.595	VBA	456892	5361004	55.94%	2.810%
48	16.898	16.819	16.942	BV	382873	5209623	54.36%	2.730%
49	16.982	16.942	17.040	VB	339247	4556968	47.55%	2.388%
50	17.760	17.710	17.792	BB	3748	52916	0.55%	0.028%
51	17.872	17.805	17.929	BB	339361	4581526	47.80%	2.401%
52	18.272	18.190	18.287	BV	322482	3356045	35.02%	1.759%
53	18.533	18.455	18.597	BB	345853	5247455	54.75%	2.750%
54	18.704	18.637	18.757	BB	321437	4590126	47.89%	2.406%
55	19.489	19.440	19.549	BB	322988	4662560	48.65%	2.444%
56	20.230	20.180	20.294	BB	312370	4484131	46.79%	2.350%
57	21.006	20.920	21.065	BB	251143	4416902	46.09%	2.315%
58	21.987	21.892	22.072	BB	174626	4332224	45.20%	2.270%
						Sum of corrected areas:	190809185	

Aliphatic EPH 040925.M Mon May 05 11:58:46 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Amsterdam	Date Received:	
Client Sample ID:	PB167833BSD	SDG No.:	Q1939
Lab Sample ID:	PB167833BSD	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
05/02/25 09:15	05/02/25 17:49	PB167833

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	26.1		1	1.18	2.00	mg/kg	FC068751.D
Aliphatic C9-C28	Aliphatic C9-C28	93.9	E	1	0.91	3.99	mg/kg	FC068751.D
Total AliphaticEPH	Total AliphaticEPH	120			2.09	5.99	mg/kg	
Total EPH	Total EPH	120			2.09	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Amsterdam	Date Received:	
Client Sample ID:	PB167833BSD	SDG No.:	Q1939
Lab Sample ID:	PB167833BSD	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
FC068751.D	1	05/02/25	05/02/25	PB167833

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	93.9	E	0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.1		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.2		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.5		40 - 140	73%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167833BSD	Acq On:	02 May 2025 17:49
Client Sample ID:	PB167833BSD	Operator:	YP/AJ
Data file:	FC068751.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	3.343	6.645	23206454	220.422	300	ug/ml
Aliphatic C12-C16	6.646	10.046	38598655	377.225	200	ug/ml
Aliphatic C16-C21	10.047	13.415	34449254	348.618	300	ug/ml
Aliphatic C21-C28	13.416	17.079	43680812	463.775	400	ug/ml
Aliphatic C28-C40	17.080	22.085	35159652	391.172	600	ug/ml
Aliphatic EPH	3.343	22.085	175094827	1800		ug/ml
ortho-Terphenyl (SURR)	11.716	11.716	4644152	36.47		ug/ml
1-chlorooctadecane (SURR)	13.148	13.148	3546426	38.18		ug/ml
Aliphatic C9-C28	3.343	17.079	139935175	1410	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068751.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 17:49
 Operator : YP/AJ
 Sample : PB167833BSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB167833BSD

Integration File: sample.E
 Quant Time: May 05 11:47:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.716	4644152	36.471 ug/ml
Spiked Amount 50.000		Recovery =	72.94%
12) S 1-chlorooctadecane (S...	13.148	3546426	38.177 ug/ml
Spiked Amount 50.000		Recovery =	76.35%
Target Compounds			
1) T n-Nonane (C9)	3.451	4118059	39.099 ug/ml
2) T n-Decane (C10)	4.524	4374445	41.519 ug/ml
3) T A~Naphthalene (C11.7)	6.119	5243339	45.022 ug/ml
4) T n-Dodecane (C12)	6.547	4522055	43.000 ug/ml
5) T A~2-methylnaphthalene...	7.177	4840351	41.909 ug/ml
6) T n-Tetradecane (C14)	8.346	4608046	44.824 ug/ml
7) T n-Hexadecane (C16)	9.947	4544897	44.627 ug/ml
8) T n-Octadecane (C18)	11.392	4489707	44.615 ug/ml
10) T n-Eicosane (C20)	12.704	4591075	46.676 ug/ml
11) T n-Heneicosane (C21)	13.316	4406271	45.213 ug/ml
13) T n-Docosane (C22)	13.903	4396944	45.519 ug/ml
14) T n-Tetracosane (C24)	15.002	9463793	99.426 ug/ml
15) T n-Hexacosane (C26)	16.032	4393779	47.040 ug/ml
16) T n-Octacosane (C28)	16.980	4499166	49.140 ug/ml
17) T n-Tricontane (C30)	17.871	4534830	49.328 ug/ml
18) T n-Dotriacontane (C32)	18.704	4545874	49.558 ug/ml
19) T n-Tetratriacontane (C34)	19.489	4606977	51.567 ug/ml
20) T n-Hexatriacontane (C36)	20.230	4420385	49.346 ug/ml
21) T n-Octatriacontane (C38)	21.006	4356609	49.276 ug/ml
22) T n-Tetracontane (C40)	21.987	4274678	48.408 ug/ml

(f)=RT Delta > 1/2 Window

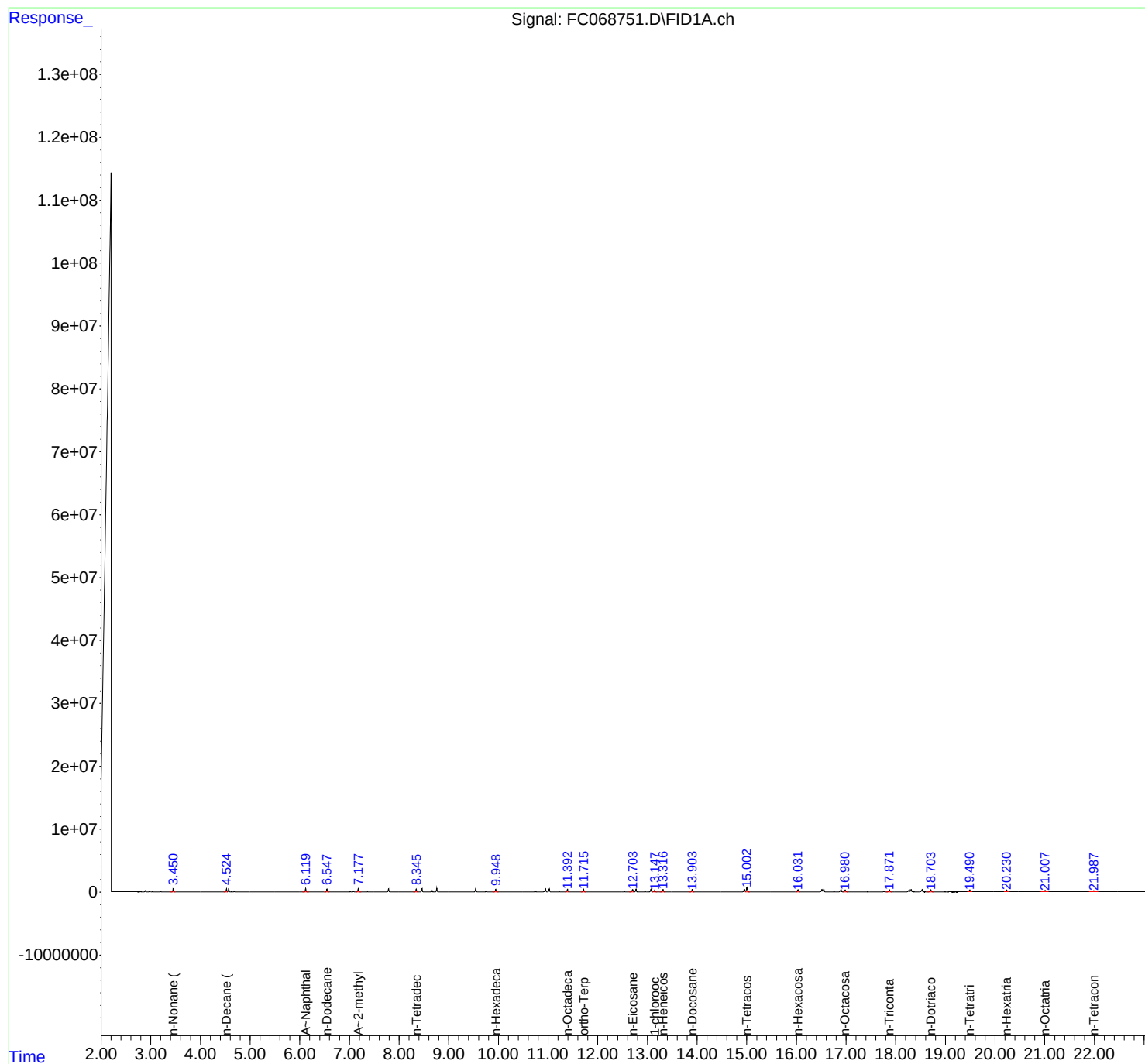
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068751.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 17:49
Operator : YP/AJ
Sample : PB167833BSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB167833BSD

Integration File: sample.E
Quant Time: May 05 11:47:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068751.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 17:49
Sample : PB167833BSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.244	2.235	2.252	VV	20468	182804	1.93%	0.097%
2	2.259	2.252	2.292	VV	24033	359797	3.80%	0.192%
3	2.356	2.322	2.385	VV	13376	260607	2.75%	0.139%
4	2.396	2.385	2.428	VV	10931	101570	1.07%	0.054%
5	2.455	2.428	2.502	VB	23870	206524	2.18%	0.110%
6	2.515	2.502	2.555	BV	4102	30567	0.32%	0.016%
7	2.567	2.555	2.596	PV	59430	507167	5.36%	0.270%
8	2.608	2.596	2.642	VV	9338	80646	0.85%	0.043%
9	2.664	2.642	2.687	PV	14964	112040	1.18%	0.060%
10	2.712	2.687	2.755	VB	28270	237292	2.51%	0.126%
11	2.889	2.838	2.922	BB	169221	1247059	13.18%	0.664%
12	2.978	2.935	3.015	BV	94028	1128131	11.92%	0.601%
13	3.451	3.392	3.498	BB	498772	4118059	43.51%	2.193%
14	4.524	4.465	4.547	BV	501346	4374445	46.22%	2.330%
15	4.569	4.547	4.613	VV	551667	4829380	51.03%	2.572%
16	4.630	4.613	4.652	VV	4791	44273	0.47%	0.024%
17	4.677	4.652	4.712	VB	8581	74903	0.79%	0.040%
18	6.119	6.055	6.182	BB	567751	5243339	55.40%	2.793%
19	6.547	6.492	6.593	BB	461495	4522055	47.78%	2.409%
20	7.016	7.000	7.048	BB	5183	44541	0.47%	0.024%
21	7.082	7.062	7.128	BB	13190	124392	1.31%	0.066%
22	7.177	7.128	7.238	BB	501834	4840351	51.15%	2.578%
23	7.789	7.725	7.832	BB	508091	4876480	51.53%	2.597%
24	8.346	8.285	8.388	BB	455465	4608046	48.69%	2.454%
25	8.462	8.407	8.510	BB	548107	5364922	56.69%	2.858%
26	8.660	8.605	8.710	BB	328767	3305632	34.93%	1.761%
27	8.760	8.712	8.805	BB	548286	5379997	56.85%	2.866%
28	9.544	9.475	9.610	BB	531700	5424597	57.32%	2.889%
29	9.755	9.737	9.800	VB	8210	84800	0.90%	0.045%
30	9.947	9.880	10.000	BB	410472	4544897	48.02%	2.421%
31	10.737	10.707	10.773	BB	10832	144963	1.53%	0.077%
32	10.950	10.867	10.987	BV	498797	5239226	55.36%	2.791%
33	11.026	10.987	11.050	PBA	489037	5144166	54.36%	2.740%
34	11.228	11.209	11.270	VB	3379	35183	0.37%	0.019%
35	11.392	11.343	11.427	BB	406601	4489707	47.44%	2.391%
36	11.716	11.658	11.760	BB	425661	4644152	49.07%	2.474%

						rters		
37	12.704	12.633	12.737	BV	380737	4591075	48.51%	2.445%
38	12.773	12.737	12.800	VB	465993	5214312	55.10%	2.777%
39	12.955	12.902	12.977	BB	5407	57720	0.61%	0.031%
40	13.074	13.000	13.100	BV	433842	5126631	54.17%	2.731%
41	13.148	13.100	13.195	VB	292148	3546426	37.47%	1.889%
42	13.316	13.247	13.367	BB	387243	4406271	46.56%	2.347%
43	13.903	13.832	13.947	BB	360970	4396944	46.46%	2.342%
44	14.953	14.883	14.973	BV	387973	5148358	54.40%	2.742%
45	15.002	14.973	15.063	VB	697917	9463793	100.00%	5.041%
46	16.032	15.990	16.072	BB	344256	4393779	46.43%	2.340%
47	16.514	16.443	16.530	BV	359103	5328632	56.31%	2.838%
48	16.550	16.530	16.595	VBA	450105	5294837	55.95%	2.820%
49	16.897	16.820	16.942	BV	392886	5155303	54.47%	2.746%
50	16.980	16.942	17.033	VB	334346	4499166	47.54%	2.396%
51	17.760	17.708	17.788	BB	3637	52401	0.55%	0.028%
52	17.871	17.805	17.930	BB	337976	4534830	47.92%	2.415%
53	18.272	18.187	18.287	BV	286232	3181018	33.61%	1.694%
54	18.530	18.455	18.598	BB	351784	5186880	54.81%	2.763%
55	18.704	18.638	18.760	BB	327889	4545874	48.03%	2.421%
56	19.489	19.440	19.540	BB	316638	4606977	48.68%	2.454%
57	20.230	20.180	20.285	BB	311144	4420385	46.71%	2.355%
58	21.006	20.920	21.077	BB	231245	4356609	46.03%	2.321%
59	21.987	21.893	22.078	BB	168721	4274678	45.17%	2.277%
					Sum of corrected areas:		187739609	

Aliphatic EPH 040925.M Mon May 05 11:59:06 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Amsterdam	Date Received:	
Client Sample ID:	MH-QMS	SDG No.:	Q1939
Lab Sample ID:	Q1928-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/02/25 09:15	05/02/25 19:42	PB167833

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	37.6		1	1.35	2.29	mg/kg	FC068754.D
Aliphatic C9-C28	Aliphatic C9-C28	105	E	1	1.04	4.59	mg/kg	FC068754.D
Total AliphaticEPH	Total AliphaticEPH	143			2.39	6.88	mg/kg	
Total EPH	Total EPH	143			2.39	6.88	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:	Amsterdam	Date Received:	
Client Sample ID:	MH-QMS	SDG No.:	Q1939
Lab Sample ID:	Q1928-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.1
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
FC068754.D	1	05/02/25	05/02/25	PB167833

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	105	E	1.04	4.59	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	37.6		1.35	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	25.3		40 - 140	51%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.3		40 - 140	47%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1928-01MS	Acq On:	02 May 2025 19:42
Client Sample ID:	Q1928-01MS	Operator:	YP/AJ
Data file:	FC068754.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.343	6.645	20467143	194.403	300	ug/ml
Aliphatic C12-C16	6.646	10.046	36278177	354.547	200	ug/ml
Aliphatic C16-C21	10.047	13.415	35082923	355.031	300	ug/ml
Aliphatic C21-C28	13.416	17.079	44564003	473.152	400	ug/ml
Aliphatic C28-C40	17.080	22.085	44154139	491.241	600	ug/ml
Aliphatic EPH	3.343	22.085	180546385	1870		ug/ml
ortho-Terphenyl (SURR)	11.714	11.714	2971417	23.33		ug/ml
1-chlorooctadecane (SURR)	13.147	13.147	2351177	25.31		ug/ml
Aliphatic C9-C28	3.343	17.079	136392246	1380	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068754.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 19:42
 Operator : YP/AJ
 Sample : Q1928-01MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 MH-QMS

Integration File: sample.E
 Quant Time: May 05 11:48:53 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.714	2971417	23.335 ug/ml
Spiked Amount 50.000		Recovery =	46.67%
12) S 1-chlorooctadecane (S...	13.147	2351177	25.310 ug/ml
Spiked Amount 50.000		Recovery =	50.62%
Target Compounds			
1) T n-Nonane (C9)	3.445	3474612	32.990 ug/ml
2) T n-Decane (C10)	4.521	3858767	36.625 ug/ml
3) T A~Naphthalene (C11.7)	6.117	4555844	39.119 ug/ml
4) T n-Dodecane (C12)	6.546	3991671	37.957 ug/ml
5) T A~2-methylnaphthalene...	7.176	4219335	36.532 ug/ml
6) T n-Tetradecane (C14)	8.344	4145350	40.323 ug/ml
7) T n-Hexadecane (C16)	9.947	4393332	43.139 ug/ml
8) T n-Octadecane (C18)	11.391	4524307	44.959 ug/ml
10) T n-Eicosane (C20)	12.703	4664047	47.418 ug/ml
11) T n-Heneicosane (C21)	13.315	4453647	45.699 ug/ml
13) T n-Docosane (C22)	13.902	4435323	45.917 ug/ml
14) T n-Tetracosane (C24)	15.000	9305303	97.761 ug/ml
15) T n-Hexacosane (C26)	16.031	4344438	46.512 ug/ml
16) T n-Octacosane (C28)	16.980	4407162	48.135 ug/ml
17) T n-Tricontane (C30)	17.870	4419685	48.076 ug/ml
18) T n-Dotriacontane (C32)	18.702	4409721	48.074 ug/ml
19) T n-Tetratriacontane (C34)	19.487	4472132	50.058 ug/ml
20) T n-Hexatriacontane (C36)	20.228	4314181	48.161 ug/ml
21) T n-Octatriacontane (C38)	21.004	4284800	48.464 ug/ml
22) T n-Tetracontane (C40)	21.983	4246318	48.086 ug/ml

(f)=RT Delta > 1/2 Window

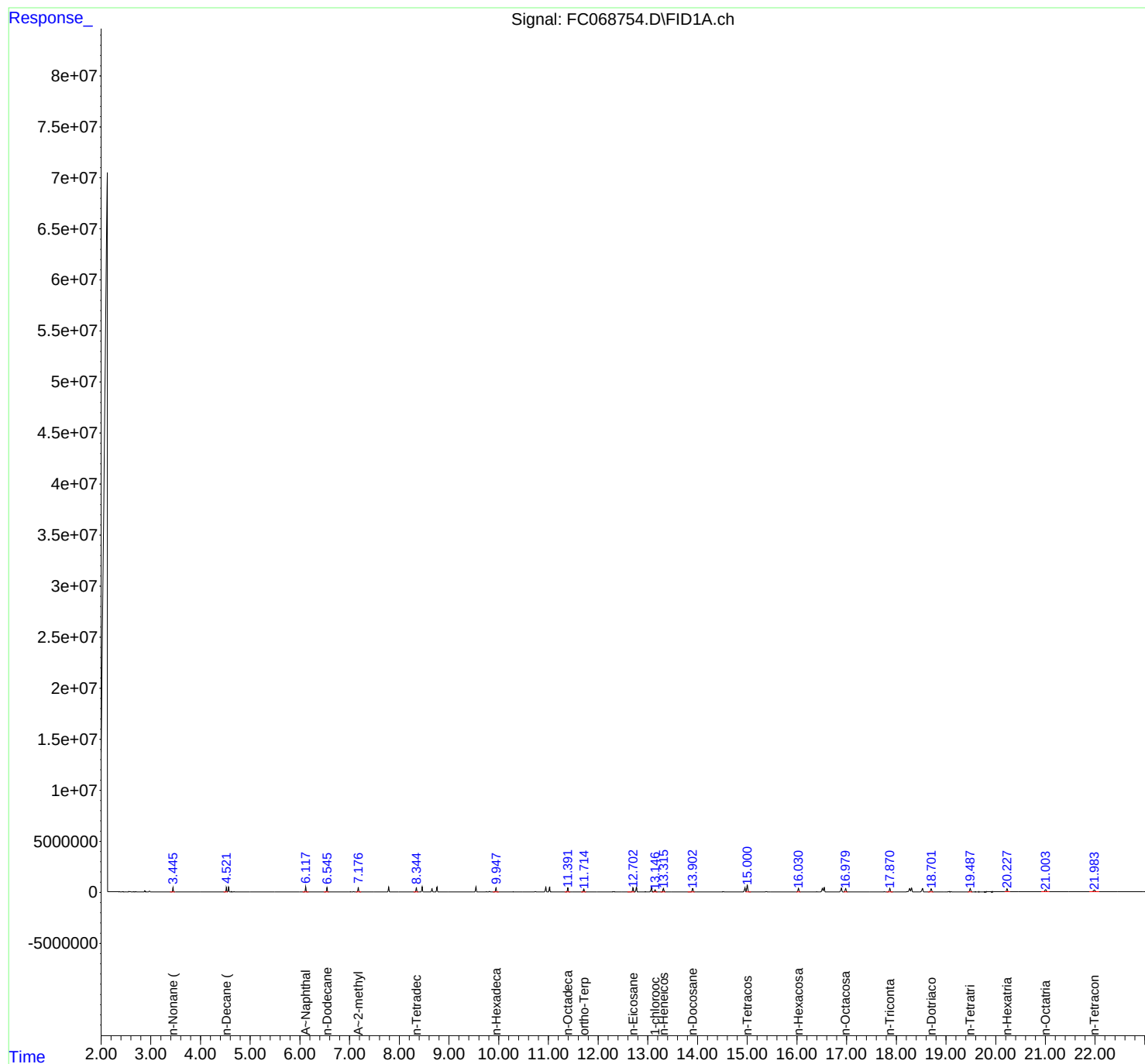
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068754.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 19:42
Operator : YP/AJ
Sample : Q1928-01MS
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
MH-QMS

Integration File: sample.E
Quant Time: May 05 11:48:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068754.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 19:42
 Sample : Q1928-01MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.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	3.275	3.238	3.307	BV	189	2603	0.03%	0.001%
2	3.339	3.307	3.375	VV	335	6631	0.07%	0.004%
3	3.389	3.375	3.408	PV	71	690	0.01%	0.000%
4	3.445	3.408	3.491	PV	422038	3476741	37.04%	1.870%
5	3.496	3.491	3.512	VV	153	813	0.01%	0.000%
6	3.574	3.512	3.583	PV	203	2627	0.03%	0.001%
7	3.596	3.583	3.613	VV	459	3881	0.04%	0.002%
8	3.628	3.613	3.637	VV	126	1319	0.01%	0.001%
9	3.649	3.637	3.684	VV	176	2270	0.02%	0.001%
10	3.694	3.684	3.708	VV	211	1789	0.02%	0.001%
11	3.718	3.708	3.727	VV	246	2601	0.03%	0.001%
12	3.742	3.727	3.818	VV	1011	16938	0.18%	0.009%
13	3.832	3.818	3.894	VV	596	7277	0.08%	0.004%
14	3.930	3.894	3.958	VV	390	6920	0.07%	0.004%
15	3.967	3.958	3.982	VV	202	1673	0.02%	0.001%
16	4.013	3.982	4.070	VV	752	10048	0.11%	0.005%
17	4.092	4.070	4.111	VV	1138	10401	0.11%	0.006%
18	4.126	4.111	4.137	VV	213	2273	0.02%	0.001%
19	4.146	4.137	4.176	VV	178	2209	0.02%	0.001%
20	4.199	4.176	4.252	VV	118	3512	0.04%	0.002%
21	4.286	4.252	4.308	VV	536	7360	0.08%	0.004%
22	4.318	4.308	4.490	VV	192	15313	0.16%	0.008%
23	4.521	4.490	4.543	VV	440531	3862883	41.16%	2.078%
24	4.566	4.543	4.610	VV	475203	4142198	44.13%	2.228%
25	4.627	4.610	4.649	VV	4299	40786	0.43%	0.022%
26	4.674	4.649	4.713	VV	7438	71916	0.77%	0.039%
27	4.728	4.713	4.760	VV	202	4083	0.04%	0.002%
28	4.773	4.760	4.796	VV	251	3945	0.04%	0.002%
29	4.807	4.796	4.835	VV	267	3375	0.04%	0.002%
30	4.855	4.835	4.878	VV	212	3284	0.03%	0.002%
31	4.896	4.878	4.921	VV	155	2800	0.03%	0.002%
32	4.943	4.921	4.968	VV	189	2991	0.03%	0.002%
33	5.006	4.968	5.058	VV	168	5098	0.05%	0.003%
34	5.070	5.058	5.084	VV	128	1305	0.01%	0.001%
35	5.095	5.084	5.148	VV	150	4238	0.05%	0.002%
36	5.168	5.148	5.218	VV	173	5188	0.06%	0.003%

					rteres			
37	5.243	5.218	5.330	VV	233	8103	0.09%	0.004%
38	5.345	5.330	5.360	PV	127	1245	0.01%	0.001%
39	5.380	5.360	5.416	VV	562	6143	0.07%	0.003%
40	5.427	5.416	5.438	VV	91	875	0.01%	0.000%
41	5.478	5.438	5.510	VV	156	4480	0.05%	0.002%
42	5.521	5.510	5.531	VV	145	979	0.01%	0.001%
43	5.560	5.531	5.573	VV	1369	13098	0.14%	0.007%
44	5.587	5.573	5.707	VV	1947	28445	0.30%	0.015%
45	5.717	5.707	5.773	VV	179	5002	0.05%	0.003%
46	5.839	5.773	5.850	VV	179	5460	0.06%	0.003%
47	5.863	5.850	5.893	VV	164	3132	0.03%	0.002%
48	5.908	5.893	5.955	VV	225	4657	0.05%	0.003%
49	5.965	5.955	6.014	VV	127	3950	0.04%	0.002%
50	6.117	6.014	6.154	VV	495437	4565606	48.64%	2.456%
51	6.161	6.154	6.182	VV	743	9271	0.10%	0.005%
52	6.202	6.182	6.228	VV	486	9510	0.10%	0.005%
53	6.263	6.228	6.294	VV	458	12101	0.13%	0.007%
54	6.306	6.294	6.344	VV	247	6243	0.07%	0.003%
55	6.389	6.344	6.418	VV	757	15764	0.17%	0.008%
56	6.438	6.418	6.471	VV	354	8400	0.09%	0.005%
57	6.498	6.471	6.514	VV	361	6487	0.07%	0.003%
58	6.546	6.514	6.601	VV	413779	4002265	42.64%	2.153%
59	6.615	6.601	6.668	VV	1162	15182	0.16%	0.008%
60	6.696	6.668	6.721	VV	512	7004	0.07%	0.004%
61	6.729	6.721	6.734	VV	136	967	0.01%	0.001%
62	6.744	6.734	6.757	VV	202	1979	0.02%	0.001%
63	6.766	6.757	6.775	VV	177	1542	0.02%	0.001%
64	6.840	6.775	6.853	VV	236	7187	0.08%	0.004%
65	6.871	6.853	6.891	VV	205	3145	0.03%	0.002%
66	6.905	6.891	6.918	VV	198	2446	0.03%	0.001%
67	6.941	6.918	6.951	VV	387	4637	0.05%	0.002%
68	6.964	6.951	6.990	VV	440	5158	0.05%	0.003%
69	7.015	6.990	7.051	VV	4811	48229	0.51%	0.026%
70	7.082	7.051	7.118	VV	11610	116105	1.24%	0.062%
71	7.176	7.118	7.241	VV	432232	4232369	45.09%	2.277%
72	7.250	7.241	7.288	VV	358	7093	0.08%	0.004%
73	7.313	7.288	7.348	VV	1496	22691	0.24%	0.012%
74	7.365	7.348	7.381	VV	2329	27864	0.30%	0.015%
75	7.391	7.381	7.416	VV	1248	14321	0.15%	0.008%
76	7.441	7.416	7.454	VV	1058	13238	0.14%	0.007%
77	7.469	7.454	7.489	VV	1179	14467	0.15%	0.008%
78	7.513	7.489	7.524	VV	377	6117	0.07%	0.003%
79	7.537	7.524	7.552	VV	414	5694	0.06%	0.003%
80	7.564	7.552	7.588	VV	422	5443	0.06%	0.003%
81	7.613	7.588	7.630	VV	236	4356	0.05%	0.002%
82	7.650	7.630	7.671	VV	681	9409	0.10%	0.005%
83	7.689	7.671	7.741	VV	351	10014	0.11%	0.005%
84	7.788	7.741	7.842	VV	482035	4649418	49.54%	2.501%
85	7.849	7.842	7.856	VV	335	2675	0.03%	0.001%
86	7.882	7.856	7.914	VV	612	15087	0.16%	0.008%
87	7.926	7.914	8.013	VV	514	14108	0.15%	0.008%
88	8.039	8.013	8.071	VV	585	11172	0.12%	0.006%
89	8.094	8.071	8.111	VV	538	7535	0.08%	0.004%

					rteres			
90	8.122	8.111	8.137	VV	232	3129	0.03%	0.002%
91	8.166	8.137	8.183	VV	399	7303	0.08%	0.004%
92	8.205	8.183	8.224	VV	319	7250	0.08%	0.004%
93	8.246	8.224	8.286	VV	430	14518	0.15%	0.008%
94	8.344	8.286	8.380	VV	410040	4156588	44.29%	2.236%
95	8.403	8.380	8.420	VV	249	4737	0.05%	0.003%
96	8.461	8.420	8.561	VV	487106	4771178	50.84%	2.567%
97	8.569	8.561	8.618	VV	299	6514	0.07%	0.004%
98	8.659	8.618	8.724	VV	308829	3146472	33.52%	1.693%
99	8.759	8.724	8.798	VV	478062	4829706	51.46%	2.598%
100	8.811	8.798	8.838	VV	528	8091	0.09%	0.004%
101	8.843	8.838	8.859	VV	243	2610	0.03%	0.001%
102	8.880	8.859	8.924	VV	387	7377	0.08%	0.004%
103	8.966	8.924	8.982	VV	300	6022	0.06%	0.003%
104	9.027	8.982	9.048	VV	813	13326	0.14%	0.007%
105	9.062	9.048	9.137	VV	646	15951	0.17%	0.009%
106	9.165	9.137	9.189	VV	707	9941	0.11%	0.005%
107	9.199	9.189	9.221	VV	275	3183	0.03%	0.002%
108	9.227	9.221	9.279	VV	178	3277	0.03%	0.002%
109	9.301	9.279	9.333	VV	197	3729	0.04%	0.002%
110	9.351	9.333	9.372	VV	267	3706	0.04%	0.002%
111	9.401	9.372	9.437	VV	221	5146	0.05%	0.003%
112	9.466	9.437	9.505	PV	284	6607	0.07%	0.004%
113	9.544	9.505	9.572	VV	498899	5027687	53.57%	2.705%
114	9.583	9.572	9.608	VV	821	10767	0.11%	0.006%
115	9.620	9.608	9.650	VV	345	6040	0.06%	0.003%
116	9.684	9.650	9.697	VV	505	8802	0.09%	0.005%
117	9.723	9.697	9.736	VV	2022	28048	0.30%	0.015%
118	9.755	9.736	9.790	VV	7973	85208	0.91%	0.046%
119	9.816	9.790	9.868	VV	35618	377404	4.02%	0.203%
120	9.880	9.868	9.904	VV	657	8587	0.09%	0.005%
121	9.947	9.904	10.008	VV	411854	4409527	46.98%	2.372%
122	10.039	10.008	10.089	VV	363	8276	0.09%	0.004%
123	10.119	10.089	10.157	VV	193	4079	0.04%	0.002%
124	10.168	10.157	10.188	VV	83	1558	0.02%	0.001%
125	10.195	10.188	10.207	VV	96	1125	0.01%	0.001%
126	10.225	10.207	10.263	VV	185	3257	0.03%	0.002%
127	10.291	10.263	10.315	VV	4433	47046	0.50%	0.025%
128	10.336	10.315	10.366	VV	370	6136	0.07%	0.003%
129	10.385	10.366	10.406	VV	306	5144	0.05%	0.003%
130	10.425	10.406	10.446	VV	163	2573	0.03%	0.001%
131	10.463	10.446	10.525	VV	271	5950	0.06%	0.003%
132	10.549	10.525	10.564	VV	195	2969	0.03%	0.002%
133	10.580	10.564	10.601	VV	221	3833	0.04%	0.002%
134	10.614	10.601	10.625	VV	215	2682	0.03%	0.001%
135	10.642	10.625	10.659	VV	370	5666	0.06%	0.003%
136	10.680	10.659	10.704	VV	848	11794	0.13%	0.006%
137	10.737	10.704	10.821	VV	10229	156662	1.67%	0.084%
138	10.828	10.821	10.855	VV	176	2044	0.02%	0.001%
139	10.871	10.855	10.887	PV	196	1892	0.02%	0.001%
140	10.950	10.887	10.991	VV	478202	5102118	54.36%	2.745%
141	11.025	10.991	11.078	VV	470099	5053475	53.84%	2.718%

					rteres			
142	11.097	11.078	11.125	VV	964	14294	0.15%	0.008%
143	11.133	11.125	11.154	VV	252	3498	0.04%	0.002%
144	11.161	11.154	11.169	VV	220	1815	0.02%	0.001%
145	11.193	11.169	11.208	VV	988	13048	0.14%	0.007%
146	11.227	11.208	11.293	VV	3597	40932	0.44%	0.022%
147	11.320	11.293	11.344	VV	401	6542	0.07%	0.004%
148	11.391	11.344	11.437	VV	402052	4533899	48.31%	2.439%
149	11.473	11.437	11.522	VV	438	11115	0.12%	0.006%
150	11.550	11.522	11.568	VV	200	3273	0.03%	0.002%
151	11.585	11.568	11.602	VV	152	2277	0.02%	0.001%
152	11.662	11.602	11.678	VV	163	4510	0.05%	0.002%
153	11.714	11.678	11.764	VV	291128	2975085	31.70%	1.600%
154	11.804	11.764	11.822	VV	386	8687	0.09%	0.005%
155	11.844	11.822	11.858	VV	828	10447	0.11%	0.006%
156	11.875	11.858	11.909	VV	1206	18417	0.20%	0.010%
157	11.922	11.909	11.968	VV	457	7692	0.08%	0.004%
158	11.992	11.968	12.026	VV	368	6584	0.07%	0.004%
159	12.055	12.026	12.091	VV	379	9178	0.10%	0.005%
160	12.110	12.091	12.131	VV	323	5369	0.06%	0.003%
161	12.153	12.131	12.198	VV	295	6939	0.07%	0.004%
162	12.228	12.198	12.241	VV	207	3585	0.04%	0.002%
163	12.306	12.241	12.379	VV	22134	297284	3.17%	0.160%
164	12.393	12.379	12.414	VV	1475	25800	0.27%	0.014%
165	12.421	12.414	12.473	VV	1034	28706	0.31%	0.015%
166	12.541	12.473	12.613	VV	2520	75744	0.81%	0.041%
167	12.640	12.613	12.663	VV	686	15389	0.16%	0.008%
168	12.703	12.663	12.734	VV	405888	4675314	49.81%	2.515%
169	12.772	12.734	12.871	VV	448502	5191238	55.31%	2.793%
170	12.907	12.871	12.925	VV	325	8125	0.09%	0.004%
171	12.954	12.925	12.994	VV	5511	70496	0.75%	0.038%
172	13.007	12.994	13.030	VV	379	6995	0.07%	0.004%
173	13.072	13.030	13.100	VV	439065	5063841	53.95%	2.724%
174	13.147	13.100	13.184	VV	197821	2365262	25.20%	1.272%
175	13.261	13.223	13.276	VV	511	11100	0.12%	0.006%
176	13.315	13.276	13.352	VV	360645	4468824	47.61%	2.404%
177	13.361	13.352	13.384	VV	363	5882	0.06%	0.003%
178	13.401	13.384	13.421	VV	350	6081	0.06%	0.003%
179	13.444	13.421	13.468	VV	365	7817	0.08%	0.004%
180	13.507	13.468	13.531	VV	816	20112	0.21%	0.011%
181	13.548	13.531	13.559	VV	719	11081	0.12%	0.006%
182	13.590	13.559	13.604	VV	769	19159	0.20%	0.010%
183	13.613	13.604	13.637	VV	714	13866	0.15%	0.007%
184	13.655	13.637	13.672	VV	763	14104	0.15%	0.008%
185	13.691	13.672	13.710	VV	934	17532	0.19%	0.009%
186	13.741	13.710	13.791	VV	1146	34130	0.36%	0.018%
187	13.813	13.791	13.824	VV	516	10238	0.11%	0.006%
188	13.849	13.824	13.864	VV	1067	18694	0.20%	0.010%
189	13.902	13.864	13.939	VV	353039	4450279	47.42%	2.394%
190	13.952	13.939	13.981	VV	603	13631	0.15%	0.007%
191	14.028	13.981	14.058	VV	1478	32777	0.35%	0.018%
192	14.077	14.058	14.095	VV	933	14666	0.16%	0.008%
193	14.105	14.095	14.115	VV	502	5888	0.06%	0.003%
194	14.138	14.115	14.186	VV	572	20791	0.22%	0.011%

					rteres			
195	14.201	14.186	14.225	VV	555	10630	0.11%	0.006%
196	14.291	14.225	14.320	VV	1138	39716	0.42%	0.021%
197	14.336	14.320	14.431	VV	1032	44608	0.48%	0.024%
198	14.471	14.431	14.495	VV	1741	37285	0.40%	0.020%
199	14.519	14.495	14.551	VV	8538	118244	1.26%	0.064%
200	14.560	14.551	14.581	VV	945	15960	0.17%	0.009%
201	14.588	14.581	14.615	VV	895	15630	0.17%	0.008%
202	14.633	14.615	14.650	VV	704	14015	0.15%	0.008%
203	14.684	14.650	14.712	VV	1160	29293	0.31%	0.016%
204	14.754	14.712	14.784	VV	822	31907	0.34%	0.017%
205	14.845	14.784	14.891	VV	1047	51364	0.55%	0.028%
206	14.953	14.891	14.973	VV	372712	5048697	53.79%	2.716%
207	15.000	14.973	15.128	VV	680934	9385599	100.00%	5.049%
208	15.184	15.154	15.232	VV	1883	53015	0.56%	0.029%
209	15.251	15.232	15.274	VV	897	21147	0.23%	0.011%
210	15.281	15.274	15.321	VV	779	20536	0.22%	0.011%
211	15.380	15.321	15.462	VV	16078	285805	3.05%	0.154%
212	15.472	15.462	15.498	VV	867	16631	0.18%	0.009%
213	15.525	15.498	15.560	VV	1419	38348	0.41%	0.021%
214	15.605	15.560	15.648	VV	2167	54344	0.58%	0.029%
215	15.652	15.648	15.701	VV	668	17008	0.18%	0.009%
216	15.712	15.701	15.718	VV	488	4878	0.05%	0.003%
217	15.727	15.718	15.741	VV	600	6579	0.07%	0.004%
218	15.757	15.741	15.776	VV	578	10542	0.11%	0.006%
219	15.792	15.776	15.823	VV	602	13804	0.15%	0.007%
220	15.860	15.823	15.884	VV	1443	27008	0.29%	0.015%
221	15.902	15.884	15.970	VV	908	29595	0.32%	0.016%
222	16.030	15.970	16.078	VV	346376	4374219	46.61%	2.353%
223	16.090	16.078	16.146	VV	531	14600	0.16%	0.008%
224	16.199	16.146	16.216	VV	575	15243	0.16%	0.008%
225	16.234	16.216	16.284	VV	1089	19174	0.20%	0.010%
226	16.397	16.284	16.450	VV	3872	84015	0.90%	0.045%
227	16.513	16.450	16.529	VV	360227	5193100	55.33%	2.794%
228	16.549	16.529	16.578	VV	433522	5164199	55.02%	2.778%
229	16.592	16.578	16.627	VV	1488	25829	0.28%	0.014%
230	16.638	16.627	16.684	VV	406	10767	0.11%	0.006%
231	16.689	16.684	16.731	VV	300	6981	0.07%	0.004%
232	16.756	16.731	16.800	VV	2945	41666	0.44%	0.022%
233	16.832	16.800	16.837	VV	251	5014	0.05%	0.003%
234	16.895	16.837	16.929	VV	373899	5011290	53.39%	2.696%
235	16.980	16.929	17.018	VV	335235	4430756	47.21%	2.383%
236	17.029	17.018	17.041	VV	566	7018	0.07%	0.004%
237	17.056	17.041	17.114	VV	622	13179	0.14%	0.007%
238	17.125	17.114	17.157	VV	168	2220	0.02%	0.001%
239	17.191	17.157	17.208	PV	184	2854	0.03%	0.002%
240	17.343	17.208	17.386	VV	1229	31624	0.34%	0.017%
241	17.427	17.386	17.465	VV	1778	30561	0.33%	0.016%
242	17.513	17.465	17.561	PV	409	9093	0.10%	0.005%
243	17.603	17.561	17.637	VV	123	3034	0.03%	0.002%
244	17.656	17.637	17.681	PV	203	2719	0.03%	0.001%
245	17.758	17.681	17.787	PV	3625	55209	0.59%	0.030%
246	17.870	17.787	17.931	VV	340550	4431012	47.21%	2.384%

rteres								
247	17.957	17.931	18.000	VV	1032	16413	0.17%	0.009%
248	18.063	18.000	18.084	PV	148	4134	0.04%	0.002%
249	18.109	18.084	18.176	VV	369	8178	0.09%	0.004%
250	18.269	18.176	18.286	VV	345307	5477702	58.36%	2.947%
251	18.307	18.286	18.368	VV	379280	4910318	52.32%	2.641%
252	18.380	18.368	18.448	VV	724	22981	0.24%	0.012%
253	18.456	18.448	18.471	VV	250	3292	0.04%	0.002%
254	18.528	18.471	18.617	VV	335370	5025300	53.54%	2.703%
255	18.643	18.617	18.656	VV	512	10039	0.11%	0.005%
256	18.702	18.656	18.757	VV	303573	4425164	47.15%	2.380%
257	18.787	18.757	18.838	VV	1295	32349	0.34%	0.017%
258	18.859	18.838	18.897	VV	569	12421	0.13%	0.007%
259	18.911	18.897	18.930	VV	208	3399	0.04%	0.002%
260	18.981	18.930	19.016	VV	483	13687	0.15%	0.007%
261	19.050	19.016	19.082	VV	4622	91053	0.97%	0.049%
262	19.099	19.082	19.158	VV	2351	57267	0.61%	0.031%
263	19.195	19.158	19.217	VV	668	18340	0.20%	0.010%
264	19.262	19.217	19.321	VV	584	29371	0.31%	0.016%
265	19.345	19.321	19.376	VV	642	16517	0.18%	0.009%
266	19.397	19.376	19.416	VV	521	10906	0.12%	0.006%
267	19.487	19.416	19.531	VV	317858	4503382	47.98%	2.423%
268	19.557	19.531	19.574	VV	908	19944	0.21%	0.011%
269	19.592	19.574	19.621	VV	1199	25908	0.28%	0.014%
270	19.664	19.621	19.699	VV	1163	42601	0.45%	0.023%
271	19.781	19.699	19.801	VV	1209	54320	0.58%	0.029%
272	19.857	19.801	19.886	VV	2579	87852	0.94%	0.047%
273	19.896	19.886	19.908	VV	1196	15685	0.17%	0.008%
274	19.915	19.908	19.927	VV	1176	13065	0.14%	0.007%
275	19.958	19.927	19.991	VV	1267	44037	0.47%	0.024%
276	20.022	19.991	20.051	VV	1572	48658	0.52%	0.026%
277	20.086	20.051	20.104	VV	2118	56851	0.61%	0.031%
278	20.131	20.104	20.168	VV	2642	79514	0.85%	0.043%
279	20.228	20.168	20.291	VV	306413	4450585	47.42%	2.394%
280	20.365	20.291	20.425	VV	4330	197415	2.10%	0.106%
281	20.470	20.425	20.520	VV	2316	115827	1.23%	0.062%
282	20.590	20.520	20.632	VV	2923	154512	1.65%	0.083%
283	20.641	20.632	20.664	VV	2020	38597	0.41%	0.021%
284	20.677	20.664	20.687	VV	1974	26938	0.29%	0.014%
285	20.698	20.687	20.714	VV	1970	31353	0.33%	0.017%
286	20.720	20.714	20.757	VV	1927	48669	0.52%	0.026%
287	20.780	20.757	20.796	VV	2048	45475	0.48%	0.024%
288	20.803	20.796	20.873	VV	1993	83986	0.89%	0.045%
289	20.898	20.873	20.934	VV	1777	62837	0.67%	0.034%
290	21.004	20.934	21.078	VV	213406	4419607	47.09%	2.377%
291	21.117	21.078	21.139	VV	1600	55358	0.59%	0.030%
292	21.167	21.139	21.204	VV	1451	53666	0.57%	0.029%
293	21.215	21.204	21.232	VV	1326	20528	0.22%	0.011%
294	21.241	21.232	21.251	VV	1190	13773	0.15%	0.007%
295	21.256	21.251	21.300	VV	1220	32702	0.35%	0.018%
296	21.336	21.300	21.368	VV	1212	46172	0.49%	0.025%
297	21.374	21.368	21.388	VV	1090	12423	0.13%	0.007%
298	21.399	21.388	21.405	VV	1043	10600	0.11%	0.006%
299	21.459	21.405	21.535	VV	1438	83975	0.89%	0.045%

					rteres			
300	21.547	21.535	21.603	VV	912	33671	0.36%	0.018%
301	21.623	21.603	21.657	VV	780	23228	0.25%	0.012%
302	21.676	21.657	21.777	VV	729	43765	0.47%	0.024%
303	21.790	21.777	21.825	VV	575	14916	0.16%	0.008%
304	21.834	21.825	21.871	VV	607	13292	0.14%	0.007%
305	21.983	21.906	22.121	VV	170397	4271295	45.51%	2.298%
306	22.137	22.121	22.147	VV	116	1119	0.01%	0.001%
					Sum of corrected areas:	185897086		

Aliphatic EPH 040925.M Mon May 05 12:00:34 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Amsterdam	Date Received:	
Client Sample ID:	MH-QMSD	SDG No.:	Q1939
Lab Sample ID:	Q1928-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/02/25 09:15	05/02/25 20:19	PB167833

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	37.5		1	1.35	2.29	mg/kg	FC068755.D
Aliphatic C9-C28	Aliphatic C9-C28	105	E	1	1.04	4.59	mg/kg	FC068755.D
Total AliphaticEPH	Total AliphaticEPH	142			2.39	6.88	mg/kg	
Total EPH	Total EPH	142			2.39	6.88	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:	Amsterdam	Date Received:	
Client Sample ID:	MH-QMSD	SDG No.:	Q1939
Lab Sample ID:	Q1928-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.1
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
FC068755.D	1	05/02/25	05/02/25	PB167833

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	105	E	1.04	4.59	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	37.5		1.35	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	24.4		40 - 140	49%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.0		40 - 140	46%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1928-01MSD	Acq On:	02 May 2025 20:19
Client Sample ID:	Q1928-01MSD	Operator:	YP/AJ
Data file:	FC068755.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.343	6.645	20934135	198.839	300	ug/ml
Aliphatic C12-C16	6.646	10.046	36195213	353.736	200	ug/ml
Aliphatic C16-C21	10.047	13.415	34515943	349.293	300	ug/ml
Aliphatic C21-C28	13.416	17.079	44160526	468.868	400	ug/ml
Aliphatic C28-C40	17.080	22.085	44146600	491.157	600	ug/ml
Aliphatic EPH	3.343	22.085	179952417	1860		ug/ml
ortho-Terphenyl (SURR)	11.714	11.714	2930800	23.02		ug/ml
1-chlorooctadecane (SURR)	13.147	13.147	2271721	24.45		ug/ml
Aliphatic C9-C28	3.343	17.079	135805817	1370	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068755.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 20:19
 Operator : YP/AJ
 Sample : Q1928-01MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 MH-QMSD

Integration File: sample.E
 Quant Time: May 05 11:49:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
 Quant Title : GC Extractables
 QLast Update : Tue Apr 08 17:31:27 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)	11.714	2930800	23.016 ug/ml
Spiked Amount 50.000		Recovery =	46.03%
12) S 1-chlorooctadecane (S...	13.147	2271721	24.455 ug/ml
Spiked Amount 50.000		Recovery =	48.91%
Target Compounds			
1) T n-Nonane (C9)	3.447	3589621	34.082 ug/ml
2) T n-Decane (C10)	4.522	3962068	37.605 ug/ml
3) T A~Naphthalene (C11.7)	6.118	4661571	40.027 ug/ml
4) T n-Dodecane (C12)	6.546	4042734	38.443 ug/ml
5) T A~2-methylnaphthalene...	7.176	4282473	37.078 ug/ml
6) T n-Tetradecane (C14)	8.345	4121660	40.092 ug/ml
7) T n-Hexadecane (C16)	9.947	4298951	42.212 ug/ml
8) T n-Octadecane (C18)	11.391	4374877	43.474 ug/ml
10) T n-Eicosane (C20)	12.704	4477221	45.519 ug/ml
11) T n-Heneicosane (C21)	13.315	4274596	43.861 ug/ml
13) T n-Docosane (C22)	13.903	4255877	44.059 ug/ml
14) T n-Tetracosane (C24)	15.000	9192026	96.571 ug/ml
15) T n-Hexacosane (C26)	16.031	4221848	45.200 ug/ml
16) T n-Octacosane (C28)	16.980	4314401	47.122 ug/ml
17) T n-Tricontane (C30)	17.871	4346666	47.281 ug/ml
18) T n-Dotriacontane (C32)	18.704	4340625	47.320 ug/ml
19) T n-Tetratriacontane (C34)	19.488	4407975	49.340 ug/ml
20) T n-Hexatriacontane (C36)	20.229	4255451	47.505 ug/ml
21) T n-Octatriacontane (C38)	21.006	4234337	47.893 ug/ml
22) T n-Tetracontane (C40)	21.983	4200791	47.571 ug/ml

(f)=RT Delta > 1/2 Window

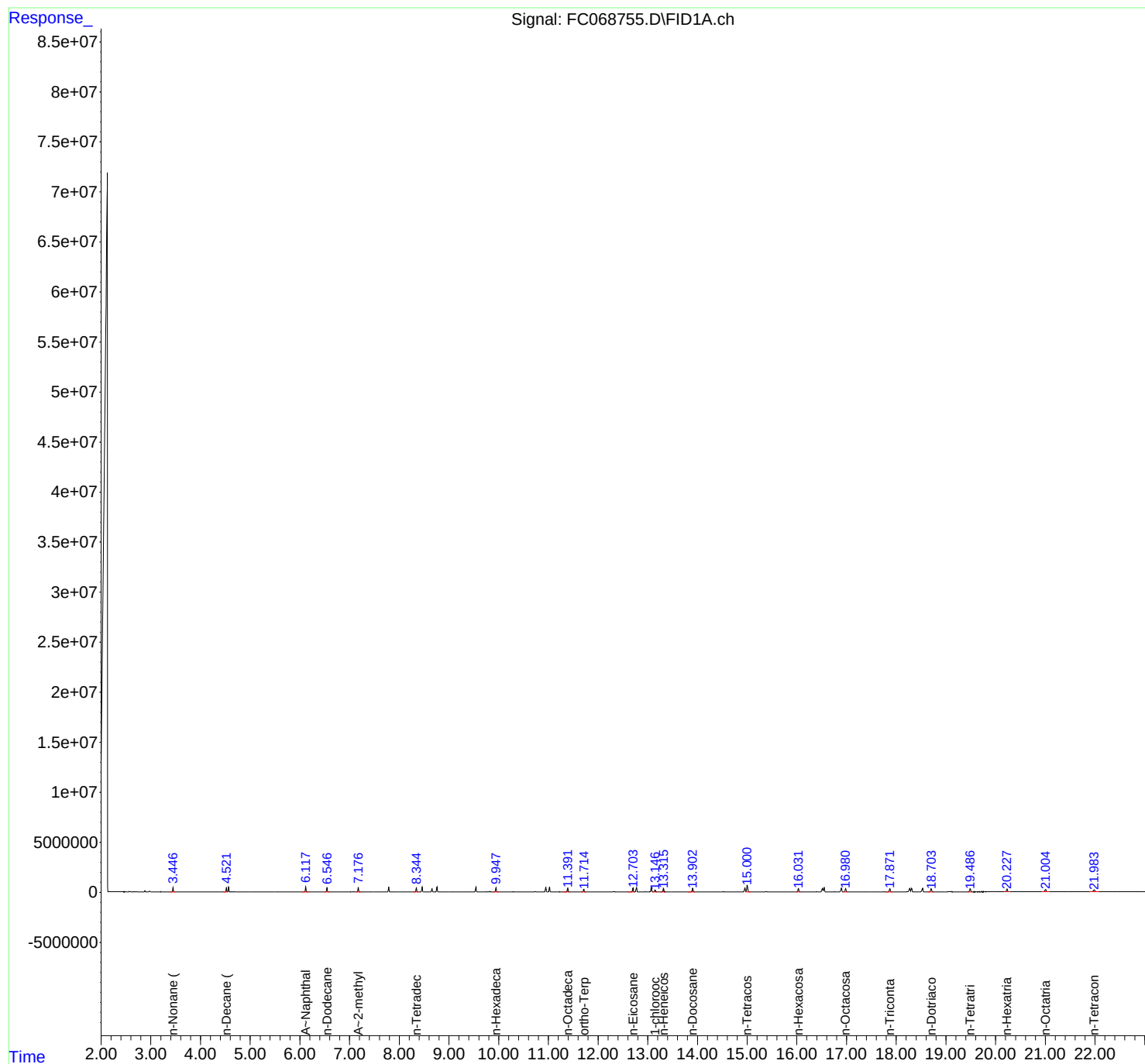
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
Data File : FC068755.D
Signal(s) : FID1A.ch
Acq On : 02 May 2025 20:19
Operator : YP/AJ
Sample : Q1928-01MSD
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
MH-QMSD

Integration File: sample.E
Quant Time: May 05 11:49:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.M
Quant Title : GC Extractables
QLast Update : Tue Apr 08 17:31:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC050225AL\
 Data File : FC068755.D
 Signal(s) : FID1A.ch
 Acq On : 02 May 2025 20:19
 Sample : Q1928-01MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 040925.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	3.271	3.204	3.308	BV	-47	-13329	-0.14%	-0.007%
2	3.329	3.308	3.391	PV	255	6763	0.07%	0.004%
3	3.400	3.391	3.414	PV	81	719	0.01%	0.000%
4	3.447	3.414	3.558	VV	435973	3591393	38.78%	1.940%
5	3.596	3.558	3.618	VV	553	7572	0.08%	0.004%
6	3.649	3.618	3.672	PV	251	3874	0.04%	0.002%
7	3.719	3.672	3.726	VV	263	5144	0.06%	0.003%
8	3.743	3.726	3.796	VV	1105	17926	0.19%	0.010%
9	3.832	3.796	3.852	VV	721	8078	0.09%	0.004%
10	3.862	3.852	3.914	VV	97	1929	0.02%	0.001%
11	3.931	3.914	3.994	VV	494	8573	0.09%	0.005%
12	4.014	3.994	4.071	PV	929	10234	0.11%	0.006%
13	4.092	4.071	4.111	PV	1122	9736	0.11%	0.005%
14	4.123	4.111	4.172	VV	185	4405	0.05%	0.002%
15	4.185	4.172	4.204	VV	120	1166	0.01%	0.001%
16	4.214	4.204	4.249	VV	148	2057	0.02%	0.001%
17	4.287	4.249	4.311	VV	489	7384	0.08%	0.004%
18	4.322	4.311	4.381	VV	201	5620	0.06%	0.003%
19	4.391	4.381	4.428	VV	116	2523	0.03%	0.001%
20	4.439	4.428	4.494	VV	190	5047	0.05%	0.003%
21	4.522	4.494	4.544	VV	445101	3965256	42.82%	2.141%
22	4.566	4.544	4.610	VV	489410	4272039	46.13%	2.307%
23	4.628	4.610	4.654	VV	4431	42165	0.46%	0.023%
24	4.675	4.654	4.708	VV	7751	70626	0.76%	0.038%
25	4.713	4.708	4.764	VV	156	4069	0.04%	0.002%
26	4.777	4.764	4.793	VV	240	2744	0.03%	0.001%
27	4.807	4.793	4.828	VV	198	2466	0.03%	0.001%
28	4.831	4.828	4.839	VV	211	806	0.01%	0.000%
29	4.858	4.839	4.880	VV	172	3082	0.03%	0.002%
30	4.891	4.880	4.920	VV	150	2380	0.03%	0.001%
31	4.931	4.920	4.968	VV	172	2605	0.03%	0.001%
32	4.978	4.968	4.988	VV	65	752	0.01%	0.000%
33	5.006	4.988	5.087	VV	160	5295	0.06%	0.003%
34	5.101	5.087	5.148	VV	140	3441	0.04%	0.002%
35	5.164	5.148	5.192	VV	177	2691	0.03%	0.001%
36	5.203	5.192	5.207	PV	92	804	0.01%	0.000%

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37	5.222	5.207	5.234	VV	149	1933	0.02%	0.001%
38	5.253	5.234	5.287	VV	181	3412	0.04%	0.002%
39	5.298	5.287	5.307	VV	86	700	0.01%	0.000%
40	5.327	5.307	5.342	VV	120	1531	0.02%	0.001%
41	5.380	5.342	5.515	PV	674	12353	0.13%	0.007%
42	5.525	5.515	5.532	VV	78	536	0.01%	0.000%
43	5.560	5.532	5.573	VV	1186	11955	0.13%	0.006%
44	5.587	5.573	5.654	VV	1940	21829	0.24%	0.012%
45	5.671	5.654	5.709	VV	127	2269	0.02%	0.001%
46	5.719	5.709	5.737	VV	88	940	0.01%	0.001%
47	5.748	5.737	5.770	VV	113	1541	0.02%	0.001%
48	5.791	5.770	5.821	VV	118	2030	0.02%	0.001%
49	5.844	5.821	5.857	VV	118	1386	0.01%	0.001%
50	5.867	5.857	5.888	VV	151	1233	0.01%	0.001%
51	5.921	5.888	5.949	VV	134	2701	0.03%	0.001%
52	5.984	5.949	6.018	PV	139	3128	0.03%	0.002%
53	6.076	6.018	6.088	VV	348	6315	0.07%	0.003%
54	6.118	6.088	6.152	VV	515298	4662519	50.35%	2.518%
55	6.162	6.152	6.187	VV	733	10839	0.12%	0.006%
56	6.202	6.187	6.243	VV	421	9900	0.11%	0.005%
57	6.261	6.243	6.289	VV	444	7975	0.09%	0.004%
58	6.313	6.289	6.331	VV	201	4252	0.05%	0.002%
59	6.389	6.331	6.424	VV	727	17361	0.19%	0.009%
60	6.431	6.424	6.444	VV	249	2546	0.03%	0.001%
61	6.452	6.444	6.513	VV	267	6988	0.08%	0.004%
62	6.546	6.513	6.601	VV	410605	4048077	43.71%	2.186%
63	6.615	6.601	6.642	VV	1189	13285	0.14%	0.007%
64	6.651	6.642	6.664	VV	135	1490	0.02%	0.001%
65	6.694	6.664	6.715	VV	575	6448	0.07%	0.003%
66	6.741	6.715	6.774	VV	188	3553	0.04%	0.002%
67	6.788	6.774	6.814	VV	150	2460	0.03%	0.001%
68	6.837	6.814	6.858	VV	215	3163	0.03%	0.002%
69	6.869	6.858	6.918	VV	164	3521	0.04%	0.002%
70	6.940	6.918	6.952	VV	348	4370	0.05%	0.002%
71	6.964	6.952	6.986	VV	315	4498	0.05%	0.002%
72	7.016	6.986	7.056	VV	4838	47539	0.51%	0.026%
73	7.082	7.056	7.128	VV	11771	115010	1.24%	0.062%
74	7.176	7.128	7.239	VV	443699	4292555	46.35%	2.318%
75	7.248	7.239	7.291	VV	279	5920	0.06%	0.003%
76	7.313	7.291	7.343	VV	1449	19198	0.21%	0.010%
77	7.365	7.343	7.381	VV	2238	26996	0.29%	0.015%
78	7.391	7.381	7.423	VV	1135	14159	0.15%	0.008%
79	7.442	7.423	7.454	VV	974	10233	0.11%	0.006%
80	7.468	7.454	7.491	VV	1152	13245	0.14%	0.007%
81	7.515	7.491	7.524	VV	388	4408	0.05%	0.002%
82	7.538	7.524	7.549	VV	437	4594	0.05%	0.002%
83	7.565	7.549	7.595	VV	396	5386	0.06%	0.003%
84	7.605	7.595	7.613	VV	175	1165	0.01%	0.001%
85	7.649	7.613	7.678	VV	642	9639	0.10%	0.005%
86	7.695	7.678	7.736	VV	260	5373	0.06%	0.003%
87	7.789	7.736	7.837	VV	492539	4663386	50.35%	2.518%
88	7.883	7.837	7.914	VV	518	14249	0.15%	0.008%
89	7.926	7.914	7.979	VV	533	9359	0.10%	0.005%

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90	7.988	7.979	8.017	VV	146	2288	0.02%	0.001%
91	8.038	8.017	8.073	VV	554	7901	0.09%	0.004%
92	8.096	8.073	8.133	VV	375	6285	0.07%	0.003%
93	8.166	8.133	8.187	VV	282	5236	0.06%	0.003%
94	8.206	8.187	8.228	VV	299	5336	0.06%	0.003%
95	8.244	8.228	8.269	VV	388	7945	0.09%	0.004%
96	8.279	8.269	8.291	VV	329	3979	0.04%	0.002%
97	8.345	8.291	8.382	VV	402890	4131234	44.61%	2.231%
98	8.461	8.382	8.501	VV	484068	4797324	51.80%	2.591%
99	8.512	8.501	8.554	VV	266	6375	0.07%	0.003%
100	8.570	8.554	8.594	VV	259	4089	0.04%	0.002%
101	8.659	8.594	8.723	VV	313266	3135753	33.86%	1.693%
102	8.759	8.723	8.795	VV	488116	4856978	52.45%	2.623%
103	8.812	8.795	8.846	VV	480	7631	0.08%	0.004%
104	8.878	8.846	8.905	VV	368	6932	0.07%	0.004%
105	8.916	8.905	8.938	VV	93	1374	0.01%	0.001%
106	8.971	8.938	9.010	VV	183	5676	0.06%	0.003%
107	9.027	9.010	9.043	VV	827	8978	0.10%	0.005%
108	9.061	9.043	9.103	VV	543	11308	0.12%	0.006%
109	9.116	9.103	9.129	VV	170	2016	0.02%	0.001%
110	9.164	9.129	9.190	VV	691	10022	0.11%	0.005%
111	9.206	9.190	9.218	VV	194	2626	0.03%	0.001%
112	9.227	9.218	9.240	VV	131	1441	0.02%	0.001%
113	9.250	9.240	9.284	VV	104	1684	0.02%	0.001%
114	9.317	9.284	9.335	PV	150	2170	0.02%	0.001%
115	9.349	9.335	9.359	VV	176	1670	0.02%	0.001%
116	9.370	9.359	9.382	VV	106	1397	0.02%	0.001%
117	9.422	9.382	9.446	VV	174	4451	0.05%	0.002%
118	9.465	9.446	9.494	VV	264	3408	0.04%	0.002%
119	9.544	9.494	9.574	VV	490818	5027612	54.29%	2.715%
120	9.585	9.574	9.610	VV	765	10418	0.11%	0.006%
121	9.621	9.610	9.628	VV	278	2814	0.03%	0.002%
122	9.634	9.628	9.654	VV	253	3110	0.03%	0.002%
123	9.684	9.668	9.697	VV	524	5902	0.06%	0.003%
124	9.723	9.697	9.736	VV	1946	26371	0.28%	0.014%
125	9.755	9.736	9.790	VV	7941	83529	0.90%	0.045%
126	9.816	9.790	9.867	VV	36726	375337	4.05%	0.203%
127	9.881	9.867	9.908	VV	613	8413	0.09%	0.005%
128	9.947	9.908	10.002	VV	398293	4309329	46.53%	2.327%
129	10.041	10.002	10.071	VV	300	6954	0.08%	0.004%
130	10.079	10.071	10.103	VV	128	1466	0.02%	0.001%
131	10.120	10.103	10.144	VV	152	2408	0.03%	0.001%
132	10.170	10.144	10.183	VV	92	1747	0.02%	0.001%
133	10.193	10.183	10.205	VV	108	1015	0.01%	0.001%
134	10.223	10.205	10.260	PV	201	3289	0.04%	0.002%
135	10.291	10.260	10.315	VV	4451	47049	0.51%	0.025%
136	10.335	10.315	10.374	VV	385	8168	0.09%	0.004%
137	10.385	10.374	10.444	VV	305	7133	0.08%	0.004%
138	10.463	10.444	10.478	VV	275	3470	0.04%	0.002%
139	10.493	10.478	10.520	VV	214	2484	0.03%	0.001%
140	10.587	10.520	10.624	VV	254	9939	0.11%	0.005%
141	10.641	10.624	10.660	VV	372	5477	0.06%	0.003%

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142	10.680	10.660	10.702	VV	834	10106	0.11%	0.005%
143	10.736	10.702	10.811	VV	10293	152898	1.65%	0.083%
144	10.819	10.811	10.831	VV	176	1548	0.02%	0.001%
145	10.835	10.831	10.857	VV	116	989	0.01%	0.001%
146	10.875	10.857	10.888	PV	146	1693	0.02%	0.001%
147	10.950	10.888	10.986	VV	473160	5087885	54.94%	2.748%
148	11.025	10.986	11.077	VV	476366	5048816	54.52%	2.727%
149	11.097	11.077	11.128	VV	852	13060	0.14%	0.007%
150	11.137	11.128	11.151	VV	202	2244	0.02%	0.001%
151	11.192	11.151	11.208	VV	978	13737	0.15%	0.007%
152	11.228	11.208	11.269	VV	3714	39474	0.43%	0.021%
153	11.282	11.269	11.293	VV	126	1544	0.02%	0.001%
154	11.319	11.293	11.351	VV	382	6573	0.07%	0.004%
155	11.391	11.351	11.441	VV	386852	4375633	47.25%	2.363%
156	11.474	11.441	11.516	VV	442	9850	0.11%	0.005%
157	11.550	11.516	11.569	VV	302	4553	0.05%	0.002%
158	11.583	11.569	11.631	VV	286	4131	0.04%	0.002%
159	11.660	11.631	11.681	PV	185	3503	0.04%	0.002%
160	11.714	11.681	11.768	VV	268288	2934150	31.68%	1.585%
161	11.806	11.768	11.824	VV	479	8903	0.10%	0.005%
162	11.843	11.824	11.857	VV	949	10762	0.12%	0.006%
163	11.875	11.857	11.914	VV	1258	20537	0.22%	0.011%
164	11.925	11.914	11.948	VV	465	5866	0.06%	0.003%
165	11.992	11.948	12.014	VV	280	5051	0.05%	0.003%
166	12.052	12.014	12.090	VV	316	8416	0.09%	0.005%
167	12.105	12.090	12.132	VV	238	3929	0.04%	0.002%
168	12.157	12.132	12.204	VV	313	4887	0.05%	0.003%
169	12.216	12.204	12.234	VV	147	1653	0.02%	0.001%
170	12.306	12.234	12.380	VV	22419	292516	3.16%	0.158%
171	12.392	12.380	12.474	VV	1482	54347	0.59%	0.029%
172	12.489	12.474	12.501	VV	692	10476	0.11%	0.006%
173	12.542	12.501	12.604	VV	2428	60233	0.65%	0.033%
174	12.639	12.604	12.668	VV	677	17261	0.19%	0.009%
175	12.704	12.668	12.735	VV	387493	4484628	48.42%	2.422%
176	12.772	12.735	12.844	VV	436475	5182173	55.96%	2.799%
177	12.856	12.844	12.878	VV	232	4096	0.04%	0.002%
178	12.882	12.878	12.891	VV	222	1396	0.02%	0.001%
179	12.908	12.891	12.924	VV	257	4187	0.05%	0.002%
180	12.954	12.924	12.992	VV	5602	68894	0.74%	0.037%
181	13.001	12.992	13.022	VV	327	5475	0.06%	0.003%
182	13.072	13.022	13.101	VV	456659	5072770	54.78%	2.740%
183	13.147	13.101	13.181	VV	194414	2283985	24.66%	1.233%
184	13.190	13.181	13.221	VV	383	7270	0.08%	0.004%
185	13.262	13.221	13.276	VV	474	11577	0.13%	0.006%
186	13.315	13.276	13.394	VV	363275	4293864	46.36%	2.319%
187	13.402	13.394	13.414	VV	280	2894	0.03%	0.002%
188	13.437	13.414	13.462	VV	375	7770	0.08%	0.004%
189	13.505	13.462	13.528	VV	847	20475	0.22%	0.011%
190	13.552	13.528	13.567	VV	717	14833	0.16%	0.008%
191	13.604	13.567	13.645	VV	785	32256	0.35%	0.017%
192	13.655	13.645	13.669	VV	673	9273	0.10%	0.005%
193	13.690	13.669	13.716	VV	878	19919	0.22%	0.011%
194	13.740	13.716	13.783	VV	1079	28904	0.31%	0.016%

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195	13.795	13.783	13.825	VV	552	12325	0.13%	0.007%
196	13.850	13.825	13.865	VV	1021	17261	0.19%	0.009%
197	13.902	13.865	14.003	VV	358627	4290655	46.33%	2.317%
198	14.029	14.003	14.053	VV	1522	23960	0.26%	0.013%
199	14.077	14.053	14.096	VV	895	14417	0.16%	0.008%
200	14.124	14.096	14.177	VV	558	22235	0.24%	0.012%
201	14.188	14.177	14.204	VV	493	7407	0.08%	0.004%
202	14.215	14.204	14.239	VV	515	9407	0.10%	0.005%
203	14.256	14.239	14.267	VV	592	8696	0.09%	0.005%
204	14.291	14.267	14.318	VV	1125	24200	0.26%	0.013%
205	14.337	14.318	14.365	VV	956	20124	0.22%	0.011%
206	14.399	14.365	14.429	VV	680	22141	0.24%	0.012%
207	14.471	14.429	14.494	VV	1754	36378	0.39%	0.020%
208	14.520	14.494	14.554	VV	8358	118131	1.28%	0.064%
209	14.563	14.554	14.591	VV	906	17530	0.19%	0.009%
210	14.595	14.591	14.610	VV	801	8189	0.09%	0.004%
211	14.630	14.610	14.658	VV	701	18104	0.20%	0.010%
212	14.684	14.658	14.725	VV	995	29543	0.32%	0.016%
213	14.753	14.725	14.788	VV	738	24502	0.26%	0.013%
214	14.804	14.788	14.813	VV	610	8189	0.09%	0.004%
215	14.853	14.813	14.881	VV	1011	30904	0.33%	0.017%
216	14.954	14.881	14.973	VV	389351	5090031	54.96%	2.749%
217	15.000	14.973	15.121	VV	666654	9261079	100.00%	5.001%
218	15.138	15.121	15.164	VV	774	19534	0.21%	0.011%
219	15.184	15.164	15.286	VV	1887	69557	0.75%	0.038%
220	15.296	15.286	15.324	VV	779	15342	0.17%	0.008%
221	15.380	15.324	15.474	VV	15976	279416	3.02%	0.151%
222	15.481	15.474	15.499	VV	789	10878	0.12%	0.006%
223	15.524	15.499	15.561	VV	1384	36207	0.39%	0.020%
224	15.605	15.561	15.640	VV	2055	47503	0.51%	0.026%
225	15.658	15.640	15.703	VV	581	17903	0.19%	0.010%
226	15.710	15.703	15.737	VV	502	9155	0.10%	0.005%
227	15.767	15.737	15.834	VV	541	27676	0.30%	0.015%
228	15.860	15.834	15.880	VV	1382	22188	0.24%	0.012%
229	15.904	15.880	15.971	VV	789	28858	0.31%	0.016%
230	16.030	15.971	16.073	VV	336741	4249345	45.88%	2.295%
231	16.090	16.073	16.121	VV	481	10479	0.11%	0.006%
232	16.134	16.121	16.180	VV	314	8717	0.09%	0.005%
233	16.198	16.180	16.214	VV	567	7790	0.08%	0.004%
234	16.234	16.214	16.294	VV	1035	19145	0.21%	0.010%
235	16.331	16.294	16.348	VV	311	6654	0.07%	0.004%
236	16.396	16.348	16.448	VV	3905	70379	0.76%	0.038%
237	16.514	16.448	16.529	VV	364874	5249750	56.69%	2.835%
238	16.549	16.529	16.578	VV	434546	5190057	56.04%	2.803%
239	16.592	16.578	16.630	VV	1499	27236	0.29%	0.015%
240	16.643	16.630	16.674	VV	408	9953	0.11%	0.005%
241	16.691	16.674	16.724	VV	387	9743	0.11%	0.005%
242	16.757	16.724	16.801	VV	2782	44624	0.48%	0.024%
243	16.838	16.801	16.844	VV	344	7229	0.08%	0.004%
244	16.896	16.844	16.932	VV	394518	5061230	54.65%	2.733%
245	16.980	16.932	17.018	VV	331634	4335399	46.81%	2.341%
246	17.029	17.018	17.044	VV	585	7764	0.08%	0.004%

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247	17.054	17.044	17.124	VV	607	11977	0.13%	0.006%
248	17.179	17.124	17.216	PV	188	4467	0.05%	0.002%
249	17.226	17.216	17.291	VV	137	3558	0.04%	0.002%
250	17.342	17.291	17.388	VV	1248	25363	0.27%	0.014%
251	17.427	17.388	17.484	VV	1868	32308	0.35%	0.017%
252	17.514	17.484	17.568	PV	417	8798	0.09%	0.005%
253	17.587	17.568	17.631	VV	173	3742	0.04%	0.002%
254	17.649	17.631	17.686	VV	150	2556	0.03%	0.001%
255	17.759	17.686	17.789	PV	3530	54552	0.59%	0.029%
256	17.871	17.789	17.928	VV	315524	4351310	46.98%	2.350%
257	17.957	17.928	17.989	VV	1024	14863	0.16%	0.008%
258	18.054	17.989	18.068	PV	121	3317	0.04%	0.002%
259	18.111	18.068	18.173	VV	444	7344	0.08%	0.004%
260	18.271	18.173	18.286	PV	363290	5562794	60.07%	3.004%
261	18.309	18.286	18.364	VV	349355	4990915	53.89%	2.695%
262	18.381	18.364	18.454	VV	793	24993	0.27%	0.013%
263	18.464	18.454	18.473	VV	262	2520	0.03%	0.001%
264	18.530	18.473	18.620	VV	354067	5085305	54.91%	2.746%
265	18.642	18.620	18.658	VV	518	8684	0.09%	0.005%
266	18.704	18.658	18.754	VV	295650	4350702	46.98%	2.350%
267	18.788	18.754	18.848	VV	1146	32123	0.35%	0.017%
268	18.859	18.848	18.928	VV	554	11678	0.13%	0.006%
269	18.980	18.928	19.021	VV	425	11598	0.13%	0.006%
270	19.052	19.021	19.081	VV	4712	89275	0.96%	0.048%
271	19.099	19.081	19.157	VV	2380	58223	0.63%	0.031%
272	19.185	19.157	19.219	VV	611	18200	0.20%	0.010%
273	19.266	19.219	19.278	VV	536	16187	0.17%	0.009%
274	19.288	19.278	19.318	VV	473	9811	0.11%	0.005%
275	19.351	19.318	19.372	VV	637	14290	0.15%	0.008%
276	19.399	19.372	19.428	VV	522	13597	0.15%	0.007%
277	19.488	19.428	19.533	VV	296737	4436297	47.90%	2.396%
278	19.563	19.533	19.573	VV	939	18587	0.20%	0.010%
279	19.592	19.573	19.623	VV	1180	26241	0.28%	0.014%
280	19.663	19.623	19.694	VV	1144	36561	0.39%	0.020%
281	19.775	19.694	19.801	VV	1168	53335	0.58%	0.029%
282	19.859	19.801	19.911	VV	2518	105076	1.13%	0.057%
283	19.913	19.911	19.930	VV	1150	11658	0.13%	0.006%
284	19.961	19.930	19.980	VV	1294	34213	0.37%	0.018%
285	20.025	19.980	20.051	VV	1532	54823	0.59%	0.030%
286	20.089	20.051	20.111	VV	2198	63966	0.69%	0.035%
287	20.133	20.111	20.165	VV	2792	69821	0.75%	0.038%
288	20.229	20.165	20.294	VV	291011	4401393	47.53%	2.377%
289	20.309	20.294	20.314	VV	1896	21108	0.23%	0.011%
290	20.367	20.314	20.434	VV	4428	180454	1.95%	0.097%
291	20.471	20.434	20.493	VV	2324	73762	0.80%	0.040%
292	20.576	20.493	20.738	VV	5708	485253	5.24%	0.262%
293	20.784	20.738	20.948	VV	2044	228402	2.47%	0.123%
294	21.006	20.948	21.105	VV	234191	4386405	47.36%	2.369%
295	21.113	21.105	21.144	VV	1590	34662	0.37%	0.019%
296	21.153	21.144	21.294	VV	1464	113770	1.23%	0.061%
297	21.323	21.294	21.421	VV	1159	79688	0.86%	0.043%
298	21.456	21.421	21.546	VV	1438	76444	0.83%	0.041%
299	21.564	21.546	21.572	VV	782	11725	0.13%	0.006%

					rters				
300	21.584	21.572	21.611	VV	782	17314	0.19%	0.009%	
301	21.614	21.611	21.663	VV	738	20243	0.22%	0.011%	
302	21.682	21.663	21.711	VV	692	17838	0.19%	0.010%	
303	21.718	21.711	21.767	VV	645	17395	0.19%	0.009%	
304	21.804	21.767	21.891	VV	609	32913	0.36%	0.018%	
305	21.902	21.891	21.911	VV	348	3521	0.04%	0.002%	
306	21.983	21.911	22.081	VV	170572	4220659	45.57%	2.279%	
307	22.090	22.081	22.099	VV	181	1317	0.01%	0.001%	
308	22.106	22.099	22.113	VV	143	717	0.01%	0.000%	
309	22.124	22.113	22.151	VV	111	1328	0.01%	0.001%	
					Sum of corrected areas:		185167346		

Aliphatic EPH 040925.M Mon May 05 12:00:54 2025



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

Manual Integration Report

Sequence:

FC040925AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



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

Manual Integration Report

Sequence:	FC050225AL	Instrument	FID_c
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC068748.D	n-Octatriacontane (C38)	yogesh	5/5/2025 11:56:48 AM	mohammad	5/6/2025 4:46:17	Peak Integrated by Software

Manual Integration Report

Sequence:

FC050525AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1937-02	FC068770.D	1-chlorooctadecane (SURR)	yogesh	5/6/2025 9:19:48 AM	mohammad	5/7/2025 6:08:25	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068778.D	n-Octadecane (C18)	yogesh	5/6/2025 9:19:50 AM	mohammad	5/7/2025 6:08:25	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FE041725AL

Instrument

FID_e

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

FE050225AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE053618.D	n-Tetracontane (C40)	yogesh	5/5/2025 8:40:13 AM	mohammad	5/6/2025 4:47:23	Peak Integrated by Software
Q1932-03	FE053620.D	ortho-Terphenyl (SURR)	yogesh	5/5/2025 8:40:15 AM	mohammad	5/6/2025 4:47:49	Peak Integrated by Software
Q1932-05	FE053621.D	ortho-Terphenyl (SURR)	yogesh	5/5/2025 8:40:16 AM	mohammad	5/6/2025 4:47:30	Peak Integrated by Software
Q1933-02	FE053624.D	ortho-Terphenyl (SURR)	yogesh	5/5/2025 8:40:18 AM	mohammad	5/6/2025 4:47:32	Peak Integrated by Software
Q1935-06	FE053628.D	ortho-Terphenyl (SURR)	yogesh	5/5/2025 8:40:19 AM	mohammad	5/6/2025 4:47:35	Peak Integrated by Software

Manual Integration Report

Sequence:

FE050525AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE053636.D	n-Octatriacontane (C38)	yogesh	5/6/2025 8:03:06 AM	mohammad	5/7/2025 6:08:32	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053636.D	n-Tetracontane (C40)	yogesh	5/6/2025 8:03:06 AM	mohammad	5/7/2025 6:08:32	Peak Integrated by Software
Q1932-03DL	FE053638.D	ortho-Terphenyl (SURR)	yogesh	5/6/2025 8:03:08 AM	mohammad	5/7/2025 6:08:32	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053658.D	n-Tetracontane (C40)	yogesh	5/6/2025 8:03:10 AM	mohammad	5/7/2025 6:08:32	Peak Integrated by Software

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC040925AL

Review By	yogesh	Review On	4/8/2025 3:04:36 PM
Supervise By	mohammad	Supervise On	4/10/2025 5:31:03 AM
SubDirectory	FC040925AL	HP Acquire Method	HP Processing Method FC040925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068513.D	08 Apr 2025 13:05	YP/AJ	Ok
2	I.BLK	FC068514.D	08 Apr 2025 13:42	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068515.D	08 Apr 2025 14:19	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068516.D	08 Apr 2025 14:56	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068517.D	08 Apr 2025 15:34	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068518.D	08 Apr 2025 16:12	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068519.D	08 Apr 2025 16:48	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068520.D	08 Apr 2025 17:26	YP/AJ	Ok
9	I.BLK	FC068521.D	08 Apr 2025 18:41	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068522.D	08 Apr 2025 19:18	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC050225AL

Review By	yogesh	Review On	5/2/2025 10:00:15 AM
Supervise By	mohammad	Supervise On	5/6/2025 4:46:28 AM
SubDirectory	FC050225AL	HP Acquire Method	HP Processing Method FC040925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24176 PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068740.D	02 May 2025 09:42	YP/AJ	Ok
2	I.BLK	FC068741.D	02 May 2025 10:17	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068742.D	02 May 2025 10:53	YP/AJ	Ok
4	PB167840BL	FC068743.D	02 May 2025 11:36	YP/AJ	Ok
5	PB167840BS	FC068744.D	02 May 2025 13:26	YP/AJ	Ok
6	PB167840BSD	FC068745.D	02 May 2025 14:03	YP/AJ	Ok
7	Q1901-06	FC068746.D	02 May 2025 14:40	YP/AJ	Ok
8	I.BLK	FC068747.D	02 May 2025 15:18	YP/AJ	Ok
9	20 PPM ALIPHATIC HC STD	FC068748.D	02 May 2025 15:56	YP/AJ	Ok,M
10	PB167833BL	FC068749.D	02 May 2025 16:33	YP/AJ	Ok
11	PB167833BS	FC068750.D	02 May 2025 17:11	YP/AJ	Ok
12	PB167833BSD	FC068751.D	02 May 2025 17:49	YP/AJ	Ok
13	Q1928-01	FC068752.D	02 May 2025 18:27	YP/AJ	Ok
14	Q1928-01D	FC068753.D	02 May 2025 19:05	YP/AJ	Ok
15	Q1928-01MS	FC068754.D	02 May 2025 19:42	YP/AJ	Ok
16	Q1928-01MSD	FC068755.D	02 May 2025 20:19	YP/AJ	Ok
17	Q1928-02	FC068756.D	02 May 2025 20:57	YP/AJ	ReRun
18	I.BLK	FC068757.D	02 May 2025 22:11	YP/AJ	Ok
19	20 PPM ALIPHATIC HC STD	FC068758.D	02 May 2025 22:47	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC050525AL

Review By	yogesh	Review On	5/5/2025 11:42:23 AM
Supervise By	mohammad	Supervise On	5/7/2025 6:08:25 AM
SubDirectory	FC050525AL	HP Acquire Method	HP Processing Method FC040925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24176 PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068759.D	05 May 2025 08:59	YP/AJ	Ok
2	I.BLK	FC068760.D	05 May 2025 09:35	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068761.D	05 May 2025 10:11	YP/AJ	Ok
4	Q1935-02	FC068762.D	05 May 2025 10:48	YP/AJ	Ok
5	Q1928-02	FC068763.D	05 May 2025 11:24	YP/AJ	Ok
6	Q1939-01	FC068764.D	05 May 2025 12:00	YP/AJ	Ok
7	I.BLK	FC068765.D	05 May 2025 12:36	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD	FC068766.D	05 May 2025 13:13	YP/AJ	Ok
9	PB167855BL	FC068767.D	05 May 2025 13:49	YP/AJ	Ok
10	PB167855BS	FC068768.D	05 May 2025 14:26	YP/AJ	Ok
11	PB167855BSD	FC068769.D	05 May 2025 15:02	YP/AJ	Ok
12	Q1937-02	FC068770.D	05 May 2025 15:38	YP/AJ	Ok,M
13	Q1937-02D	FC068771.D	05 May 2025 16:15	YP/AJ	Ok
14	Q1937-02MS	FC068772.D	05 May 2025 16:51	YP/AJ	Ok
15	Q1937-02MSD	FC068773.D	05 May 2025 17:27	YP/AJ	Ok
16	Q1937-04	FC068774.D	05 May 2025 18:04	YP/AJ	Ok
17	Q1937-06	FC068775.D	05 May 2025 18:40	YP/AJ	Ok
18	Q1937-08	FC068776.D	05 May 2025 19:17	YP/AJ	Ok
19	I.BLK	FC068777.D	05 May 2025 20:30	YP/AJ	Ok
20	20 PPM ALIPHATIC HC STD	FC068778.D	05 May 2025 21:06	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE041725AL

Review By	yogesh	Review On	4/16/2025 2:56:14 PM
Supervise By	mohammad	Supervise On	4/18/2025 1:20:00 AM
SubDirectory	FE041725AL	HP Acquire Method	HP Processing Method FE041725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE053385.D	16 Apr 2025 14:34	YP\AJ	Ok
2	I.BLK	FE053386.D	16 Apr 2025 15:04	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE053387.D	16 Apr 2025 15:35	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE053388.D	16 Apr 2025 16:35	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE053389.D	16 Apr 2025 17:05	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE053390.D	16 Apr 2025 17:36	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE053391.D	16 Apr 2025 18:06	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE053392.D	16 Apr 2025 18:36	YP\AJ	Ok
9	I.BLK	FE053393.D	16 Apr 2025 19:36	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE053394.D	16 Apr 2025 20:06	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE050225AL

Review By	yogesh	Review On	5/2/2025 10:03:08 AM
Supervise By	mohammad	Supervise On	5/6/2025 4:48:01 AM
SubDirectory	FE050225AL	HP Acquire Method	HP Processing Method FE041725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24176 PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE053616.D	02 May 2025 08:40	YP\AJ	Ok
2	I.BLK	FE053617.D	02 May 2025 09:10	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE053618.D	02 May 2025 10:11	YP\AJ	Ok,M
4	Q1932-01	FE053619.D	02 May 2025 13:52	YP\AJ	Ok
5	Q1932-03	FE053620.D	02 May 2025 14:22	YP\AJ	Dilution
6	Q1932-05	FE053621.D	02 May 2025 14:53	YP\AJ	Ok,M
7	Q1932-07	FE053622.D	02 May 2025 15:23	YP\AJ	Ok
8	Q1933-01	FE053623.D	02 May 2025 15:53	YP\AJ	Ok
9	Q1933-02	FE053624.D	02 May 2025 16:23	YP\AJ	Ok,M
10	Q1935-01	FE053625.D	02 May 2025 16:53	YP\AJ	Ok
11	Q1935-02	FE053626.D	02 May 2025 17:24	YP\AJ	ReRun
12	Q1935-05	FE053627.D	02 May 2025 17:54	YP\AJ	Ok
13	Q1935-06	FE053628.D	02 May 2025 18:24	YP\AJ	Ok,M
14	Q1939-01	FE053629.D	02 May 2025 18:54	YP\AJ	ReRun
15	Q1939-03	FE053630.D	02 May 2025 19:24	YP\AJ	Ok
16	Q1939-05	FE053631.D	02 May 2025 19:55	YP\AJ	ReRun
17	I.BLK	FE053632.D	02 May 2025 20:55	YP\AJ	Ok
18	20 PPM ALIPHATIC HC STD	FE053633.D	02 May 2025 21:25	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE050525AL

Review By	yogesh	Review On	5/5/2025 11:43:54 AM
Supervise By	mohammad	Supervise On	5/7/2025 6:08:32 AM
SubDirectory	FE050525AL	HP Acquire Method	HP Processing Method FE041725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24176 PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE053634.D	05 May 2025 09:10	YP\AJ	Ok
2	I.BLK	FE053635.D	05 May 2025 09:40	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE053636.D	05 May 2025 11:14	YP\AJ	Ok,M
4	Q1939-05	FE053637.D	05 May 2025 11:44	YP\AJ	Ok
5	Q1932-03DL	FE053638.D	05 May 2025 12:14	YP\AJ	Not Ok
6	I.BLK	FE053639.D	05 May 2025 13:14	YP\AJ	Ok
7	20 PPM ALIPHATIC HC STD	FE053640.D	05 May 2025 13:44	YP\AJ	Ok
8	Q1936-02	FE053641.D	05 May 2025 14:14	YP\AJ	Ok
9	Q1936-04	FE053642.D	05 May 2025 14:45	YP\AJ	Ok
10	Q1936-06	FE053643.D	05 May 2025 15:14	YP\AJ	Ok
11	Q1936-08	FE053644.D	05 May 2025 15:45	YP\AJ	Ok
12	Q1937-10	FE053645.D	05 May 2025 16:15	YP\AJ	Ok
13	Q1937-12	FE053646.D	05 May 2025 16:45	YP\AJ	Ok
14	Q1938-02	FE053647.D	05 May 2025 17:16	YP\AJ	Ok
15	Q1938-04	FE053648.D	05 May 2025 17:46	YP\AJ	Ok
16	Q1938-06	FE053649.D	05 May 2025 18:16	YP\AJ	Ok
17	Q1938-08	FE053650.D	05 May 2025 18:46	YP\AJ	Ok
18	Q1946-01	FE053651.D	05 May 2025 19:16	YP\AJ	Ok
19	Q1946-02	FE053652.D	05 May 2025 19:46	YP\AJ	Ok
20	Q1947-01	FE053653.D	05 May 2025 20:16	YP\AJ	Ok
21	Q1947-02	FE053654.D	05 May 2025 20:47	YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE050525AL

Review By	yogesh	Review On	5/5/2025 11:43:54 AM
Supervise By	mohammad	Supervise On	5/7/2025 6:08:32 AM
SubDirectory	FE050525AL	HP Acquire Method	HP Processing Method FE041725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

22	Q1947-05	FE053655.D	05 May 2025 21:17	YP\AJ	Ok
23	Q1947-06	FE053656.D	05 May 2025 21:47	YP\AJ	Ok
24	I.BLK	FE053657.D	05 May 2025 22:47	YP\AJ	Ok
25	20 PPM ALIPHATIC HC STD	FE053658.D	05 May 2025 23:18	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC040925AL

Review By	yogesh	Review On	4/8/2025 3:04:36 PM
Supervise By	mohammad	Supervise On	4/10/2025 5:31:03 AM
SubDirectory	FC040925AL	HP Acquire Method	HP Processing Method FC040925AL

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068513.D	08 Apr 2025 13:05		YP/AJ	Ok
2	I.BLK	I.BLK	FC068514.D	08 Apr 2025 13:42		YP/AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FC068515.D	08 Apr 2025 14:19		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068516.D	08 Apr 2025 14:56		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068517.D	08 Apr 2025 15:34		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068518.D	08 Apr 2025 16:12		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068519.D	08 Apr 2025 16:48		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068520.D	08 Apr 2025 17:26		YP/AJ	Ok
9	I.BLK	I.BLK	FC068521.D	08 Apr 2025 18:41		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068522.D	08 Apr 2025 19:18		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC050225AL

Review By	yogesh	Review On	5/2/2025 10:00:15 AM
Supervise By	mohammad	Supervise On	5/6/2025 4:46:28 AM
SubDirectory	FC050225AL	HP Acquire Method	HP Processing Method FC040925AL

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068740.D	02 May 2025 09:42		YP/AJ	Ok
2	I.BLK	I.BLK	FC068741.D	02 May 2025 10:17		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068742.D	02 May 2025 10:53		YP/AJ	Ok
4	PB167840BL	PB167840BL	FC068743.D	02 May 2025 11:36		YP/AJ	Ok
5	PB167840BS	PB167840BS	FC068744.D	02 May 2025 13:26	naphthalene break down - 0.194, 2-methylnepthalene break down - 0.352	YP/AJ	Ok
6	PB167840BSD	PB167840BSD	FC068745.D	02 May 2025 14:03	naphthalene break down - 0.194, 2-methylnepthalene break down - 0.331	YP/AJ	Ok
7	Q1901-06	FB04262025	FC068746.D	02 May 2025 14:40		YP/AJ	Ok
8	I.BLK	I.BLK	FC068747.D	02 May 2025 15:18		YP/AJ	Ok
9	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068748.D	02 May 2025 15:56		YP/AJ	Ok,M
10	PB167833BL	PB167833BL	FC068749.D	02 May 2025 16:33		YP/AJ	Ok
11	PB167833BS	PB167833BS	FC068750.D	02 May 2025 17:11		YP/AJ	Ok
12	PB167833BSD	PB167833BSD	FC068751.D	02 May 2025 17:49		YP/AJ	Ok
13	Q1928-01	MH-Q	FC068752.D	02 May 2025 18:27		YP/AJ	Ok
14	Q1928-01D	Q1928-01D	FC068753.D	02 May 2025 19:05		YP/AJ	Ok
15	Q1928-01MS	MH-QMS	FC068754.D	02 May 2025 19:42	FC068752.D	YP/AJ	Ok
16	Q1928-01MSD	MH-QMSD	FC068755.D	02 May 2025 20:19	FC068752.D!FC068754.D	YP/AJ	Ok

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC050225AL

Review By	yogesh	Review On	5/2/2025 10:00:15 AM
Supervise By	mohammad	Supervise On	5/6/2025 4:46:28 AM
SubDirectory	FC050225AL	HP Acquire Method	HP Processing Method FC040925AL

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

17	Q1928-02	MH-Q-EPH	FC068756.D	02 May 2025 20:57	Surrogate Fail	YP/AJ	ReRun
18	I.BLK	I.BLK	FC068757.D	02 May 2025 22:11		YP/AJ	Ok
19	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068758.D	02 May 2025 22:47		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC050525AL

Review By	yogesh	Review On	5/5/2025 11:42:23 AM
Supervise By	mohammad	Supervise On	5/7/2025 6:08:25 AM
SubDirectory	FC050525AL	HP Acquire Method	HP Processing Method FC040925AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC	PP24176		
Internal Standard/PEM	PP24174,PP24179		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068759.D	05 May 2025 08:59		YP/AJ	Ok
2	I.BLK	I.BLK	FC068760.D	05 May 2025 09:35		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068761.D	05 May 2025 10:11		YP/AJ	Ok
4	Q1935-02	MH-NN-EPH	FC068762.D	05 May 2025 10:48		YP/AJ	Ok
5	Q1928-02	MH-Q-EPH	FC068763.D	05 May 2025 11:24		YP/AJ	Ok
6	Q1939-01	GB1	FC068764.D	05 May 2025 12:00		YP/AJ	Ok
7	I.BLK	I.BLK	FC068765.D	05 May 2025 12:36		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068766.D	05 May 2025 13:13		YP/AJ	Ok
9	PB167855BL	PB167855BL	FC068767.D	05 May 2025 13:49		YP/AJ	Ok
10	PB167855BS	PB167855BS	FC068768.D	05 May 2025 14:26		YP/AJ	Ok
11	PB167855BSD	PB167855BSD	FC068769.D	05 May 2025 15:02		YP/AJ	Ok
12	Q1937-02	LARGE-PILE-A	FC068770.D	05 May 2025 15:38		YP/AJ	Ok,M
13	Q1937-02D	Q1937-02D	FC068771.D	05 May 2025 16:15		YP/AJ	Ok
14	Q1937-02MS	LARGE-PILE-AMS	FC068772.D	05 May 2025 16:51	FC068770.D	YP/AJ	Ok
15	Q1937-02MSD	LARGE-PILE-AMSD	FC068773.D	05 May 2025 17:27	FC068770.D!FC068772.D	YP/AJ	Ok
16	Q1937-04	LARGE-PILE-B	FC068774.D	05 May 2025 18:04		YP/AJ	Ok
17	Q1937-06	LARGE-PILE-C	FC068775.D	05 May 2025 18:40		YP/AJ	Ok
18	Q1937-08	LARGE-PILE-D	FC068776.D	05 May 2025 19:17		YP/AJ	Ok

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC050525AL

Review By	yogesh	Review On	5/5/2025 11:42:23 AM
Supervise By	mohammad	Supervise On	5/7/2025 6:08:25 AM
SubDirectory	FC050525AL	HP Acquire Method	HP Processing Method FC040925AL

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

19	I.BLK	I.BLK	FC068777.D	05 May 2025 20:30		YP/AJ	Ok
20	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068778.D	05 May 2025 21:06		YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE041725AL

Review By	yogesh	Review On	4/16/2025 2:56:14 PM
Supervise By	mohammad	Supervise On	4/18/2025 1:20:00 AM
SubDirectory	FE041725AL	HP Acquire Method	HP Processing Method FE041725AL

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE053385.D	16 Apr 2025 14:34		YP\AJ	Ok
2	I.BLK	I.BLK	FE053386.D	16 Apr 2025 15:04		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FE053387.D	16 Apr 2025 15:35		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE053388.D	16 Apr 2025 16:35		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053389.D	16 Apr 2025 17:05		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE053390.D	16 Apr 2025 17:36		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE053391.D	16 Apr 2025 18:06		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053392.D	16 Apr 2025 18:36		YP\AJ	Ok
9	I.BLK	I.BLK	FE053393.D	16 Apr 2025 19:36		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053394.D	16 Apr 2025 20:06		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE050225AL

Review By	yogesh	Review On	5/2/2025 10:03:08 AM
Supervise By	mohammad	Supervise On	5/6/2025 4:48:01 AM
SubDirectory	FE050225AL	HP Acquire Method	HP Processing Method FE041725AL

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE053616.D	02 May 2025 08:40		YP\AJ	Ok
2	I.BLK	I.BLK	FE053617.D	02 May 2025 09:10		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053618.D	02 May 2025 10:11		YP\AJ	Ok,M
4	Q1932-01	COMP-4	FE053619.D	02 May 2025 13:52		YP\AJ	Ok
5	Q1932-03	COMP-5	FE053620.D	02 May 2025 14:22	need 5x dilution	YP\AJ	Dilution
6	Q1932-05	COMP-6	FE053621.D	02 May 2025 14:53		YP\AJ	Ok,M
7	Q1932-07	COMP-7	FE053622.D	02 May 2025 15:23		YP\AJ	Ok
8	Q1933-01	OK-01-050125	FE053623.D	02 May 2025 15:53		YP\AJ	Ok
9	Q1933-02	OK-01-050125-E2	FE053624.D	02 May 2025 16:23		YP\AJ	Ok,M
10	Q1935-01	MH-NN	FE053625.D	02 May 2025 16:53		YP\AJ	Ok
11	Q1935-02	MH-NN-EPH	FE053626.D	02 May 2025 17:24	Surr Fail	YP\AJ	ReRun
12	Q1935-05	MH-MM	FE053627.D	02 May 2025 17:54		YP\AJ	Ok
13	Q1935-06	MH-MM-EPH	FE053628.D	02 May 2025 18:24		YP\AJ	Ok,M
14	Q1939-01	Q1939-01	FE053629.D	02 May 2025 18:54	Surr Fail	YP\AJ	ReRun
15	Q1939-03	GB2	FE053630.D	02 May 2025 19:24		YP\AJ	Ok
16	Q1939-05	Q1939-05	FE053631.D	02 May 2025 19:55	Surr Fail	YP\AJ	ReRun
17	I.BLK	I.BLK	FE053632.D	02 May 2025 20:55		YP\AJ	Ok
18	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053633.D	02 May 2025 21:25		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE050225AL

Review By	yogesh	Review On	5/2/2025 10:03:08 AM
Supervise By	mohammad	Supervise On	5/6/2025 4:48:01 AM
SubDirectory	FE050225AL	HP Acquire Method	HP Processing Method FE041725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE050525AL

Review By	yogesh	Review On	5/5/2025 11:43:54 AM
Supervise By	mohammad	Supervise On	5/7/2025 6:08:32 AM
SubDirectory	FE050525AL	HP Acquire Method	HP Processing Method FE041725AL

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE053634.D	05 May 2025 09:10		YPIAJ	Ok
2	I.BLK	I.BLK	FE053635.D	05 May 2025 09:40		YPIAJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053636.D	05 May 2025 11:14		YPIAJ	Ok,M
4	Q1939-05	GB3	FE053637.D	05 May 2025 11:44		YPIAJ	Ok
5	Q1932-03DL	COMP-5DL	FE053638.D	05 May 2025 12:14	Look like original	YPIAJ	Not Ok
6	I.BLK	I.BLK	FE053639.D	05 May 2025 13:14		YPIAJ	Ok
7	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053640.D	05 May 2025 13:44		YPIAJ	Ok
8	Q1936-02	SMALL-PILE-A	FE053641.D	05 May 2025 14:14		YPIAJ	Ok
9	Q1936-04	SMALL-PILE-B	FE053642.D	05 May 2025 14:45		YPIAJ	Ok
10	Q1936-06	SMALL-PILE-C	FE053643.D	05 May 2025 15:14		YPIAJ	Ok
11	Q1936-08	SMALL-PILE-D	FE053644.D	05 May 2025 15:45		YPIAJ	Ok
12	Q1937-10	LARGE-PILE-E	FE053645.D	05 May 2025 16:15		YPIAJ	Ok
13	Q1937-12	LARGE-PILE-F	FE053646.D	05 May 2025 16:45		YPIAJ	Ok
14	Q1938-02	LOWER-WALL-PILE-A	FE053647.D	05 May 2025 17:16		YPIAJ	Ok
15	Q1938-04	LOWER-WALL-PILE-B	FE053648.D	05 May 2025 17:46		YPIAJ	Ok
16	Q1938-06	LOWER-WALL-PILE-C	FE053649.D	05 May 2025 18:16		YPIAJ	Ok
17	Q1938-08	LOWER-WALL-PILE-D	FE053650.D	05 May 2025 18:46		YPIAJ	Ok
18	Q1946-01	BB-CONCRETE	FE053651.D	05 May 2025 19:16		YPIAJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE050525AL

Review By	yogesh	Review On	5/5/2025 11:43:54 AM
Supervise By	mohammad	Supervise On	5/7/2025 6:08:32 AM
SubDirectory	FE050525AL	HP Acquire Method	HP Processing Method FE041725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

19	Q1946-02	BB-CONCRETE	FE053652.D	05 May 2025 19:46		YP\AJ	Ok
20	Q1947-01	MH-P	FE053653.D	05 May 2025 20:16		YP\AJ	Ok
21	Q1947-02	MH-P-EPH	FE053654.D	05 May 2025 20:47		YP\AJ	Ok
22	Q1947-05	MH-O	FE053655.D	05 May 2025 21:17		YP\AJ	Ok
23	Q1947-06	MH-O-EPH	FE053656.D	05 May 2025 21:47		YP\AJ	Ok
24	I.BLK	I.BLK	FE053657.D	05 May 2025 22:47		YP\AJ	Ok
25	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053658.D	05 May 2025 23:18		YP\AJ	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 5/2/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 05/01/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 05/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135626

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
Q1928-01	MH-Q	1	1.15	10.00	11.15	9.86	87.1	
Q1928-02	MH-Q-EPH	2	1.18	10.41	11.59	10.18	86.5	
Q1928-03	MH-Q-VOC	3	1.13	10.00	11.13	9.56	84.3	
Q1929-02	WC-AA-02-C	4	1.15	10.65	11.8	10.38	86.7	
Q1929-06	WC-AA-03-C	5	1.18	10.06	11.24	9.00	77.7	
Q1929-10	WC-AA-04-C	6	1.17	10.24	11.41	9.52	81.5	
Q1932-01	COMP-4	7	1.18	10.22	11.4	10.71	93.2	
Q1932-03	COMP-5	8	1.18	10.24	11.42	10.68	92.8	
Q1932-05	COMP-6	9	1.17	10.20	11.37	10.69	93.3	
Q1932-07	COMP-7	10	1.14	10.31	11.45	10.89	94.6	
Q1933-01	OK-01-050125	11	1.18	10.05	11.23	10.41	91.8	
Q1933-02	OK-01-050125-E2	12	1.19	10.54	11.73	10.88	91.9	
Q1935-01	MH-NN	13	1.19	10.45	11.64	10.41	88.2	
Q1935-02	MH-NN-EPH	14	1.12	10.35	11.47	10.2	87.7	
Q1935-03	MH-NN-VOC	15	1.19	10.56	11.75	10.45	87.7	
Q1935-05	MH-MM	16	1.17	10.40	11.57	10.38	88.6	
Q1935-06	MH-MM-EPH	17	1.11	10.65	11.76	10.55	88.6	
Q1935-07	MH-MM-VOC	18	1.14	10.21	11.35	10.12	88.0	
Q1939-01	GB1	19	1.18	11.07	12.25	10.57	84.8	
Q1939-02	GB1B	20	1.16	10.55	11.71	9.84	82.3	
Q1939-03	GB2	21	1.19	10.57	11.76	9.43	78.0	
Q1939-04	GB2B	22	1.18	10.46	11.64	10.11	85.4	
Q1939-05	GB3	23	1.15	10.29	11.44	10.06	86.6	
Q1939-06	GB3B	24	1.13	10.07	11.2	10.04	88.5	

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

WORKLIST(Hardcopy Internal Chain)

135626

WorkList Name : %1-050125

WorkList ID : 189260

Department : Wet-Chemistry

Date : 05-01-2025 13:23:05

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1928-01	MH-Q	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1928-02	MH-Q-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1928-03	MH-Q-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1929-02	WC-AA-02-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/01/2025	Chemtech -SO
Q1929-06	WC-AA-03-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/29/2025	Chemtech -SO
Q1929-10	WC-AA-04-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/30/2025	Chemtech -SO
Q1932-01	COMP-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/30/2025	Chemtech -SO
Q1932-03	COMP-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1932-05	COMP-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1932-07	COMP-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1933-01	OK-01-050125	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1933-02	OK-01-050125-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/01/2025	Chemtech -SO
Q1935-01	MH-NN	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/01/2025	Chemtech -SO
Q1935-02	MH-NN-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1935-03	MH-NN-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1935-05	MH-MM	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1935-06	MH-MM-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1935-07	MH-MM-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1939-01	GB1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/01/2025	Chemtech -SO
Q1939-02	GB1B	Solid	Percent Solids	Cool 4 deg C	GENV01	L51	05/01/2025	Chemtech -SO
Q1939-03	GB2	Solid	Percent Solids	Cool 4 deg C	GENV01	L51	05/01/2025	Chemtech -SO

Date/Time 05/01/25 15:20

Raw Sample Received by: SPWBC

Raw Sample Relinquished by: CPER

Date/Time 05/01/25

Raw Sample Received by: SPWBC

Raw Sample Relinquished by: SPWBC

WORKLIST(Hardcopy Internal Chain)

13526

WorkList Name : %1-050125

WorkList ID : 189260

Department : Wet-Chemistry

Date : 05-01-2025 13:23:05

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1939-04	GB2B	Solid	Percent Solids	Cool 4 deg C	GENV01	L51	05/01/2025	Chemtech -SO
Q1939-05	GB3	Solid	Percent Solids	Cool 4 deg C	GENV01	L51	05/01/2025	Chemtech -SO
Q1939-06	GB3B	Solid	Percent Solids	Cool 4 deg C	GENV01	L51	05/01/2025	Chemtech -SO

Date/Time 05/01/25 15:20
 Raw Sample Received by: JB WDC
 Raw Sample Relinquished by: J an

Date/Time 05/01/25 17:30
 Raw Sample Received by: JB WDC
 Raw Sample Relinquished by: JB WDC

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Solid

Wegh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RS

Filter By: EH

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 05/02/2025

Extraction Start Time : 09:15

Extraction End Date : 05/02/2025

Extraction End Time : 13:15

Concentration By: EH

Supervisor By : RUPESH

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

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24462
Surrogate	1.0ML	100 PPM	PP24491
Fractionation Surrogate	1.0ML	100 PPM	PP24465
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	EP2600
Baked Na2SO4	N/A	EP2607
Sand	N/A	E2865
Hexane	N/A	E3928
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

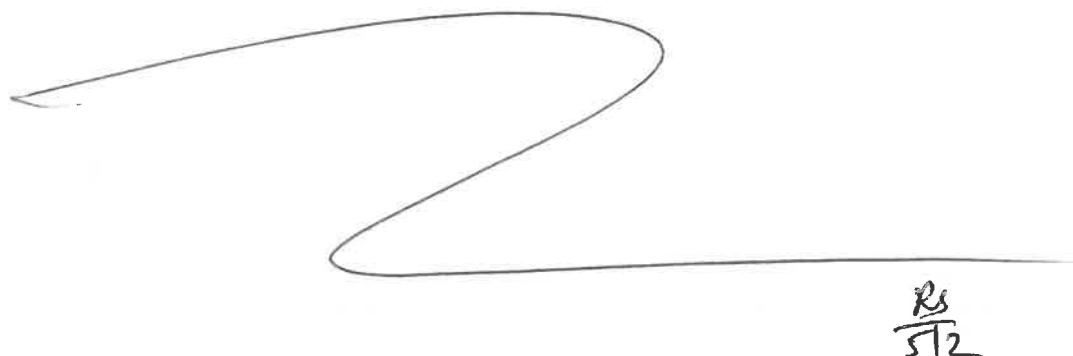
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/2/25	RS (E4-lab)	Y-P.pestHPCD.
13:20	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-7

Concentration Date: 05/02/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167833BL	PB167833BL	EPH_NF	30.01	N/A	RUPESH	Evelyn	2			U1-1
PB167833BS	PB167833BS	EPH_NF	30.02	N/A	RUPESH	Evelyn	2			2
PB167833BSD	PB167833BSD	EPH_NF	30.02	N/A	RUPESH	Evelyn	2			3
Q1928-01	MH-Q	EPH_NF	30.06	N/A	RUPESH	Evelyn	2	E		4
Q1928-01DUP	MH-QDUP	EPH_NF	30.05	N/A	RUPESH	Evelyn	2	E		5
Q1928-01MS	MH-QMS	EPH_NF	30.03	N/A	RUPESH	Evelyn	2	E		6
Q1928-01MSD	MH-QMSD	EPH_NF	30.08	N/A	RUPESH	Evelyn	2	E		U2-1
Q1928-02	MH-Q-EPH	EPH_NF	30.02	N/A	RUPESH	Evelyn	2			2
Q1932-01	COMP-4	EPH_NF	30.04	N/A	RUPESH	Evelyn	2	F		3
Q1932-03	COMP-5	EPH_NF	30.01	N/A	RUPESH	Evelyn	2	E		4
Q1932-05	COMP-6	EPH_NF	30.07	N/A	RUPESH	Evelyn	2	F		5
Q1932-07	COMP-7	EPH_NF	30.03	N/A	RUPESH	Evelyn	2	F		6
Q1933-01	OK-01-050125	EPH_NF	30.02	N/A	RUPESH	Evelyn	2	E		U3-1
Q1933-02	OK-01-050125-E2	EPH_NF	30.05	N/A	RUPESH	Evelyn	2			2
Q1935-01	MH-NN	EPH_NF	30.05	N/A	RUPESH	Evelyn	2	D		3
Q1935-02	MH-NN-EPH	EPH_NF	30.06	N/A	RUPESH	Evelyn	2			4
Q1935-05	MH-MM	EPH_NF	30.02	N/A	RUPESH	Evelyn	2	D		5
Q1935-06	MH-MM-EPH	EPH_NF	30.01	N/A	RUPESH	Evelyn	2			6
Q1939-01	GB1	EPH_NF	30.03	N/A	RUPESH	Evelyn	2	E		U6-1
Q1939-03	GB2	EPH_NF	30.07	N/A	RUPESH	Evelyn	2	E		2
Q1939-05	GB3	EPH_NF	30.04	N/A	RUPESH	Evelyn	2	E		3



162833
9:15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1933 WorkList ID : 189283 Department : Extraction Date : 05-02-2025 08:45:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1928-01	MH-Q	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1928-02	MH-Q-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1932-01	COMP-4	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1932-03	COMP-5	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1932-05	COMP-6	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1932-07	COMP-7	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1933-01	OK-01-050125	Solid	EPH_NF	Cool 4 deg C	PSEG05	L31	05/01/2025	NJEPH
Q1933-02	OK-01-050125-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	L31	05/01/2025	NJEPH
Q1935-01	MH-NN	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1935-02	MH-NN-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1935-05	MH-MM	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1935-06	MH-MM-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	05/01/2025	NJEPH
Q1939-01	GB1	Solid	EPH_NF	Cool 4 deg C	GENV01	L51	05/01/2025	NJEPH
Q1939-03	GB2	Solid	EPH_NF	Cool 4 deg C	GENV01	L51	05/01/2025	NJEPH
Q1939-05	GB3	Solid	EPH_NF	Cool 4 deg C	GENV01	L51	05/01/2025	NJEPH

Date/Time 5/2/25 9:10
Raw Sample Received by: RS (Ext-046)
Raw Sample Relinquished by: CR SM

Date/Time 5/2/25 9:40
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RS (Ext-046)

Prep Standard - Chemical Standard Summary

Order ID : Q1939

Test : EPH_NF

Prepbatch ID : PB167833,

Sequence ID/Qc Batch ID: FC050225AL,FC050525AL,FE050225AL,FE050525AL,FE050625AL,

Standard ID :

EP2600,EP2607,PP24170,PP24174,PP24175,PP24176,PP24177,PP24178,PP24179,PP24462,PP24465,PP24491,

Chemical ID :

E2865,E3551,E3904,E3916,E3917,E3928,E3929,P12363,P12981,P12983,P12989,P12990,P13050,P13279,P13596,P13650,P13660,P13662,P13664,P13667,P13671,P13709,P13762,P13764,P13865,P13896,P13897,P13898,P13899,P13900,P13901,P13903,P13905,P13906,P13912,P13919,P13920,P13921,P13923,P13926,P13927,P13928,P13931,P13947,P13948,W3177,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2600	04/07/2025	10/03/2025	Rajesh Parikh	None	None	Riteshkumar Patel
								04/07/2025

FROM 8000.00000ml of E3904 + 8000.00000ml of E3917 = 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	EP2607	04/25/2025	07/01/2025	RUPESEKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel
								04/25/2025

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)	PP24170	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.25000ml of P12981 + 0.25000ml of P13671 + 1.25000ml of P12363 + 23.25000ml of W3177 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2900	100 PPM Aliphatic HC STD (Absolute)	PP24174	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.25000ml of P12983 + 0.25000ml of P13650 + 2.50000ml of P13279 + 22.00000ml of W3177 = Final Quantity: 25.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
783	50 PPM Aliphatic HC STD	PP24175	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
02/03/2025								

FROM 0.50000ml of W3177 + 0.50000ml of PP24170 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
784	20 PPM Aliphatic HC STD	PP24176	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
02/03/2025								

FROM 0.80000ml of W3177 + 0.20000ml of PP24170 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
785	10 PPM Aliphatic HC STD	PP24177	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24170 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
786	5 PPM Aliphatic HC STD	PP24178	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24175 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2901	20 PPM Aliphatic HC STD ICV (Absolute)	PP24179	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.80000ml of W3177 + 0.20000ml of PP24174 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1330	100 PPM NJEPH Spike Solution	PP24462	04/15/2025	10/15/2025	Yogesh Patel	None	None	Abdul Mirza
								04/21/2025

FROM 5.00000ml of P13709 + 5.00000ml of P13865 + 5.00000ml of P13896 + 5.00000ml of P13897 + 5.00000ml of P13898 + 5.00000ml of P13899 + 5.00000ml of P13900 + 5.00000ml of P13901 + 5.00000ml of P13903 + 5.00000ml of P13905 + 5.00000ml of P13906 + 5.00000ml of P13912 + 5.00000ml of P13919 + 5.00000ml of P13920 + 5.00000ml of P13921 + 5.00000ml of P13923 + 5.00000ml of P13926 + 5.00000ml of P13927 + 5.00000ml of P13928 + 5.00000ml of P13931 = Final Quantity: 100.000 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>
1331	100 PPM NJEPH Fractionating Surrogate	PP24465	04/18/2025	10/03/2025	Abdul Mirza	None	None	Yogesh Patel 05/03/2025
<u>FROM</u>	1.25000ml of P13762 + 1.25000ml of P13764 + 1.25000ml of P13947 + 1.25000ml of P13948 + 195.00000ml of E3916 = Final Quantity: 200.000 ml							

[illegible]

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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3916

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	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	10/22/2025	04/18/2025 / RUPESH	04/16/2025 / RUPESH	E3928

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	04/18/2027	04/18/2025 / RUPESH	04/16/2025 / RUPESH	E3929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	08/03/2025	02/03/2025 / yogesh	03/16/2023 / Yogesh	P12363

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	10/25/2025	04/25/2025 / Abdul	12/20/2023 / Yogesh	P12989

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	10/25/2025	04/25/2025 / Abdul	12/20/2023 / Yogesh	P12990

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	A0200707	10/25/2025	04/25/2025 / Abdul	12/26/2023 / Yogesh	P13050

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	08/03/2025	02/03/2025 / yogesh	04/11/2024 / yogesh	P13279

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	10/25/2025	04/25/2025 / Abdul	10/16/2024 / yogesh	P13596

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	08/03/2025	02/03/2025 / yogesh	10/16/2024 / yogesh	P13650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	10/25/2025	04/25/2025 / Abdul	10/16/2024 / yogesh	P13660

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	10/25/2025	04/25/2025 / Abdul	10/16/2024 / yogesh	P13662

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	10/25/2025	04/25/2025 / Abdul	10/16/2024 / yogesh	P13664

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	10/25/2025	04/25/2025 / Abdul	10/16/2024 / yogesh	P13667

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	10/15/2025	04/15/2025 / yogesh	10/24/2024 / yogesh	P13709

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	10/18/2025	04/18/2025 / Abdul	11/01/2024 / yogesh	P13762

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	10/18/2025	04/18/2025 / Abdul	11/01/2024 / yogesh	P13764

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	A0220580	10/15/2025	04/15/2025 / yogesh	01/08/2025 / yogesh	P13865

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	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13896

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	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13897

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	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13898

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	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13899

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	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13900

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	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13901

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	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13903

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	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13905

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	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13906

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13912

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A022580	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13919

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	A022580	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13920

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A022580	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A022580	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13923

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A022580	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A022580	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13927

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A022580	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13928

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	A022580	10/15/2025	04/15/2025 / yogesh	03/06/2025 / yogesh	P13931

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0219106	10/31/2030	04/18/2025 / Abdul	03/10/2025 / yogesh	P13947

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0219106	10/18/2025	04/18/2025 / Abdul	03/10/2025 / yogesh	P13948

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177

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

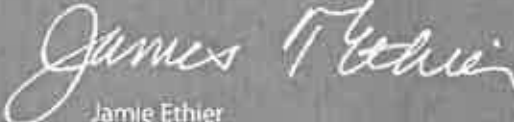
Certificate of Analysis

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

Certificate of Analysis

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

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

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

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

N/A

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

Harout Sahagian

Harout Sahagian - Quality Control Manager - Fair Lawn

Recd by RP on 3/31/25

E 3946

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

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 03/31/25

E3917

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

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

 **avantors[™]**



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

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

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

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

E3928



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 U.S.

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

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

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

E 3929

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : NJEPH Aliphatics Calibration Standard

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

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

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

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

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

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

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

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

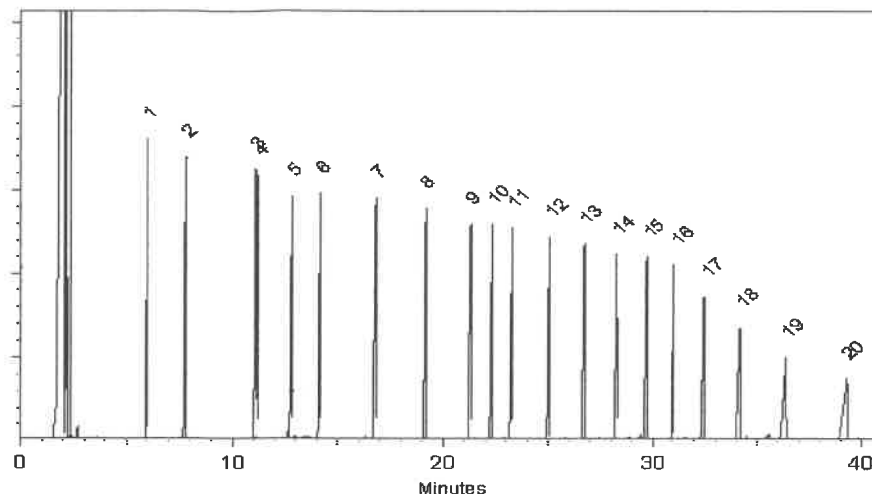
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description: 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P12960
↓
P12991 } Y.P.
12/21/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

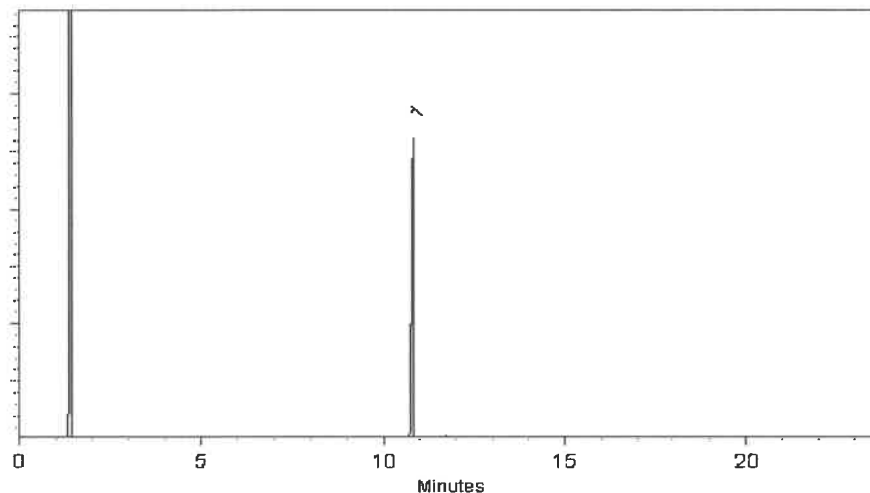
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023

Balance Serial # B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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:

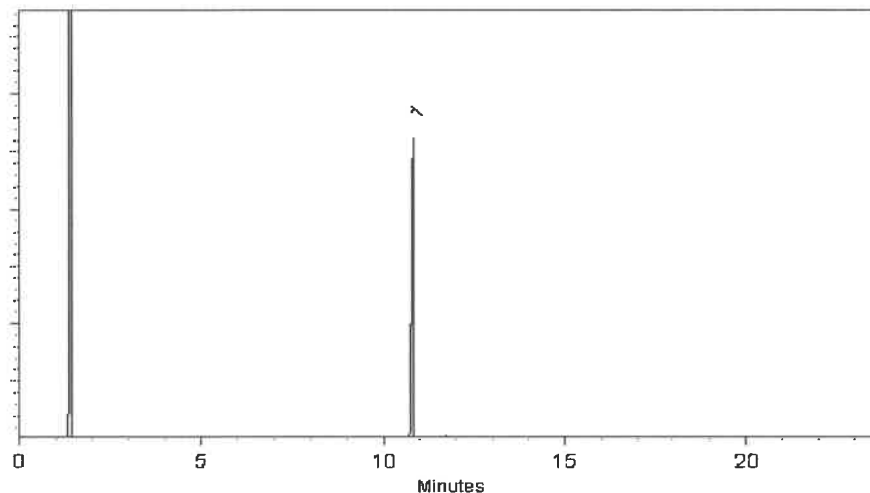
FID

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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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:

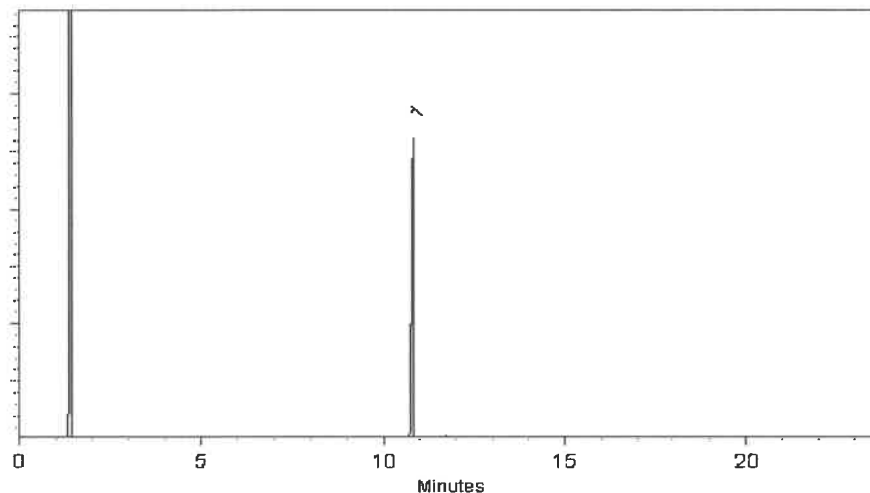
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

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

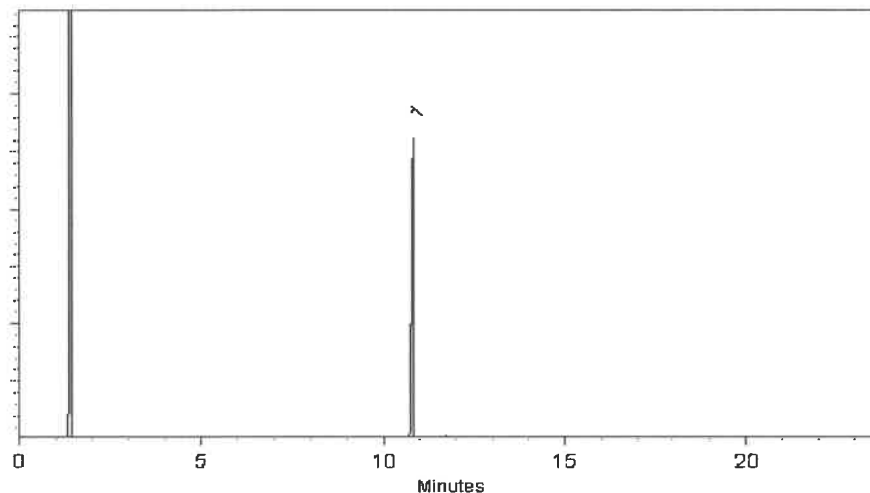
FID

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:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31098 **Lot No.:** A0200707

Description : 1-Chlorooctadecane Standard

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

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

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

P130hh
↓
P13051 } Y.B.
12/26/23

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	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

* 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:

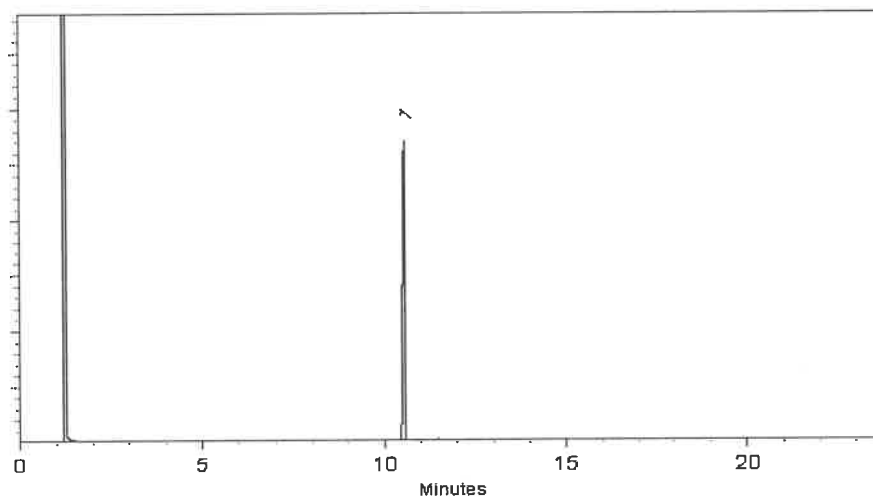
FID

Split Vent:

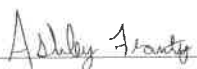
10 ml/min.

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.


Ashley Frantz - Quoting Technician

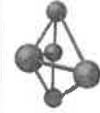
Date Mixed: 07-Aug-2023

Balance Serial # 1128360905


Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

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



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

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

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

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

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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

Compound		Part Number	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
																CAS#	OSHA PEL (TWA)	LD50
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	or-rat 1630mg/kg
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ /8H)	or-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ /8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.1	583-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1000	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1000	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-06-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

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



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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:

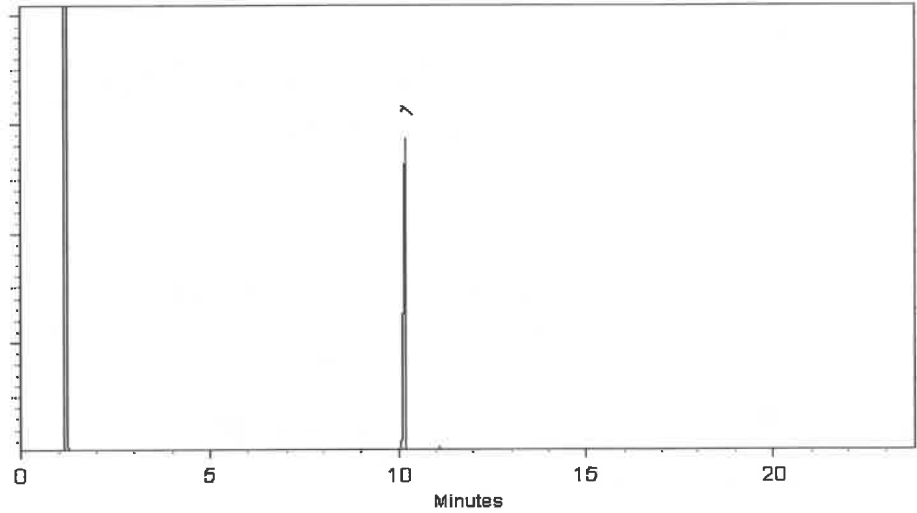
FID

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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

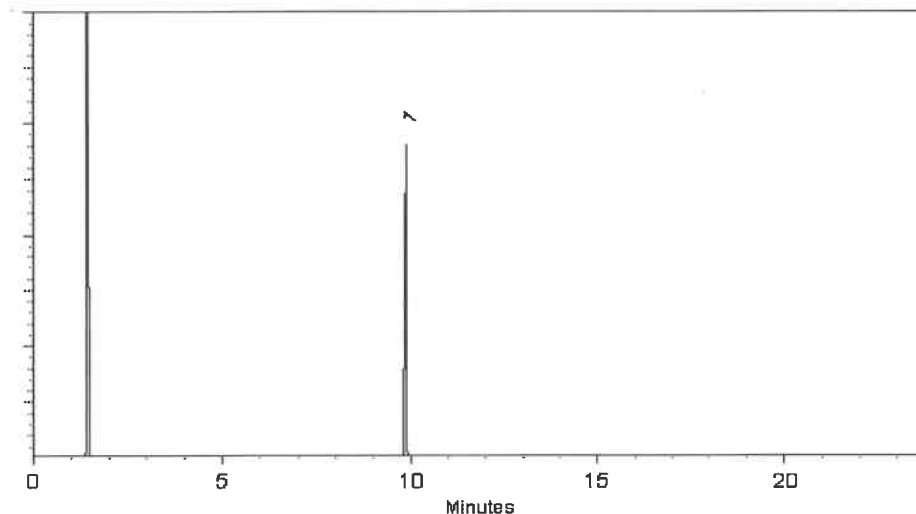
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity 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.

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

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

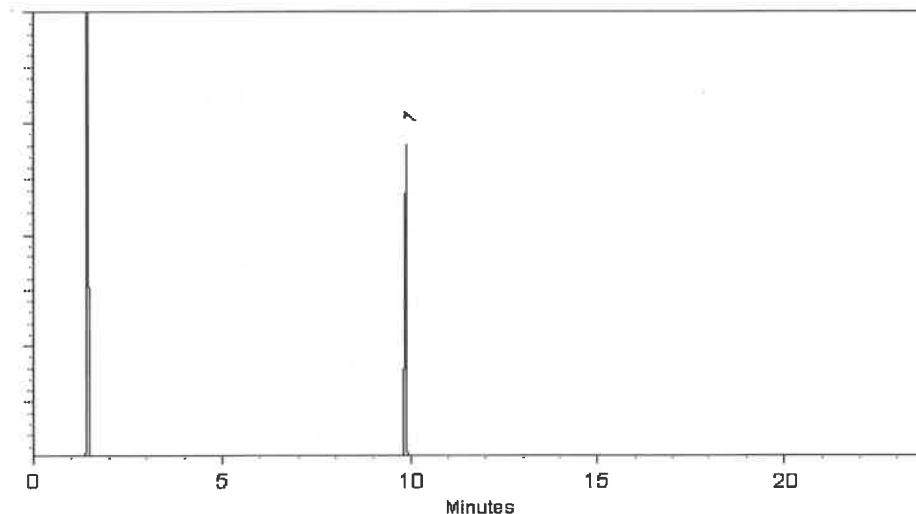
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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Manufacturing Notes:

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

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

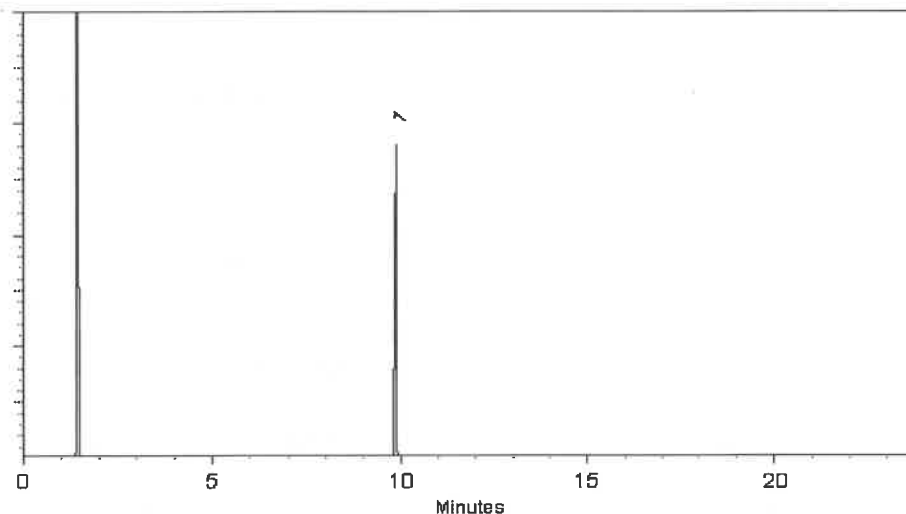
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

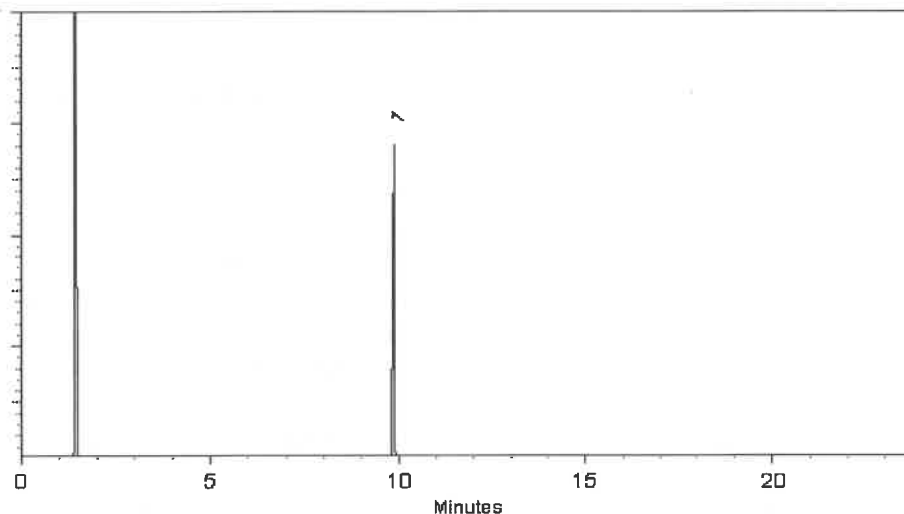
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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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:

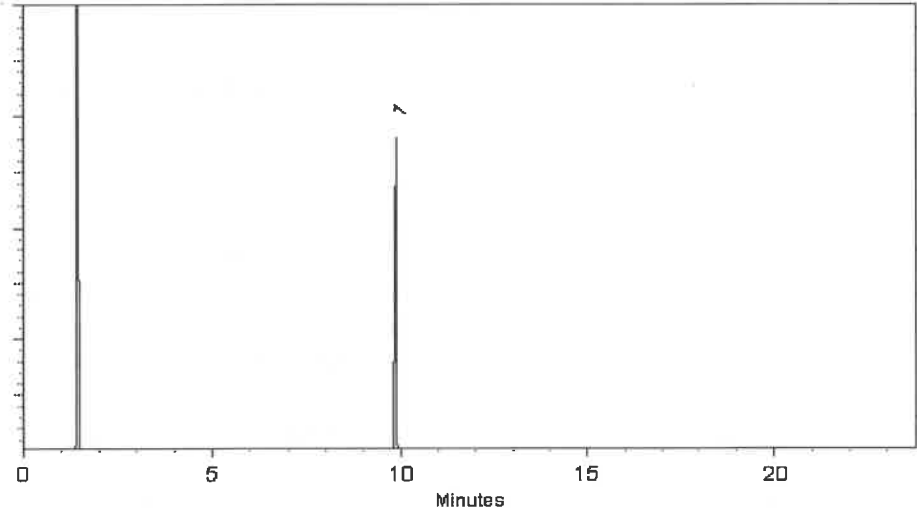
FID

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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Certificate of Analysis

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Catalog No. : 30543

Lot No.: A0211254

Description : NJEPH Aromatics Matrix Spike Mix

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : April 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

P13408
↓
P13716 } Y.P.
10/26/24

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%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

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	RP240105ECS	99%	200.8	µg/mL	+/- 9.0474

* 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.)

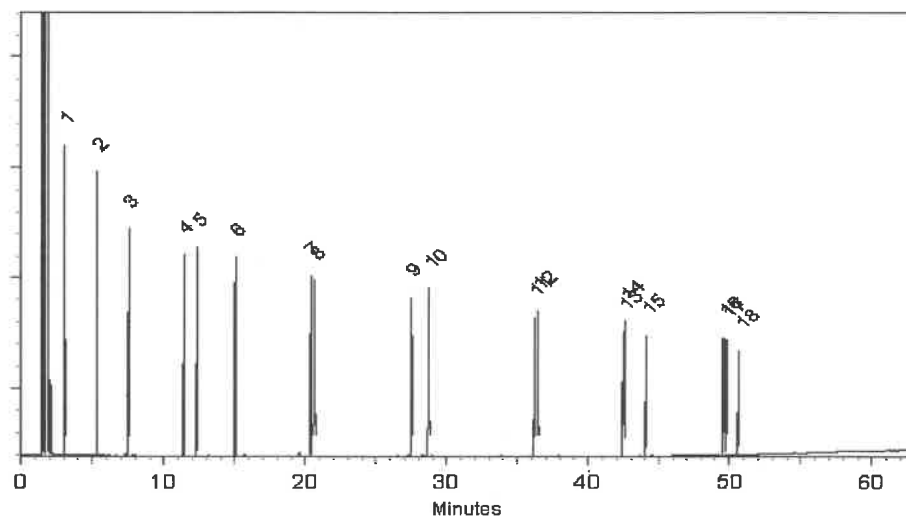
Inj. Temp:
250°C

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.

Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-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.
- 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. : 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:

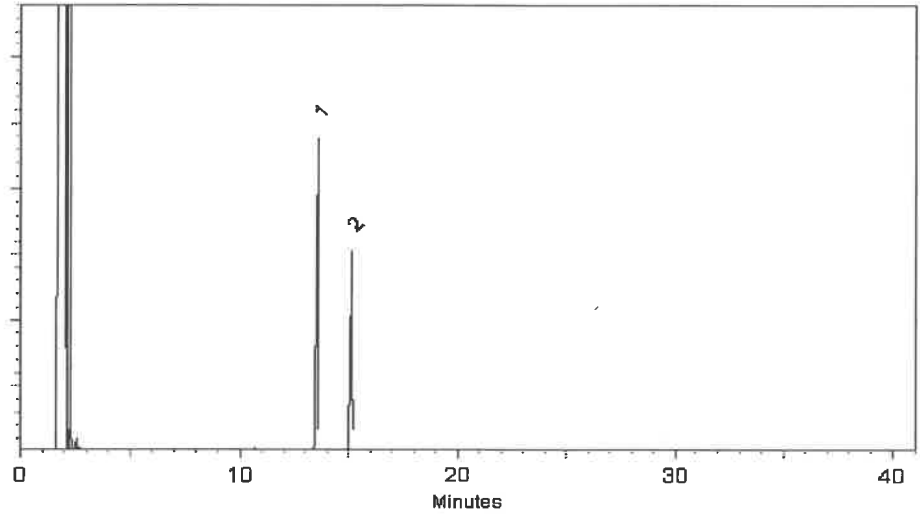
FID

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:

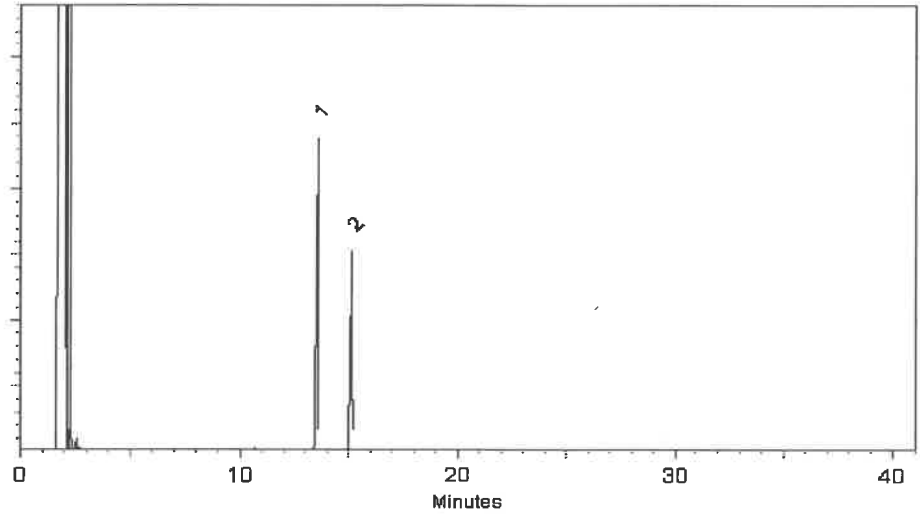
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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.
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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.:** A0220580

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 : November 30, 2030 **Storage:** 10°C or colder

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

P13863 } y.p.
↓
P13866 } 01/08/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.9 µg/mL	+/- 9.0961
7	Phenanthrene	85-01-8	MKCT3391	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	MKCW9141	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
12	Chrysene	218-01-9	RP240719RSR	99%	202.0 µg/mL	+/- 9.1015
13	Benzo(b)fluoranthene	205-99-2	SBS-BBF-FINAL-2	99%	202.0 µg/mL	+/- 9.1015
14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

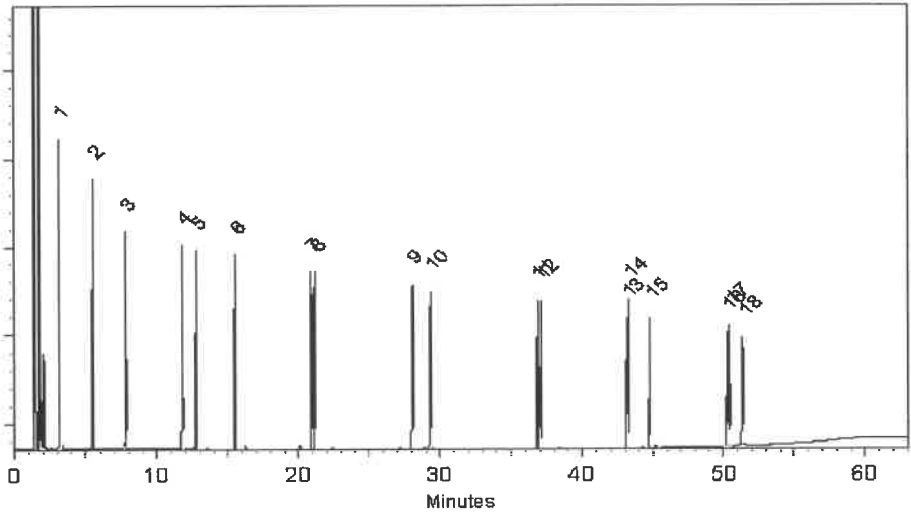
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2	µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3	µg/mL	+/- 9.0255

* 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.

Ven Kelley
Ven Kelley - Operations Tech I **Date Mixed:** 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 03-Jan-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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

P13896
↓
P13906 } Y.P.
03/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 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:

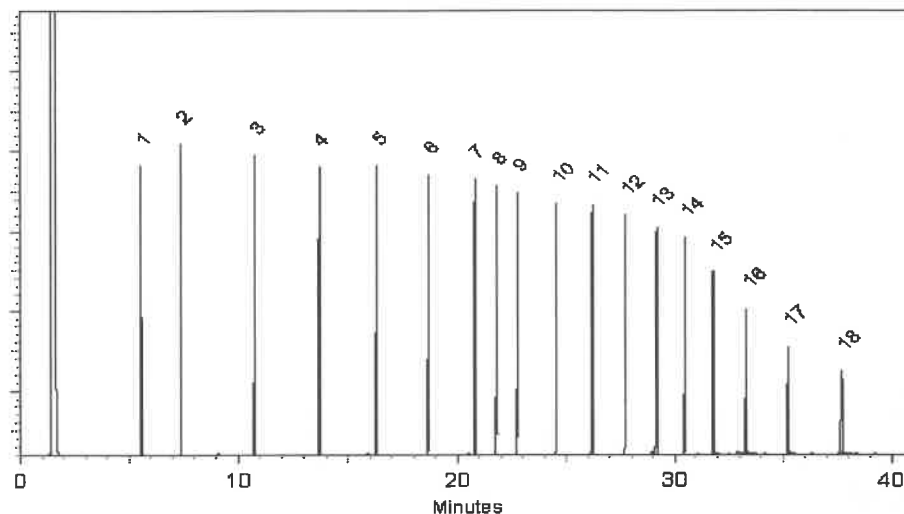
FID

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 B. 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/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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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

P13896
↓
P13906 } Y.P.
03/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 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:

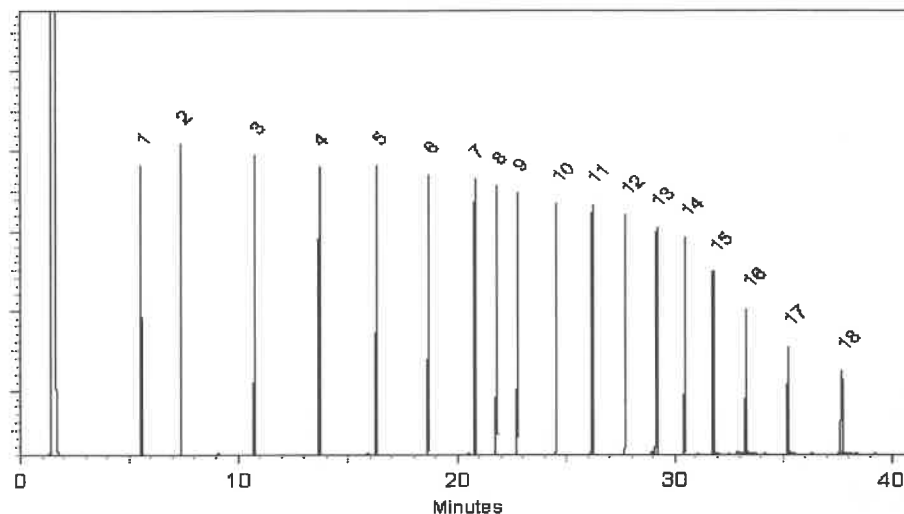
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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Penelope B. 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/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. : 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

P13896
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P13906 } Y.P.
03/06/25

CERTIFIED VALUES

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12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane**CAS #** 109-66-0**Purity** 99%

Quality Confirmation Test

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

hydrogen-constant pressure 10 psi.

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

250°C

Det. Temp:

330°C

Det. Type:

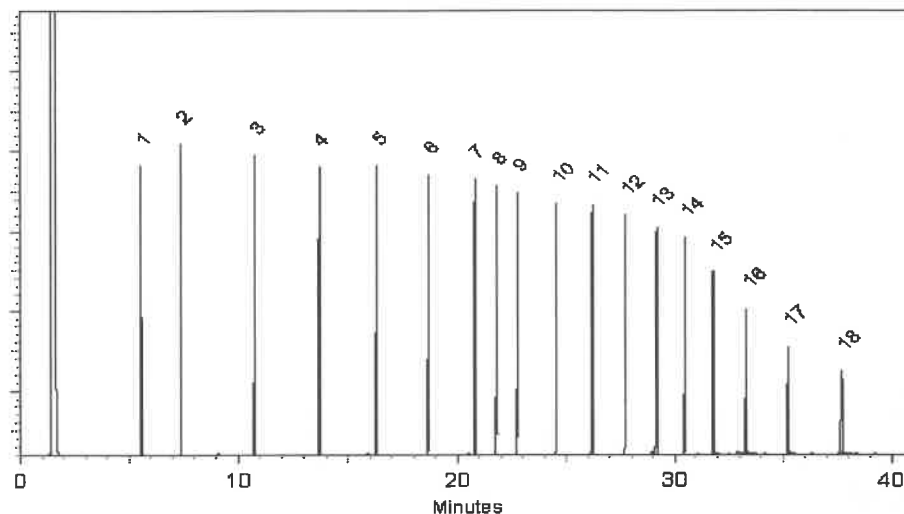
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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Penelope B. 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:

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Manufacturing Notes:

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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

P13896
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P13906 } Y.P.
03/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	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
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11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
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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:

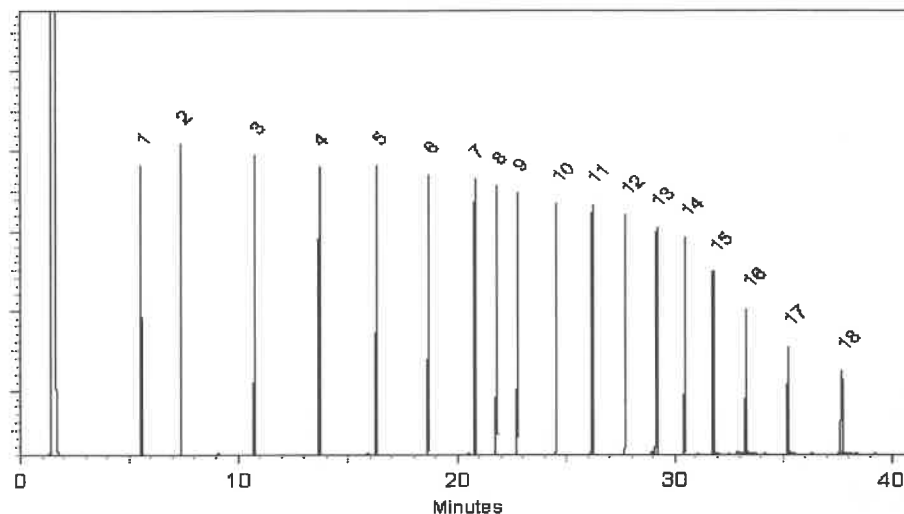
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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Penelope B. 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

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

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Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

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

Carrier Gas:
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Temp. Program:
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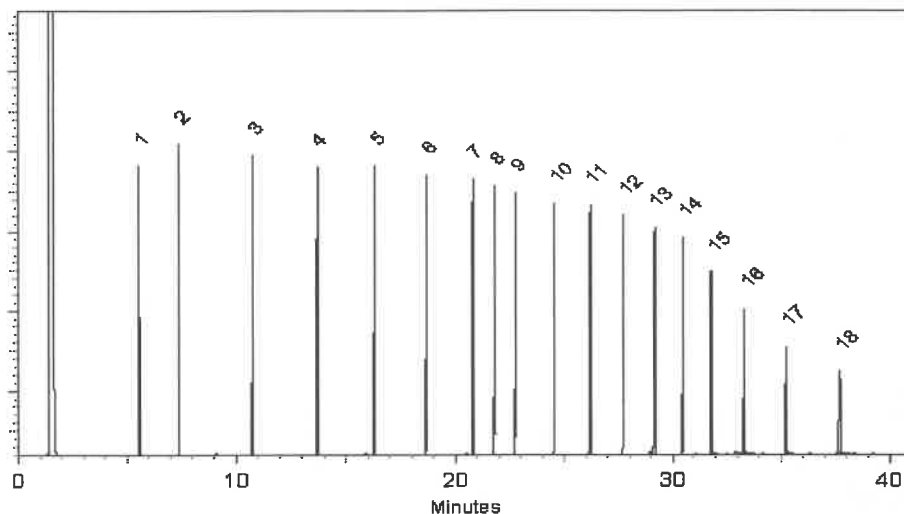
Inj. Temp:
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Det. Temp:
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Det. Type:
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Split Vent:
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Inj. Vol
1µl



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Penelope Riglin - Operations Tech I

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Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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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

P13896
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P13906 } Y.P.
03/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 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:

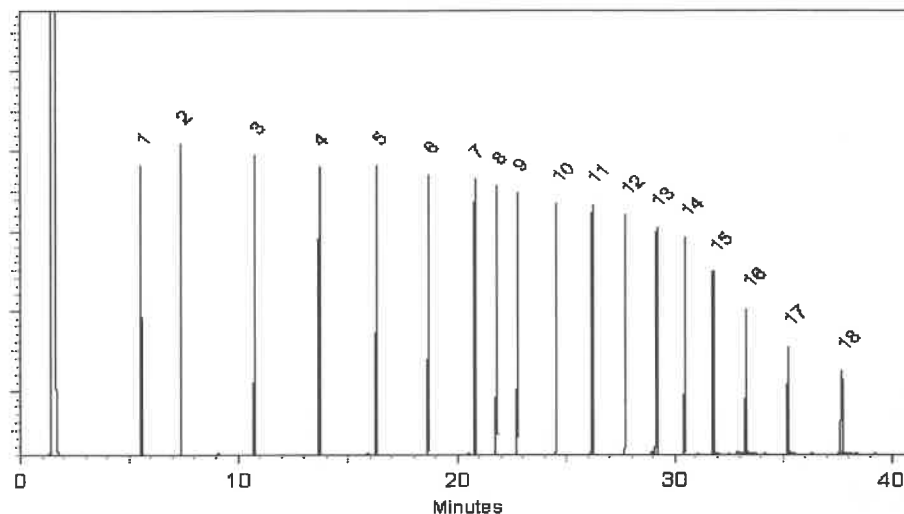
FID

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 B. 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/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. : 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

P13896
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P13906 } Y.P.
03/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 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.)

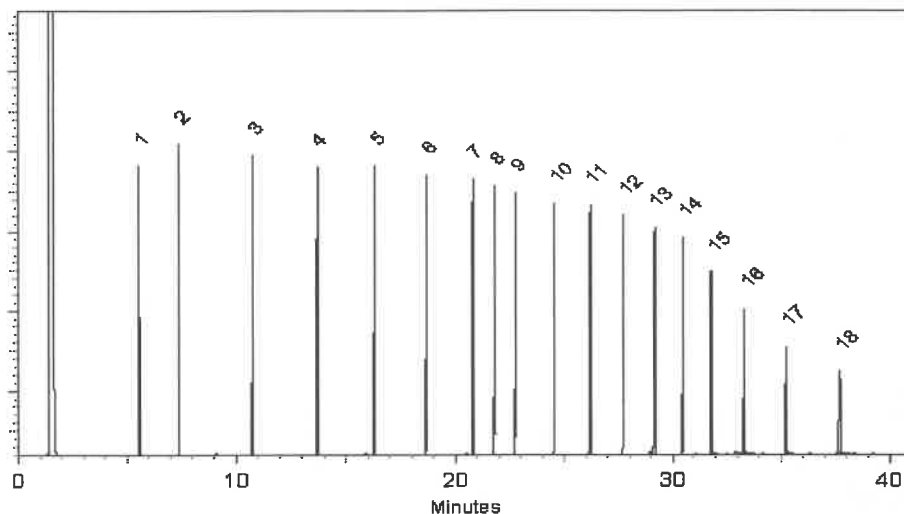
Inj. Temp:
250°C

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 B. 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/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. : 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

P13896
↓
P13906 } Y.P.
03/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 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:

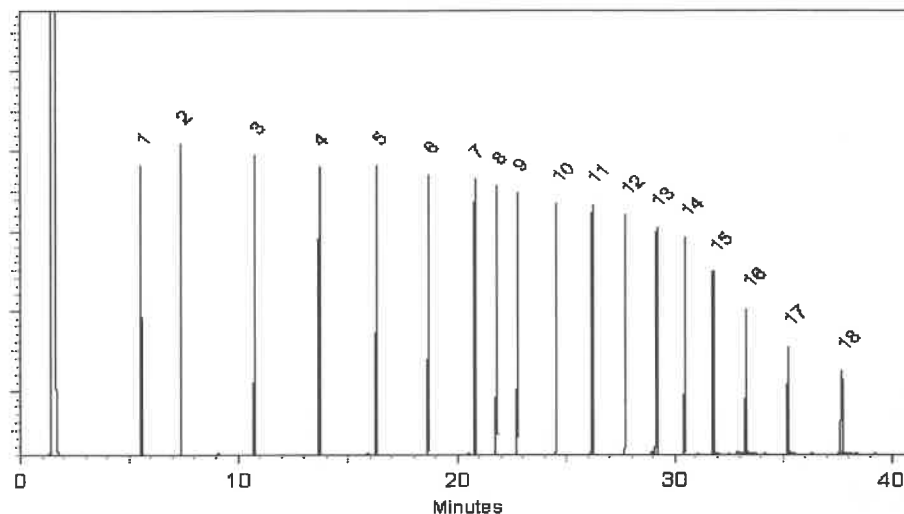
FID

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 B. 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/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. : 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

P13896
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P13906 } Y.P.
03/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 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.)

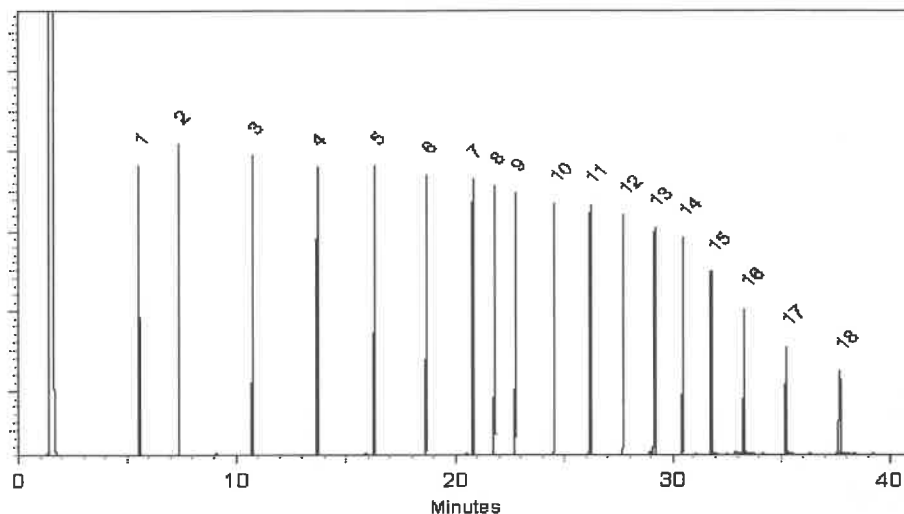
Inj. Temp:
250°C

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 B. 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/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. : 30542 **Lot No.:** A0220449

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

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

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

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

P13909
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P1395 } Y.P.
03106/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.3 µg/mL	+/- 5.2012
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.7 µg/mL	+/- 5.2098
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	201.3 µg/mL	+/- 5.2012
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1839
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.3 µg/mL	+/- 5.1753
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.0 µg/mL	+/- 5.1926
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.2 µg/mL	+/- 5.1984
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.7 µg/mL	+/- 5.2098
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	201.3 µg/mL	+/- 5.2012
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.7 µg/mL	+/- 5.2098
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	201.6 µg/mL	+/- 5.2081

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

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

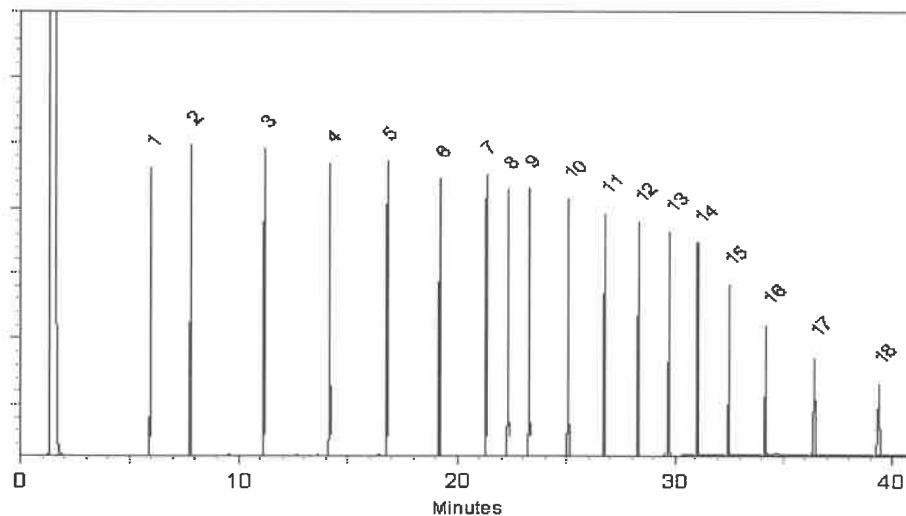
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Brandon Reish
Brandon Reish - Operations Technician III

Date Mixed: 23-Dec-2024 **Balance Serial #** C322230531

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 27-Dec-2024

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

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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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.: A0220580

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 : November 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

P13916 } Y.P.
↓
P13935 } 08/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.9 µg/mL	+/- 9.0961
7	Phenanthrene	85-01-8	MKCT3391	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	MKCW9141	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
12	Chrysene	218-01-9	RP240719RSR	99%	202.0 µg/mL	+/- 9.1015
13	Benzo(b)fluoranthene	205-99-2	SBS-BBF-FINAL-2	99%	202.0 µg/mL	+/- 9.1015
14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2 µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3 µg/mL	+/- 9.0255

* 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.)

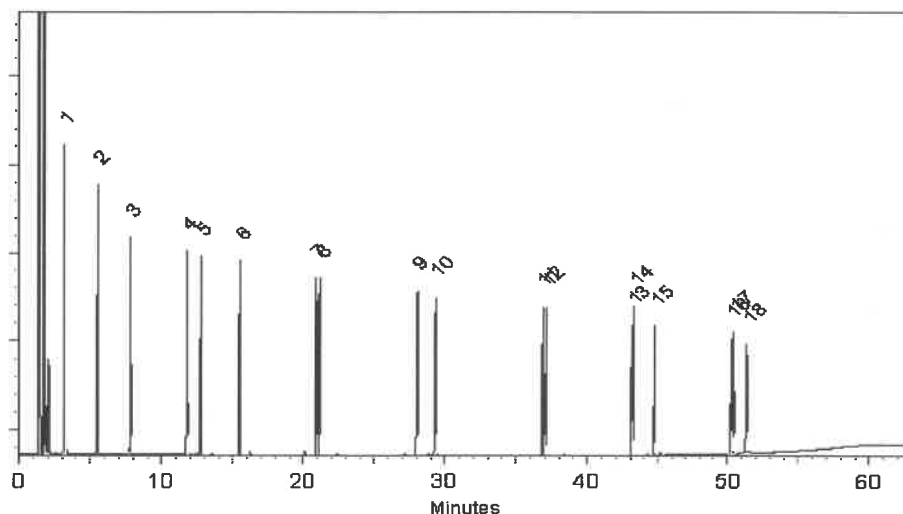
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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VenKelley
Ven Kelley - Operations Tech I

Date Mixed: 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jan-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.: A0220580

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 : November 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

P13916 } Y.P.
↓
P13935 } 08/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.9 µg/mL	+/- 9.0961
7	Phenanthrene	85-01-8	MKCT3391	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	MKCW9141	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
12	Chrysene	218-01-9	RP240719RSR	99%	202.0 µg/mL	+/- 9.1015
13	Benzo(b)fluoranthene	205-99-2	SBS-BBF-FINAL-2	99%	202.0 µg/mL	+/- 9.1015
14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2 µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3 µg/mL	+/- 9.0255

* 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.)

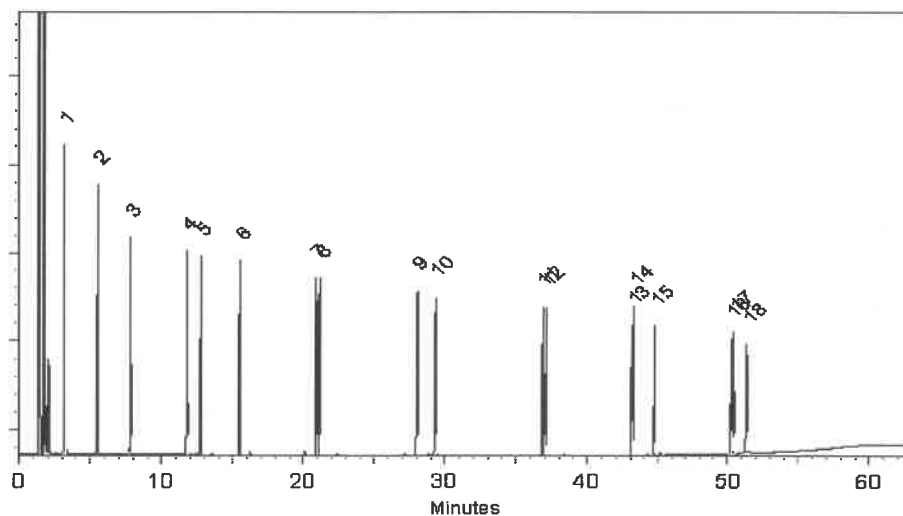
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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VenKelley
Ven Kelley - Operations Tech I

Date Mixed: 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jan-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- 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. : 30543

Lot No.: A0220580

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 : November 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is
photosensitive.

Ship: Ambient

P13916 } Y.P.
↓
P13935 } 08/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	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	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
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14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
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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.)

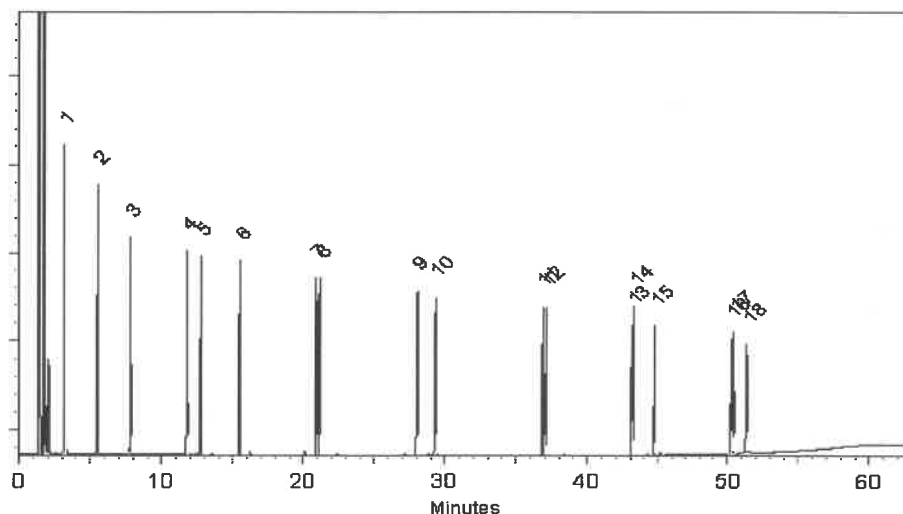
Inj. Temp:
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Det. Temp:
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Det. Type:
FID

Split Vent:
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Inj. Vol
1µl



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VenKelley
Ven Kelley - Operations Tech I

Date Mixed: 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jan-2025

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 values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



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Storage: 10°C or colder

Handling: Sonication required. Mix is
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Ship: Ambient

P13916 } Y.P.
↓
P13935 } 08/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.9 µg/mL	+/- 9.0961
7	Phenanthrene	85-01-8	MKCT3391	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	MKCW9141	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
12	Chrysene	218-01-9	RP240719RSR	99%	202.0 µg/mL	+/- 9.1015
13	Benzo(b)fluoranthene	205-99-2	SBS-BBF-FINAL-2	99%	202.0 µg/mL	+/- 9.1015
14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2 µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3 µg/mL	+/- 9.0255

* 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.)

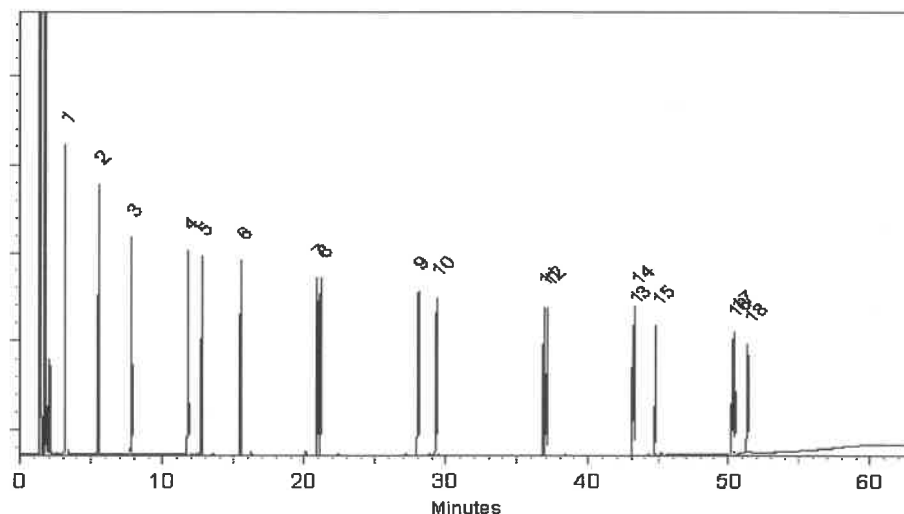
Inj. Temp:
250°C

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.

VenKelley
Ven Kelley - Operations Tech I

Date Mixed: 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jan-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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.: A0220580

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 : November 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

P13916 } Y.P.
↓
P13935 } 08/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	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	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
12	Chrysene	218-01-9	RP240719RSR	99%	202.0 µg/mL	+/- 9.1015
13	Benzo(b)fluoranthene	205-99-2	SBS-BBF-FINAL-2	99%	202.0 µg/mL	+/- 9.1015
14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2 µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3 µg/mL	+/- 9.0255

* 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.)

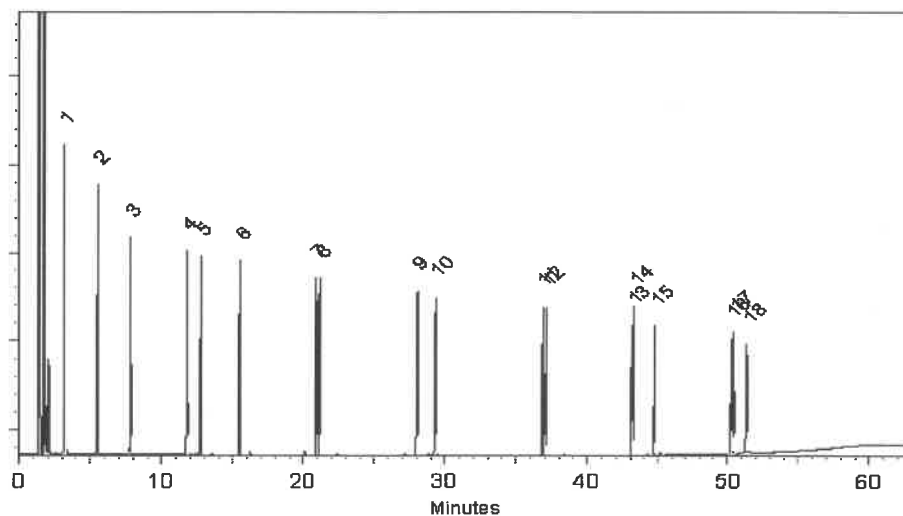
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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VenKelley
Ven Kelley - Operations Tech I

Date Mixed: 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jan-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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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.: A0220580

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 : November 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is
photosensitive.

Ship: Ambient

P13916 } Y.P.
↓
P13935 } 08/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	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	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
12	Chrysene	218-01-9	RP240719RSR	99%	202.0 µg/mL	+/- 9.1015
13	Benzo(b)fluoranthene	205-99-2	SBS-BBF-FINAL-2	99%	202.0 µg/mL	+/- 9.1015
14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
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17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2 µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3 µg/mL	+/- 9.0255

* 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.)

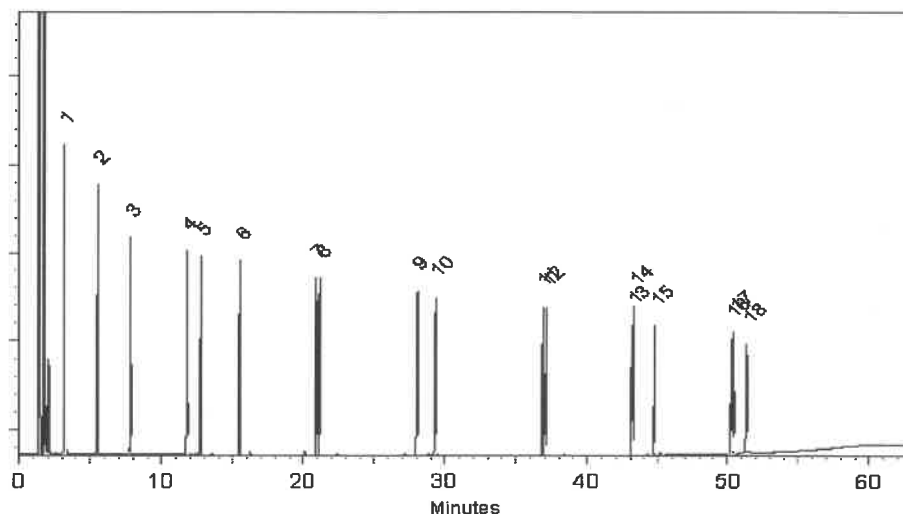
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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VenKelley
Ven Kelley - Operations Tech I

Date Mixed: 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jan-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ 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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CERTIFIED REFERENCE MATERIAL

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.: A0220580

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 : November 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

P13916 } Y.P.
↓
P13935 } 08/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	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	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
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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
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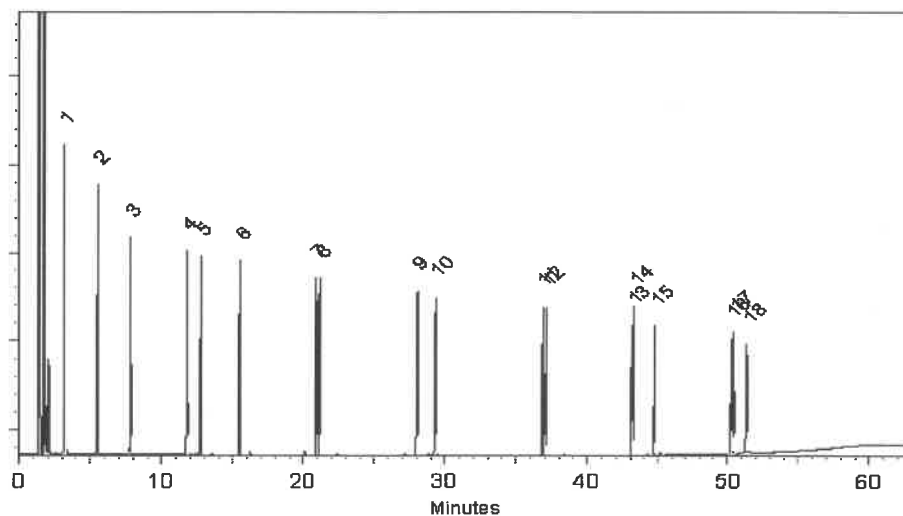
Inj. Temp:
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Det. Type:
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Split Vent:
20 ml/min.

Inj. Vol
1µl



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VenKelley
Ven Kelley - Operations Tech I

Date Mixed: 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jan-2025

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 values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : November 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

P13916 } Y.P.
↓
P13935 } 08/06/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.9 µg/mL	+/- 9.0961
7	Phenanthrene	85-01-8	MKCT3391	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	MKCW9141	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
12	Chrysene	218-01-9	RP240719RSR	99%	202.0 µg/mL	+/- 9.1015
13	Benzo(b)fluoranthene	205-99-2	SBS-BBF-FINAL-2	99%	202.0 µg/mL	+/- 9.1015
14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2 µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3 µg/mL	+/- 9.0255

* 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.)

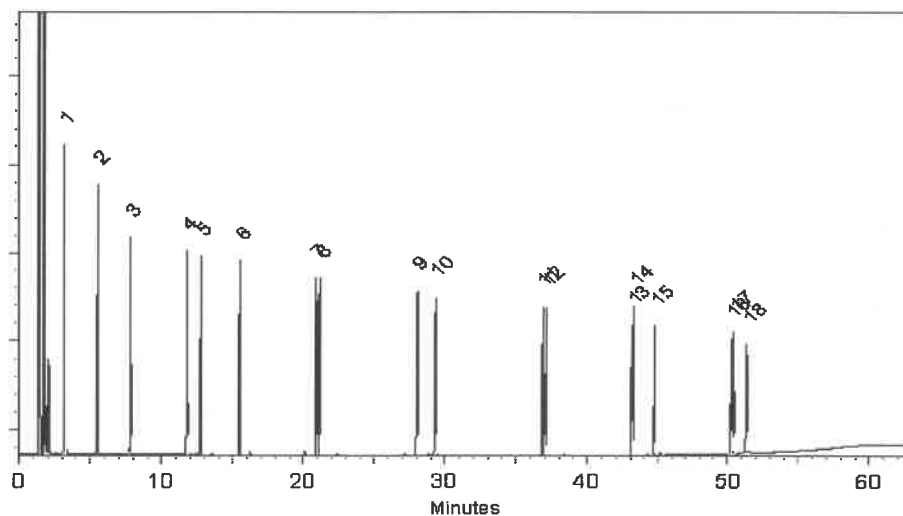
Inj. Temp:
250°C

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.

VenKelley
Ven Kelley - Operations Tech I

Date Mixed: 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jan-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31480 **Lot No.:** A0219106
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is **Ship:** Ambient
photosensitive.

p13947
L
p1395h

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,013.5 µg/mL	+/- 180.7988
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,011.0 µg/mL	+/- 180.6862

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

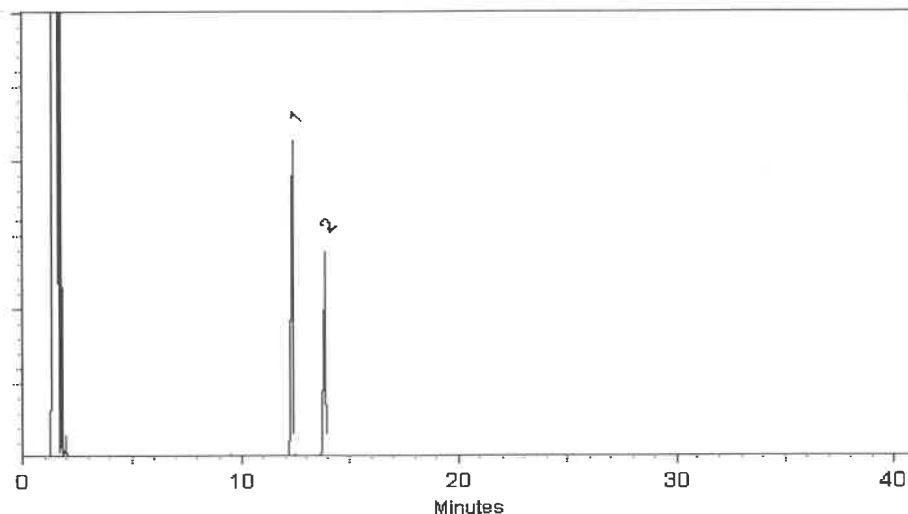
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Wilner Torres
Wilner Torres - Operation Tech I

Date Mixed: 14-Nov-2024

Balance Serial # 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Nov-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31480 **Lot No.:** A0219106
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is **Ship:** Ambient
photosensitive.

P13947
L
P13954

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,013.5 µg/mL	+/- 180.7988
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,011.0 µg/mL	+/- 180.6862

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

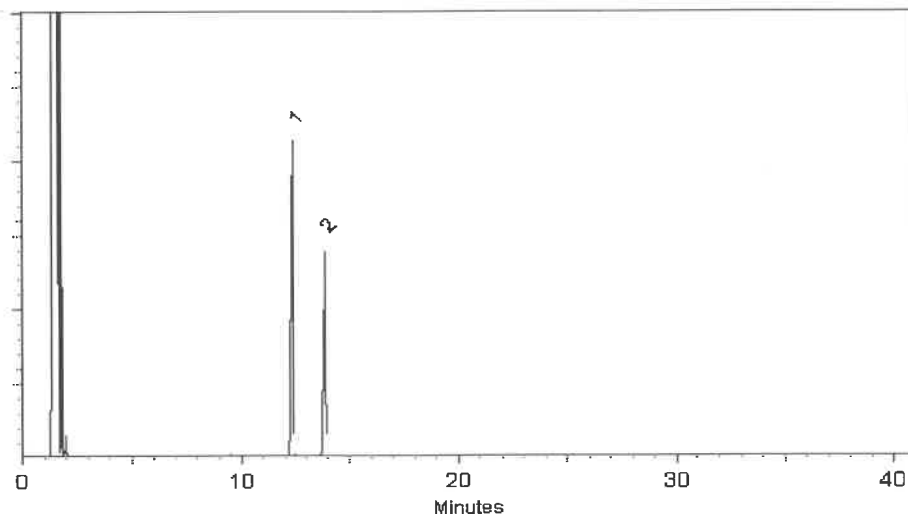
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Wilner Torres
Wilner Torres - Operation Tech I

Date Mixed: 14-Nov-2024

Balance Serial # 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Nov-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

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

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

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

Manufacturing Notes:

- 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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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: G Environmental
ADDRESS: 8 Carriage
CITY: Successville STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amsterdam
PROJECT NO.: LOCATION: NJ
PROJECT MANAGER: BL
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: G Environmental
ADDRESS: 8 Carriage
CITY: Successville STATE: NJ ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard 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 haz site NDA
☒ EDD FORMAT haz site NDA

1. TEL VOC + 15 SOL
2. EPH GAT 1
3. TAL METALS
4. 1,4 Dioxene
5.
6.
7.
8.
9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	GB1	Soil		X	5/1/25	1121	5	X		X	X						
2.	GB1B					1128	1					X					
3.	GB2					1305	1			X	X						
4.	GB2B					1310	1					X					
5.	GB3					1315	1			X	X						
6.	GB3B	Soil		X	5/1/25	1325	5	X				X					
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: <u>MHC</u>	DATE/TIME: <u>5/1/25 1423</u>	RECEIVED BY: <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: <u>2-3°C</u>
RELINQUISHED BY SAMPLER: <u></u>	DATE/TIME: <u></u>	RECEIVED BY: <u></u>	Comments: <u>Amsterdam</u> <u>Adjust Factor +1</u> <u>IL HW #1</u>
RELINQUISHED BY SAMPLER: <u></u>	DATE/TIME: <u></u>	RECEIVED BY: <u></u>	

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

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1939 GENV01

Order Date : 5/1/2025 2:51:00 PM

Project Mgr :

Client Name : G Environmental

Project Name : Amsterdam

Report Type : ~~Level 1~~ *NJ reduce*

Client Contact : Gary Landis

Receive DateTime : 5/1/2025 2:23:00 PM

EDD Type : Excel NJ

Invoice Name : G Environmental

Purchase Order :

Hard Copy Date :

Invoice Contact : Gary Landis

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1939-01	GB1	Solid	05/01/2025	11:21					
					VOCMS Group1		8260D		10 Bus. Days
Q1939-02	GB1B	Solid	05/01/2025	11:28					
					VOCMS Group1		8260D		10 Bus. Days
Q1939-03	GB2	Solid	05/01/2025	13:05					
					VOCMS Group1		8260D		10 Bus. Days
Q1939-04	GB2B	Solid	05/01/2025	13:10					
					VOCMS Group1		8260D		10 Bus. Days
Q1939-05	GB3	Solid	05/01/2025	13:15					
					VOCMS Group1		8260D		10 Bus. Days
Q1939-06	GB3B	Solid	05/01/2025	13:25					
					VOCMS Group1		8260D		10 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1939 GENV01

Order Date : 5/1/2025 2:51:00 PM

Project Mgr :

Client Name : G Environmental

Project Name : Amsterdam

Report Type : ~~Level~~ ^{NJ} Reduce

Client Contact : Gary Landis

Receive DateTime : 5/1/2025 2:23:00 PM

EDD Type : Excel NJ

Invoice Name : G Environmental

Purchase Order :

Hard Copy Date :

Invoice Contact : Gary Landis

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
--------	-----------	--------	-------------	-------------	------	------------	--------	----------	-----------

7/24/2025

stored in roa
frz + 02 & Extract
in roa ref #06

Relinquished By :

Date / Time : 5/1/25 1520

Received By :

Date / Time : 5-1-25 15:30

Storage Area : VOA Refridgerator Room