

Cover Page

Order ID : Q1851

Project ID : Stockton

Client : G Environmental

Lab Sample Number

Q1851-01
Q1851-02
Q1851-03
Q1851-04
Q1851-05
Q1851-06
Q1851-07

Client Sample Number

DP5
DP6
DP7
DP8
GP5
GP6
GP7

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 4/25/2025

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1851

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAHESH PATEL

Date: 04/25/2025

LAB CHRONICLE

OrderID: Q1851	OrderDate: 4/21/2025 12:52:00 PM
Client: G Environmental	Project: Stockton
Contact: Gary Landis	Location: L31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1851-01	DP5	Solid	EPH_NF	NJEPH	04/21/25	04/22/25	04/23/25	04/21/25
Q1851-02	DP6	Solid	EPH_NF	NJEPH	04/21/25	04/22/25	04/23/25	04/21/25
Q1851-03	DP7	Solid	EPH_NF	NJEPH	04/21/25	04/22/25	04/23/25	04/21/25
Q1851-04	DP8	Solid	EPH_NF	NJEPH	04/21/25	04/22/25	04/23/25	04/21/25



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM CASE No.: Q1851 SAS No.: Q1851 SDG No.: Q1851
Run Number: FE042225AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
DP5	50	49		0
DP6	74	76		0
DP7	74	75		0
DP8	65	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

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM CASE No.: Q1851 SAS No.: Q1851 SDG No.: Q1851
Run Number: FG042225AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB167690BL	78	78		0
PB167690BS	88	82		0
PB167690BSD	78	72		0
ETGI-275MS	64	47		0
ETGI-275MSD	64	45		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:** Q1851 **SAS No :** Q1851 **SDG No:** Q1851
Sample No : Q1848-03MS **Datafile:** FG015739.D
Client ID : ETGI-275MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	34.9	88.0	98.4	30	*	(40-140)
Aliphatic C9-C28	116.3	93.5	131	32	*	(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** G Environmental
Lab Code: CHEM **Cas No:** Q1851 **SAS No :** Q1851 **SDG No:** Q1851
Sample No : Q1848-03MSD **Datafile:** FG015740.D
Client ID : ETGI-275MSD

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	34.9	88.0	95.5	22	*	32.2 * (40-140)	25
Aliphatic C9-C28	116.3	93.5	128	30	*	8 (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:** Q1851 **SAS No :** Q1851 **SDG No:** Q1851
Sample No : PB167690BS **Datafile:** FG015735.D
Client ID : PB167690BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	30.0	23.6	79		(40-140)
Aliphatic C9-C28	99.9	76.0	77		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** G Environmental
Lab Code: CHEM **Cas No:** Q1851 **SAS No :** Q1851 **SDG No:** Q1851
Sample No : PB167690BSD **Datafile:** FG015736.D
Client ID : PB167690BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	30.0	22.7	76		3.9 (40-140)	50
Aliphatic C9-C28	99.9	67.6	68		12.1 (40-140)	50

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167690BL

Lab Name: CHEMTECH

Contract: GENV01

Lab Code: CHEM Case No.: Q1851

SAS No.: Q1851 SDG NO.: Q1851

Instrument ID: FID_E

Lab Sample ID: PB167690BL

Matrix: (soil/water) Solid

Date Extracted: 4/22/2025 9:40:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB167690BS	PB167690BS
PB167690BSD	PB167690BSD
ETGI-275MS	Q1848-03MS
ETGI-275MSD	Q1848-03MSD
DP5	Q1851-01
DP6	Q1851-02
DP7	Q1851-03
DP8	Q1851-04

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	04/21/25
Project:	Stockton	Date Received:	04/21/25
Client Sample ID:	DP5	SDG No.:	Q1851
Lab Sample ID:	Q1851-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	96.8
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
04/22/25 09:40	04/23/25 0:48	PB167690

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	19.1		1	1.22	2.07	mg/kg	FE053484.D
Aliphatic C9-C28	Aliphatic C9-C28	1.65	J	1	0.94	4.13	mg/kg	FE053484.D
Total AliphaticEPH	Total AliphaticEPH	20.8			2.16	6.20	mg/kg	
Total EPH	Total EPH	20.8			2.16	6.20	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:	04/21/25
Project:	Stockton	Date Received:	04/21/25
Client Sample ID:	DP5	SDG No.:	Q1851
Lab Sample ID:	Q1851-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	96.8
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053484.D	1	04/22/25	04/23/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.65	J	0.94	4.13	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	19.1		1.22	2.07	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	25.1		40 - 140	50%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.3		40 - 140	49%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1851-01	Acq On:	23 Apr 2025 00:48
Client Sample ID:	DP5	Operator:	YP\AJ
Data file:	FE053484.D	Misc:	
Instrument:	FID_E	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.123	6.764	455546	3.288	300	ug/ml
Aliphatic C12-C16	6.765	10.214	714689	5.04	200	ug/ml
Aliphatic C16-C21	10.215	13.590	787474	5.417	300	ug/ml
Aliphatic C21-C28	13.591	17.259	1457129	10.249	400	ug/ml
Aliphatic C28-C40	17.260	22.156	35893335	278.137	600	ug/ml
Aliphatic EPH	3.123	22.156	39308173	302.131		ug/ml
ortho-Terphenyl (SURR)	11.874	11.874	4388306	24.33		ug/ml
1-chlorooctadecane (SURR)	13.318	13.318	3399308	25.15		ug/ml
Aliphatic C9-C28	3.123	17.259	3414838	23.994	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053484.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 00:48
Operator : YP\AJ
Sample : Q1851-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
DP5

Integration File: autoint1.e
Quant Time: Apr 23 02:56:22 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)	11.874	4388306	24.331 ug/ml
Spiked Amount	50.000	Recovery	= 48.66%
12) S 1-chlorooctadecane (S...	13.318	3399308	25.147 ug/ml
Spiked Amount	50.000	Recovery	= 50.29%

Target Compounds

(f)=RT Delta > 1/2 Window

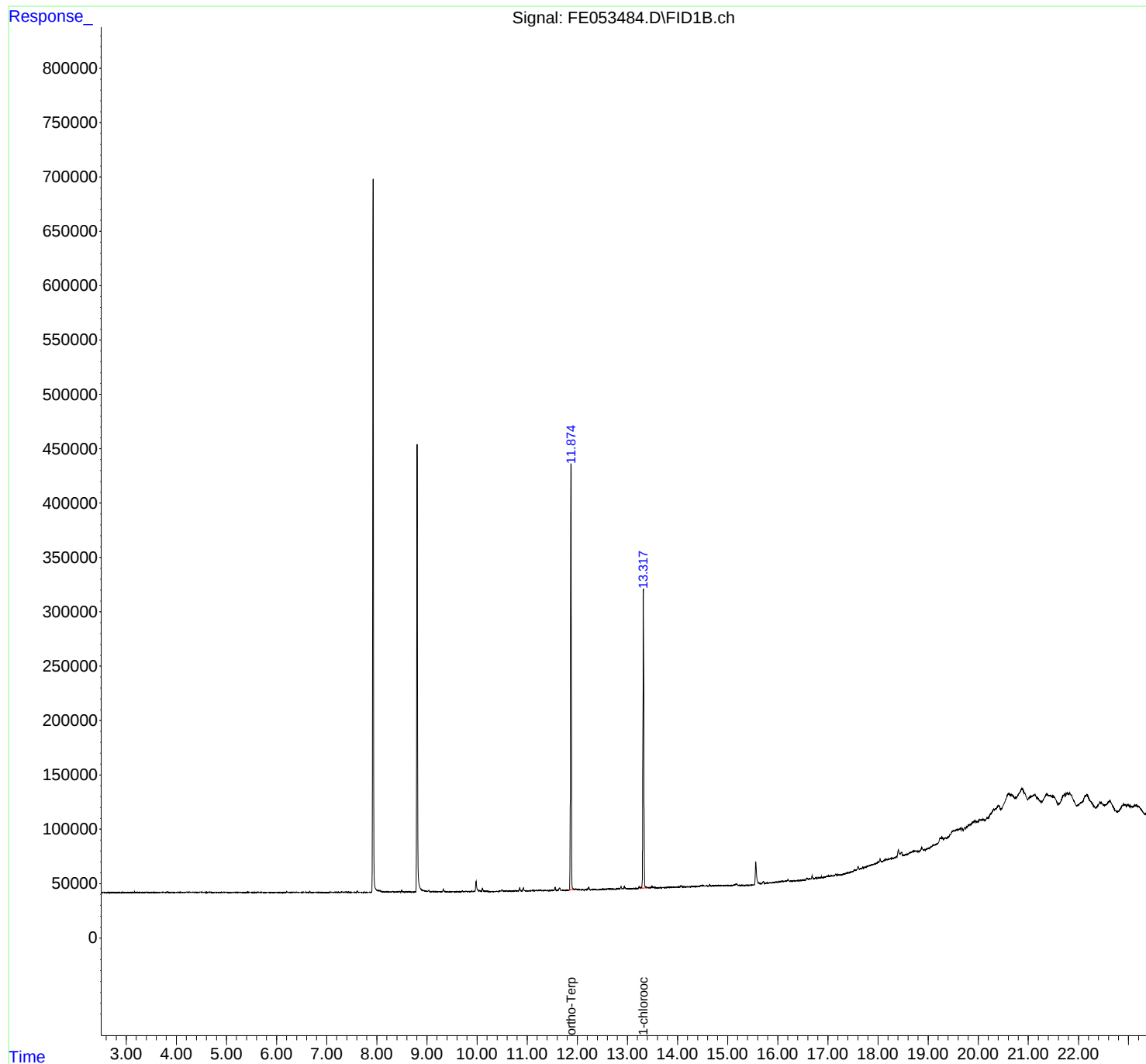
(m)=manual int.

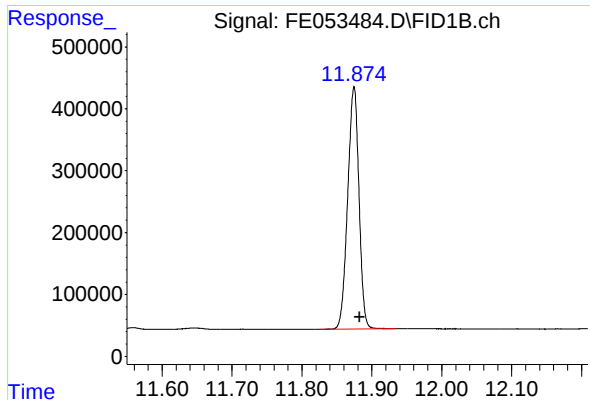
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053484.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 00:48
Operator : YP\AJ
Sample : Q1851-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
DP5

Integration File: autoint1.e
Quant Time: Apr 23 02:56:22 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

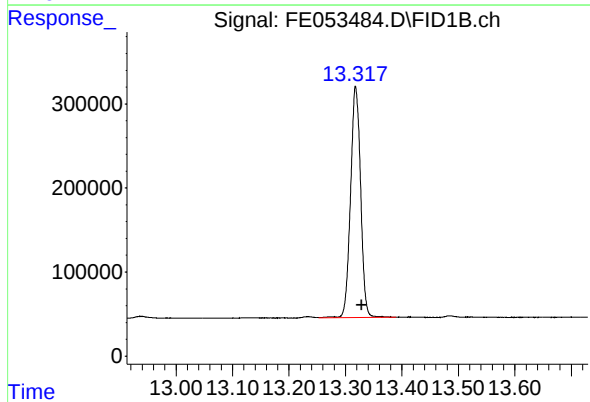




#9 ortho-Terphenyl (SURR)

R.T.: 11.874 min
Delta R.T.: -0.009 min
Response: 4388306
Conc: 24.33 ug/ml

Instrument :
FID_E
ClientSampleId :
DP5



#12 1-chlorooctadecane (SURR)

R.T.: 13.318 min
Delta R.T.: -0.010 min
Response: 3399308
Conc: 25.15 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
 Data File : FE053484.D
 Signal(s) : FID1B.ch
 Acq On : 23 Apr 2025 00:48
 Sample : Q1851-01
 Misc :
 ALS Vial : 31 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	2.857	2.805	2.896	BV	99	2320	0.05%	0.005%
2	2.916	2.896	2.939	VV	239	2940	0.06%	0.006%
3	2.952	2.939	3.017	VV	130	2968	0.06%	0.006%
4	3.048	3.017	3.081	VV	151	4005	0.09%	0.008%
5	3.088	3.081	3.095	VV	145	885	0.02%	0.002%
6	3.116	3.095	3.133	VV	209	3083	0.07%	0.006%
7	3.145	3.133	3.154	VV	179	1820	0.04%	0.004%
8	3.163	3.154	3.198	VV	307	4003	0.09%	0.008%
9	3.222	3.198	3.268	VV	357	7995	0.17%	0.016%
10	3.286	3.268	3.304	VV	196	3204	0.07%	0.007%
11	3.317	3.304	3.349	VV	179	3546	0.08%	0.007%
12	3.415	3.349	3.443	VV	260	10555	0.23%	0.021%
13	3.474	3.443	3.501	VV	215	6026	0.13%	0.012%
14	3.506	3.501	3.513	VV	174	1068	0.02%	0.002%
15	3.553	3.513	3.625	VV	220	12281	0.27%	0.025%
16	3.631	3.625	3.637	VV	210	1530	0.03%	0.003%
17	3.645	3.637	3.663	VV	279	3148	0.07%	0.006%
18	3.677	3.663	3.694	VV	296	4346	0.09%	0.009%
19	3.708	3.694	3.751	VV	433	9720	0.21%	0.020%
20	3.824	3.751	3.885	VV	416	20658	0.45%	0.042%
21	3.909	3.885	3.965	VV	498	11714	0.25%	0.024%
22	3.979	3.965	3.995	VV	191	3309	0.07%	0.007%
23	4.018	3.995	4.035	VV	405	6345	0.14%	0.013%
24	4.057	4.035	4.111	VV	374	12438	0.27%	0.025%
25	4.127	4.111	4.182	VV	288	8780	0.19%	0.018%
26	4.204	4.182	4.241	VV	541	11083	0.24%	0.023%
27	4.257	4.241	4.269	VV	309	4347	0.09%	0.009%
28	4.276	4.269	4.305	VV	248	5199	0.11%	0.011%
29	4.314	4.305	4.365	VV	316	8018	0.17%	0.016%
30	4.379	4.365	4.408	VV	261	5655	0.12%	0.011%
31	4.415	4.408	4.451	VV	258	5601	0.12%	0.011%
32	4.483	4.451	4.509	VV	772	12507	0.27%	0.025%
33	4.520	4.509	4.575	VV	324	9133	0.20%	0.019%
34	4.605	4.575	4.623	VV	283	6117	0.13%	0.012%
35	4.656	4.623	4.705	VV	389	11401	0.25%	0.023%
36	4.710	4.705	4.750	VV	248	4857	0.11%	0.010%

					rteres			
37	4.766	4.750	4.787	VV	240	4463	0.10%	0.009%
38	4.800	4.787	4.830	VV	253	5073	0.11%	0.010%
39	4.840	4.830	4.868	VV	178	4201	0.09%	0.009%
40	4.902	4.868	4.925	VV	428	8988	0.20%	0.018%
41	4.956	4.925	5.041	VV	337	16708	0.36%	0.034%
42	5.064	5.041	5.091	VV	252	5445	0.12%	0.011%
43	5.100	5.091	5.109	VV	200	1769	0.04%	0.004%
44	5.147	5.109	5.175	VV	294	7984	0.17%	0.016%
45	5.196	5.175	5.218	VV	294	5494	0.12%	0.011%
46	5.239	5.218	5.258	VV	231	4590	0.10%	0.009%
47	5.275	5.258	5.378	VV	264	11394	0.25%	0.023%
48	5.382	5.378	5.411	VV	149	2431	0.05%	0.005%
49	5.437	5.411	5.525	VV	403	14704	0.32%	0.030%
50	5.531	5.525	5.541	VV	136	1162	0.03%	0.002%
51	5.555	5.541	5.605	VV	189	4566	0.10%	0.009%
52	5.627	5.605	5.678	VV	697	12907	0.28%	0.026%
53	5.700	5.678	5.769	VV	279	10521	0.23%	0.021%
54	5.781	5.769	5.795	VV	260	2856	0.06%	0.006%
55	5.802	5.795	5.815	VV	223	2454	0.05%	0.005%
56	5.821	5.815	5.899	VV	213	7632	0.17%	0.016%
57	5.921	5.899	5.931	VV	226	3164	0.07%	0.006%
58	5.939	5.931	5.963	VV	206	3049	0.07%	0.006%
59	5.980	5.963	5.995	VV	247	3051	0.07%	0.006%
60	6.012	5.995	6.051	VV	275	5730	0.12%	0.012%
61	6.066	6.051	6.131	VV	153	5030	0.11%	0.010%
62	6.147	6.131	6.175	VV	136	2275	0.05%	0.005%
63	6.202	6.175	6.275	PV	793	19936	0.43%	0.041%
64	6.303	6.275	6.321	VV	239	4627	0.10%	0.009%
65	6.373	6.321	6.446	VV	467	16675	0.36%	0.034%
66	6.455	6.446	6.481	VV	163	3557	0.08%	0.007%
67	6.511	6.481	6.633	VV	374	17220	0.37%	0.035%
68	6.662	6.633	6.732	VV	760	13401	0.29%	0.027%
69	6.760	6.732	6.801	VV	210	6085	0.13%	0.012%
70	6.815	6.801	6.838	VV	256	4376	0.10%	0.009%
71	6.847	6.838	6.879	VV	183	2744	0.06%	0.006%
72	6.887	6.879	6.898	VV	59	481	0.01%	0.001%
73	6.943	6.898	6.968	VV	145	2546	0.06%	0.005%
74	6.979	6.968	7.011	VV	91	1506	0.03%	0.003%
75	7.016	7.011	7.053	VV	129	1574	0.03%	0.003%
76	7.072	7.053	7.105	VV	369	5898	0.13%	0.012%
77	7.109	7.105	7.115	VV	128	627	0.01%	0.001%
78	7.131	7.115	7.180	VV	176	5098	0.11%	0.010%
79	7.190	7.180	7.221	VV	246	4819	0.10%	0.010%
80	7.238	7.221	7.267	VV	234	3899	0.08%	0.008%
81	7.303	7.267	7.331	VV	776	14884	0.32%	0.030%
82	7.342	7.331	7.368	VV	403	5597	0.12%	0.011%
83	7.385	7.368	7.418	VV	440	8040	0.17%	0.016%
84	7.438	7.418	7.465	VV	526	7772	0.17%	0.016%
85	7.488	7.465	7.535	VV	177	4567	0.10%	0.009%
86	7.555	7.535	7.569	VV	144	2030	0.04%	0.004%
87	7.613	7.569	7.669	VV	1309	18702	0.41%	0.038%
88	7.682	7.669	7.717	VV	100	1699	0.04%	0.003%
89	7.744	7.717	7.765	VV	129	2398	0.05%	0.005%

					rteres			
90	7.786	7.765	7.821	VV	183	3263	0.07%	0.007%
91	8.039	8.028	8.125	VV	1777	63999	1.39%	0.130%
92	8.142	8.125	8.165	VV	580	11574	0.25%	0.024%
93	8.196	8.165	8.275	VV	597	26754	0.58%	0.054%
94	8.315	8.275	8.346	VV	1032	20178	0.44%	0.041%
95	8.364	8.346	8.385	VV	284	4888	0.11%	0.010%
96	8.396	8.385	8.403	VV	248	2407	0.05%	0.005%
97	8.421	8.403	8.435	VV	564	7808	0.17%	0.016%
98	8.455	8.435	8.476	VV	595	11924	0.26%	0.024%
99	8.498	8.476	8.571	VV	1995	34760	0.76%	0.071%
100	8.605	8.571	8.630	VV	417	11149	0.24%	0.023%
101	8.649	8.630	8.678	VV	420	7367	0.16%	0.015%
102	8.689	8.678	8.715	VV	152	2139	0.05%	0.004%
103	8.739	8.715	8.771	VV	173	2887	0.06%	0.006%
104	9.039	9.008	9.071	VV	1650	33250	0.72%	0.068%
105	9.091	9.071	9.108	VV	448	8932	0.19%	0.018%
106	9.114	9.108	9.134	VV	408	5283	0.11%	0.011%
107	9.153	9.134	9.175	VV	372	7629	0.17%	0.016%
108	9.185	9.175	9.221	VV	373	7864	0.17%	0.016%
109	9.243	9.221	9.294	VV	334	11509	0.25%	0.023%
110	9.328	9.294	9.391	VV	2380	38486	0.84%	0.078%
111	9.413	9.391	9.438	VV	291	4612	0.10%	0.009%
112	9.471	9.438	9.494	VV	155	3633	0.08%	0.007%
113	9.524	9.494	9.597	VV	288	9084	0.20%	0.018%
114	9.615	9.597	9.678	VV	264	5525	0.12%	0.011%
115	9.708	9.678	9.736	PV	672	11937	0.26%	0.024%
116	9.745	9.736	9.758	VV	198	2007	0.04%	0.004%
117	9.789	9.758	9.813	VV	532	9526	0.21%	0.019%
118	9.837	9.813	9.855	VV	396	5566	0.12%	0.011%
119	9.889	9.855	9.917	VV	366	7670	0.17%	0.016%
120	9.941	9.917	9.957	VV	478	5960	0.13%	0.012%
121	9.981	9.957	10.087	VV	9519	176827	3.84%	0.359%
122	10.111	10.087	10.167	VV	2944	44779	0.97%	0.091%
123	10.182	10.167	10.197	VV	272	4256	0.09%	0.009%
124	10.215	10.197	10.254	VV	308	5717	0.12%	0.012%
125	10.282	10.254	10.335	VV	137	3975	0.09%	0.008%
126	10.341	10.335	10.363	VV	75	789	0.02%	0.002%
127	10.389	10.363	10.420	PV	122	2060	0.04%	0.004%
128	10.453	10.420	10.474	VV	637	10329	0.22%	0.021%
129	10.500	10.474	10.530	VV	1671	26310	0.57%	0.053%
130	10.554	10.530	10.570	VV	444	7399	0.16%	0.015%
131	10.589	10.570	10.612	VV	462	7363	0.16%	0.015%
132	10.645	10.612	10.679	VV	533	9111	0.20%	0.019%
133	10.692	10.679	10.724	VV	190	3245	0.07%	0.007%
134	10.780	10.724	10.807	VV	414	12127	0.26%	0.025%
135	10.853	10.807	10.891	VV	3137	46167	1.00%	0.094%
136	10.924	10.891	11.001	VV	2996	52354	1.14%	0.106%
137	11.015	11.001	11.034	VV	83	1191	0.03%	0.002%
138	11.085	11.034	11.097	VV	321	6672	0.14%	0.014%
139	11.118	11.097	11.153	VV	597	11100	0.24%	0.023%
140	11.188	11.153	11.211	VV	558	12294	0.27%	0.025%
141	11.241	11.211	11.266	VV	581	14155	0.31%	0.029%

					rteres			
142	11.273	11.266	11.292	VV	320	3211	0.07%	0.007%
143	11.308	11.292	11.345	VV	359	6330	0.14%	0.013%
144	11.361	11.345	11.384	VV	276	2890	0.06%	0.006%
145	11.416	11.384	11.436	VV	231	4487	0.10%	0.009%
146	11.452	11.436	11.468	VV	193	2362	0.05%	0.005%
147	11.489	11.468	11.515	VV	453	7450	0.16%	0.015%
148	11.558	11.515	11.610	VV	3035	43346	0.94%	0.088%
149	11.646	11.610	11.693	VV	2269	43264	0.94%	0.088%
150	11.714	11.693	11.735	VV	327	3940	0.09%	0.008%
151	11.752	11.735	11.789	VV	277	3432	0.07%	0.007%
152	11.799	11.789	11.805	PV	152	666	0.01%	0.001%
153	11.874	11.805	11.934	VV	392323	4418715	96.02%	8.982%
154	11.951	11.934	11.964	VV	1063	16995	0.37%	0.035%
155	11.977	11.964	12.003	VV	1035	19778	0.43%	0.040%
156	12.011	12.003	12.038	VV	598	10852	0.24%	0.022%
157	12.048	12.038	12.058	VV	496	5389	0.12%	0.011%
158	12.064	12.058	12.085	VV	404	5880	0.13%	0.012%
159	12.108	12.085	12.147	VV	498	9354	0.20%	0.019%
160	12.168	12.147	12.186	VV	416	6368	0.14%	0.013%
161	12.229	12.186	12.262	VV	2638	46947	1.02%	0.095%
162	12.320	12.262	12.361	VV	621	16961	0.37%	0.034%
163	12.370	12.361	12.410	VV	152	2912	0.06%	0.006%
164	12.449	12.410	12.472	PV	246	5605	0.12%	0.011%
165	12.510	12.472	12.532	VV	473	10577	0.23%	0.022%
166	12.553	12.532	12.568	VV	387	6527	0.14%	0.013%
167	12.590	12.568	12.602	VV	335	6274	0.14%	0.013%
168	12.645	12.602	12.666	VV	653	14891	0.32%	0.030%
169	12.688	12.666	12.764	VV	391	13091	0.28%	0.027%
170	12.810	12.764	12.837	PV	545	14848	0.32%	0.030%
171	12.872	12.837	12.915	VV	2519	39269	0.85%	0.080%
172	12.938	12.915	12.974	VV	2308	38963	0.85%	0.079%
173	12.983	12.974	13.008	VV	306	4743	0.10%	0.010%
174	13.021	13.008	13.060	VV	179	3059	0.07%	0.006%
175	13.128	13.060	13.151	VV	451	9080	0.20%	0.018%
176	13.165	13.151	13.175	VV	122	1850	0.04%	0.004%
177	13.193	13.175	13.211	VV	199	1949	0.04%	0.004%
178	13.233	13.211	13.253	PV	1614	21462	0.47%	0.044%
179	13.274	13.253	13.283	VV	1367	18259	0.40%	0.037%
180	13.318	13.283	13.403	VV	275317	3429917	74.53%	6.972%
181	13.415	13.403	13.461	VV	954	23411	0.51%	0.048%
182	13.485	13.461	13.508	VV	2216	33349	0.72%	0.068%
183	13.521	13.508	13.550	VV	759	15885	0.35%	0.032%
184	13.560	13.550	13.590	VV	537	9210	0.20%	0.019%
185	13.620	13.590	13.635	VV	341	8445	0.18%	0.017%
186	13.654	13.635	13.673	VV	384	7363	0.16%	0.015%
187	13.703	13.673	13.734	VV	512	13567	0.29%	0.028%
188	13.760	13.734	13.771	VV	331	6663	0.14%	0.014%
189	13.832	13.771	13.853	VV	559	19727	0.43%	0.040%
190	13.930	13.853	13.958	VV	541	25750	0.56%	0.052%
191	13.979	13.958	13.998	VV	558	11962	0.26%	0.024%
192	14.023	13.998	14.043	VV	700	14602	0.32%	0.030%
193	14.072	14.043	14.095	VV	1736	29061	0.63%	0.059%
194	14.105	14.095	14.135	VV	589	11713	0.25%	0.024%

					rteres			
195	14.149	14.135	14.159	VV	449	5893	0.13%	0.012%
196	14.168	14.159	14.193	VV	452	7197	0.16%	0.015%
197	14.231	14.193	14.256	VV	418	12583	0.27%	0.026%
198	14.293	14.256	14.328	VV	746	21671	0.47%	0.044%
199	14.467	14.328	14.490	VV	1383	56551	1.23%	0.115%
200	14.511	14.490	14.553	VV	1196	33560	0.73%	0.068%
201	14.578	14.553	14.610	VV	1115	26119	0.57%	0.053%
202	14.637	14.610	14.716	VV	1628	53374	1.16%	0.108%
203	14.749	14.716	14.789	VV	867	32106	0.70%	0.065%
204	14.810	14.789	14.838	VV	857	20369	0.44%	0.041%
205	14.887	14.838	14.908	VV	755	25379	0.55%	0.052%
206	14.918	14.908	14.976	VV	595	17807	0.39%	0.036%
207	15.023	14.976	15.063	VV	735	24868	0.54%	0.051%
208	15.177	15.063	15.206	VV	1766	71046	1.54%	0.144%
209	15.224	15.206	15.261	VV	607	10796	0.23%	0.022%
210	15.285	15.261	15.301	VV	232	4638	0.10%	0.009%
211	15.324	15.301	15.347	VV	155	2712	0.06%	0.006%
212	15.371	15.347	15.398	PV	289	3846	0.08%	0.008%
213	15.437	15.398	15.448	PV	33	1248	0.03%	0.003%
214	15.560	15.448	15.671	PV	20698	389318	8.46%	0.791%
215	15.712	15.671	15.738	VV	1995	46143	1.00%	0.094%
216	15.766	15.738	15.778	VV	596	11583	0.25%	0.024%
217	15.782	15.778	15.788	VV	601	2971	0.06%	0.006%
218	15.802	15.788	15.810	VV	555	6422	0.14%	0.013%
219	15.835	15.810	15.853	VV	547	12228	0.27%	0.025%
220	16.082	15.853	16.111	VV	1260	104148	2.26%	0.212%
221	16.203	16.111	16.244	VV	1882	71674	1.56%	0.146%
222	16.262	16.244	16.290	VV	462	10503	0.23%	0.021%
223	16.333	16.290	16.358	VV	365	10605	0.23%	0.022%
224	16.398	16.358	16.421	VV	304	8595	0.19%	0.017%
225	16.580	16.421	16.621	PV	1434	33713	0.73%	0.069%
226	16.643	16.621	16.660	VV	439	7937	0.17%	0.016%
227	16.687	16.660	16.738	VV	2750	46496	1.01%	0.095%
228	16.767	16.738	16.795	VV	753	13417	0.29%	0.027%
229	16.841	16.795	16.862	PV	408	12514	0.27%	0.025%
230	16.899	16.862	16.911	VV	204	6113	0.13%	0.012%
231	17.009	16.911	17.037	VV	1031	24855	0.54%	0.051%
232	17.071	17.037	17.104	VV	739	15638	0.34%	0.032%
233	17.155	17.104	17.180	VV	1550	26629	0.58%	0.054%
234	17.200	17.180	17.225	VV	873	12503	0.27%	0.025%
235	17.239	17.225	17.251	VV	233	2508	0.05%	0.005%
236	17.395	17.251	17.418	PV	431	10780	0.23%	0.022%
237	17.527	17.418	17.537	PV	1126	29532	0.64%	0.060%
238	17.603	17.537	17.628	VV	3701	91019	1.98%	0.185%
239	18.006	17.628	18.017	VV	3139	398862	8.67%	0.811%
240	18.043	18.017	18.072	VV	4708	112925	2.45%	0.230%
241	18.138	18.072	18.155	VV	3706	137812	2.99%	0.280%
242	18.176	18.155	18.185	VV	3231	57715	1.25%	0.117%
243	18.285	18.185	18.302	VV	3109	217103	4.72%	0.441%
244	18.363	18.302	18.378	VV	3582	141804	3.08%	0.288%
245	18.406	18.378	18.441	VV	9188	241201	5.24%	0.490%
246	18.465	18.441	18.511	VV	6432	195323	4.24%	0.397%

					rteres			
247	18.555	18.511	18.570	VV	3172	105533	2.29%	0.215%
248	18.705	18.570	18.713	VV	4401	309024	6.72%	0.628%
249	18.736	18.713	18.757	VV	4364	109277	2.37%	0.222%
250	18.771	18.757	18.801	VV	3748	89642	1.95%	0.182%
251	18.825	18.801	18.833	VV	3000	56382	1.23%	0.115%
252	18.875	18.833	18.912	VV	5906	189720	4.12%	0.386%
253	18.931	18.912	18.943	VV	3100	53592	1.16%	0.109%
254	19.122	18.943	19.137	VV	5220	451771	9.82%	0.918%
255	19.236	19.137	19.261	VV	10249	514177	11.17%	1.045%
256	19.278	19.261	19.311	VV	10529	280249	6.09%	0.570%
257	19.357	19.311	19.371	VV	8757	308365	6.70%	0.627%
258	19.508	19.371	19.521	VV	13405	984026	21.38%	2.000%
259	19.581	19.521	19.600	VV	13960	641105	13.93%	1.303%
260	19.657	19.600	19.678	VV	14521	636243	13.83%	1.293%
261	19.689	19.678	19.708	VV	12774	219185	4.76%	0.446%
262	19.730	19.708	19.749	VV	13835	318493	6.92%	0.647%
263	19.832	19.749	19.851	VV	15265	889198	19.32%	1.808%
264	19.933	19.851	19.965	VV	17451	1117921	24.29%	2.272%
265	19.986	19.965	19.998	VV	16169	311591	6.77%	0.633%
266	20.022	19.998	20.073	VV	17176	757738	16.47%	1.540%
267	20.097	20.073	20.134	VV	16757	590765	12.84%	1.201%
268	20.308	20.134	20.320	VV	23503	2127988	46.24%	4.326%
269	20.341	20.320	20.351	VV	23705	434431	9.44%	0.883%
270	20.407	20.351	20.448	VV	25746	1412160	30.69%	2.871%
271	20.618	20.448	20.648	VV	34043	3440810	74.77%	6.994%
272	20.669	20.648	20.741	VV	32549	1715649	37.28%	3.488%
273	20.876	20.741	20.990	VV	35731	4601908	100.00%	9.355%
274	21.030	20.990	21.041	VV	26005	765354	16.63%	1.556%
275	21.123	21.041	21.255	VV	26631	3085837	67.06%	6.273%
276	21.375	21.255	21.411	VV	24295	2051760	44.58%	4.171%
277	21.421	21.411	21.428	VV	22701	234405	5.09%	0.476%
278	21.438	21.428	21.478	VV	22606	646926	14.06%	1.315%
279	21.495	21.478	21.508	VV	21069	373962	8.13%	0.760%
280	21.511	21.508	21.597	VV	20719	887057	19.28%	1.803%
281	21.724	21.597	21.733	VV	19525	1323215	28.75%	2.690%
282	21.764	21.733	21.804	VV	20472	844411	18.35%	1.717%
283	21.828	21.804	21.971	VV	19813	1379389	29.97%	2.804%
284	22.164	21.971	22.351	VV	14140	1820614	39.56%	3.701%
285	22.433	22.351	22.519	PV	3876	200113	4.35%	0.407%

Sum of corrected areas: 49193737

Aliphatic EPH 041725.M Wed Apr 23 03:40:49 2025

Report of Analysis

Client:	G Environmental	Date Collected:	04/21/25
Project:	Stockton	Date Received:	04/21/25
Client Sample ID:	DP6	SDG No.:	Q1851
Lab Sample ID:	Q1851-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	97
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/22/25 09:40	04/23/25 1:18	PB167690

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	11.0		1	1.21	2.06	mg/kg FE053485.D
Aliphatic C9-C28	Aliphatic C9-C28	43.3		1	0.94	4.12	mg/kg FE053485.D
Total AliphaticEPH	Total AliphaticEPH	54.3			2.15	6.18	mg/kg
Total EPH	Total EPH	54.3			2.15	6.18	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:	04/21/25
Project:	Stockton	Date Received:	04/21/25
Client Sample ID:	DP6	SDG No.:	Q1851
Lab Sample ID:	Q1851-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	97
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053485.D	1	04/22/25	04/23/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	43.3		0.94	4.12	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.0		1.21	2.06	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.0		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.8		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1851-02	Acq On:	23 Apr 2025 01:18
Client Sample ID:	DP6	Operator:	YP\AJ
Data file:	FE053485.D	Misc:	
Instrument:	FID_E	ALS Vial:	32
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.123	6.764	438693	3.166	300	ug/ml
Aliphatic C12-C16	6.765	10.214	12666134	89.32	200	ug/ml
Aliphatic C16-C21	10.215	13.590	60536182	416.446	300	ug/ml
Aliphatic C21-C28	13.591	17.259	17335589	121.932	400	ug/ml
Aliphatic C28-C40	17.260	22.156	20711571	160.494	600	ug/ml
Aliphatic EPH	3.123	22.156	111688169	791.358		ug/ml
ortho-Terphenyl (SURR)	11.876	11.876	6816047	37.79		ug/ml
1-chlorooctadecane (SURR)	13.320	13.320	4994683	36.95		ug/ml
Aliphatic C9-C28	3.123	17.259	90976598	630.864	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053485.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 01:18
Operator : YP\AJ
Sample : Q1851-02
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
DP6

Integration File: autoint1.e
Quant Time: Apr 23 02:56:33 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)	11.876	6816047	37.791 ug/ml
Spiked Amount	50.000	Recovery	= 75.58%
12) S 1-chlorooctadecane (S...	13.320	4994683	36.950 ug/ml
Spiked Amount	50.000	Recovery	= 73.90%

Target Compounds

(f)=RT Delta > 1/2 Window

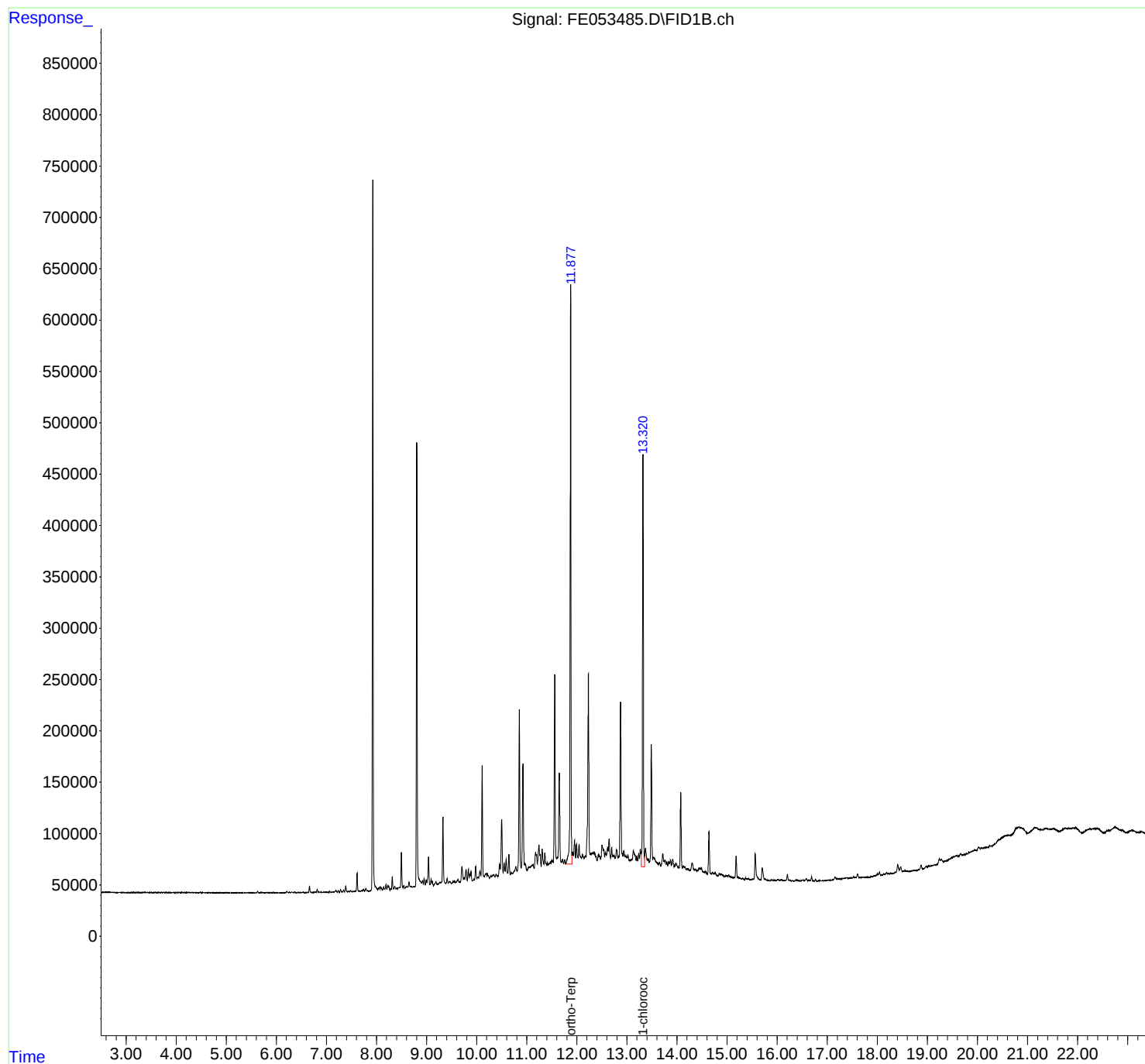
(m)=manual int.

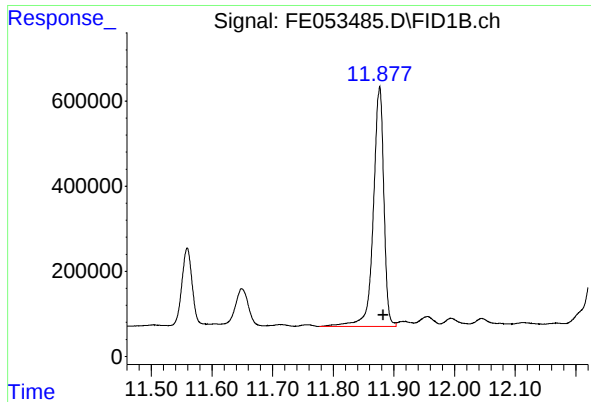
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053485.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 01:18
Operator : YP\AJ
Sample : Q1851-02
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
DP6

Integration File: autoint1.e
Quant Time: Apr 23 02:56:33 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

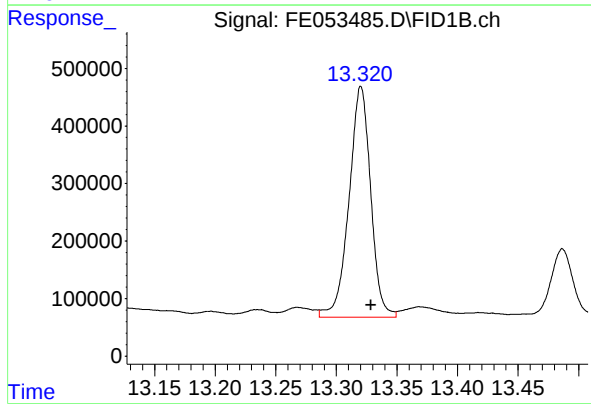




#9 ortho-Terphenyl (SURR)

R.T.: 11.876 min
Delta R.T.: -0.007 min
Response: 6816047
Conc: 37.79 ug/ml

Instrument :
FID_E
ClientSampleId :
DP6



#12 1-chlorooctadecane (SURR)

R.T.: 13.320 min
Delta R.T.: -0.008 min
Response: 4994683
Conc: 36.95 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053485.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 01:18
Sample : Q1851-02
Misc :
ALS Vial : 32 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	2.857	2.804	2.928	BV	152	3577	0.04%	0.003%
2	2.936	2.928	2.951	PV	38	581	0.01%	0.000%
3	2.963	2.951	3.005	VV	93	1588	0.02%	0.001%
4	3.035	3.005	3.048	VV	86	1184	0.01%	0.001%
5	3.061	3.048	3.085	VV	112	1722	0.02%	0.001%
6	3.130	3.085	3.188	PV	152	6464	0.07%	0.005%
7	3.199	3.188	3.204	VV	89	795	0.01%	0.001%
8	3.223	3.204	3.251	VV	250	4185	0.05%	0.003%
9	3.264	3.251	3.282	VV	80	1263	0.01%	0.001%
10	3.295	3.282	3.308	VV	115	889	0.01%	0.001%
11	3.315	3.308	3.341	VV	85	1240	0.01%	0.001%
12	3.372	3.341	3.392	VV	128	2852	0.03%	0.002%
13	3.411	3.392	3.518	VV	182	8614	0.09%	0.007%
14	3.528	3.518	3.644	VV	129	8911	0.10%	0.007%
15	3.668	3.644	3.688	VV	181	4012	0.04%	0.003%
16	3.706	3.688	3.773	VV	358	9150	0.10%	0.007%
17	3.821	3.773	3.884	VV	210	10332	0.11%	0.008%
18	3.908	3.884	3.929	VV	318	4586	0.05%	0.004%
19	3.946	3.929	3.998	VV	116	4683	0.05%	0.004%
20	4.052	3.998	4.108	VV	378	14973	0.16%	0.012%
21	4.127	4.108	4.154	VV	239	4631	0.05%	0.004%
22	4.207	4.154	4.402	VV	231	22079	0.24%	0.017%
23	4.482	4.402	4.534	VV	563	13290	0.15%	0.010%
24	4.548	4.534	4.578	VV	177	3300	0.04%	0.003%
25	4.605	4.578	4.625	VV	186	3460	0.04%	0.003%
26	4.655	4.625	4.751	VV	325	9260	0.10%	0.007%
27	4.767	4.751	4.868	VV	240	7471	0.08%	0.006%
28	4.905	4.868	5.041	VV	151	10131	0.11%	0.008%
29	5.062	5.041	5.114	VV	84	2217	0.02%	0.002%
30	5.157	5.114	5.181	VV	201	5120	0.06%	0.004%
31	5.195	5.181	5.218	VV	187	2587	0.03%	0.002%
32	5.238	5.218	5.280	VV	234	4486	0.05%	0.003%
33	5.305	5.280	5.361	VV	262	4620	0.05%	0.004%
34	5.437	5.361	5.604	PV	389	16520	0.18%	0.013%
35	5.626	5.604	5.660	PV	1628	20370	0.22%	0.016%
36	5.699	5.660	5.798	VV	372	21336	0.23%	0.017%

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37	5.824	5.798	5.867	VV	370	10076	0.11%	0.008%
38	5.888	5.867	5.905	VV	269	4105	0.05%	0.003%
39	5.930	5.905	5.974	VV	456	9460	0.10%	0.007%
40	5.998	5.974	6.041	VV	181	5651	0.06%	0.004%
41	6.058	6.041	6.088	VV	202	2573	0.03%	0.002%
42	6.105	6.088	6.134	VV	226	2736	0.03%	0.002%
43	6.208	6.134	6.241	PV	961	24153	0.27%	0.019%
44	6.260	6.241	6.281	VV	603	8137	0.09%	0.006%
45	6.305	6.281	6.332	VV	956	13380	0.15%	0.010%
46	6.369	6.332	6.405	VV	1019	16907	0.19%	0.013%
47	6.455	6.405	6.474	VV	320	7886	0.09%	0.006%
48	6.533	6.474	6.568	VV	581	17550	0.19%	0.014%
49	6.608	6.568	6.634	VV	236	6357	0.07%	0.005%
50	6.662	6.634	6.734	PV	6280	75895	0.83%	0.059%
51	6.815	6.734	6.874	VV	3333	61556	0.68%	0.048%
52	6.889	6.874	6.921	VV	597	7731	0.09%	0.006%
53	6.948	6.921	6.974	VV	507	9507	0.10%	0.007%
54	6.992	6.974	7.041	VV	446	10390	0.11%	0.008%
55	7.067	7.041	7.104	VV	662	11231	0.12%	0.009%
56	7.133	7.104	7.151	PV	441	8073	0.09%	0.006%
57	7.191	7.151	7.218	VV	1510	34809	0.38%	0.027%
58	7.237	7.218	7.259	VV	1706	19878	0.22%	0.015%
59	7.283	7.259	7.318	VV	2563	35820	0.39%	0.028%
60	7.341	7.318	7.360	VV	2233	25403	0.28%	0.020%
61	7.386	7.360	7.419	VV	5884	76834	0.84%	0.060%
62	7.438	7.419	7.460	VV	787	11237	0.12%	0.009%
63	7.484	7.460	7.504	PV	1390	16211	0.18%	0.013%
64	7.529	7.504	7.544	VV	455	8034	0.09%	0.006%
65	7.612	7.544	7.682	VV	18042	227073	2.50%	0.177%
66	7.739	7.682	7.761	VV	1711	48612	0.53%	0.038%
67	7.788	7.761	7.854	VV	3367	64727	0.71%	0.050%
68	8.073	8.020	8.118	VV	4622	174203	1.92%	0.136%
69	8.143	8.118	8.163	VV	4324	72049	0.79%	0.056%
70	8.188	8.163	8.207	VV	6162	92973	1.02%	0.072%
71	8.242	8.207	8.269	VV	5070	133927	1.47%	0.104%
72	8.315	8.269	8.341	VV	13666	199811	2.20%	0.156%
73	8.364	8.341	8.388	VV	4479	81504	0.90%	0.063%
74	8.497	8.388	8.528	VV	37434	610897	6.72%	0.476%
75	8.546	8.528	8.568	VV	4896	89252	0.98%	0.069%
76	8.650	8.568	8.728	VV	8391	394228	4.33%	0.307%
77	8.748	8.728	8.766	VV	4134	85581	0.94%	0.067%
78	8.918	8.899	8.934	VV	8989	165837	1.82%	0.129%
79	8.951	8.934	8.973	VV	11571	193109	2.12%	0.150%
80	9.039	8.973	9.068	VV	32510	710852	7.82%	0.553%
81	9.091	9.068	9.140	VV	10614	307577	3.38%	0.239%
82	9.185	9.140	9.231	VV	8122	333131	3.66%	0.259%
83	9.266	9.231	9.286	VV	7642	222679	2.45%	0.173%
84	9.327	9.286	9.380	VV	70915	1105050	12.15%	0.860%
85	9.411	9.380	9.434	VV	11072	260623	2.87%	0.203%
86	9.457	9.434	9.497	VV	8174	261961	2.88%	0.204%
87	9.531	9.497	9.581	VV	8414	369548	4.06%	0.288%
88	9.626	9.581	9.670	VV	9369	420621	4.62%	0.327%
89	9.707	9.670	9.760	VV	21805	699326	7.69%	0.544%

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90	9.787	9.760	9.812	VV	19399	434168	4.77%	0.338%
91	9.835	9.812	9.874	VV	19585	519594	5.71%	0.404%
92	9.887	9.874	9.914	VV	17475	303583	3.34%	0.236%
93	9.980	9.914	10.008	VV	21667	663447	7.29%	0.516%
94	10.024	10.008	10.037	VV	11647	197827	2.17%	0.154%
95	10.065	10.037	10.084	VV	17245	398022	4.38%	0.310%
96	10.110	10.084	10.152	VV	119608	1652524	18.17%	1.286%
97	10.186	10.152	10.258	VV	14852	835104	9.18%	0.650%
98	10.284	10.258	10.301	VV	12774	306211	3.37%	0.238%
99	10.340	10.301	10.364	VV	13699	478192	5.26%	0.372%
100	10.387	10.364	10.411	VV	14213	361126	3.97%	0.281%
101	10.500	10.411	10.530	VV	67486	1902052	20.91%	1.481%
102	10.550	10.530	10.568	VV	24388	450967	4.96%	0.351%
103	10.590	10.568	10.618	VV	28400	619569	6.81%	0.482%
104	10.645	10.618	10.674	VV	32968	694267	7.63%	0.540%
105	10.693	10.674	10.721	VV	15024	403995	4.44%	0.314%
106	10.782	10.721	10.804	VV	20898	863973	9.50%	0.673%
107	10.853	10.804	10.889	VV	174699	2716662	29.87%	2.115%
108	10.925	10.889	11.004	VV	121212	2795602	30.74%	2.176%
109	11.119	11.004	11.146	VV	22276	1732118	19.04%	1.348%
110	11.179	11.146	11.213	VV	33662	1110657	12.21%	0.865%
111	11.244	11.213	11.288	VV	41290	1411693	15.52%	1.099%
112	11.309	11.288	11.341	VV	37455	901007	9.91%	0.701%
113	11.362	11.341	11.398	VV	33713	901300	9.91%	0.702%
114	11.413	11.398	11.438	VV	23432	544469	5.99%	0.424%
115	11.504	11.438	11.528	VV	26189	1313348	14.44%	1.022%
116	11.559	11.528	11.614	VV	205878	3461993	38.06%	2.695%
117	11.650	11.614	11.688	VV	110371	2361069	25.96%	1.838%
118	11.713	11.688	11.737	VV	26671	736255	8.09%	0.573%
119	11.756	11.737	11.778	VV	26325	602382	6.62%	0.469%
120	11.876	11.778	11.934	VV	579246	9095544	100.00%	7.080%
121	11.955	11.934	11.976	VV	45275	939244	10.33%	0.731%
122	11.995	11.976	12.024	VV	41341	966131	10.62%	0.752%
123	12.045	12.024	12.094	VV	40832	1340341	14.74%	1.043%
124	12.115	12.094	12.145	VV	31020	884704	9.73%	0.689%
125	12.231	12.145	12.281	VV	207456	4902778	53.90%	3.817%
126	12.302	12.281	12.324	VV	32649	831948	9.15%	0.648%
127	12.338	12.324	12.403	VV	32780	1421514	15.63%	1.107%
128	12.432	12.403	12.478	VV	31108	1266707	13.93%	0.986%
129	12.507	12.478	12.554	VV	39568	1575823	17.33%	1.227%
130	12.571	12.554	12.586	VV	31659	592920	6.52%	0.462%
131	12.644	12.586	12.674	VV	45739	1841989	20.25%	1.434%
132	12.697	12.674	12.768	VV	37239	1692567	18.61%	1.318%
133	12.795	12.768	12.838	VV	34962	1267777	13.94%	0.987%
134	12.873	12.838	12.917	VV	179770	3249825	35.73%	2.530%
135	12.936	12.917	13.001	VV	33115	1477925	16.25%	1.150%
136	13.019	13.001	13.071	VV	29852	1109556	12.20%	0.864%
137	13.130	13.071	13.181	VV	33667	1860455	20.45%	1.448%
138	13.196	13.181	13.214	VV	28237	520663	5.72%	0.405%
139	13.235	13.214	13.250	VV	31063	591011	6.50%	0.460%
140	13.320	13.250	13.351	VV	421405	6381602	70.16%	4.968%
141	13.370	13.351	13.451	VV	35457	1646181	18.10%	1.281%

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142	13.487	13.451	13.632	VV	136568	3887216	42.74%	3.026%
143	13.650	13.632	13.678	VV	21696	549469	6.04%	0.428%
144	13.716	13.678	13.815	VV	29931	1877051	20.64%	1.461%
145	13.867	13.815	13.889	VV	23513	940845	10.34%	0.732%
146	13.913	13.889	13.949	VV	24625	754560	8.30%	0.587%
147	13.980	13.949	14.041	VV	20529	989726	10.88%	0.770%
148	14.073	14.041	14.109	VV	87279	1573900	17.30%	1.225%
149	14.129	14.109	14.253	VV	17682	1324582	14.56%	1.031%
150	14.302	14.253	14.391	VV	20464	1274282	14.01%	0.992%
151	14.487	14.391	14.608	VV	15796	1654852	18.19%	1.288%
152	14.637	14.608	14.684	VV	50578	964011	10.60%	0.750%
153	14.704	14.684	14.741	VV	10706	335909	3.69%	0.261%
154	14.760	14.741	14.818	VV	10686	404954	4.45%	0.315%
155	14.844	14.818	14.874	VV	9615	293214	3.22%	0.228%
156	14.887	14.874	14.974	VV	9230	454776	5.00%	0.354%
157	14.989	14.974	15.007	VV	7709	136706	1.50%	0.106%
158	15.031	15.007	15.128	VV	7991	453137	4.98%	0.353%
159	15.179	15.128	15.300	VV	26094	774940	8.52%	0.603%
160	15.317	15.300	15.347	VV	4264	105424	1.16%	0.082%
161	15.374	15.347	15.404	VV	4599	132946	1.46%	0.103%
162	15.425	15.404	15.474	VV	3931	140221	1.54%	0.109%
163	15.561	15.474	15.671	VV	27780	786899	8.65%	0.613%
164	15.703	15.671	15.854	VV	14030	465482	5.12%	0.362%
165	15.883	15.854	15.940	VV	2284	95843	1.05%	0.075%
166	15.957	15.940	15.984	VV	1842	42575	0.47%	0.033%
167	16.016	15.984	16.054	VV	2493	84074	0.92%	0.065%
168	16.082	16.054	16.142	VV	2181	88142	0.97%	0.069%
169	16.202	16.142	16.346	VV	6946	213910	2.35%	0.167%
170	16.384	16.346	16.468	VV	1532	74887	0.82%	0.058%
171	16.503	16.468	16.551	VV	1278	53000	0.58%	0.041%
172	16.580	16.551	16.618	VV	2424	58130	0.64%	0.045%
173	16.637	16.618	16.661	VV	812	20667	0.23%	0.016%
174	16.686	16.661	16.744	VV	4132	65754	0.72%	0.051%
175	16.766	16.744	16.801	VV	1473	21299	0.23%	0.017%
176	16.849	16.801	16.891	PV	442	10524	0.12%	0.008%
177	16.912	16.891	16.934	PV	230	3642	0.04%	0.003%
178	16.959	16.934	16.973	PV	165	2615	0.03%	0.002%
179	17.017	16.973	17.051	VV	466	12828	0.14%	0.010%
180	17.077	17.051	17.101	VV	215	4799	0.05%	0.004%
181	17.154	17.101	17.219	PV	2995	84327	0.93%	0.066%
182	17.235	17.219	17.251	VV	595	10687	0.12%	0.008%
183	17.392	17.251	17.428	VV	1396	81898	0.90%	0.064%
184	17.480	17.428	17.501	VV	854	30597	0.34%	0.024%
185	17.531	17.501	17.578	VV	1367	45614	0.50%	0.036%
186	17.604	17.578	17.671	VV	4095	79389	0.87%	0.062%
187	17.721	17.671	17.745	VV	650	16983	0.19%	0.013%
188	17.766	17.745	17.791	VV	310	6140	0.07%	0.005%
189	18.002	17.791	18.018	PV	1891	44258	0.49%	0.034%
190	18.041	18.018	18.071	VV	3282	52428	0.58%	0.041%
191	18.182	18.071	18.243	VV	2111	83502	0.92%	0.065%
192	18.270	18.243	18.298	VV	549	14332	0.16%	0.011%
193	18.406	18.298	18.441	VV	8275	218740	2.40%	0.170%
194	18.465	18.441	18.514	VV	5628	126510	1.39%	0.098%

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195	18.550	18.514	18.572	VV	1754	40979	0.45%	0.032%
196	18.588	18.572	18.641	VV	794	19193	0.21%	0.015%
197	18.872	18.641	18.911	PV	3746	65064	0.72%	0.051%
198	18.976	18.911	18.994	VV	1779	39216	0.43%	0.031%
199	19.235	18.994	19.257	VV	6678	328658	3.61%	0.256%
200	19.277	19.257	19.321	VV	5979	173917	1.91%	0.135%
201	19.572	19.321	19.610	VV	6411	807844	8.88%	0.629%
202	19.662	19.610	19.704	VV	7540	348143	3.83%	0.271%
203	19.948	19.704	19.981	VV	8248	1154268	12.69%	0.899%
204	20.022	19.981	20.061	VV	10213	436340	4.80%	0.340%
205	20.829	20.061	21.008	VV	22111	8212295	90.29%	6.393%
206	21.142	21.008	21.254	VV	18446	2448353	26.92%	1.906%
207	21.370	21.254	21.421	VV	15579	1520007	16.71%	1.183%
208	21.451	21.421	21.468	VV	14291	397709	4.37%	0.310%
209	21.512	21.468	21.644	VV	13932	1303946	14.34%	1.015%
210	21.750	21.644	21.787	VV	12139	969367	10.66%	0.755%
211	21.826	21.787	21.864	VV	11273	512381	5.63%	0.399%
212	21.914	21.864	21.938	VV	10676	464562	5.11%	0.362%
213	21.960	21.938	22.081	VV	10283	668938	7.35%	0.521%
214	22.243	22.081	22.281	VV	6593	675715	7.43%	0.526%
215	22.339	22.281	22.368	VV	5918	307806	3.38%	0.240%
216	22.394	22.368	22.521	VV	5567	302085	3.32%	0.235%
Sum of corrected areas:						128459576		

Aliphatic EPH 041725.M Wed Apr 23 03:41:12 2025

Report of Analysis

Client:	G Environmental	Date Collected:	04/21/25
Project:	Stockton	Date Received:	04/21/25
Client Sample ID:	DP7	SDG No.:	Q1851
Lab Sample ID:	Q1851-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	98.5
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/22/25 09:40	04/23/25 1:48	PB167690

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.34		1	1.20	2.03	mg/kg	FE053486.D
Aliphatic C9-C28	Aliphatic C9-C28	78.6		1	0.92	4.05	mg/kg	FE053486.D
Total AliphaticEPH	Total AliphaticEPH	85.0			2.12	6.08	mg/kg	
Total EPH	Total EPH	85.0			2.12	6.08	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:	04/21/25
Project:	Stockton	Date Received:	04/21/25
Client Sample ID:	DP7	SDG No.:	Q1851
Lab Sample ID:	Q1851-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	98.5
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053486.D	1	04/22/25	04/23/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	78.6		0.92	4.05	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.34		1.20	2.03	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.0		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.3		40 - 140	75%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1851-03	Acq On:	23 Apr 2025 01:48
Client Sample ID:	DP7	Operator:	YP\AJ
Data file:	FE053486.D	Misc:	
Instrument:	FID_E	ALS Vial:	33
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.123	6.764	239933	1.732	300	ug/ml
Aliphatic C12-C16	6.765	10.214	18491005	130.396	200	ug/ml
Aliphatic C16-C21	10.215	13.590	117106571	805.61	300	ug/ml
Aliphatic C21-C28	13.591	17.259	32220221	226.624	400	ug/ml
Aliphatic C28-C40	17.260	22.156	12092476	93.704	600	ug/ml
Aliphatic EPH	3.123	22.156	180150206	1260		ug/ml
ortho-Terphenyl (SURR)	11.876	11.876	6719849	37.26		ug/ml
1-chlorooctadecane (SURR)	13.321	13.321	5006127	37.03		ug/ml
Aliphatic C9-C28	3.123	17.259	168057730	1160	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
 Data File : FE053486.D
 Signal(s) : FID1B.ch
 Acq On : 23 Apr 2025 01:48
 Operator : YP\AJ
 Sample : Q1851-03
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 DP7

Integration File: autoint1.e
 Quant Time: Apr 23 02:56:48 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)	11.876	6719849	37.258 ug/ml
Spiked Amount	50.000	Recovery	= 74.52%
12) S 1-chlorooctadecane (S...	13.321	5006127	37.034 ug/ml
Spiked Amount	50.000	Recovery	= 74.07%

Target Compounds

(f)=RT Delta > 1/2 Window

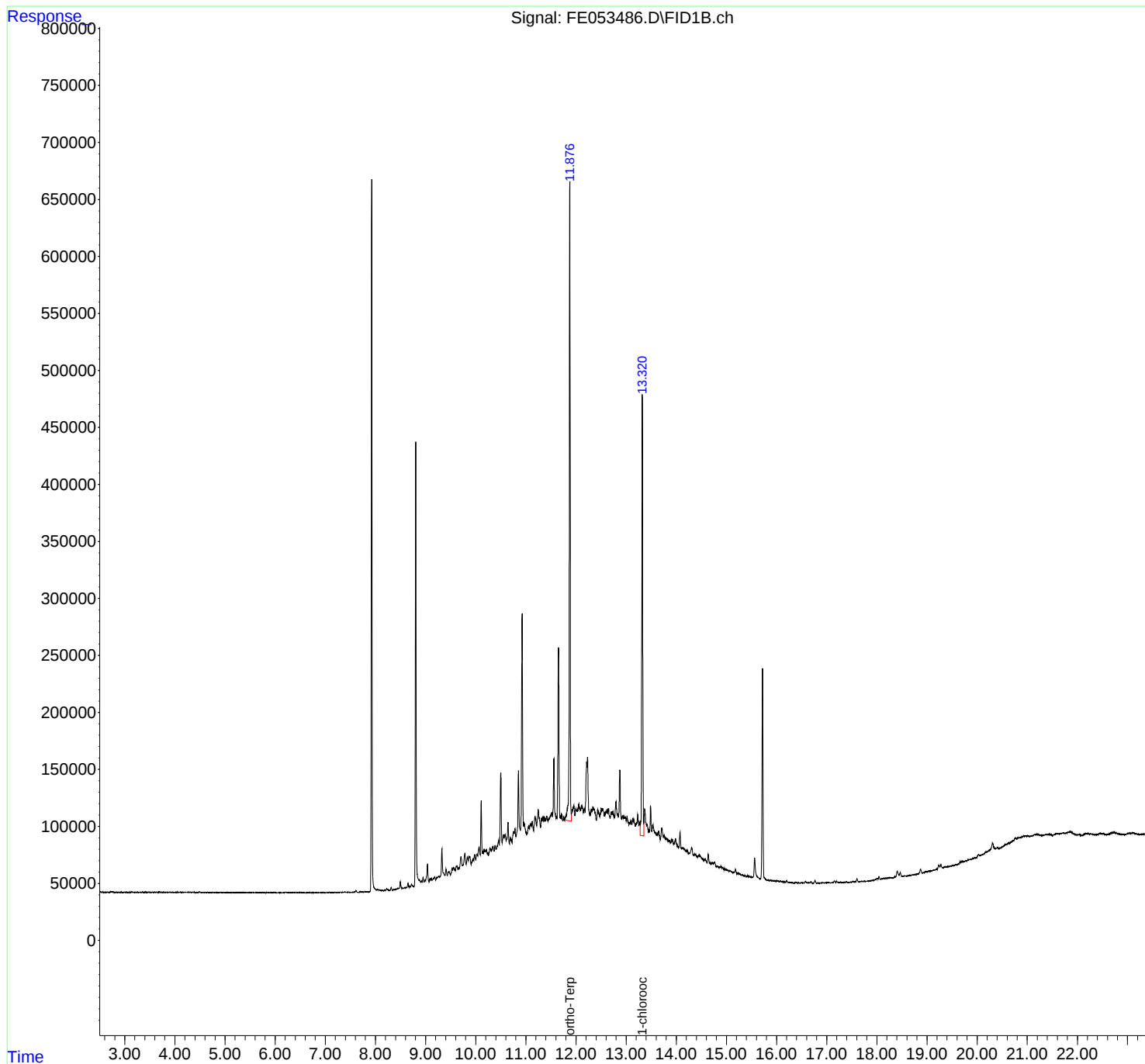
(m)=manual int.

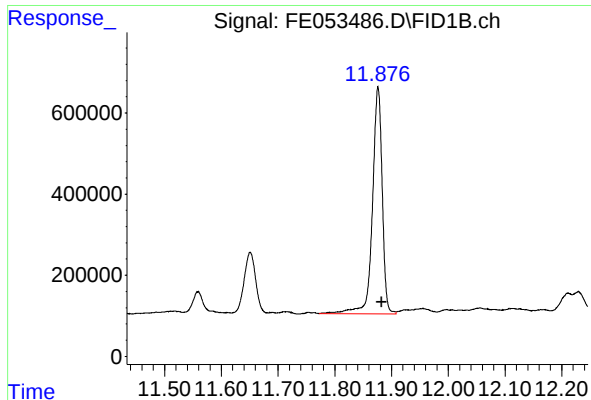
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053486.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 01:48
Operator : YP\AJ
Sample : Q1851-03
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
DP7

Integration File: autoint1.e
Quant Time: Apr 23 02:56:48 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

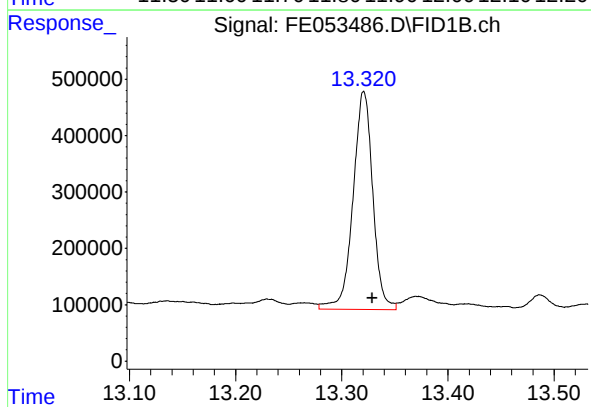




#9 ortho-Terphenyl (SURR)

R.T.: 11.876 min
Delta R.T.: -0.007 min
Response: 6719849
Conc: 37.26 ug/ml

Instrument :
FID_E
ClientSampleId :
DP7



#12 1-chlorooctadecane (SURR)

R.T.: 13.321 min
Delta R.T.: -0.008 min
Response: 5006127
Conc: 37.03 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
 Data File : FE053486.D
 Signal(s) : FID1B.ch
 Acq On : 23 Apr 2025 01:48
 Sample : Q1851-03
 Misc :
 ALS Vial : 33 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	2.838	2.805	2.898	BV	96	2211	0.02%	0.001%
2	2.909	2.898	2.920	PV	65	806	0.01%	0.000%
3	2.937	2.920	2.991	VV	129	2055	0.02%	0.001%
4	3.028	2.991	3.041	VV	76	1351	0.01%	0.001%
5	3.111	3.041	3.191	VV	197	7943	0.07%	0.004%
6	3.216	3.191	3.291	VV	179	4318	0.04%	0.002%
7	3.298	3.291	3.311	VV	71	329	0.00%	0.000%
8	3.323	3.311	3.371	PV	75	2141	0.02%	0.001%
9	3.375	3.371	3.384	VV	129	641	0.01%	0.000%
10	3.410	3.384	3.444	VV	203	4302	0.04%	0.002%
11	3.455	3.444	3.519	VV	177	4651	0.04%	0.002%
12	3.623	3.519	3.634	VV	186	8123	0.07%	0.004%
13	3.642	3.634	3.650	VV	111	840	0.01%	0.000%
14	3.672	3.650	3.686	VV	259	3968	0.03%	0.002%
15	3.706	3.686	3.723	VV	402	5449	0.05%	0.003%
16	3.734	3.723	3.783	VV	138	3594	0.03%	0.002%
17	3.814	3.783	3.874	VV	264	7699	0.07%	0.004%
18	3.909	3.874	3.925	VV	219	4180	0.04%	0.002%
19	3.949	3.925	4.001	VV	169	5228	0.05%	0.003%
20	4.051	4.001	4.072	VV	311	9291	0.08%	0.005%
21	4.084	4.072	4.108	VV	232	3372	0.03%	0.002%
22	4.121	4.108	4.181	VV	223	6887	0.06%	0.003%
23	4.204	4.181	4.230	VV	211	4537	0.04%	0.002%
24	4.251	4.230	4.288	VV	200	5219	0.05%	0.003%
25	4.297	4.288	4.306	VV	156	1468	0.01%	0.001%
26	4.319	4.306	4.335	VV	208	2426	0.02%	0.001%
27	4.344	4.335	4.352	VV	152	1275	0.01%	0.001%
28	4.374	4.352	4.399	VV	194	3913	0.03%	0.002%
29	4.480	4.399	4.531	VV	434	11673	0.10%	0.006%
30	4.564	4.531	4.591	VV	182	4585	0.04%	0.002%
31	4.604	4.591	4.636	VV	185	2831	0.02%	0.001%
32	4.654	4.636	4.695	VV	351	5388	0.05%	0.003%
33	4.704	4.695	4.758	VV	128	3887	0.03%	0.002%
34	4.770	4.758	4.821	VV	186	4613	0.04%	0.002%
35	4.827	4.821	4.878	VV	214	3985	0.03%	0.002%
36	4.905	4.878	4.933	VV	228	4789	0.04%	0.002%

					rteres			
37	4.944	4.933	4.954	VV	128	1418	0.01%	0.001%
38	4.964	4.954	4.995	VV	175	2637	0.02%	0.001%
39	5.000	4.995	5.013	VV	117	880	0.01%	0.000%
40	5.027	5.013	5.048	VV	134	1679	0.01%	0.001%
41	5.056	5.048	5.106	VV	135	3576	0.03%	0.002%
42	5.116	5.106	5.121	PV	127	938	0.01%	0.000%
43	5.148	5.121	5.178	VV	205	4833	0.04%	0.002%
44	5.189	5.178	5.211	VV	130	1693	0.01%	0.001%
45	5.237	5.211	5.281	VV	116	2272	0.02%	0.001%
46	5.320	5.281	5.336	VV	137	2153	0.02%	0.001%
47	5.345	5.336	5.354	VV	84	507	0.00%	0.000%
48	5.368	5.354	5.379	VV	69	777	0.01%	0.000%
49	5.402	5.379	5.412	VV	97	1041	0.01%	0.001%
50	5.437	5.412	5.486	VV	335	7004	0.06%	0.004%
51	5.494	5.486	5.503	VV	133	876	0.01%	0.000%
52	5.509	5.503	5.547	VV	107	1298	0.01%	0.001%
53	5.562	5.547	5.602	PV	59	1113	0.01%	0.001%
54	5.628	5.602	5.693	VV	203	4974	0.04%	0.003%
55	5.704	5.693	5.715	VV	85	1051	0.01%	0.001%
56	5.727	5.715	5.847	VV	134	6443	0.06%	0.003%
57	5.863	5.847	5.880	VV	82	1265	0.01%	0.001%
58	5.895	5.880	5.911	VV	89	1392	0.01%	0.001%
59	5.916	5.911	5.931	VV	88	1220	0.01%	0.001%
60	5.952	5.931	6.076	VV	124	6009	0.05%	0.003%
61	6.083	6.076	6.132	VV	91	2209	0.02%	0.001%
62	6.143	6.132	6.175	VV	49	852	0.01%	0.000%
63	6.203	6.175	6.282	PV	475	13178	0.11%	0.007%
64	6.291	6.282	6.335	VV	142	3166	0.03%	0.002%
65	6.342	6.335	6.352	VV	125	1104	0.01%	0.001%
66	6.375	6.352	6.415	VV	393	6620	0.06%	0.003%
67	6.438	6.415	6.484	VV	148	4348	0.04%	0.002%
68	6.506	6.484	6.620	VV	296	10894	0.09%	0.005%
69	6.662	6.620	6.695	VV	289	4911	0.04%	0.002%
70	6.779	6.695	6.797	VV	145	4779	0.04%	0.002%
71	6.810	6.797	6.851	VV	185	2881	0.02%	0.001%
72	6.874	6.851	6.888	PV	125	1677	0.01%	0.001%
73	6.892	6.888	6.928	VV	133	1241	0.01%	0.001%
74	6.942	6.928	6.991	VV	172	2788	0.02%	0.001%
75	7.006	6.991	7.028	VV	145	1230	0.01%	0.001%
76	7.070	7.028	7.097	PV	355	5948	0.05%	0.003%
77	7.109	7.097	7.118	VV	99	685	0.01%	0.000%
78	7.194	7.118	7.225	VV	220	6995	0.06%	0.004%
79	7.236	7.225	7.261	VV	182	2207	0.02%	0.001%
80	7.288	7.261	7.326	PV	235	5211	0.05%	0.003%
81	7.341	7.326	7.365	VV	314	3613	0.03%	0.002%
82	7.383	7.365	7.413	VV	505	6185	0.05%	0.003%
83	7.446	7.413	7.467	VV	149	2796	0.02%	0.001%
84	7.484	7.467	7.502	VV	259	2542	0.02%	0.001%
85	7.511	7.502	7.526	VV	106	665	0.01%	0.000%
86	7.612	7.526	7.651	PV	1593	24413	0.21%	0.012%
87	7.694	7.651	7.711	VV	149	3301	0.03%	0.002%
88	7.742	7.711	7.761	VV	282	4131	0.04%	0.002%
89	7.786	7.761	7.820	VV	473	8828	0.08%	0.004%

					rteres			
90	7.842	7.820	7.855	VV	140	1861	0.02%	0.001%
91	8.042	8.017	8.118	VV	2298	101555	0.88%	0.051%
92	8.140	8.118	8.159	VV	1338	28723	0.25%	0.014%
93	8.187	8.159	8.202	VV	1681	32333	0.28%	0.016%
94	8.223	8.202	8.265	VV	2796	68727	0.60%	0.035%
95	8.315	8.265	8.344	VV	3831	92559	0.80%	0.047%
96	8.367	8.344	8.386	VV	1999	41884	0.36%	0.021%
97	8.464	8.386	8.474	VV	2931	123780	1.07%	0.062%
98	8.497	8.474	8.558	VV	8718	203033	1.76%	0.102%
99	8.588	8.558	8.604	VV	3304	84803	0.74%	0.043%
100	8.616	8.604	8.625	VV	3454	42645	0.37%	0.021%
101	8.651	8.625	8.669	VV	7280	133535	1.16%	0.067%
102	8.681	8.669	8.698	VV	4589	72300	0.63%	0.036%
103	8.721	8.698	8.765	VV	6450	189725	1.64%	0.095%
104	8.920	8.903	8.932	VV	8715	142106	1.23%	0.071%
105	8.951	8.932	8.972	VV	12247	231557	2.01%	0.116%
106	8.992	8.972	9.001	VV	9685	150247	1.30%	0.076%
107	9.039	9.001	9.066	VV	23460	537969	4.66%	0.270%
108	9.089	9.066	9.101	VV	10603	200430	1.74%	0.101%
109	9.115	9.101	9.132	VV	11505	189973	1.65%	0.095%
110	9.183	9.132	9.202	VV	12062	449759	3.90%	0.226%
111	9.222	9.202	9.230	VV	11335	184432	1.60%	0.093%
112	9.268	9.230	9.285	VV	12758	393307	3.41%	0.198%
113	9.327	9.285	9.383	VV	36495	1081607	9.38%	0.544%
114	9.410	9.383	9.435	VV	18674	482857	4.19%	0.243%
115	9.455	9.435	9.464	VV	16482	262636	2.28%	0.132%
116	9.474	9.464	9.495	VV	16518	289117	2.51%	0.145%
117	9.530	9.495	9.542	VV	19498	482302	4.18%	0.242%
118	9.558	9.542	9.581	VV	19730	438095	3.80%	0.220%
119	9.616	9.581	9.645	VV	21455	756989	6.56%	0.380%
120	9.659	9.645	9.672	VV	20256	309307	2.68%	0.155%
121	9.706	9.672	9.738	VV	29439	962360	8.34%	0.484%
122	9.784	9.738	9.809	VV	32146	1110570	9.63%	0.558%
123	9.835	9.809	9.851	VV	29052	661779	5.74%	0.333%
124	9.867	9.851	9.909	VV	29935	948079	8.22%	0.477%
125	9.979	9.909	10.002	VV	31071	1488101	12.90%	0.748%
126	10.025	10.002	10.040	VV	31492	672808	5.83%	0.338%
127	10.065	10.040	10.088	VV	36861	979065	8.49%	0.492%
128	10.110	10.088	10.135	VV	78012	1383215	11.99%	0.695%
129	10.144	10.135	10.152	VV	33042	344661	2.99%	0.173%
130	10.168	10.152	10.182	VV	35686	615811	5.34%	0.310%
131	10.214	10.182	10.255	VV	35334	1432287	12.42%	0.720%
132	10.285	10.255	10.308	VV	36255	1085174	9.41%	0.545%
133	10.344	10.308	10.366	VV	37994	1254744	10.88%	0.631%
134	10.386	10.366	10.405	VV	38783	845057	7.33%	0.425%
135	10.457	10.405	10.471	VV	43315	1557301	13.50%	0.783%
136	10.500	10.471	10.528	VV	101965	2221117	19.25%	1.116%
137	10.552	10.528	10.566	VV	48178	1034251	8.97%	0.520%
138	10.586	10.566	10.608	VV	48069	1147036	9.94%	0.576%
139	10.646	10.608	10.675	VV	58853	1885783	16.35%	0.948%
140	10.691	10.675	10.725	VV	45400	1291397	11.19%	0.649%
141	10.754	10.725	10.768	VV	49967	1245429	10.80%	0.626%

					rteres			
142	10.783	10.768	10.801	VV	52782	986427	8.55%	0.496%
143	10.853	10.801	10.890	VV	104379	3318674	28.77%	1.668%
144	10.926	10.890	10.955	VV	239872	4578313	39.69%	2.301%
145	10.966	10.955	11.017	VV	57910	1973099	17.10%	0.992%
146	11.055	11.017	11.067	VV	55149	1565103	13.57%	0.787%
147	11.091	11.067	11.106	VV	56569	1310582	11.36%	0.659%
148	11.130	11.106	11.154	VV	59151	1601647	13.88%	0.805%
149	11.182	11.154	11.214	VV	63083	2119672	18.37%	1.065%
150	11.247	11.214	11.292	VV	69134	2891216	25.06%	1.453%
151	11.333	11.292	11.348	VV	62444	1989060	17.24%	1.000%
152	11.360	11.348	11.378	VV	63147	1100222	9.54%	0.553%
153	11.387	11.378	11.399	VV	61162	761125	6.60%	0.383%
154	11.416	11.399	11.445	VV	63717	1682297	14.58%	0.846%
155	11.517	11.445	11.533	VV	66519	3330275	28.87%	1.674%
156	11.559	11.533	11.617	VV	114085	3789591	32.85%	1.905%
157	11.651	11.617	11.697	VV	211168	5048799	43.77%	2.538%
158	11.714	11.697	11.737	VV	64421	1472939	12.77%	0.740%
159	11.755	11.737	11.772	VV	62821	1297029	11.24%	0.652%
160	11.876	11.772	11.908	VV	613296	11535845	100.00%	5.798%
161	11.954	11.908	11.980	VV	72129	2955254	25.62%	1.485%
162	11.997	11.980	12.028	VV	69468	1953876	16.94%	0.982%
163	12.055	12.028	12.093	VV	73422	2732751	23.69%	1.373%
164	12.114	12.093	12.148	VV	72181	2298077	19.92%	1.155%
165	12.167	12.148	12.180	VV	69375	1313726	11.39%	0.660%
166	12.228	12.180	12.282	VV	113163	5194070	45.03%	2.611%
167	12.305	12.282	12.320	VV	68234	1529001	13.25%	0.768%
168	12.339	12.320	12.408	VV	70608	3509538	30.42%	1.764%
169	12.432	12.408	12.471	VV	68011	2458051	21.31%	1.235%
170	12.506	12.471	12.518	VV	69120	1875610	16.26%	0.943%
171	12.533	12.518	12.561	VV	69133	1733763	15.03%	0.871%
172	12.614	12.561	12.630	VV	68186	2702235	23.42%	1.358%
173	12.645	12.630	12.679	VV	68943	1919461	16.64%	0.965%
174	12.703	12.679	12.717	VV	65817	1447182	12.55%	0.727%
175	12.733	12.717	12.771	VV	65942	2085349	18.08%	1.048%
176	12.795	12.771	12.844	VV	74252	2903560	25.17%	1.459%
177	12.874	12.844	12.914	VV	102846	3118026	27.03%	1.567%
178	12.937	12.914	12.972	VV	62882	2110850	18.30%	1.061%
179	12.983	12.972	13.002	VV	61393	1085195	9.41%	0.545%
180	13.018	13.002	13.067	VV	61829	2271821	19.69%	1.142%
181	13.093	13.067	13.115	VV	57284	1600267	13.87%	0.804%
182	13.135	13.115	13.181	VV	59928	2289913	19.85%	1.151%
183	13.231	13.181	13.251	VV	62704	2374993	20.59%	1.194%
184	13.264	13.251	13.279	VV	56274	931767	8.08%	0.468%
185	13.321	13.279	13.351	VV	431743	6946728	60.22%	3.491%
186	13.371	13.351	13.406	VV	67713	1984633	17.20%	0.997%
187	13.417	13.406	13.444	VV	54465	1202137	10.42%	0.604%
188	13.453	13.444	13.464	VV	49736	577273	5.00%	0.290%
189	13.487	13.464	13.511	VV	70113	1609293	13.95%	0.809%
190	13.533	13.511	13.611	VV	54361	2955540	25.62%	1.485%
191	13.648	13.611	13.681	VV	48374	1905370	16.52%	0.958%
192	13.712	13.681	13.741	VV	51108	1677117	14.54%	0.843%
193	13.755	13.741	13.785	VV	44594	1120047	9.71%	0.563%
194	13.797	13.785	13.828	VV	42344	1069438	9.27%	0.537%

					rteres			
195	13.841	13.828	13.854	VV	40496	643356	5.58%	0.323%
196	13.867	13.854	13.890	VV	40615	825306	7.15%	0.415%
197	13.922	13.890	13.953	VV	40823	1482915	12.85%	0.745%
198	13.984	13.953	14.047	VV	41544	2084283	18.07%	1.048%
199	14.073	14.047	14.111	VV	46955	1458387	12.64%	0.733%
200	14.125	14.111	14.207	VV	33600	1831334	15.88%	0.920%
201	14.222	14.207	14.248	VV	31009	741263	6.43%	0.373%
202	14.254	14.248	14.267	VV	28580	319584	2.77%	0.161%
203	14.306	14.267	14.354	VV	33217	1556705	13.49%	0.782%
204	14.374	14.354	14.424	VV	27818	1106777	9.59%	0.556%
205	14.460	14.424	14.558	VV	26864	1980612	17.17%	0.995%
206	14.580	14.558	14.614	VV	23084	733800	6.36%	0.369%
207	14.636	14.614	14.695	VV	27158	1034664	8.97%	0.520%
208	14.711	14.695	14.740	VV	19740	526119	4.56%	0.264%
209	14.765	14.740	14.802	VV	20099	689032	5.97%	0.346%
210	14.811	14.802	14.849	VV	16673	465328	4.03%	0.234%
211	14.864	14.849	14.875	VV	15916	243709	2.11%	0.122%
212	14.888	14.875	14.945	VV	16482	647103	5.61%	0.325%
213	14.958	14.945	14.981	VV	14300	294343	2.55%	0.148%
214	14.991	14.981	15.015	VV	13623	270543	2.35%	0.136%
215	15.024	15.015	15.051	VV	13386	282966	2.45%	0.142%
216	15.066	15.051	15.148	VV	12354	674992	5.85%	0.339%
217	15.179	15.148	15.208	VV	13550	414284	3.59%	0.208%
218	15.223	15.208	15.301	VV	10253	527289	4.57%	0.265%
219	15.316	15.301	15.351	VV	8620	248607	2.16%	0.125%
220	15.372	15.351	15.396	VV	8185	206006	1.79%	0.104%
221	15.421	15.396	15.491	VV	7703	406794	3.53%	0.204%
222	15.505	15.491	15.525	VV	6720	130693	1.13%	0.066%
223	15.561	15.525	15.675	VV	23188	837345	7.26%	0.421%
224	15.718	15.675	15.946	VV	189169	3057300	26.50%	1.537%
225	15.959	15.946	15.978	VV	2922	52294	0.45%	0.026%
226	16.012	15.978	16.056	VV	2875	118570	1.03%	0.060%
227	16.084	16.056	16.175	VV	2509	135959	1.18%	0.068%
228	16.201	16.175	16.324	VV	2662	123527	1.07%	0.062%
229	16.334	16.324	16.355	VV	856	13233	0.11%	0.007%
230	16.385	16.355	16.455	VV	992	44845	0.39%	0.023%
231	16.500	16.455	16.548	VV	755	31906	0.28%	0.016%
232	16.579	16.548	16.620	VV	1558	42231	0.37%	0.021%
233	16.641	16.620	16.661	VV	656	13118	0.11%	0.007%
234	16.685	16.661	16.721	VV	1635	25723	0.22%	0.013%
235	16.732	16.721	16.741	VV	183	1461	0.01%	0.001%
236	16.766	16.741	16.811	VV	2486	35811	0.31%	0.018%
237	16.843	16.811	16.864	PV	241	3601	0.03%	0.002%
238	16.905	16.864	16.921	VV	186	4391	0.04%	0.002%
239	16.980	16.921	16.991	VV	230	6734	0.06%	0.003%
240	17.011	16.991	17.068	VV	450	12141	0.11%	0.006%
241	17.078	17.068	17.100	VV	197	2700	0.02%	0.001%
242	17.153	17.100	17.178	VV	1804	33701	0.29%	0.017%
243	17.198	17.178	17.254	VV	1297	24864	0.22%	0.012%
244	17.278	17.254	17.305	PV	228	3785	0.03%	0.002%
245	17.326	17.305	17.336	VV	157	1776	0.02%	0.001%
246	17.390	17.336	17.424	VV	365	8210	0.07%	0.004%

					rteres			
247	17.488	17.424	17.501	PV	221	4844	0.04%	0.002%
248	17.527	17.501	17.571	VV	730	16651	0.14%	0.008%
249	17.603	17.571	17.644	VV	3009	46310	0.40%	0.023%
250	17.700	17.644	17.722	PV	240	6281	0.05%	0.003%
251	18.000	17.722	18.017	PV	1369	11485	0.10%	0.006%
252	18.041	18.017	18.068	VV	2666	41479	0.36%	0.021%
253	18.134	18.068	18.155	VV	780	21556	0.19%	0.011%
254	18.183	18.155	18.201	VV	553	11265	0.10%	0.006%
255	18.266	18.201	18.298	VV	523	17715	0.15%	0.009%
256	18.360	18.298	18.374	PV	969	12677	0.11%	0.006%
257	18.405	18.374	18.442	VV	5431	122884	1.07%	0.062%
258	18.466	18.442	18.508	VV	3961	78347	0.68%	0.039%
259	18.556	18.508	18.589	VV	457	16501	0.14%	0.008%
260	18.609	18.589	18.628	VV	153	2132	0.02%	0.001%
261	18.871	18.628	18.915	PV	3701	73469	0.64%	0.037%
262	18.979	18.915	18.996	PV	566	14313	0.12%	0.007%
263	19.032	18.996	19.040	VV	439	8916	0.08%	0.004%
264	19.188	19.040	19.205	VV	761	28991	0.25%	0.015%
265	19.234	19.205	19.254	VV	3464	68112	0.59%	0.034%
266	19.275	19.254	19.319	VV	3506	79940	0.69%	0.040%
267	19.353	19.319	19.383	VV	967	30083	0.26%	0.015%
268	19.519	19.383	19.538	VV	789	61479	0.53%	0.031%
269	19.573	19.538	19.588	VV	901	20099	0.17%	0.010%
270	19.662	19.588	19.677	VV	2734	66472	0.58%	0.033%
271	19.697	19.677	19.715	VV	2800	50860	0.44%	0.026%
272	20.024	19.715	20.061	VV	5154	609783	5.29%	0.306%
273	20.242	20.061	20.250	VV	7313	626966	5.43%	0.315%
274	20.306	20.250	20.377	VV	12699	683936	5.93%	0.344%
275	20.403	20.377	20.432	VV	7913	248225	2.15%	0.125%
276	20.762	20.432	20.788	VV	12403	1982135	17.18%	0.996%
277	20.935	20.788	20.986	VV	12742	1462807	12.68%	0.735%
278	21.004	20.986	21.028	VV	12096	298150	2.58%	0.150%
279	21.038	21.028	21.060	VV	11584	220313	1.91%	0.111%
280	21.185	21.060	21.298	VV	11782	1605017	13.91%	0.807%
281	21.442	21.298	21.501	VV	9410	1141833	9.90%	0.574%
282	21.597	21.501	21.628	VV	8286	626029	5.43%	0.315%
283	21.715	21.628	21.760	VV	7794	618713	5.36%	0.311%
284	21.842	21.760	22.009	VV	7688	905845	7.85%	0.455%
285	22.033	22.009	22.088	VV	3320	136092	1.18%	0.068%
286	22.187	22.088	22.271	VV	2927	268539	2.33%	0.135%
287	22.290	22.271	22.364	VV	1448	50979	0.44%	0.026%
Sum of corrected areas:					198966658			

Aliphatic EPH 041725.M Wed Apr 23 03:41:48 2025

Report of Analysis

Client:	G Environmental	Date Collected:	04/21/25
Project:	Stockton	Date Received:	04/21/25
Client Sample ID:	DP8	SDG No.:	Q1851
Lab Sample ID:	Q1851-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.3
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/22/25 09:40	04/23/25 2:18	PB167690

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	29.5		1	1.28	2.16	mg/kg FE053487.D
Aliphatic C9-C28	Aliphatic C9-C28	20.8		1	0.98	4.32	mg/kg FE053487.D
Total AliphaticEPH	Total AliphaticEPH	50.3			2.26	6.48	mg/kg
Total EPH	Total EPH	50.3			2.26	6.48	mg/kg

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	04/21/25
Project:	Stockton	Date Received:	04/21/25
Client Sample ID:	DP8	SDG No.:	Q1851
Lab Sample ID:	Q1851-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053487.D	1	04/22/25	04/23/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	20.8		0.98	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	29.5		1.28	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.5		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.0		40 - 140	64%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1851-04	Acq On:	23 Apr 2025 02:18
Client Sample ID:	DP8	Operator:	YP\AJ
Data file:	FE053487.D	Misc:	
Instrument:	FID_E	ALS Vial:	34
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.123	6.764	7111095	51.321	300	ug/ml
Aliphatic C12-C16	6.765	10.214	4523830	31.902	200	ug/ml
Aliphatic C16-C21	10.215	13.590	16174106	111.266	300	ug/ml
Aliphatic C21-C28	13.591	17.259	13423494	94.416	400	ug/ml
Aliphatic C28-C40	17.260	22.156	52748595	408.748	600	ug/ml
Aliphatic EPH	3.123	22.156	93981120	697.652		ug/ml
ortho-Terphenyl (SURR)	11.874	11.874	5770856	32		ug/ml
1-chlorooctadecane (SURR)	13.319	13.319	4399888	32.55		ug/ml
Aliphatic C9-C28	3.123	17.259	41232525	288.905	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
 Data File : FE053487.D
 Signal(s) : FID1B.ch
 Acq On : 23 Apr 2025 02:18
 Operator : YP\AJ
 Sample : Q1851-04
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 DP8

Integration File: autoint1.e
 Quant Time: Apr 23 02:57:02 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)	11.874	5770856	31.996 ug/ml
Spiked Amount 50.000		Recovery =	63.99%
12) S 1-chlorooctadecane (S...	13.319	4399888	32.549 ug/ml
Spiked Amount 50.000		Recovery =	65.10%

Target Compounds

(f)=RT Delta > 1/2 Window

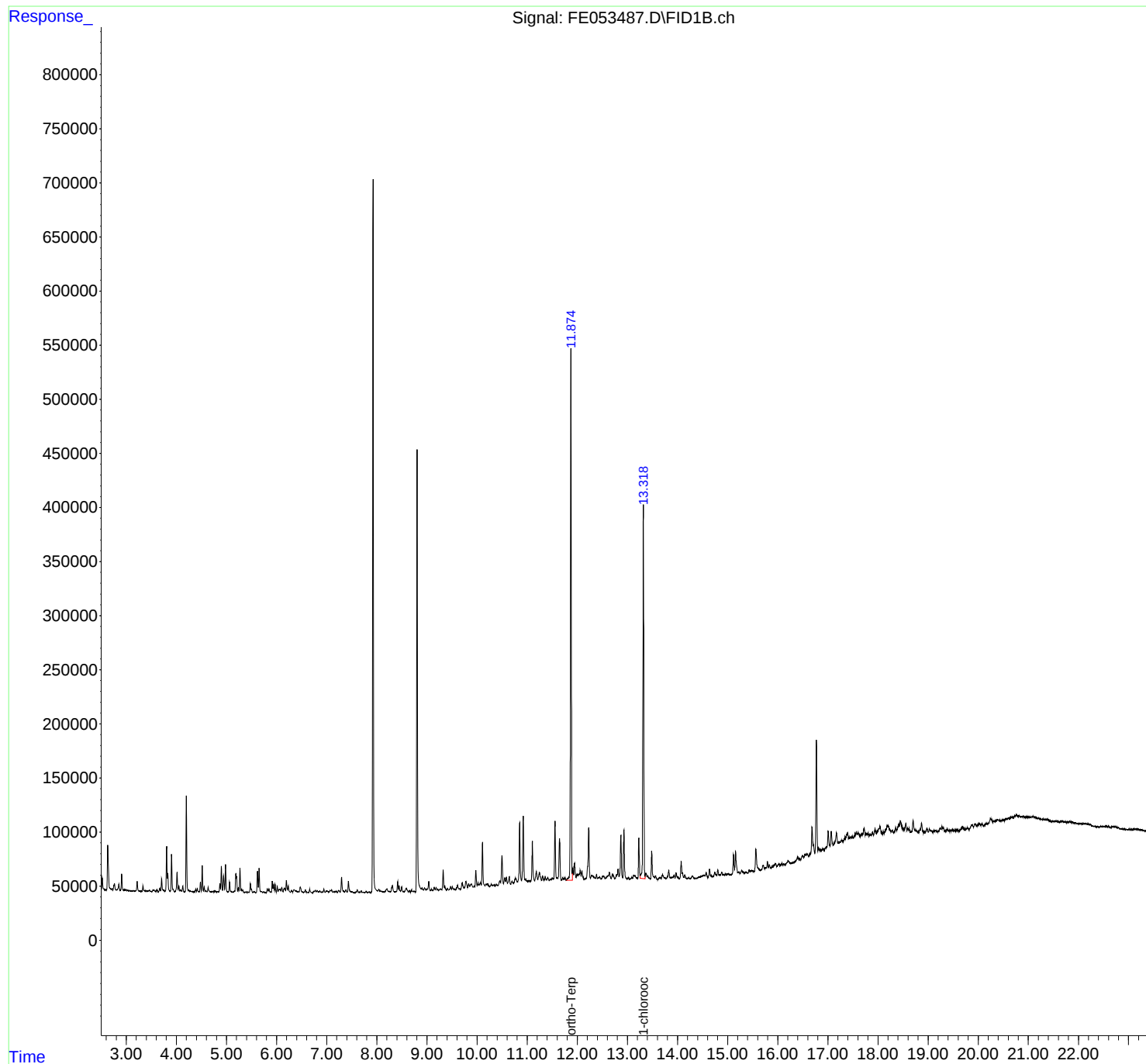
(m)=manual int.

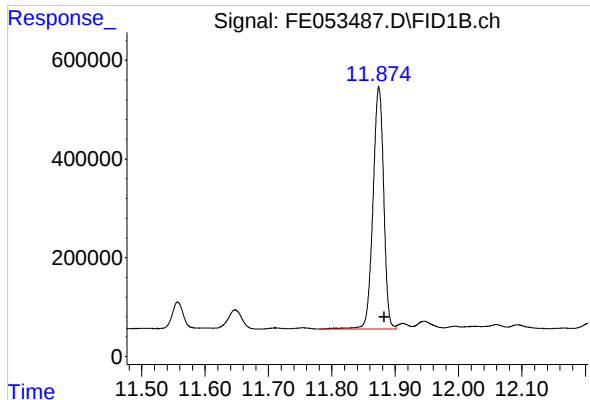
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053487.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 02:18
Operator : YP\AJ
Sample : Q1851-04
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
DP8

Integration File: autoint1.e
Quant Time: Apr 23 02:57:02 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

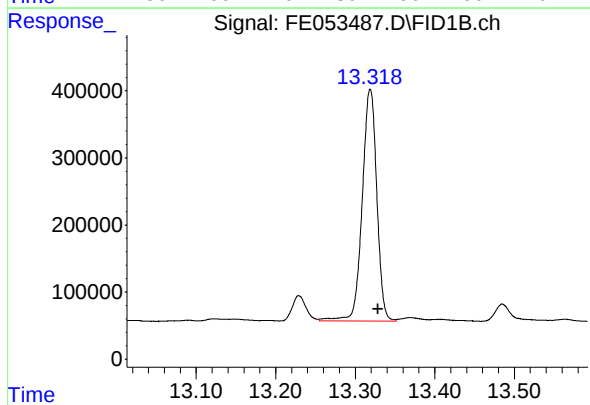




#9 ortho-Terphenyl (SURR)

R.T.: 11.874 min
Delta R.T.: -0.009 min
Response: 5770856
Conc: 32.00 ug/ml

Instrument :
FID_E
ClientSampleId :
DP8



#12 1-chlorooctadecane (SURR)

R.T.: 13.319 min
Delta R.T.: -0.010 min
Response: 4399888
Conc: 32.55 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053487.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 02:18
Sample : Q1851-04
Misc :
ALS Vial : 34 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	2.851	2.805	2.881	BV	5680	70192	1.16%	0.067%
2	2.908	2.881	2.940	VV	15089	151903	2.51%	0.144%
3	2.954	2.940	2.970	VV	495	6338	0.10%	0.006%
4	2.994	2.970	3.058	VV	742	16397	0.27%	0.016%
5	3.077	3.058	3.122	PV	97	2664	0.04%	0.003%
6	3.137	3.122	3.168	PV	239	3097	0.05%	0.003%
7	3.217	3.168	3.308	VV	9024	110373	1.82%	0.105%
8	3.334	3.308	3.375	PV	5066	60941	1.01%	0.058%
9	3.389	3.375	3.411	VV	636	8984	0.15%	0.009%
10	3.431	3.411	3.443	VV	658	9286	0.15%	0.009%
11	3.460	3.443	3.515	VV	1249	19037	0.31%	0.018%
12	3.532	3.515	3.541	PV	1324	12905	0.21%	0.012%
13	3.554	3.541	3.578	VV	1679	20081	0.33%	0.019%
14	3.612	3.578	3.641	VV	1270	19430	0.32%	0.018%
15	3.667	3.641	3.685	VV	3104	35810	0.59%	0.034%
16	3.706	3.685	3.739	VV	12102	145311	2.40%	0.138%
17	3.747	3.739	3.766	VV	1434	18418	0.30%	0.017%
18	3.805	3.766	3.881	VV	41668	634639	10.47%	0.603%
19	3.904	3.881	3.971	VV	34313	391495	6.46%	0.372%
20	4.013	3.971	4.034	VV	18155	218556	3.61%	0.208%
21	4.050	4.034	4.071	VV	5342	66429	1.10%	0.063%
22	4.085	4.071	4.105	VV	1845	23677	0.39%	0.022%
23	4.128	4.105	4.165	VV	5455	64219	1.06%	0.061%
24	4.199	4.165	4.238	VV	88811	922853	15.23%	0.877%
25	4.246	4.238	4.306	VV	1540	36026	0.59%	0.034%
26	4.314	4.306	4.341	VV	342	3441	0.06%	0.003%
27	4.386	4.341	4.401	VV	2723	33366	0.55%	0.032%
28	4.418	4.401	4.452	VV	3325	39256	0.65%	0.037%
29	4.480	4.452	4.497	VV	9265	97523	1.61%	0.093%
30	4.516	4.497	4.539	VV	24597	249530	4.12%	0.237%
31	4.555	4.539	4.576	VV	4968	54681	0.90%	0.052%
32	4.590	4.576	4.613	VV	1448	18631	0.31%	0.018%
33	4.634	4.613	4.717	VV	4462	72601	1.20%	0.069%
34	4.734	4.717	4.749	VV	1009	11599	0.19%	0.011%
35	4.766	4.749	4.808	VV	1665	26161	0.43%	0.025%
36	4.825	4.808	4.845	VV	771	11785	0.19%	0.011%

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37	4.869	4.845	4.881	VV	8186	85374	1.41%	0.081%
38	4.898	4.881	4.921	VV	24237	266008	4.39%	0.253%
39	4.942	4.921	4.963	VV	15284	210252	3.47%	0.200%
40	4.981	4.963	5.034	VV	25778	298549	4.93%	0.284%
41	5.062	5.034	5.128	VV	9606	120459	1.99%	0.114%
42	5.187	5.128	5.223	VV	17216	344569	5.69%	0.327%
43	5.237	5.223	5.250	VV	4389	48166	0.79%	0.046%
44	5.270	5.250	5.292	VV	22241	239826	3.96%	0.228%
45	5.303	5.292	5.316	VV	2942	32024	0.53%	0.030%
46	5.326	5.316	5.355	VV	2385	26128	0.43%	0.025%
47	5.361	5.355	5.374	VV	211	2060	0.03%	0.002%
48	5.400	5.374	5.413	VV	471	6728	0.11%	0.006%
49	5.432	5.413	5.455	VV	706	10991	0.18%	0.010%
50	5.478	5.455	5.528	VV	8505	127694	2.11%	0.121%
51	5.543	5.528	5.585	VV	873	16412	0.27%	0.016%
52	5.619	5.585	5.636	PV	19859	233974	3.86%	0.222%
53	5.652	5.636	5.727	VV	22582	274553	4.53%	0.261%
54	5.741	5.727	5.778	VV	633	11306	0.19%	0.011%
55	5.816	5.778	5.834	VV	3595	50952	0.84%	0.048%
56	5.848	5.834	5.878	VV	3655	46900	0.77%	0.045%
57	5.886	5.878	5.895	VV	732	6846	0.11%	0.007%
58	5.914	5.895	5.928	VV	10690	116424	1.92%	0.111%
59	5.941	5.928	5.957	VV	7619	87772	1.45%	0.083%
60	5.971	5.957	5.994	VV	7672	86565	1.43%	0.082%
61	6.014	5.994	6.032	VV	6015	69557	1.15%	0.066%
62	6.050	6.032	6.085	VV	3117	80048	1.32%	0.076%
63	6.104	6.085	6.128	VV	4810	74266	1.23%	0.071%
64	6.160	6.128	6.177	VV	4066	87058	1.44%	0.083%
65	6.196	6.177	6.218	VV	11435	146389	2.42%	0.139%
66	6.234	6.218	6.276	VV	6140	93208	1.54%	0.089%
67	6.299	6.276	6.320	VV	1869	30406	0.50%	0.029%
68	6.347	6.320	6.414	VV	2844	95718	1.58%	0.091%
69	6.426	6.414	6.441	VV	1475	16390	0.27%	0.016%
70	6.472	6.441	6.540	VV	5294	113097	1.87%	0.107%
71	6.575	6.540	6.627	VV	2831	48565	0.80%	0.046%
72	6.661	6.627	6.715	VV	3201	46426	0.77%	0.044%
73	6.745	6.715	6.757	PV	1327	19294	0.32%	0.018%
74	6.774	6.757	6.793	VV	2359	34506	0.57%	0.033%
75	6.812	6.793	6.833	VV	2154	32577	0.54%	0.031%
76	6.862	6.833	6.900	VV	1914	35616	0.59%	0.034%
77	6.915	6.900	6.928	VV	778	9289	0.15%	0.009%
78	6.944	6.928	6.968	VV	3474	41881	0.69%	0.040%
79	7.007	6.968	7.033	VV	1808	48154	0.79%	0.046%
80	7.067	7.033	7.084	VV	2366	45295	0.75%	0.043%
81	7.100	7.084	7.123	VV	2529	38846	0.64%	0.037%
82	7.144	7.123	7.161	VV	1208	18379	0.30%	0.017%
83	7.193	7.161	7.214	VV	1344	28945	0.48%	0.027%
84	7.237	7.214	7.268	VV	2216	42682	0.70%	0.041%
85	7.297	7.268	7.332	VV	14500	198423	3.27%	0.188%
86	7.340	7.332	7.358	VV	1522	18415	0.30%	0.017%
87	7.383	7.358	7.408	VV	2776	45833	0.76%	0.044%
88	7.435	7.408	7.490	VV	10847	164860	2.72%	0.157%
89	7.503	7.490	7.541	VV	1149	19044	0.31%	0.018%

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90	7.552	7.541	7.563	VV	212	2496	0.04%	0.002%
91	7.612	7.563	7.665	VV	2823	51629	0.85%	0.049%
92	7.691	7.665	7.718	VV	1556	23721	0.39%	0.023%
93	7.730	7.718	7.768	VV	317	5073	0.08%	0.005%
94	7.787	7.768	7.815	PV	1183	16731	0.28%	0.016%
95	7.841	7.815	7.858	VV	759	10096	0.17%	0.010%
96	7.867	7.858	7.881	VV	355	3239	0.05%	0.003%
97	8.041	8.015	8.126	VV	2981	95053	1.57%	0.090%
98	8.197	8.126	8.235	VV	3185	91258	1.51%	0.087%
99	8.245	8.235	8.278	VV	1289	18941	0.31%	0.018%
100	8.313	8.278	8.359	VV	6368	124077	2.05%	0.118%
101	8.417	8.359	8.433	VV	9817	127247	2.10%	0.121%
102	8.445	8.433	8.471	VV	6036	76027	1.25%	0.072%
103	8.496	8.471	8.555	VV	5040	78677	1.30%	0.075%
104	8.588	8.555	8.632	VV	3567	86704	1.43%	0.082%
105	8.652	8.632	8.674	VV	1345	18892	0.31%	0.018%
106	8.694	8.674	8.728	VV	2220	29719	0.49%	0.028%
107	8.744	8.728	8.766	VV	769	8383	0.14%	0.008%
108	8.900	8.885	8.933	VV	3443	70422	1.16%	0.067%
109	8.953	8.933	8.981	VV	3465	65647	1.08%	0.062%
110	9.038	8.981	9.072	VV	9160	170359	2.81%	0.162%
111	9.091	9.072	9.109	VV	1692	22634	0.37%	0.021%
112	9.146	9.109	9.165	VV	3479	54571	0.90%	0.052%
113	9.183	9.165	9.205	VV	3075	45036	0.74%	0.043%
114	9.217	9.205	9.232	VV	1277	14879	0.25%	0.014%
115	9.271	9.232	9.298	VV	1840	43751	0.72%	0.042%
116	9.325	9.298	9.347	VV	18969	238754	3.94%	0.227%
117	9.357	9.347	9.391	VV	4433	62540	1.03%	0.059%
118	9.410	9.391	9.433	VV	1490	22137	0.37%	0.021%
119	9.474	9.433	9.491	VV	3360	50013	0.83%	0.048%
120	9.508	9.491	9.543	VV	3251	48310	0.80%	0.046%
121	9.560	9.543	9.574	VV	1002	13826	0.23%	0.013%
122	9.611	9.574	9.642	VV	4422	81886	1.35%	0.078%
123	9.655	9.642	9.670	VV	1059	12500	0.21%	0.012%
124	9.703	9.670	9.736	VV	6235	128765	2.13%	0.122%
125	9.779	9.736	9.812	VV	7496	182140	3.01%	0.173%
126	9.835	9.812	9.853	VV	5128	88206	1.46%	0.084%
127	9.888	9.853	9.921	VV	4951	145909	2.41%	0.139%
128	9.941	9.921	9.954	VV	2573	42712	0.70%	0.041%
129	9.977	9.954	10.004	VV	17006	241019	3.98%	0.229%
130	10.020	10.004	10.038	VV	5272	86072	1.42%	0.082%
131	10.065	10.038	10.085	VV	5479	124282	2.05%	0.118%
132	10.109	10.085	10.157	VV	43036	590603	9.75%	0.561%
133	10.184	10.157	10.198	VV	3942	87482	1.44%	0.083%
134	10.213	10.198	10.251	VV	4315	98667	1.63%	0.094%
135	10.284	10.251	10.306	VV	3650	88477	1.46%	0.084%
136	10.320	10.306	10.328	VV	2791	35197	0.58%	0.033%
137	10.341	10.328	10.364	VV	2898	51450	0.85%	0.049%
138	10.387	10.364	10.413	VV	3362	74896	1.24%	0.071%
139	10.455	10.413	10.470	VV	6462	147733	2.44%	0.140%
140	10.499	10.470	10.527	VV	29910	491519	8.11%	0.467%
141	10.552	10.527	10.569	VV	8946	163411	2.70%	0.155%

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142	10.587	10.569	10.610	VV	9396	168446	2.78%	0.160%
143	10.644	10.610	10.671	VV	9823	215607	3.56%	0.205%
144	10.697	10.671	10.728	VV	5620	145767	2.41%	0.138%
145	10.765	10.728	10.808	VV	8048	285194	4.71%	0.271%
146	10.851	10.808	10.887	VV	59401	925855	15.28%	0.879%
147	10.923	10.887	10.956	VV	65465	1062264	17.53%	1.009%
148	10.970	10.956	10.998	VV	6907	151824	2.51%	0.144%
149	11.046	10.998	11.060	VV	5342	183358	3.03%	0.174%
150	11.104	11.060	11.149	VV	41570	720037	11.88%	0.684%
151	11.184	11.149	11.212	VV	12785	339055	5.60%	0.322%
152	11.244	11.212	11.288	VV	12513	387609	6.40%	0.368%
153	11.308	11.288	11.343	VV	9242	227202	3.75%	0.216%
154	11.361	11.343	11.383	VV	8423	155544	2.57%	0.148%
155	11.414	11.383	11.438	VV	7218	205265	3.39%	0.195%
156	11.504	11.438	11.528	VV	6329	303599	5.01%	0.288%
157	11.557	11.528	11.611	VV	59092	929880	15.35%	0.883%
158	11.647	11.611	11.688	VV	43019	801286	13.22%	0.761%
159	11.711	11.688	11.732	VV	6554	146649	2.42%	0.139%
160	11.755	11.732	11.780	VV	6716	156248	2.58%	0.148%
161	11.874	11.780	11.901	VV	493683	6059246	100.00%	5.756%
162	11.912	11.901	11.927	VV	15242	192728	3.18%	0.183%
163	11.946	11.927	11.977	VV	19634	378820	6.25%	0.360%
164	11.994	11.977	12.008	VV	9330	151465	2.50%	0.144%
165	12.024	12.008	12.037	VV	9124	151037	2.49%	0.143%
166	12.060	12.037	12.077	VV	12626	238947	3.94%	0.227%
167	12.093	12.077	12.143	VV	12025	295944	4.88%	0.281%
168	12.167	12.143	12.179	VV	5250	100281	1.66%	0.095%
169	12.229	12.179	12.263	VV	52082	957468	15.80%	0.909%
170	12.287	12.263	12.364	VV	7732	365600	6.03%	0.347%
171	12.385	12.364	12.406	VV	8078	150745	2.49%	0.143%
172	12.447	12.406	12.474	VV	5554	192703	3.18%	0.183%
173	12.504	12.474	12.517	VV	6384	132942	2.19%	0.126%
174	12.530	12.517	12.553	VV	6359	117156	1.93%	0.111%
175	12.569	12.553	12.577	VV	4722	59943	0.99%	0.057%
176	12.641	12.577	12.678	VV	9589	377691	6.23%	0.359%
177	12.702	12.678	12.755	VV	7891	244947	4.04%	0.233%
178	12.814	12.755	12.835	VV	12235	339814	5.61%	0.323%
179	12.871	12.835	12.905	VV	43441	703432	11.61%	0.668%
180	12.931	12.905	12.998	VV	47769	728012	12.01%	0.692%
181	13.019	12.998	13.051	VV	3582	91772	1.51%	0.087%
182	13.090	13.051	13.103	VV	3671	91770	1.51%	0.087%
183	13.124	13.103	13.138	VV	5844	99469	1.64%	0.094%
184	13.147	13.138	13.180	VV	5307	107115	1.77%	0.102%
185	13.192	13.180	13.204	VV	3188	43482	0.72%	0.041%
186	13.229	13.204	13.255	VV	40320	522497	8.62%	0.496%
187	13.319	13.255	13.351	VV	348637	4532064	74.80%	4.305%
188	13.369	13.351	13.394	VV	7058	138834	2.29%	0.132%
189	13.406	13.394	13.457	VV	4388	112978	1.86%	0.107%
190	13.485	13.457	13.548	VV	27153	445080	7.35%	0.423%
191	13.563	13.548	13.608	VV	4178	78062	1.29%	0.074%
192	13.655	13.608	13.674	VV	2527	72713	1.20%	0.069%
193	13.699	13.674	13.776	VV	4743	158956	2.62%	0.151%
194	13.825	13.776	13.854	VV	8872	190091	3.14%	0.181%

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195	13.866	13.854	13.877	VV	2122	25742	0.42%	0.024%
196	13.931	13.877	13.951	VV	4135	107520	1.77%	0.102%
197	13.973	13.951	14.038	VV	5764	130944	2.16%	0.124%
198	14.073	14.038	14.123	VV	16093	296951	4.90%	0.282%
199	14.143	14.123	14.189	VV	3982	72243	1.19%	0.069%
200	14.224	14.189	14.250	VV	967	14976	0.25%	0.014%
201	14.297	14.250	14.365	PV	2127	52528	0.87%	0.050%
202	14.437	14.365	14.451	PV	970	21750	0.36%	0.021%
203	14.464	14.451	14.477	VV	1643	19676	0.32%	0.019%
204	14.495	14.477	14.504	VV	1922	26070	0.43%	0.025%
205	14.533	14.504	14.550	VV	2165	53544	0.88%	0.051%
206	14.572	14.550	14.603	VV	4710	73502	1.21%	0.070%
207	14.637	14.603	14.691	PV	7634	125914	2.08%	0.120%
208	14.699	14.691	14.715	VV	748	7426	0.12%	0.007%
209	14.743	14.715	14.780	VV	4391	88625	1.46%	0.084%
210	14.804	14.780	14.830	VV	5989	94546	1.56%	0.090%
211	14.881	14.830	14.907	VV	3637	84116	1.39%	0.080%
212	14.923	14.907	14.942	VV	1193	17418	0.29%	0.017%
213	14.960	14.942	14.976	VV	1985	24982	0.41%	0.024%
214	14.991	14.976	15.002	VV	1276	16482	0.27%	0.016%
215	15.019	15.002	15.061	VV	1295	23332	0.39%	0.022%
216	15.117	15.061	15.137	VV	18687	256078	4.23%	0.243%
217	15.157	15.137	15.203	VV	21405	383684	6.33%	0.364%
218	15.220	15.203	15.244	VV	2324	42063	0.69%	0.040%
219	15.279	15.244	15.341	VV	3507	99966	1.65%	0.095%
220	15.376	15.341	15.402	VV	1413	31918	0.53%	0.030%
221	15.430	15.402	15.451	PV	2859	47945	0.79%	0.046%
222	15.466	15.451	15.519	VV	2193	70162	1.16%	0.067%
223	15.563	15.519	15.649	VV	21563	486364	8.03%	0.462%
224	15.659	15.649	15.676	VV	1975	29146	0.48%	0.028%
225	15.708	15.676	15.736	VV	5567	138190	2.28%	0.131%
226	15.762	15.736	15.770	VV	3102	57944	0.96%	0.055%
227	15.794	15.770	15.815	VV	8674	141246	2.33%	0.134%
228	15.831	15.815	15.868	VV	5415	111372	1.84%	0.106%
229	15.956	15.868	15.985	VV	5975	275742	4.55%	0.262%
230	16.023	15.985	16.056	VV	5375	174173	2.87%	0.165%
231	16.083	16.056	16.105	VV	5231	117685	1.94%	0.112%
232	16.120	16.105	16.142	VV	4649	89273	1.47%	0.085%
233	16.205	16.142	16.245	VV	7032	317514	5.24%	0.302%
234	16.257	16.245	16.278	VV	4824	86380	1.43%	0.082%
235	16.296	16.278	16.309	VV	4696	83353	1.38%	0.079%
236	16.402	16.309	16.421	VV	9298	422773	6.98%	0.402%
237	16.433	16.421	16.455	VV	7175	134910	2.23%	0.128%
238	16.498	16.455	16.520	VV	10066	335738	5.54%	0.319%
239	16.545	16.520	16.561	VV	11137	241973	3.99%	0.230%
240	16.584	16.561	16.614	VV	11191	319658	5.28%	0.304%
241	16.683	16.614	16.741	VV	35295	1231252	20.32%	1.170%
242	16.769	16.741	16.798	VV	114838	1716454	28.33%	1.630%
243	16.816	16.798	16.838	VV	15247	329419	5.44%	0.313%
244	16.849	16.838	16.866	VV	13248	216793	3.58%	0.206%
245	16.901	16.866	16.925	VV	13869	458841	7.57%	0.436%
246	17.005	16.925	17.042	VV	29342	1218863	20.12%	1.158%

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247	17.065	17.042	17.110	VV	28847	830037	13.70%	0.788%
248	17.171	17.110	17.203	VV	27011	1126538	18.59%	1.070%
249	17.281	17.203	17.306	VV	19276	1127968	18.62%	1.071%
250	17.386	17.306	17.427	VV	25284	1568266	25.88%	1.490%
251	17.447	17.427	17.458	VV	21253	386252	6.37%	0.367%
252	17.473	17.458	17.505	VV	21097	581593	9.60%	0.552%
253	17.565	17.505	17.583	VV	25208	1069588	17.65%	1.016%
254	17.602	17.583	17.650	VV	24393	909551	15.01%	0.864%
255	17.723	17.650	17.751	VV	28262	1435920	23.70%	1.364%
256	17.774	17.751	17.784	VV	22338	425589	7.02%	0.404%
257	17.802	17.784	17.820	VV	22373	468622	7.73%	0.445%
258	17.841	17.820	17.857	VV	22181	462426	7.63%	0.439%
259	17.892	17.857	17.911	VV	23513	703440	11.61%	0.668%
260	17.941	17.911	17.968	VV	25891	781742	12.90%	0.743%
261	18.039	17.968	18.068	VV	27230	1450455	23.94%	1.378%
262	18.077	18.068	18.098	VV	22413	382480	6.31%	0.363%
263	18.114	18.098	18.126	VV	21881	359309	5.93%	0.341%
264	18.185	18.126	18.261	VV	27863	1974454	32.59%	1.875%
265	18.285	18.261	18.315	VV	22882	692111	11.42%	0.657%
266	18.354	18.315	18.371	VV	24766	749294	12.37%	0.712%
267	18.412	18.371	18.426	VV	27459	812880	13.42%	0.772%
268	18.445	18.426	18.508	VV	30419	1280447	21.13%	1.216%
269	18.521	18.508	18.531	VV	22524	302599	4.99%	0.287%
270	18.554	18.531	18.578	VV	27616	685426	11.31%	0.651%
271	18.590	18.578	18.601	VV	22010	303614	5.01%	0.288%
272	18.613	18.601	18.648	VV	21992	585178	9.66%	0.556%
273	18.700	18.648	18.815	VV	28881	2039820	33.66%	1.938%
274	18.869	18.815	18.918	VV	25574	1226438	20.24%	1.165%
275	18.929	18.918	18.941	VV	17093	233518	3.85%	0.222%
276	18.973	18.941	19.003	VV	19966	673929	11.12%	0.640%
277	19.025	19.003	19.096	VV	19167	978292	16.15%	0.929%
278	19.143	19.096	19.181	VV	17290	846744	13.97%	0.804%
279	19.194	19.181	19.204	VV	16108	217905	3.60%	0.207%
280	19.239	19.204	19.261	VV	19001	608362	10.04%	0.578%
281	19.278	19.261	19.342	VV	19610	862715	14.24%	0.819%
282	19.380	19.342	19.428	VV	17560	822696	13.58%	0.781%
283	19.449	19.428	19.465	VV	15620	336299	5.55%	0.319%
284	19.480	19.465	19.515	VV	15684	457086	7.54%	0.434%
285	19.525	19.515	19.545	VV	15308	265552	4.38%	0.252%
286	19.569	19.545	19.606	VV	15290	539556	8.90%	0.513%
287	19.686	19.606	19.743	VV	16878	1247328	20.59%	1.185%
288	19.778	19.743	19.815	VV	16047	642081	10.60%	0.610%
289	19.880	19.815	19.908	VV	17795	911890	15.05%	0.866%
290	19.937	19.908	19.975	VV	18390	692874	11.43%	0.658%
291	19.982	19.975	19.990	VV	16845	156512	2.58%	0.149%
292	20.021	19.990	20.060	VV	18538	732358	12.09%	0.696%
293	20.080	20.060	20.133	VV	17931	726759	11.99%	0.690%
294	20.247	20.133	20.291	VV	21524	1740976	28.73%	1.654%
295	20.307	20.291	20.325	VV	19013	378028	6.24%	0.359%
296	20.405	20.325	20.443	VV	19592	1344530	22.19%	1.277%
297	20.691	20.443	20.700	VV	20377	2985327	49.27%	2.836%
298	20.729	20.700	20.738	VV	21209	468792	7.74%	0.445%
299	20.762	20.738	20.811	VV	22039	923717	15.24%	0.877%

						rters		
300	20.820	20.811	20.847	VV	20756	437888	7.23%	0.416%
301	20.858	20.847	20.879	VV	19804	376967	6.22%	0.358%
302	20.900	20.879	20.954	VV	19665	864139	14.26%	0.821%
303	20.968	20.954	20.985	VV	18903	339884	5.61%	0.323%
304	20.991	20.985	21.000	VV	18666	171031	2.82%	0.162%
305	21.096	21.000	21.113	VV	18367	1235257	20.39%	1.173%
306	21.137	21.113	21.192	VV	17910	800872	13.22%	0.761%
307	21.205	21.192	21.264	VV	16260	673863	11.12%	0.640%
308	21.274	21.264	21.284	VV	14855	179726	2.97%	0.171%
309	21.293	21.284	21.339	VV	14762	473527	7.81%	0.450%
310	21.367	21.339	21.478	VV	14253	1079506	17.82%	1.025%
311	21.486	21.478	21.498	VV	11807	139558	2.30%	0.133%
312	21.503	21.498	21.528	VV	11723	204293	3.37%	0.194%
313	21.549	21.528	21.564	VV	11519	242498	4.00%	0.230%
314	21.572	21.564	21.610	VV	11316	301666	4.98%	0.287%
315	21.670	21.610	21.725	VV	10465	699090	11.54%	0.664%
316	21.734	21.725	21.761	VV	9751	208985	3.45%	0.199%
317	21.782	21.761	21.800	VV	9137	211876	3.50%	0.201%
318	21.824	21.800	21.901	VV	9505	527076	8.70%	0.501%
319	21.911	21.901	22.011	VV	7778	458978	7.57%	0.436%
320	22.032	22.011	22.045	VV	6362	123749	2.04%	0.118%
321	22.048	22.045	22.059	VV	6180	50808	0.84%	0.048%
322	22.068	22.059	22.091	VV	6011	112965	1.86%	0.107%
323	22.123	22.091	22.137	VV	5619	153101	2.53%	0.145%
324	22.149	22.137	22.176	VV	5659	122004	2.01%	0.116%
325	22.188	22.176	22.305	VV	5150	289102	4.77%	0.275%
326	22.325	22.305	22.365	VV	2057	61810	1.02%	0.059%
327	22.378	22.365	22.411	VV	1269	28732	0.47%	0.027%
328	22.439	22.411	22.480	VV	1391	38871	0.64%	0.037%
329	22.492	22.480	22.503	VV	861	11134	0.18%	0.011%
330	22.525	22.503	22.547	VV	918	18889	0.31%	0.018%
331	22.565	22.547	22.584	VV	435	7767	0.13%	0.007%
					Sum of corrected areas:		105276227	

Aliphatic EPH 041725.M Wed Apr 23 03:42:23 2025



CALIBRATION SUMMARY

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

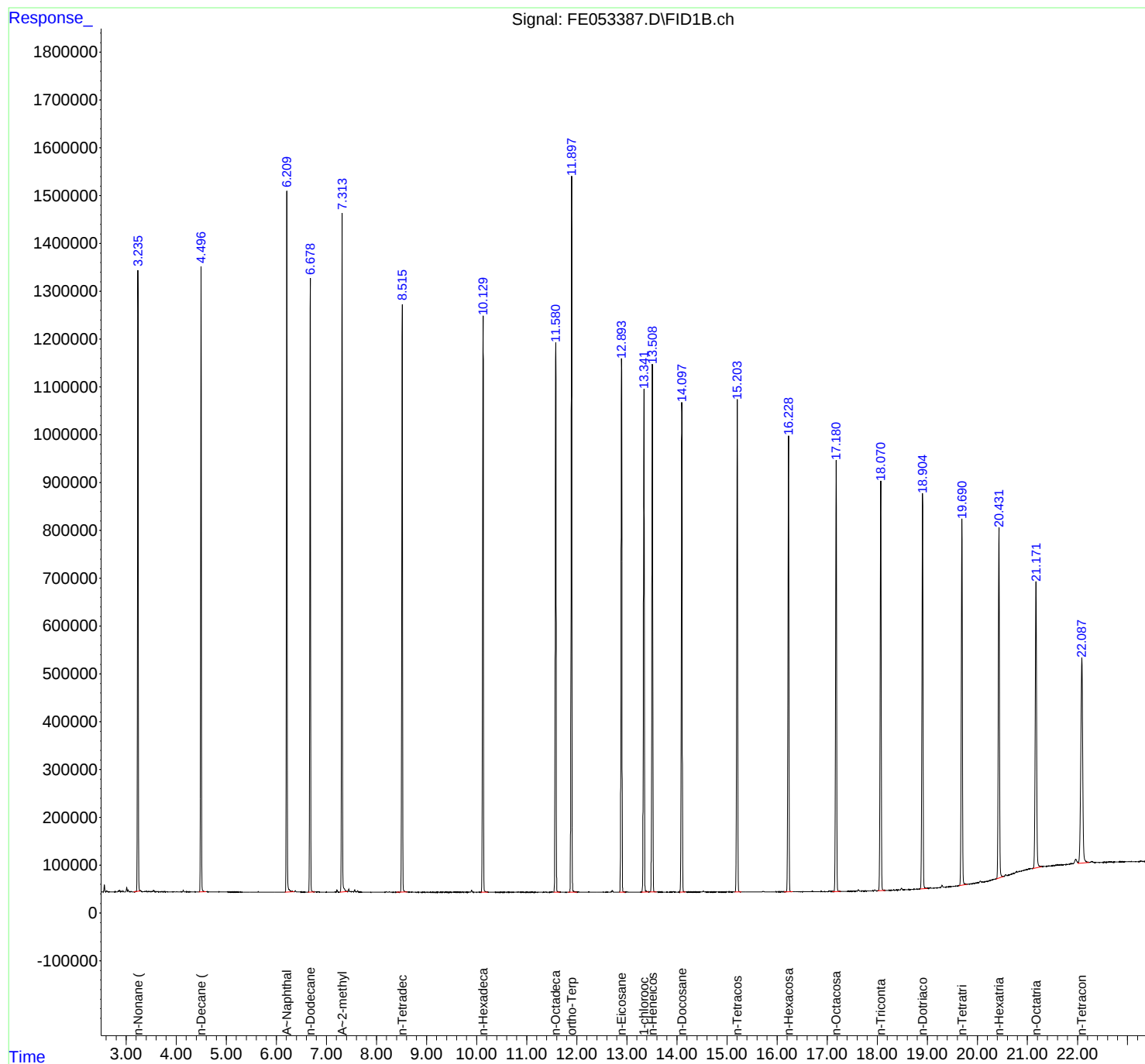
(m)=manual int.

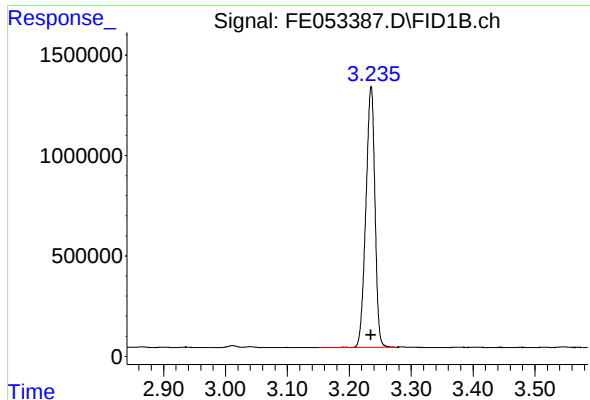
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053387.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 15:35
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

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)

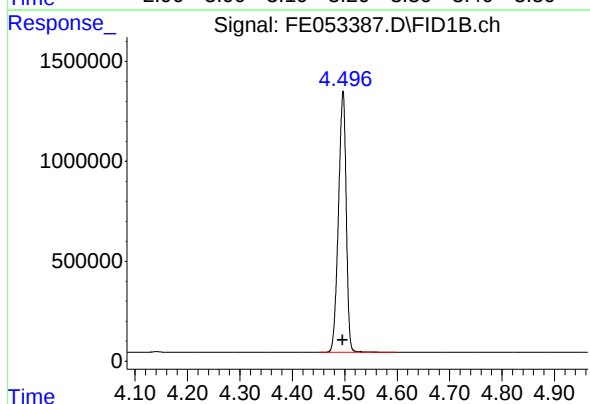
R.T.: 3.235 min
Delta R.T.: 0.000 min
Response: 13201429
Conc: 97.81 ug/ml

Instrument :

FID_E

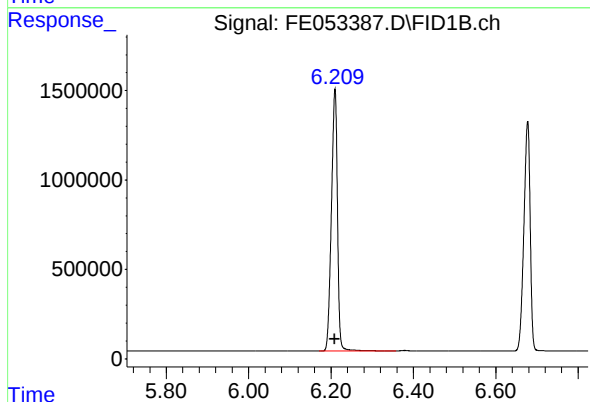
ClientSampleId :

100 PPM ALIPHATIC HC STD1



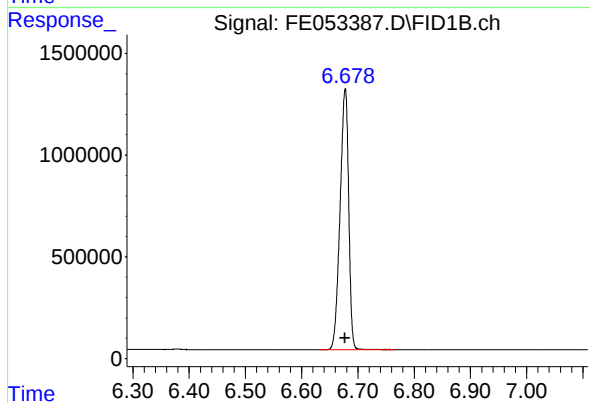
#2 n-Decane (C10)

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



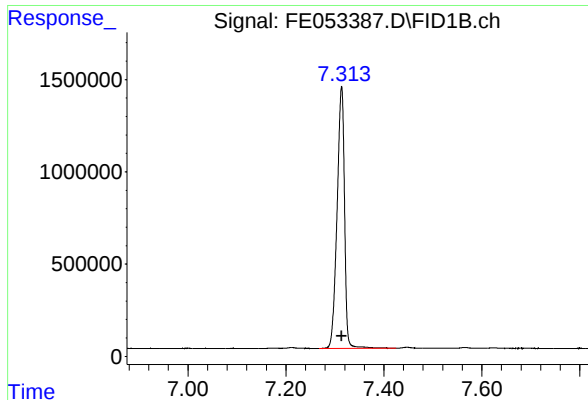
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

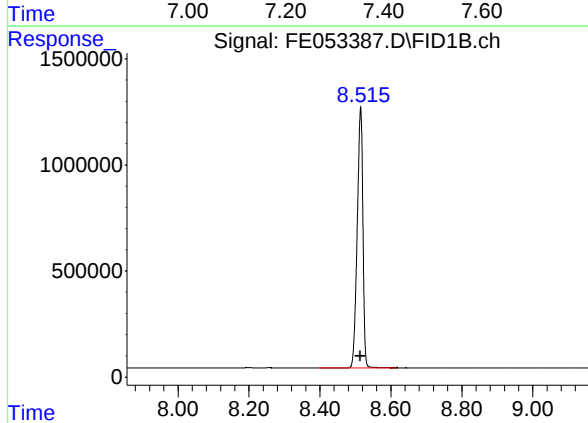
R.T.: 6.677 min
Delta R.T.: 0.000 min
Response: 13648447
Conc: 98.32 ug/ml



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

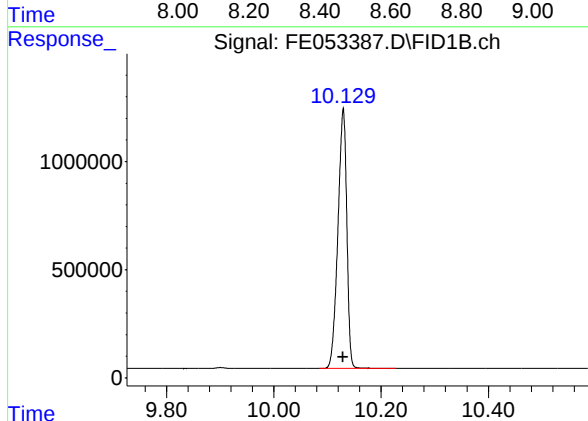
R.T.: 7.313 min
Delta R.T.: 0.000 min
Response: 14933440
Conc: 99.12 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



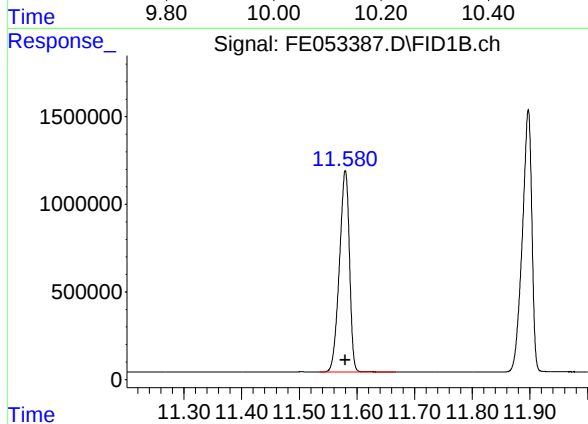
#6 n-Tetradecane (C14)

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



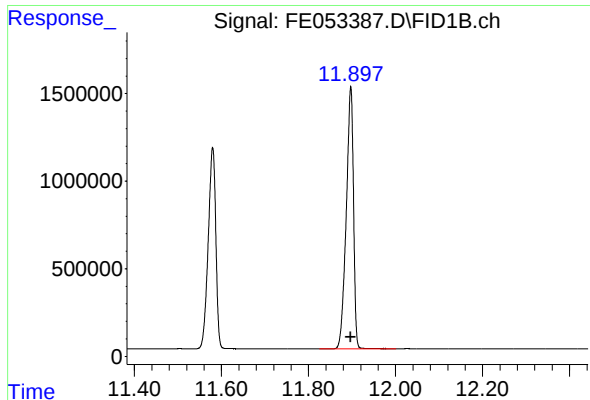
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

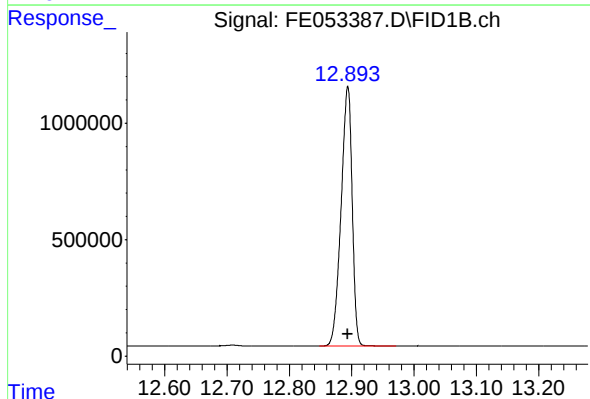
R.T.: 11.580 min
Delta R.T.: 0.000 min
Response: 13916696
Conc: 97.19 ug/ml



#9 ortho-Terphenyl (SURR)

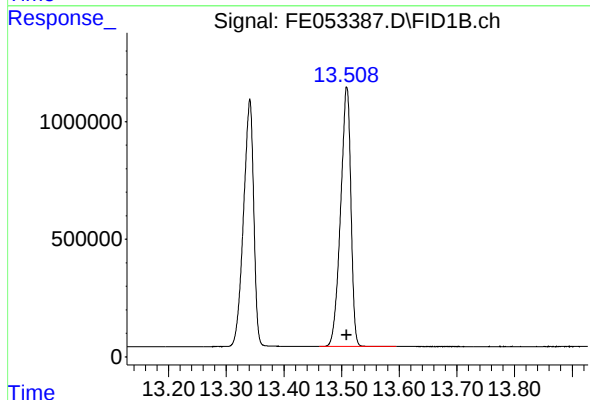
R.T.: 11.897 min
Delta R.T.: 0.000 min
Response: 17254133
Conc: 97.38 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



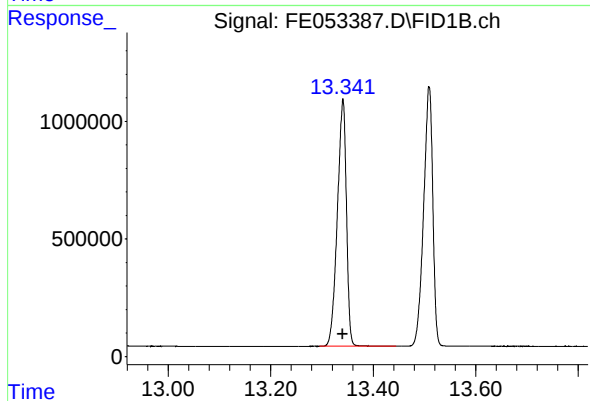
#10 n-Eicosane (C20)

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



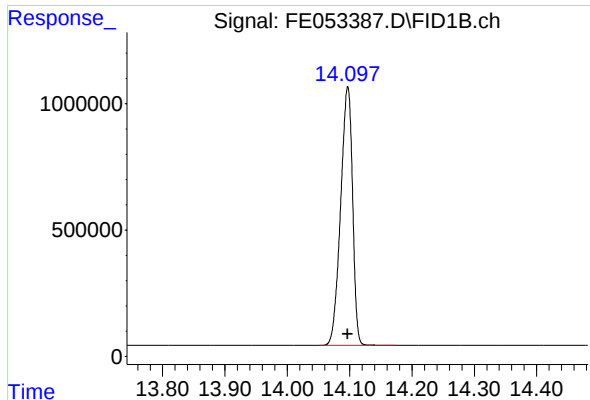
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

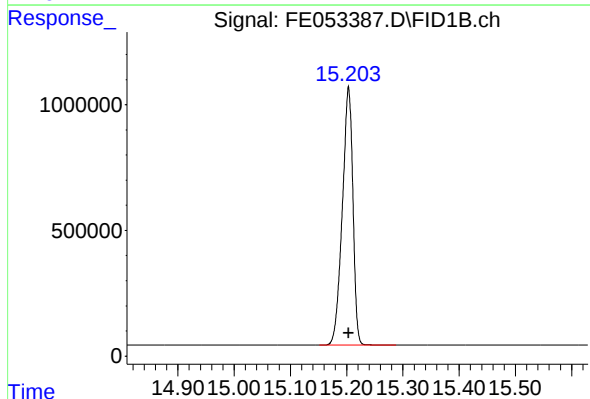
R.T.: 13.340 min
Delta R.T.: 0.000 min
Response: 12911819
Conc: 97.10 ug/ml



#13 n-Docosane (C22)

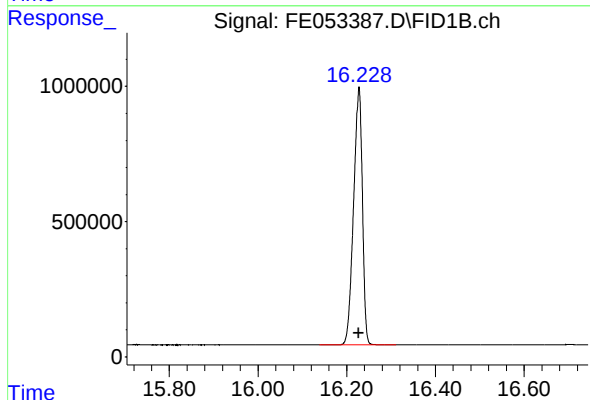
R.T.: 14.097 min
Delta R.T.: 0.000 min
Response: 13585495
Conc: 96.58 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



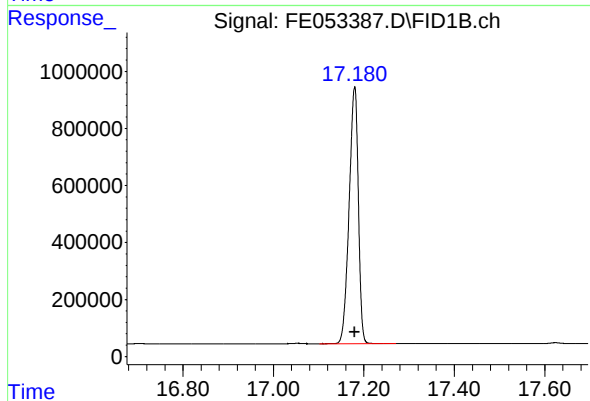
#14 n-Tetracosane (C24)

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



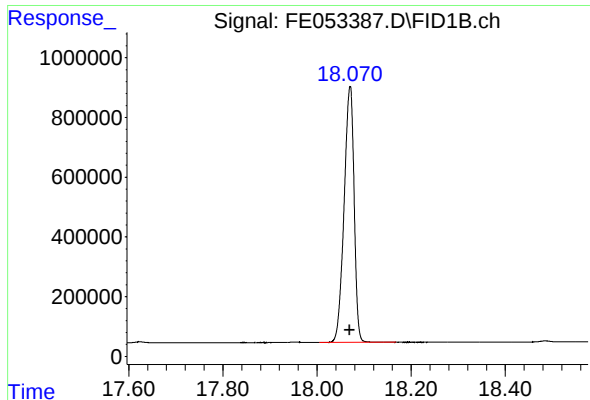
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

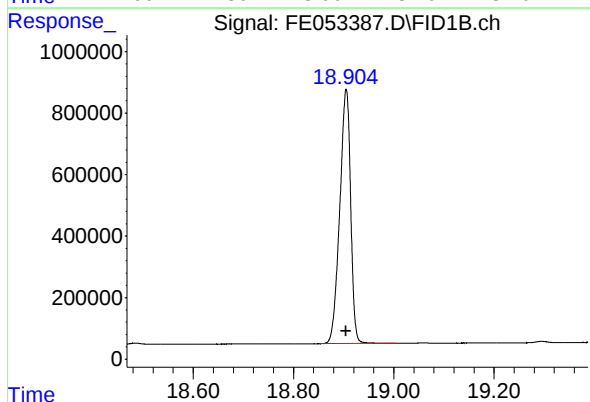
R.T.: 17.179 min
Delta R.T.: 0.000 min
Response: 12761876
Conc: 95.56 ug/ml



#17 n-Tricontane (C30)

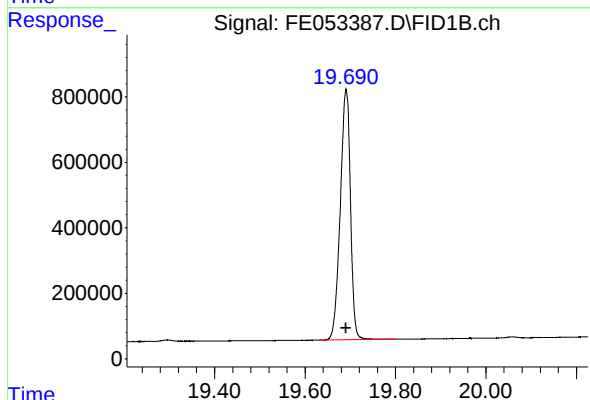
R.T.: 18.070 min
Delta R.T.: 0.000 min
Response: 12660425
Conc: 95.28 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



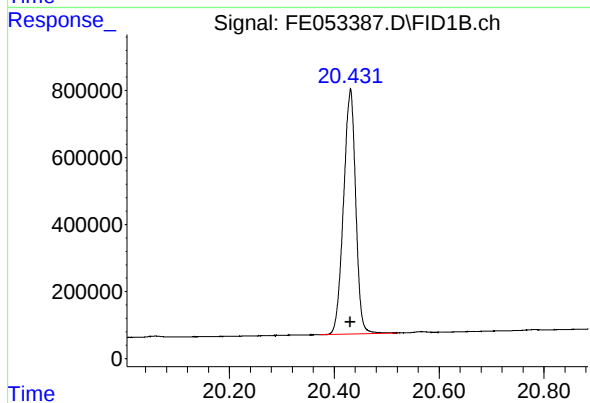
#18 n-Dotriacontane (C32)

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



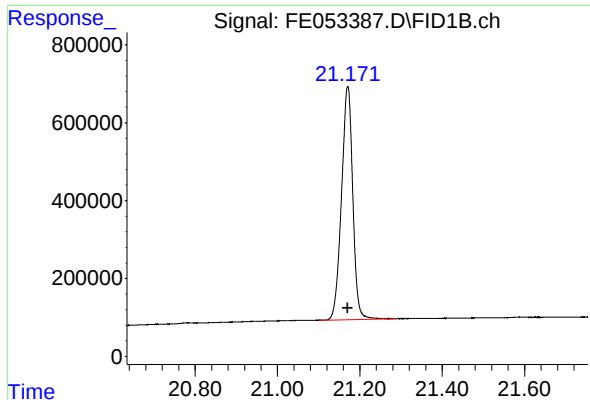
#19 n-Tetratriacontane (C34)

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)

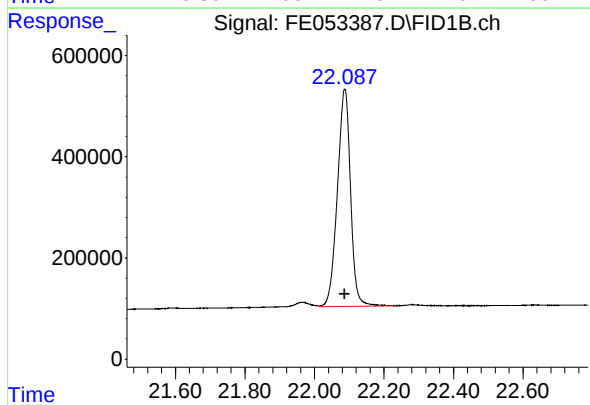
R.T.: 21.171 min
Delta R.T.: 0.000 min
Response: 11353126
Conc: 96.36 ug/ml

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

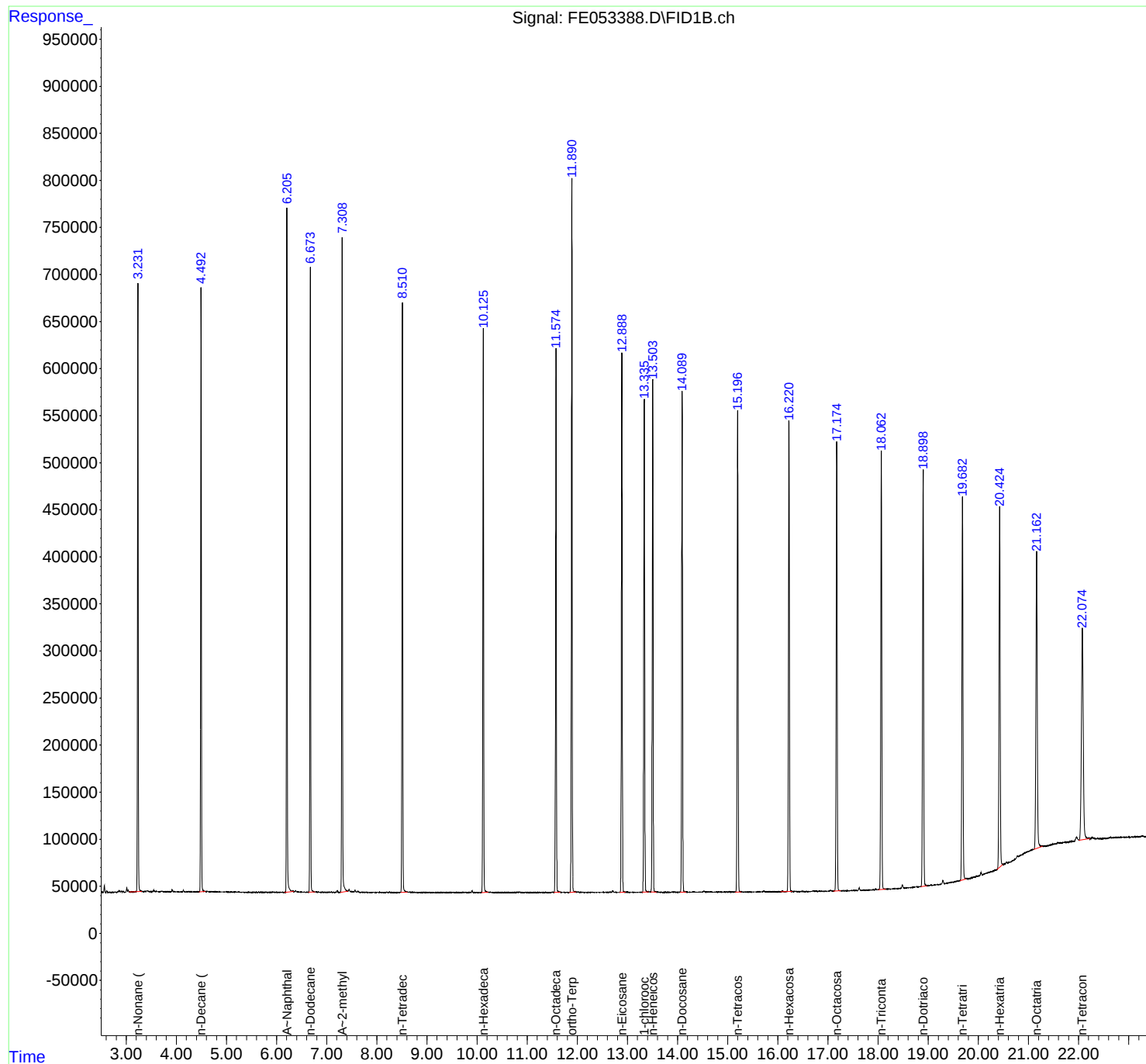
(m)=manual int.

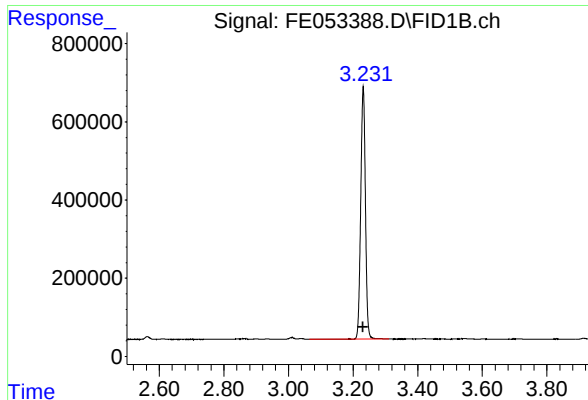
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053388.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 16:35
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

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

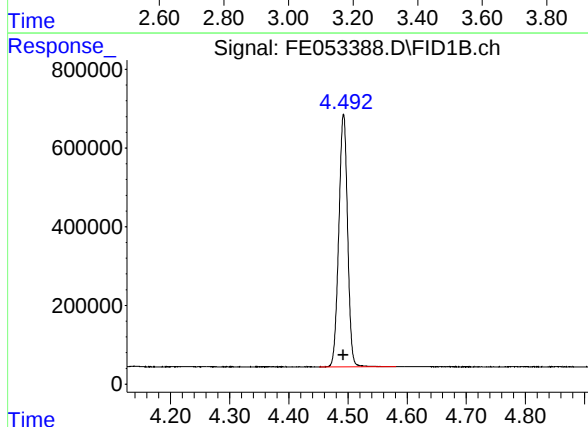




#1 n-Nonane (C9)

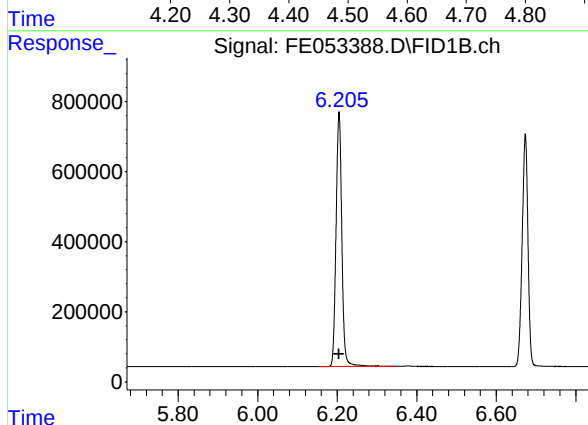
R.T.: 3.231 min
Delta R.T.: 0.000 min
Response: 6562926
Conc: 49.07 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



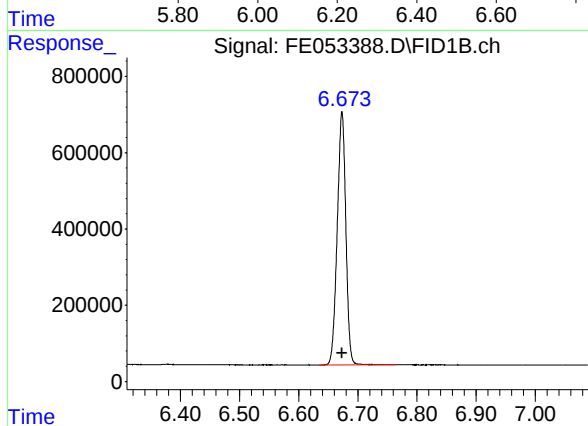
#2 n-Decane (C10)

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



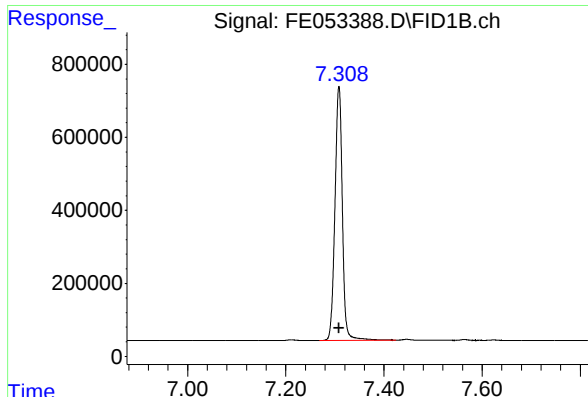
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

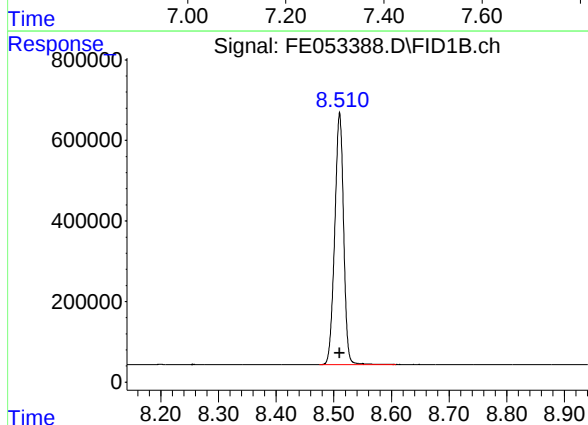
R.T.: 6.673 min
Delta R.T.: 0.000 min
Response: 6713832
Conc: 48.90 ug/ml



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

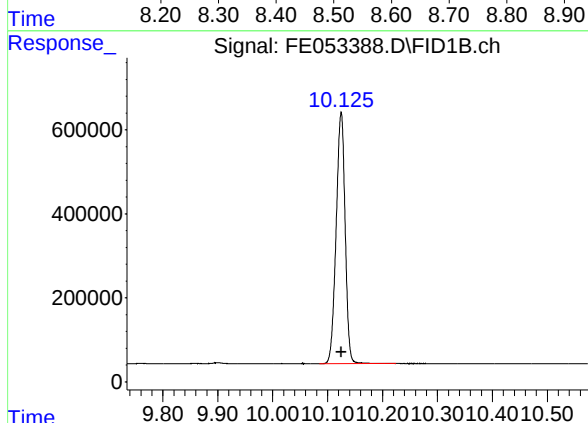
R.T.: 7.308 min
Delta R.T.: 0.000 min
Response: 7291791
Conc: 48.92 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



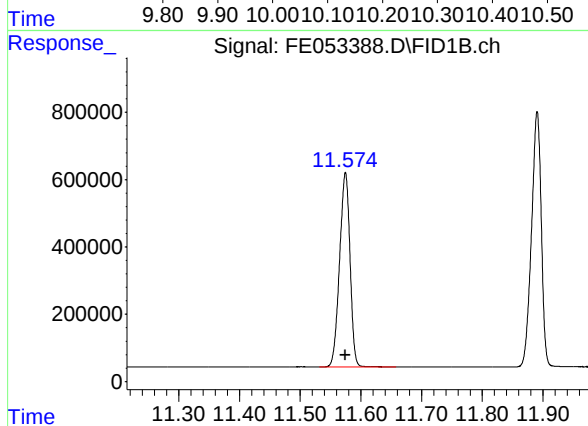
#6 n-Tetradecane (C14)

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



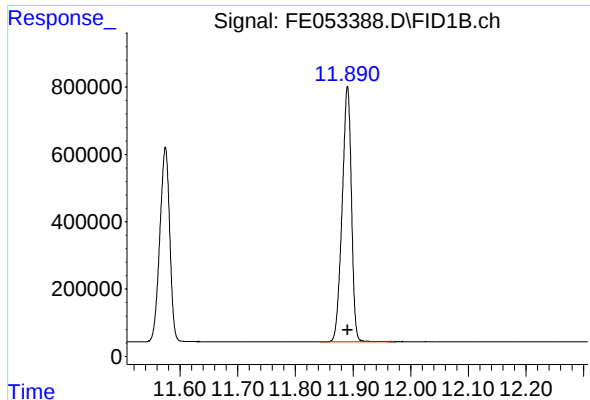
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

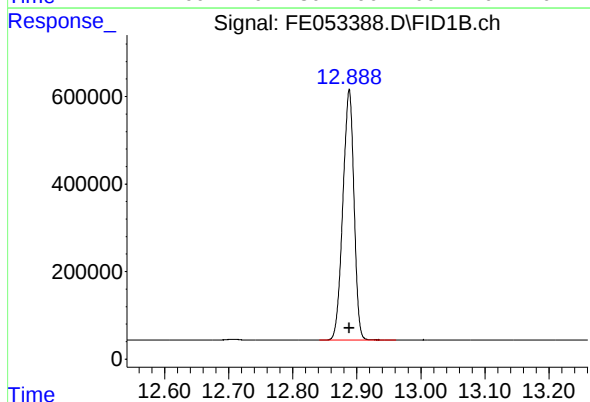
R.T.: 11.574 min
Delta R.T.: 0.000 min
Response: 6892409
Conc: 48.74 ug/ml



#9 ortho-Terphenyl (SURR)

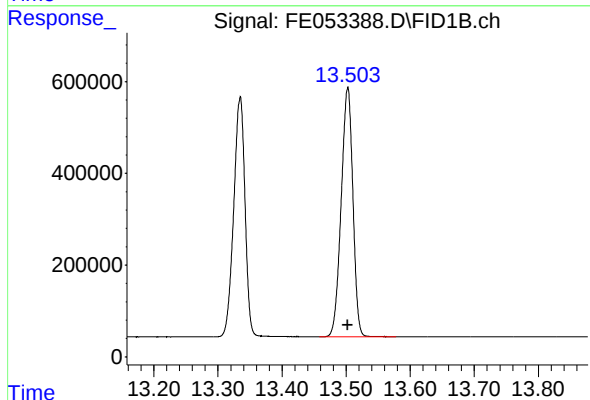
R.T.: 11.890 min
Delta R.T.: 0.000 min
Response: 8499004
Conc: 48.63 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



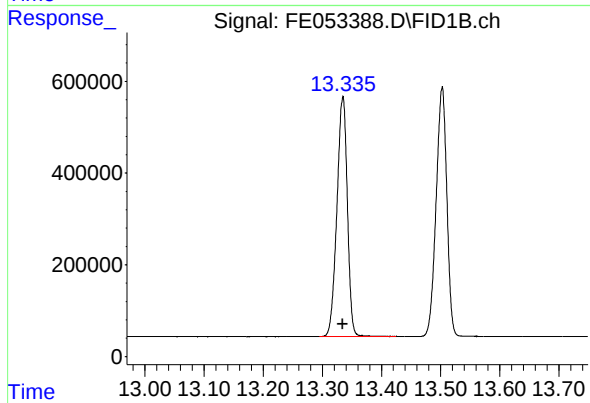
#10 n-Eicosane (C20)

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



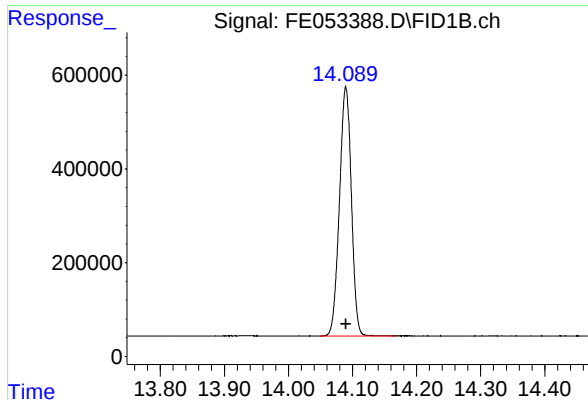
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

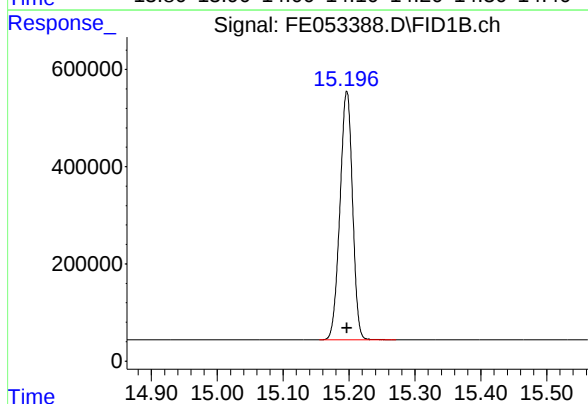
R.T.: 13.334 min
Delta R.T.: 0.000 min
Response: 6421755
Conc: 48.85 ug/ml



#13 n-Docosane (C22)

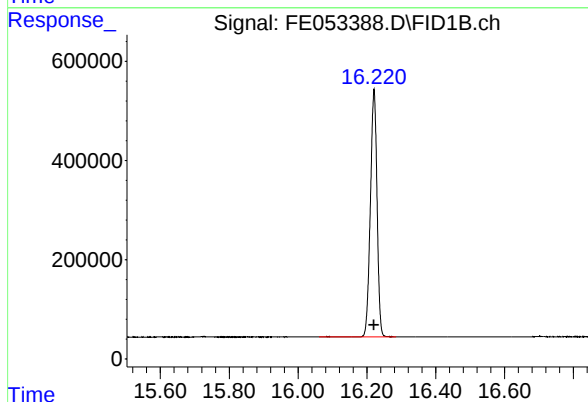
R.T.: 14.090 min
Delta R.T.: 0.000 min
Response: 6821686
Conc: 48.99 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



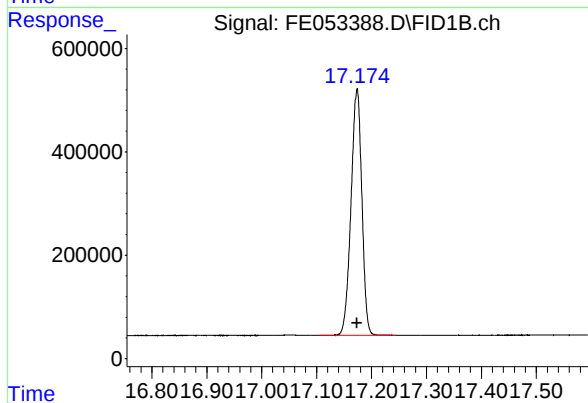
#14 n-Tetracosane (C24)

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



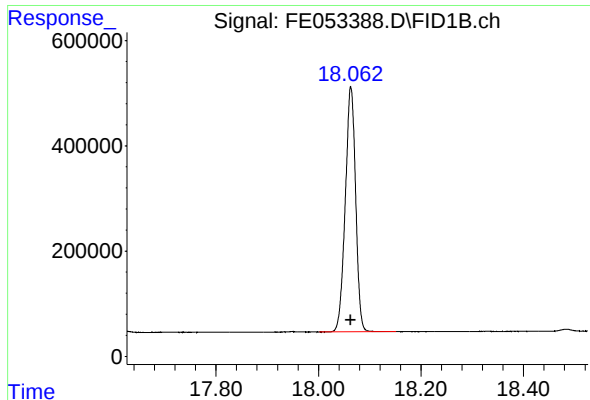
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

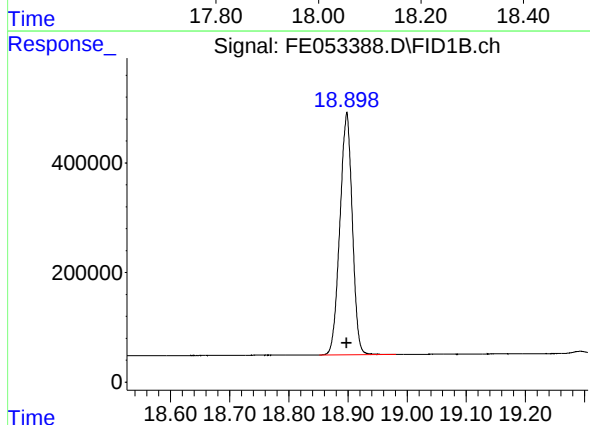
R.T.: 17.173 min
Delta R.T.: 0.000 min
Response: 6535838
Conc: 49.29 ug/ml



#17 n-Tricontane (C30)

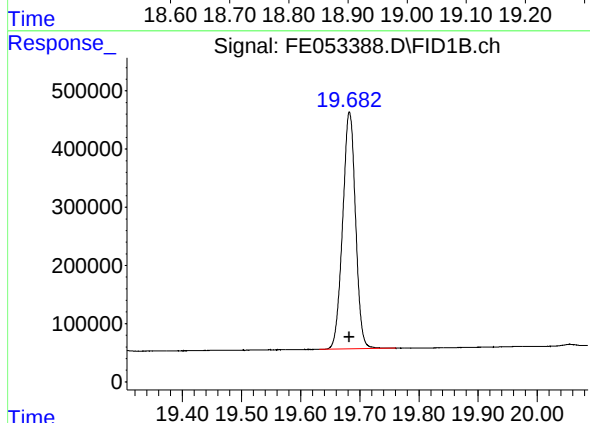
R.T.: 18.063 min
Delta R.T.: 0.000 min
Response: 6526749
Conc: 49.41 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



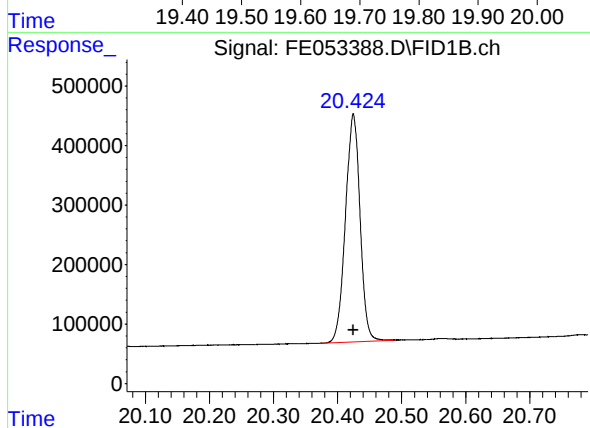
#18 n-Dotriacontane (C32)

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



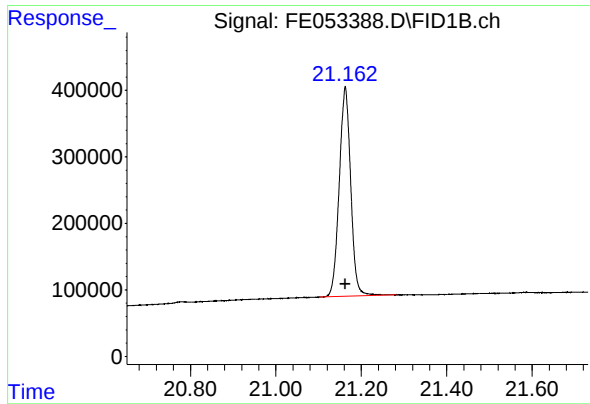
#19 n-Tetatriacontane (C34)

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



#20 n-Hexatriacontane (C36)

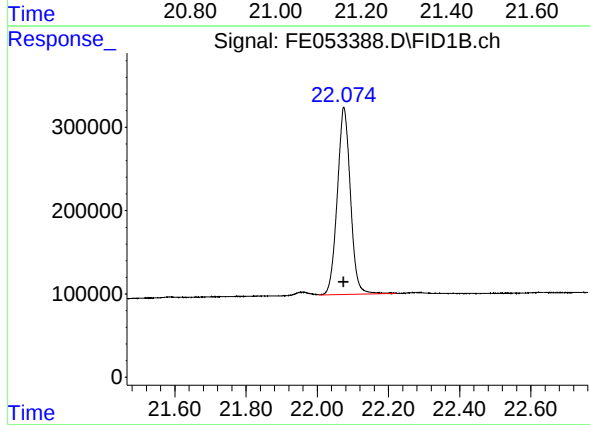
R.T.: 20.425 min
Delta R.T.: 0.000 min
Response: 6039761
Conc: 49.64 ug/ml



#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

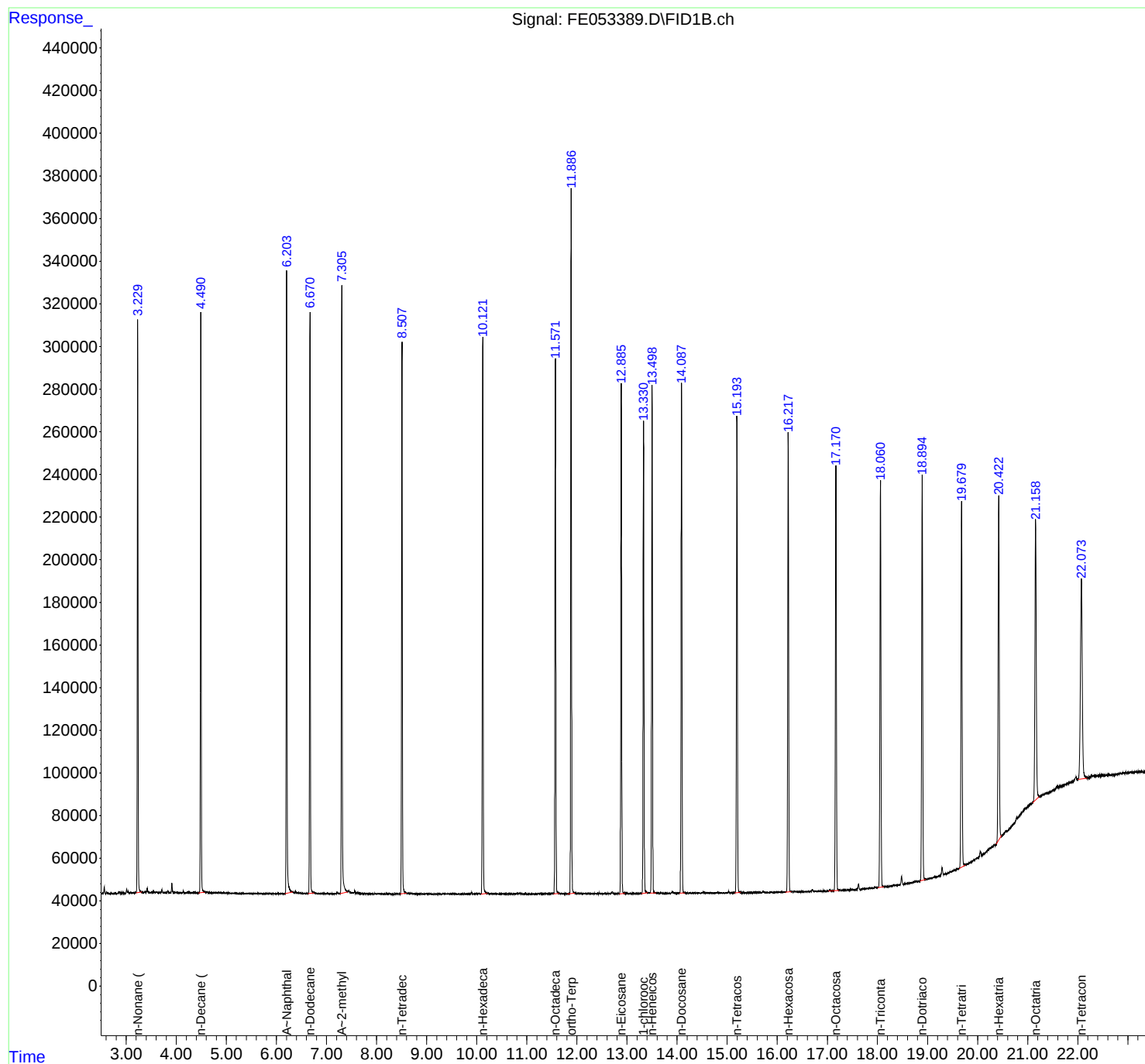
(m)=manual int.

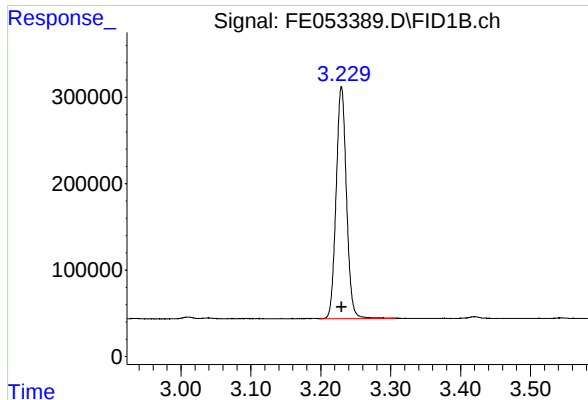
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053389.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 17:05
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

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

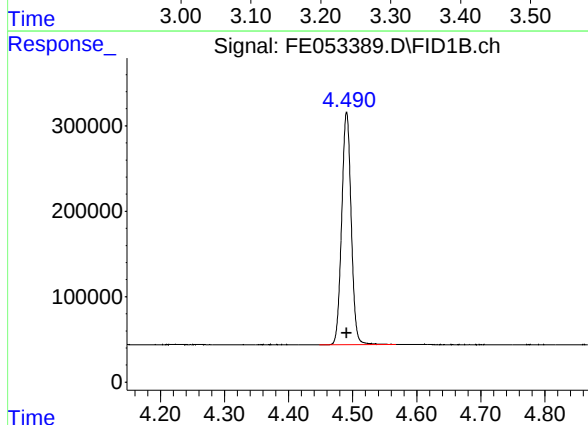




#1 n-Nonane (C9)

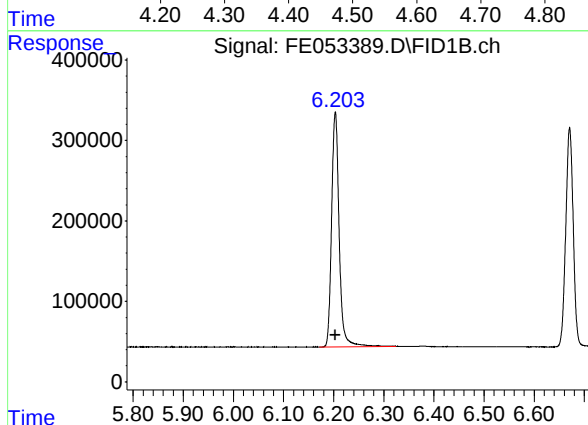
R.T.: 3.230 min
Delta R.T.: 0.000 min
Response: 2758721
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



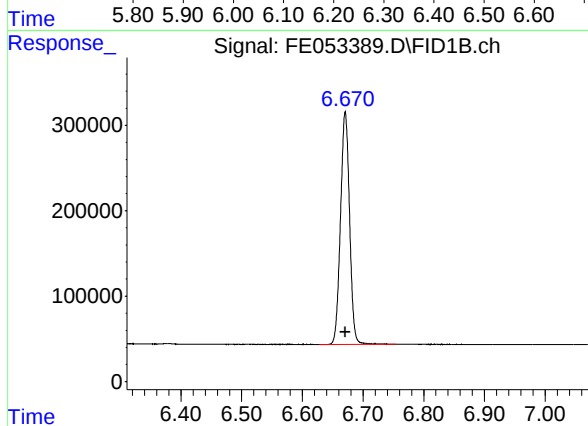
#2 n-Decane (C10)

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



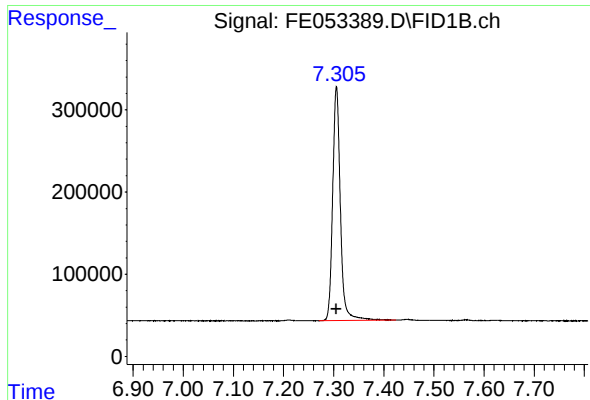
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

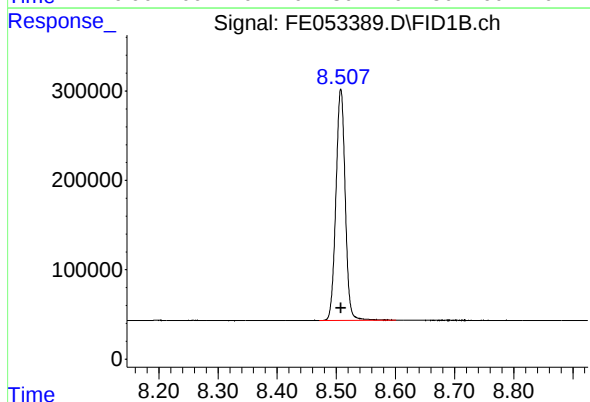
R.T.: 6.671 min
Delta R.T.: 0.000 min
Response: 2823242
Conc: 20.00 ug/ml



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

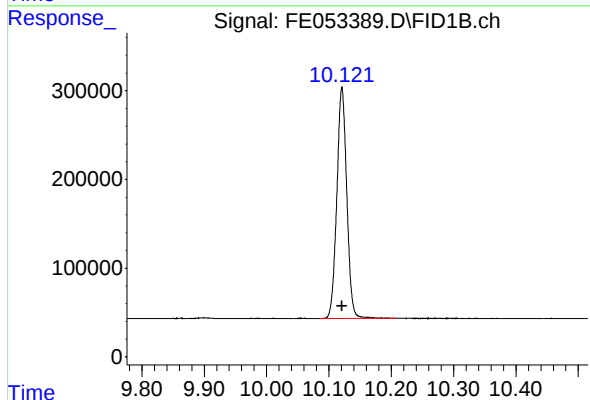
R.T.: 7.306 min
Delta R.T.: 0.000 min
Response: 3039727
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



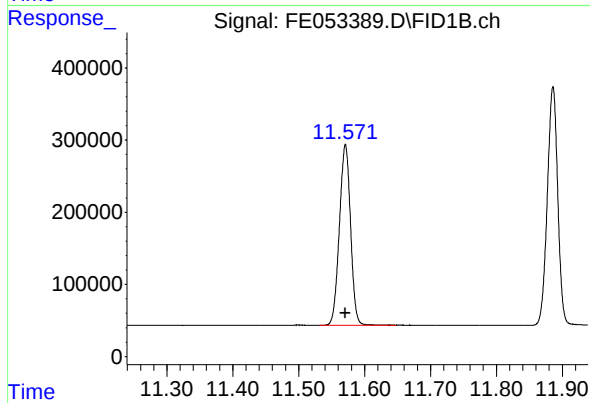
#6 n-Tetradecane (C14)

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



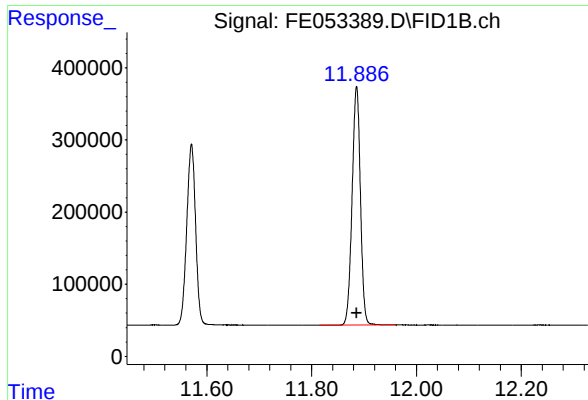
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

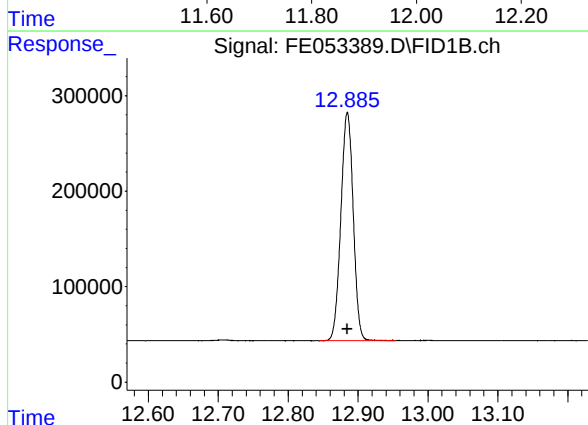
R.T.: 11.571 min
Delta R.T.: 0.000 min
Response: 2944162
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

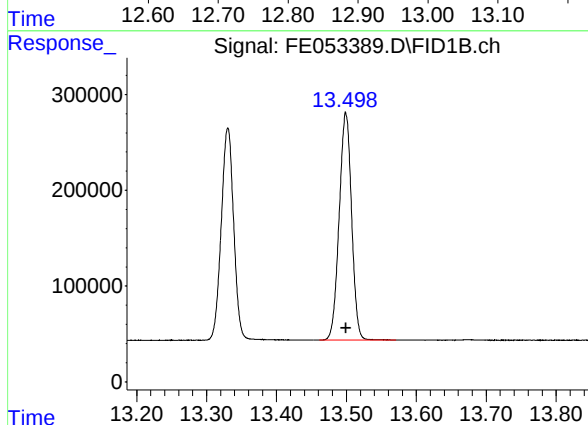
R.T.: 11.886 min
Delta R.T.: 0.000 min
Response: 3636748
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



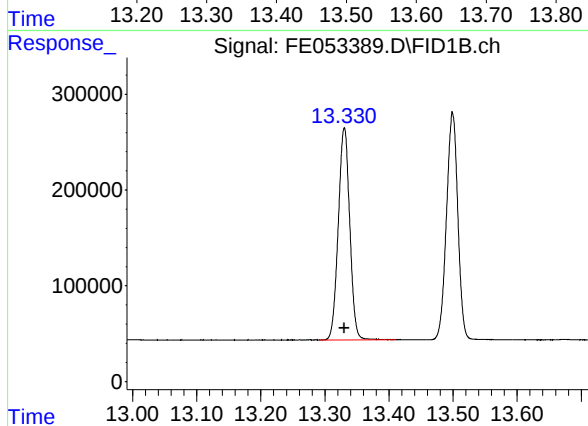
#10 n-Eicosane (C20)

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



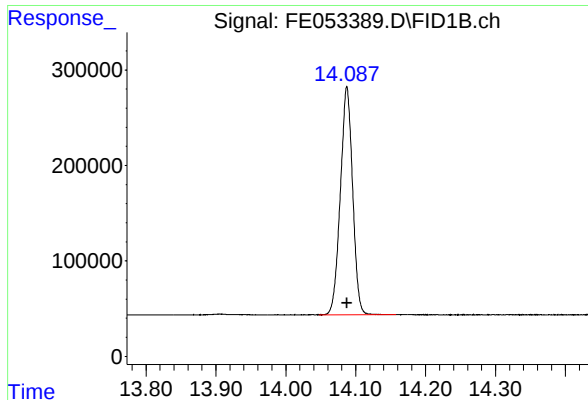
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

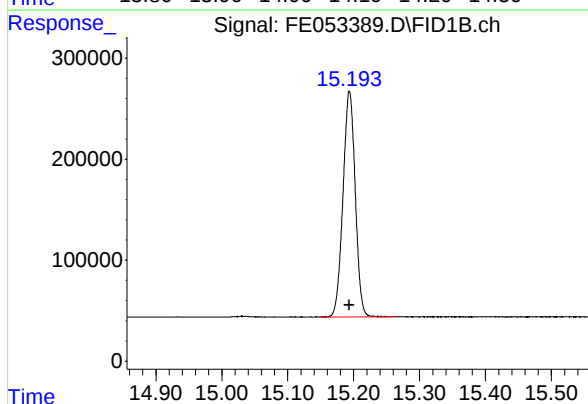
R.T.: 13.330 min
Delta R.T.: 0.000 min
Response: 2736436
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

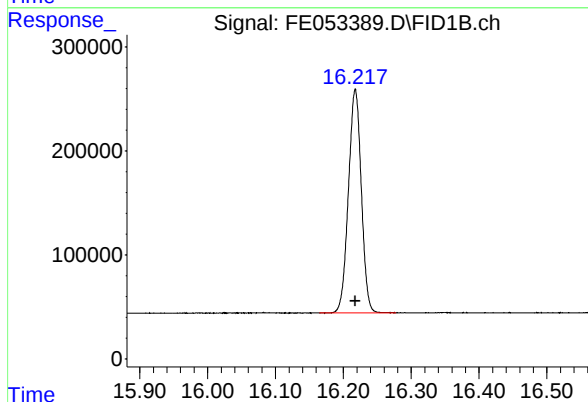
R.T.: 14.087 min
Delta R.T.: 0.000 min
Response: 2909579
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



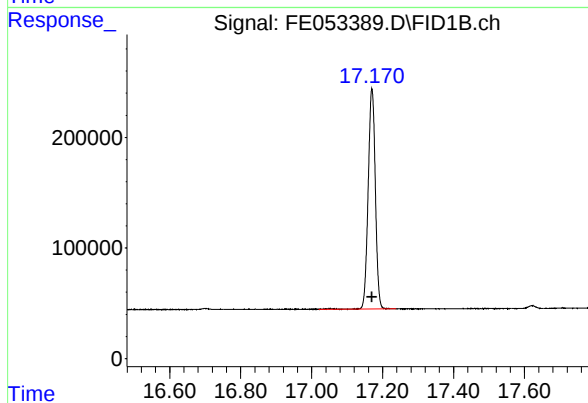
#14 n-Tetracosane (C24)

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



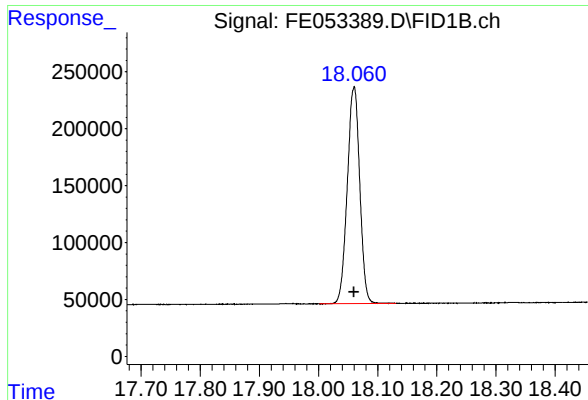
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

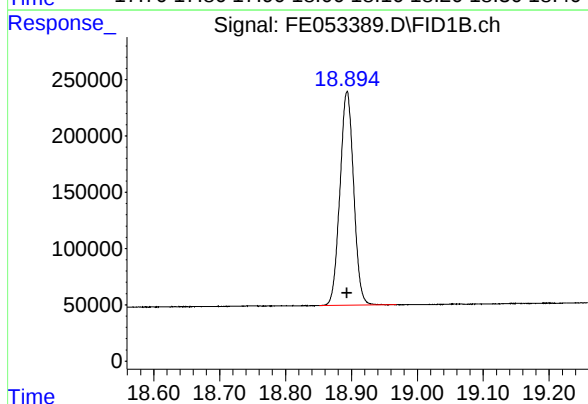
R.T.: 17.170 min
Delta R.T.: 0.000 min
Response: 2789638
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

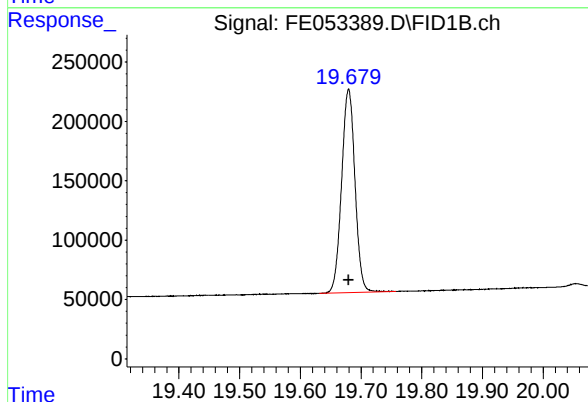
R.T.: 18.060 min
Delta R.T.: 0.000 min
Response: 2782832
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



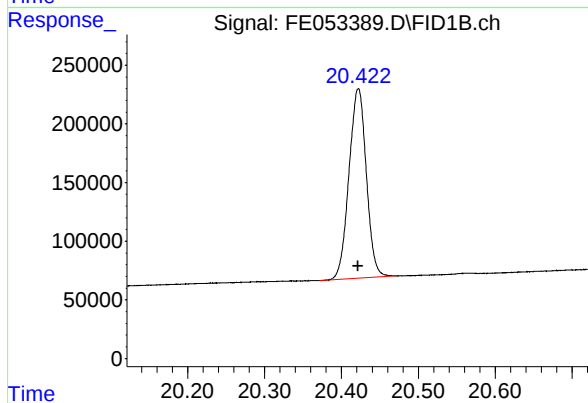
#18 n-Dotriacontane (C32)

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



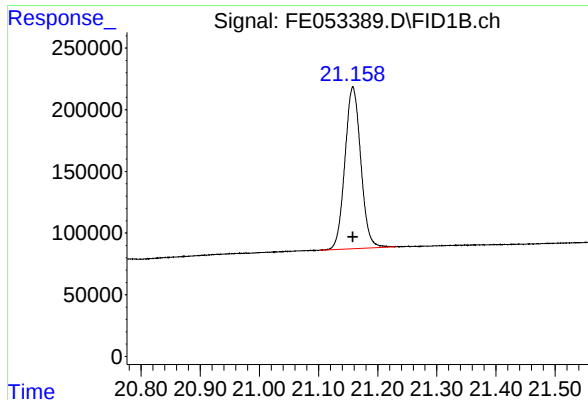
#19 n-Tetatriacontane (C34)

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



#20 n-Hexatriacontane (C36)

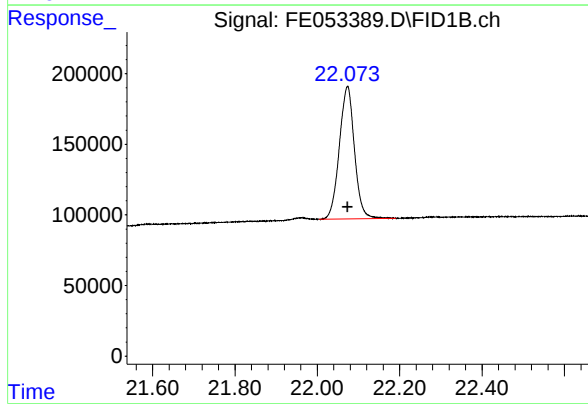
R.T.: 20.422 min
Delta R.T.: 0.000 min
Response: 2526868
Conc: 20.00 ug/ml



#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

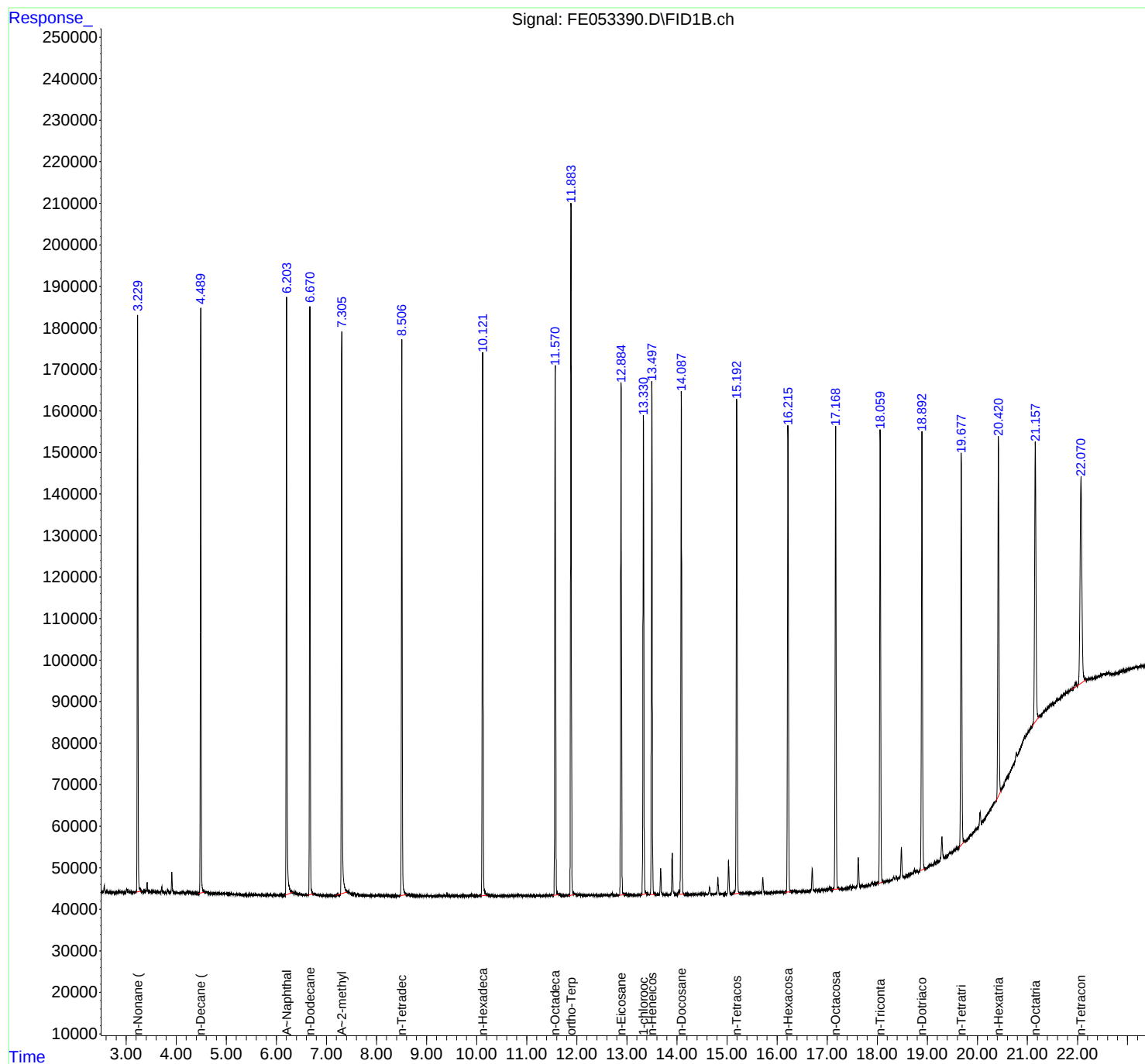
(m)=manual int.

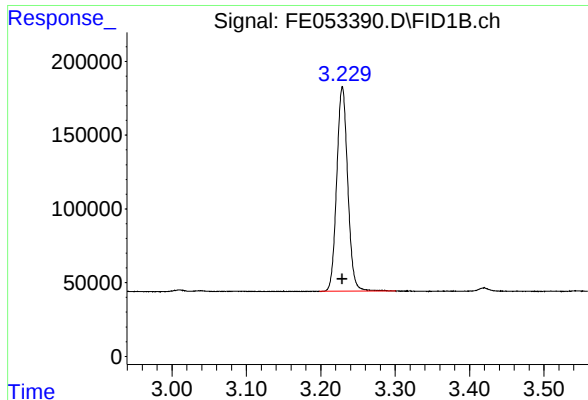
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053390.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 17:36
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

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

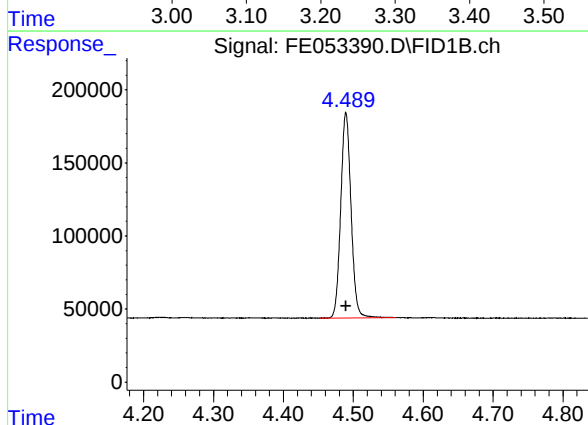




#1 n-Nonane (C9)

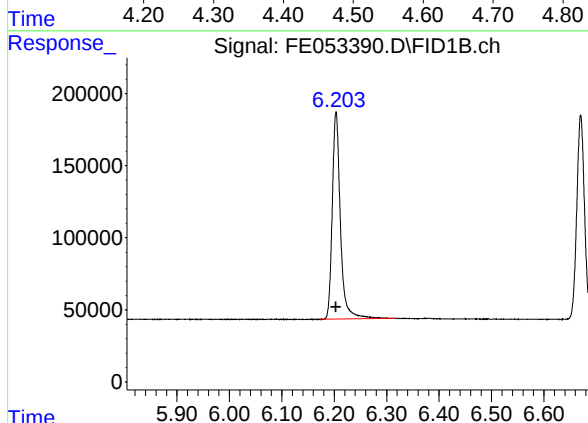
R.T.: 3.229 min
Delta R.T.: 0.000 min
Response: 1427931
Conc: 10.50 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



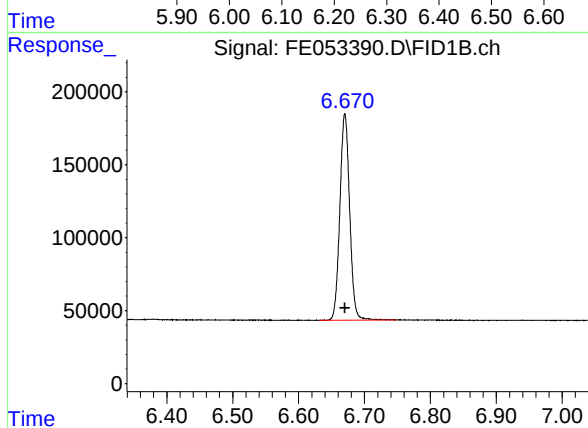
#2 n-Decane (C10)

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



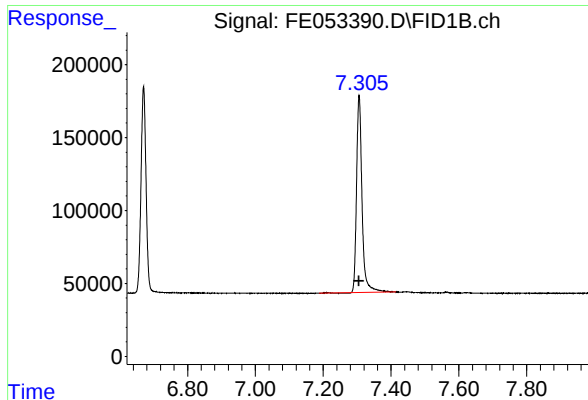
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

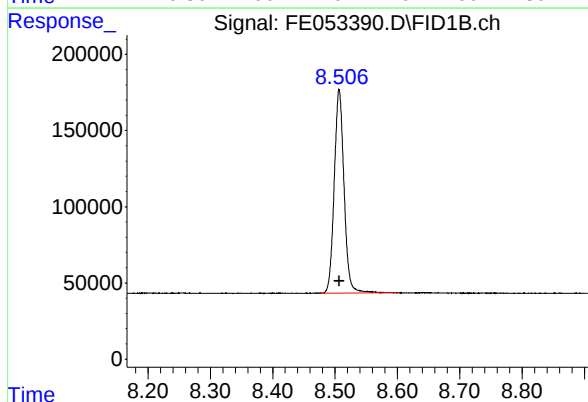
R.T.: 6.670 min
Delta R.T.: 0.000 min
Response: 1457518
Conc: 10.45 ug/ml



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

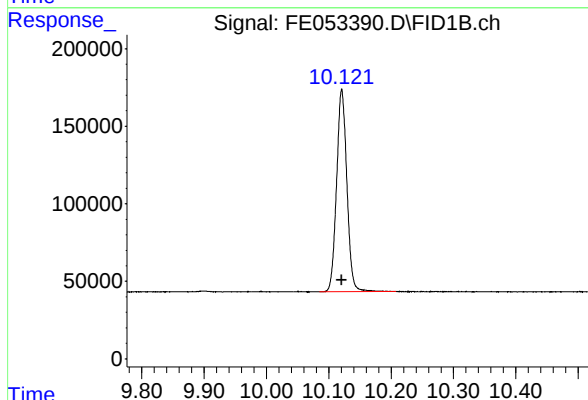
R.T.: 7.306 min
Delta R.T.: 0.000 min
Response: 1522133
Conc: 10.16 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



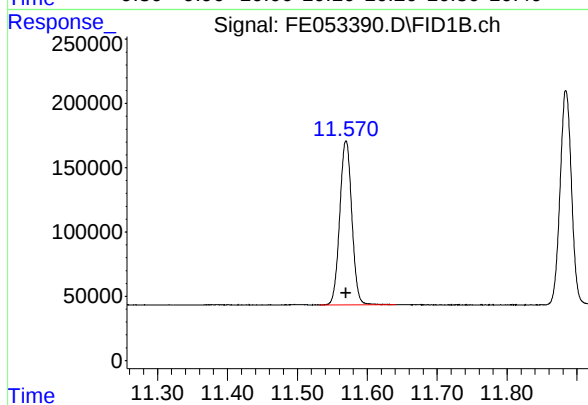
#6 n-Tetradecane (C14)

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



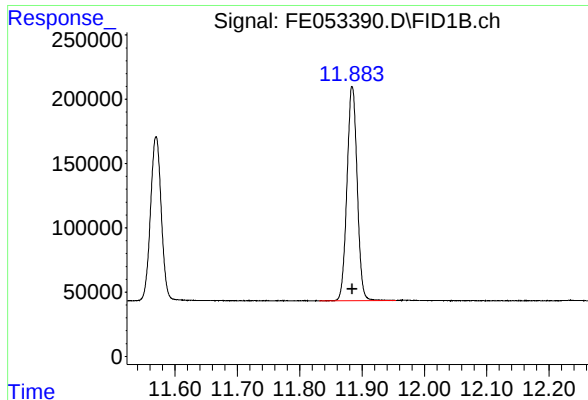
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

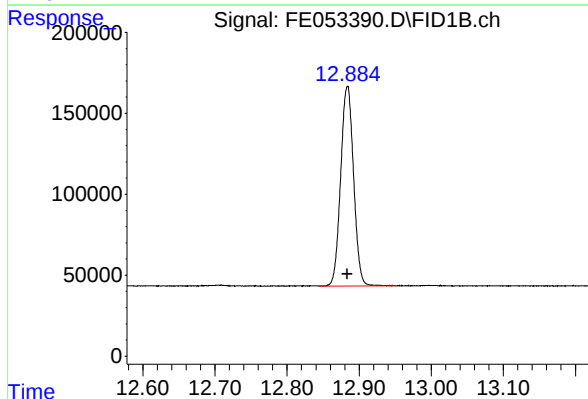
R.T.: 11.570 min
Delta R.T.: 0.000 min
Response: 1528768
Conc: 10.60 ug/ml



#9 ortho-Terphenyl (SURR)

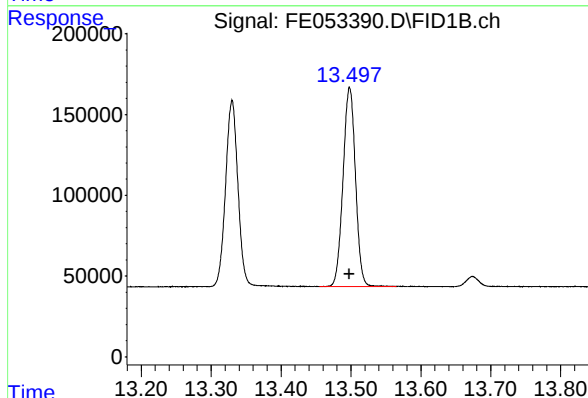
R.T.: 11.884 min
Delta R.T.: 0.000 min
Response: 1893058
Conc: 10.61 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



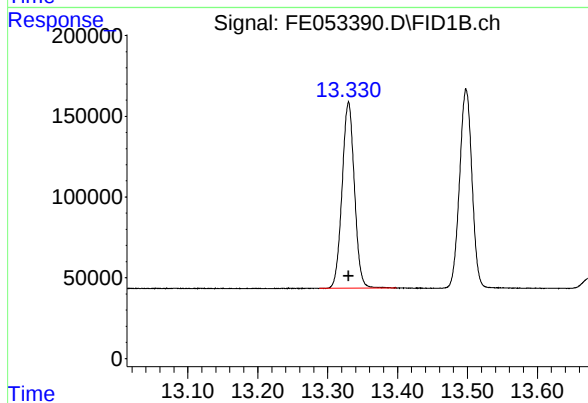
#10 n-Eicosane (C20)

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



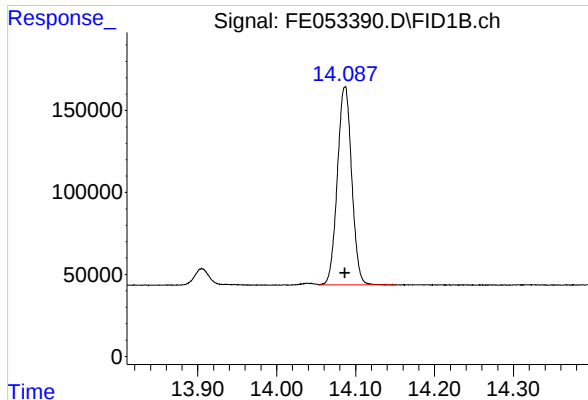
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

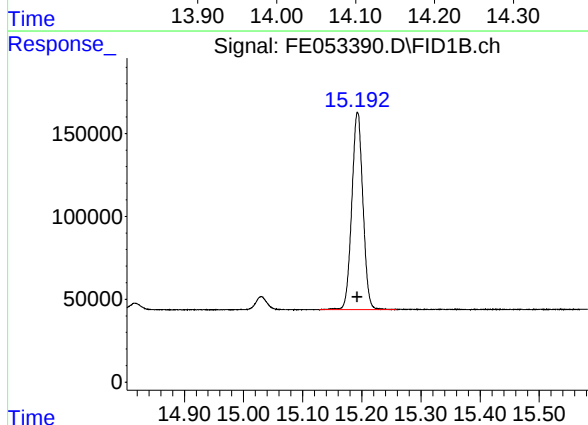
R.T.: 13.330 min
Delta R.T.: 0.000 min
Response: 1412249
Conc: 10.55 ug/ml



#13 n-Docosane (C22)

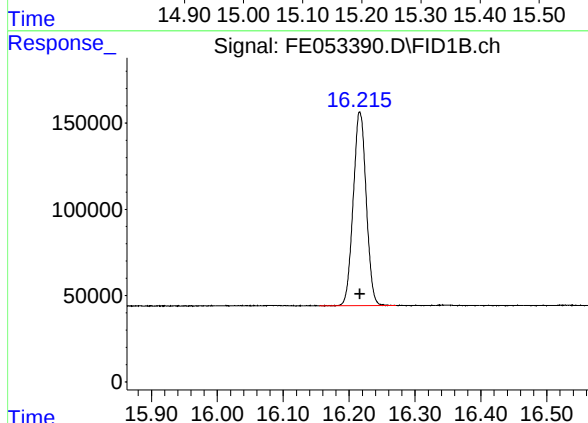
R.T.: 14.086 min
Delta R.T.: 0.000 min
Response: 1528369
Conc: 10.71 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



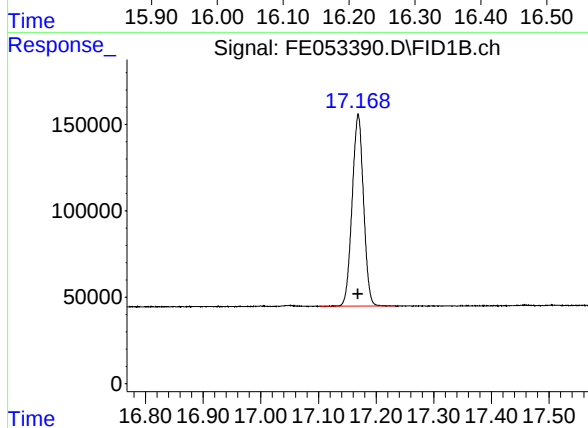
#14 n-Tetracosane (C24)

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



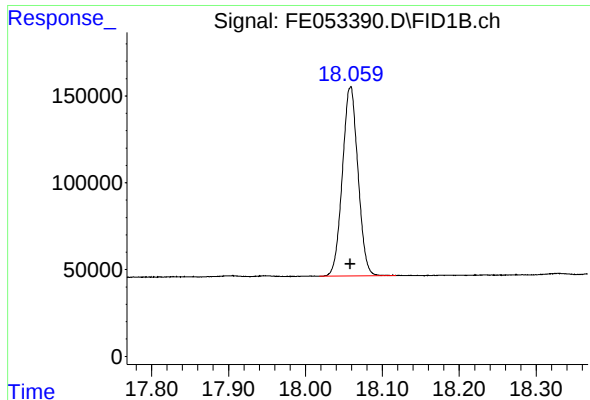
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

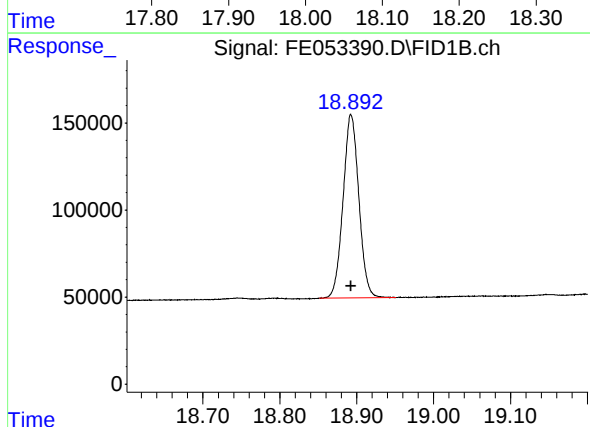
R.T.: 17.169 min
Delta R.T.: 0.000 min
Response: 1526585
Conc: 11.09 ug/ml



#17 n-Tricontane (C30)

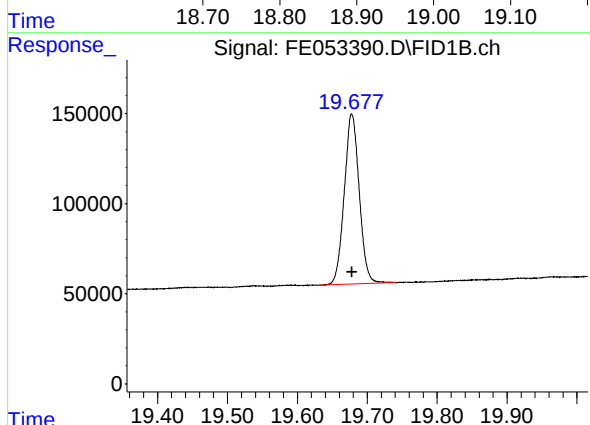
R.T.: 18.058 min
Delta R.T.: 0.000 min
Response: 1529997
Conc: 11.14 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



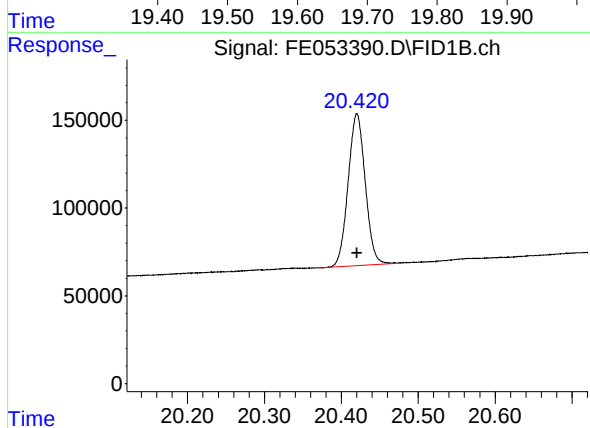
#18 n-Dotriacontane (C32)

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



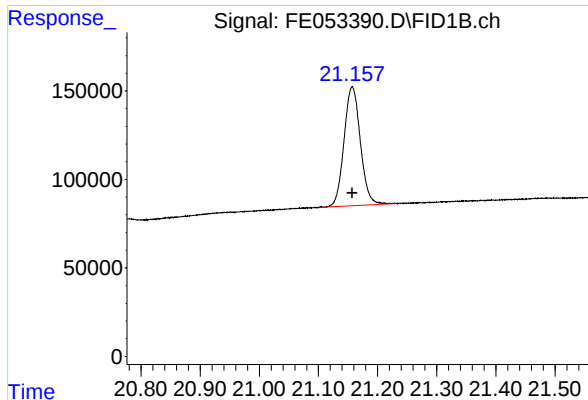
#19 n-Tetatriacontane (C34)

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



#20 n-Hexatriacontane (C36)

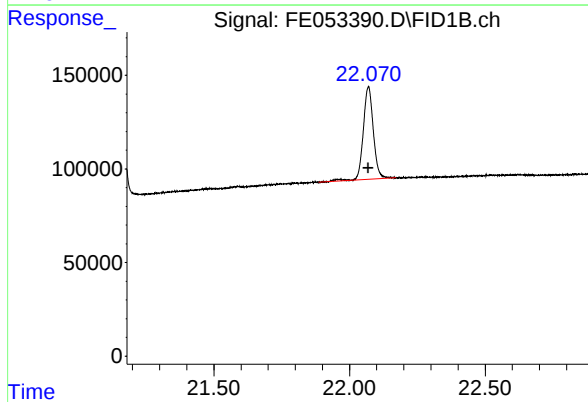
R.T.: 20.420 min
Delta R.T.: 0.000 min
Response: 1333734
Conc: 10.70 ug/ml



#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

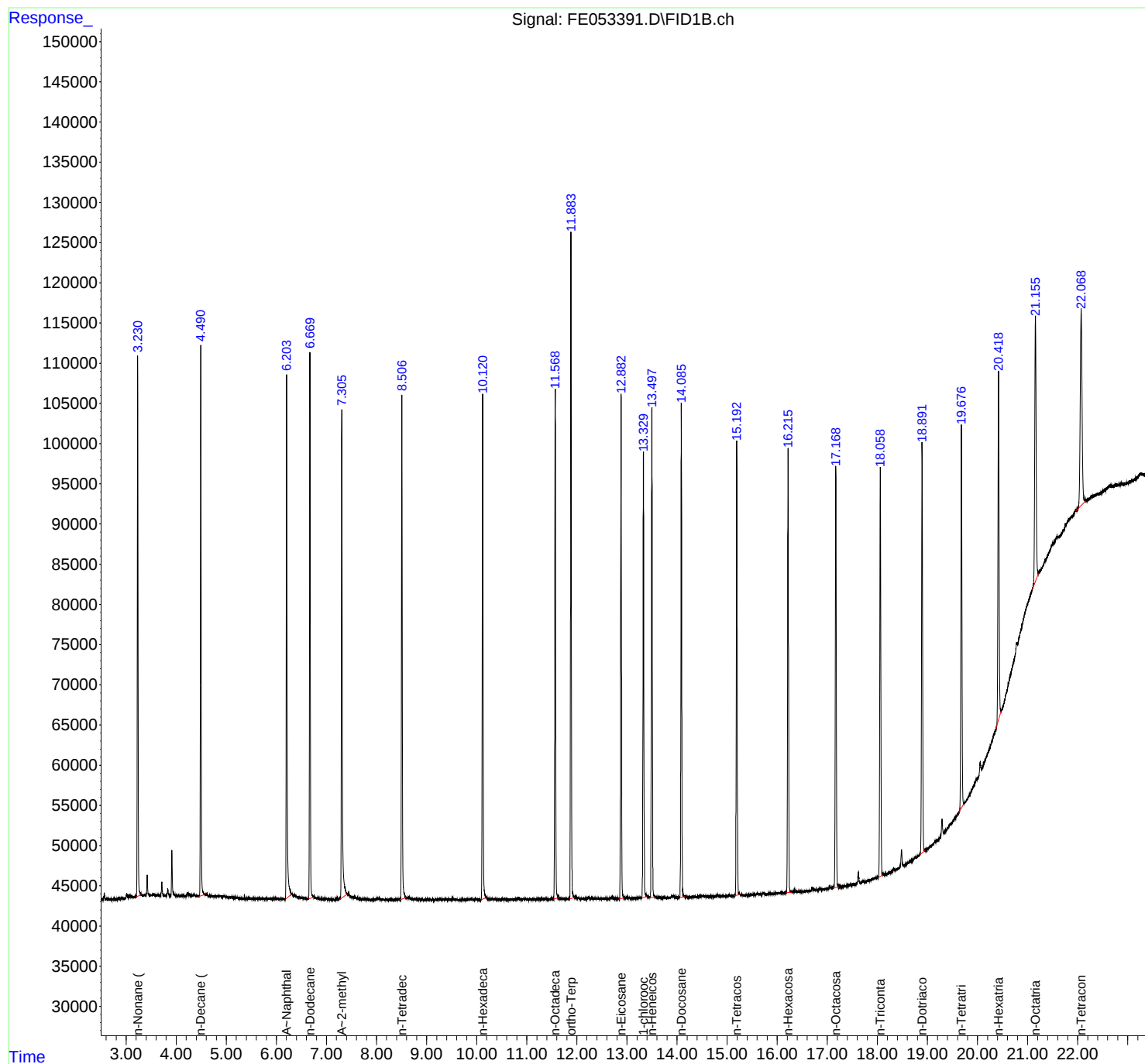
(m)=manual int.

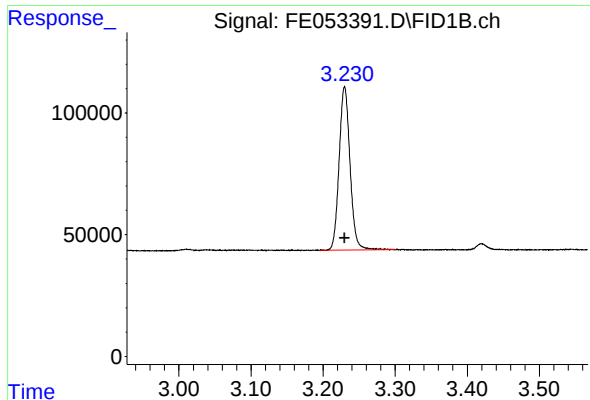
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053391.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 18:06
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

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

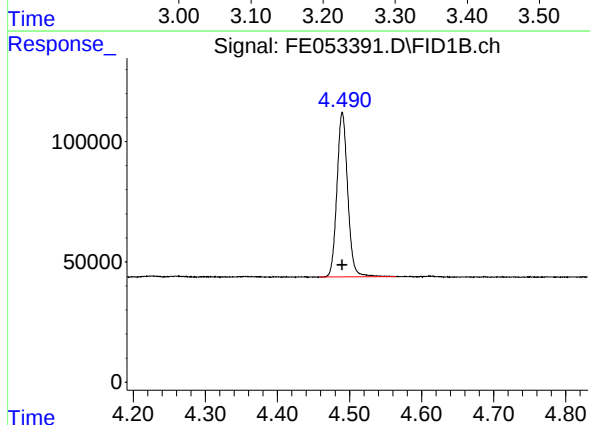




#1 n-Nonane (C9)

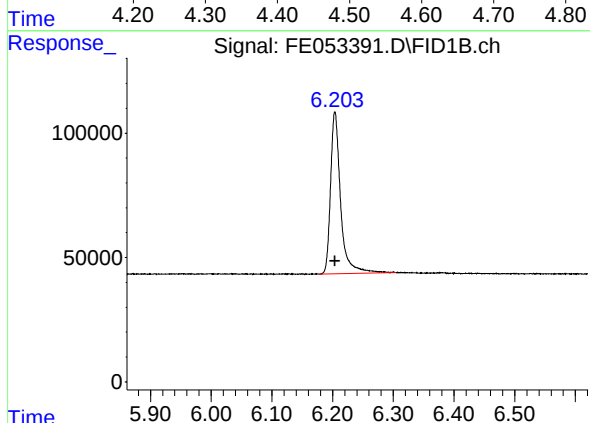
R.T.: 3.230 min
Delta R.T.: 0.000 min
Response: 707563
Conc: 5.16 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



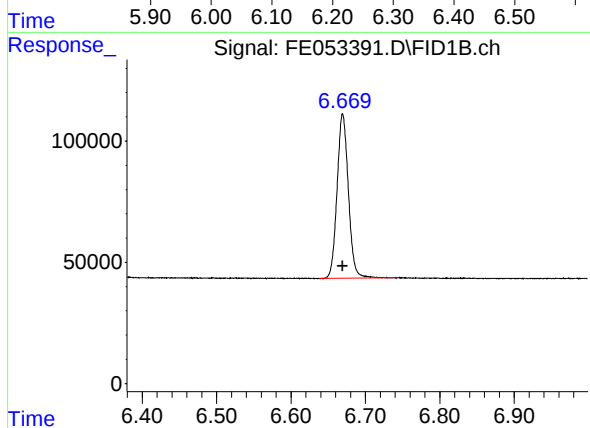
#2 n-Decane (C10)

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



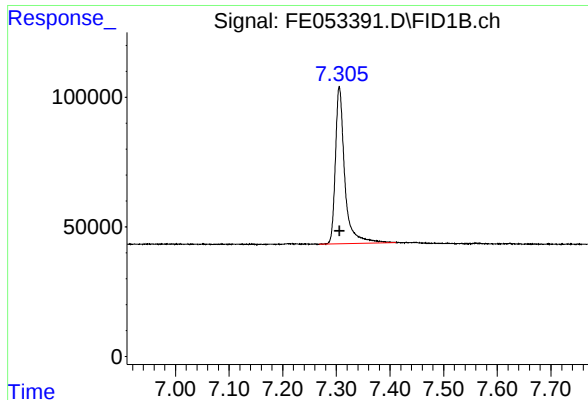
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

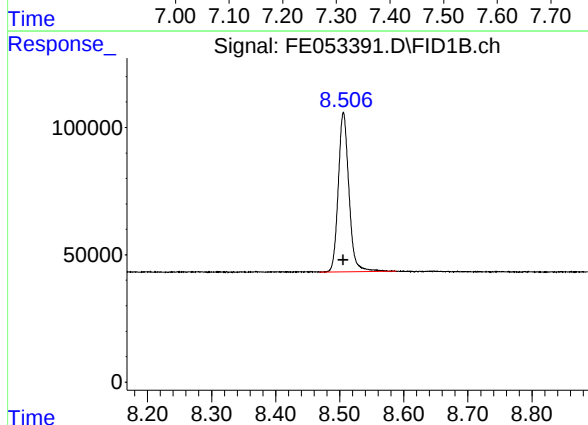
R.T.: 6.670 min
Delta R.T.: 0.000 min
Response: 717848
Conc: 5.12 ug/ml



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

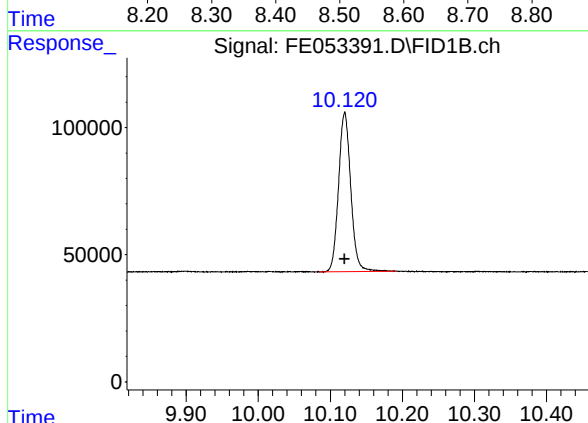
R.T.: 7.306 min
Delta R.T.: 0.000 min
Response: 735745
Conc: 4.93 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



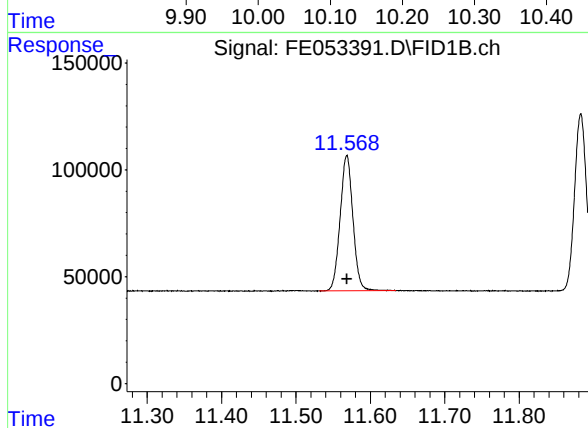
#6 n-Tetradecane (C14)

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



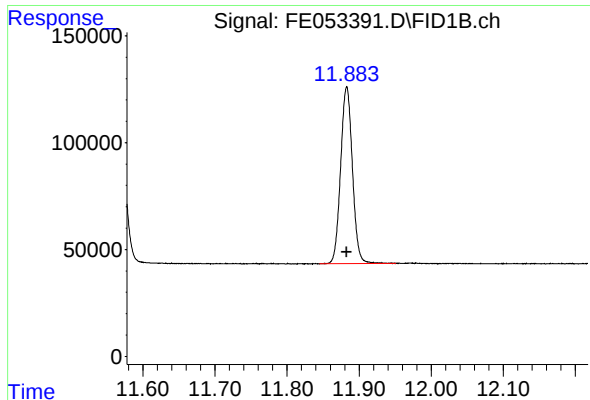
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

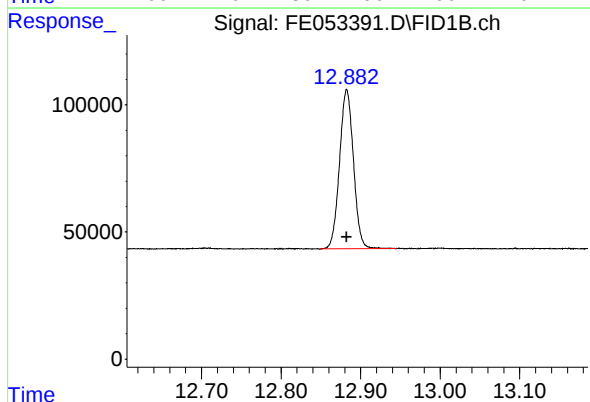
R.T.: 11.568 min
Delta R.T.: 0.000 min
Response: 757847
Conc: 5.20 ug/ml



#9 ortho-Terphenyl (SURRE)

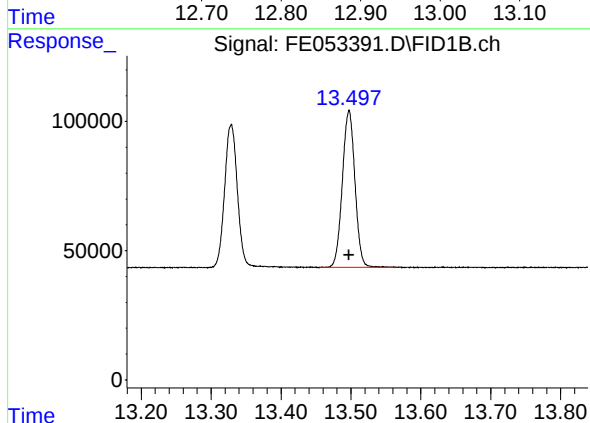
R.T.: 11.883 min
Delta R.T.: 0.000 min
Response: 940709
Conc: 5.22 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



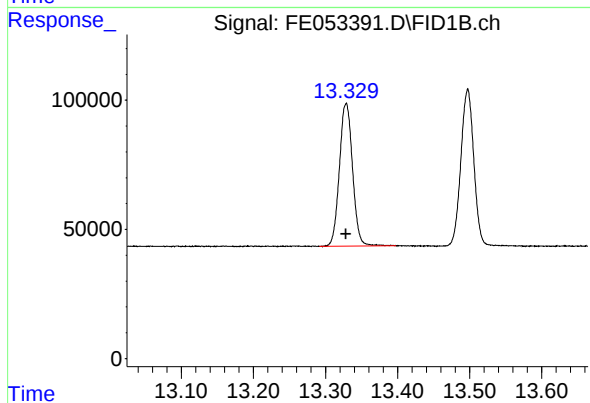
#10 n-Eicosane (C20)

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



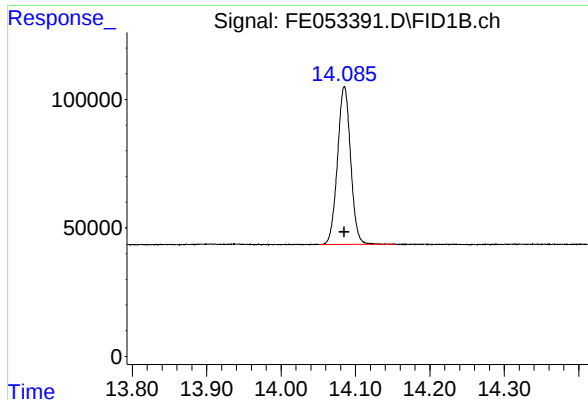
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURRE)

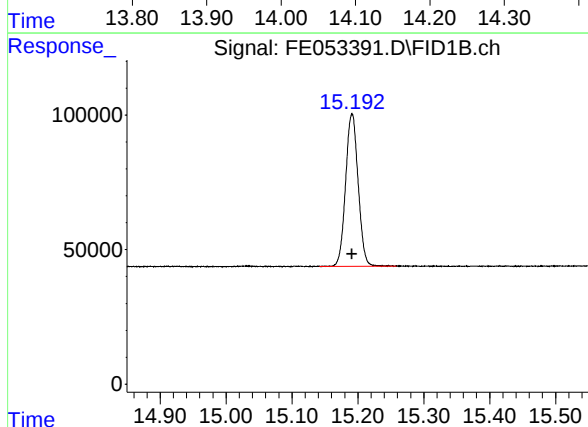
R.T.: 13.329 min
Delta R.T.: 0.000 min
Response: 701389
Conc: 5.19 ug/ml



#13 n-Docosane (C22)

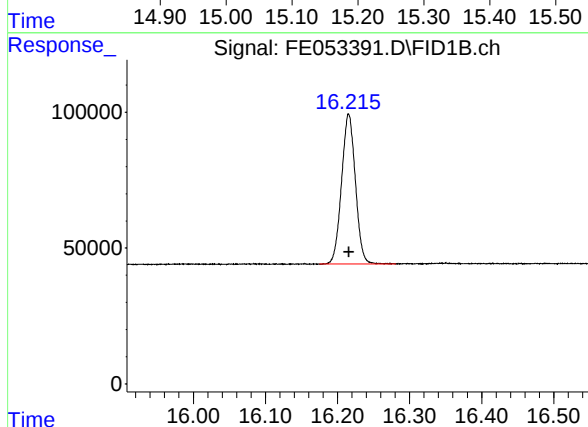
R.T.: 14.085 min
Delta R.T.: 0.000 min
Response: 754554
Conc: 5.23 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



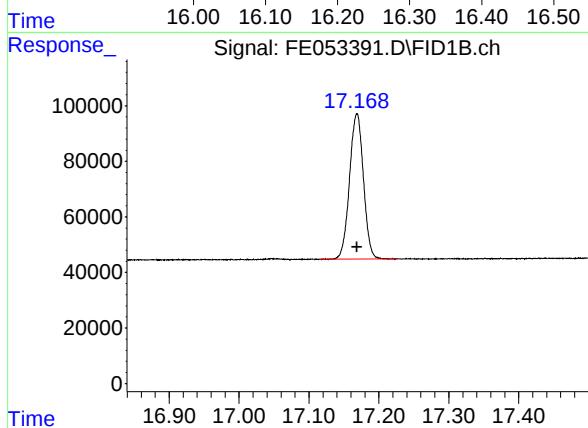
#14 n-Tetracosane (C24)

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



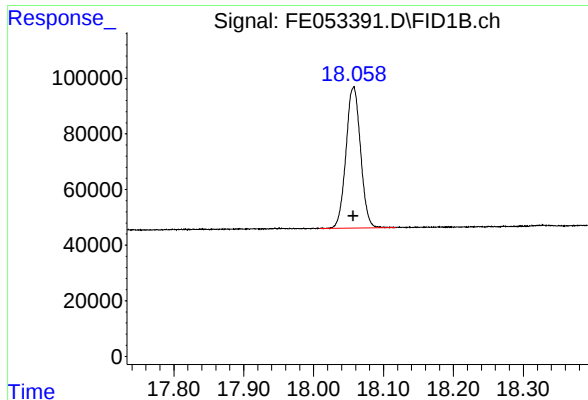
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

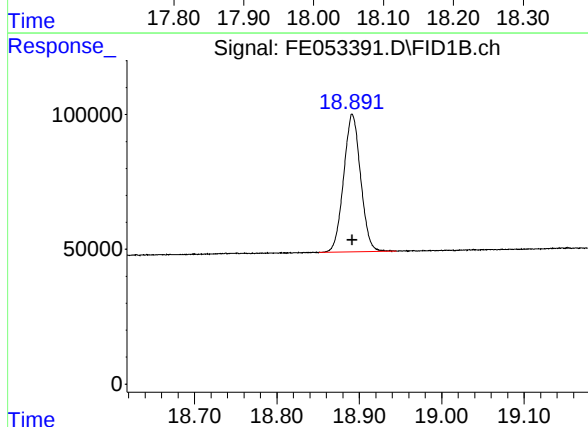
R.T.: 17.168 min
Delta R.T.: 0.000 min
Response: 725773
Conc: 5.22 ug/ml



#17 n-Tricontane (C30)

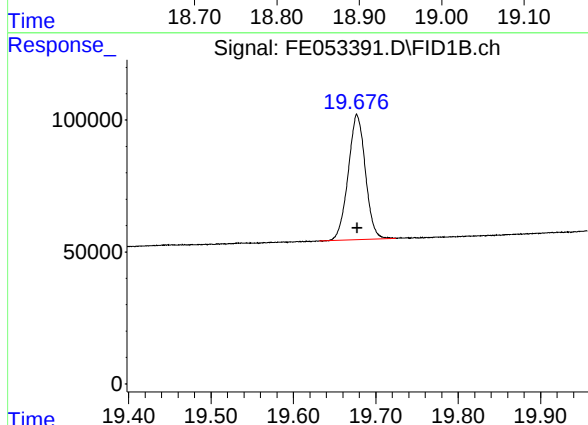
R.T.: 18.057 min
Delta R.T.: 0.000 min
Response: 733475
Conc: 5.27 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



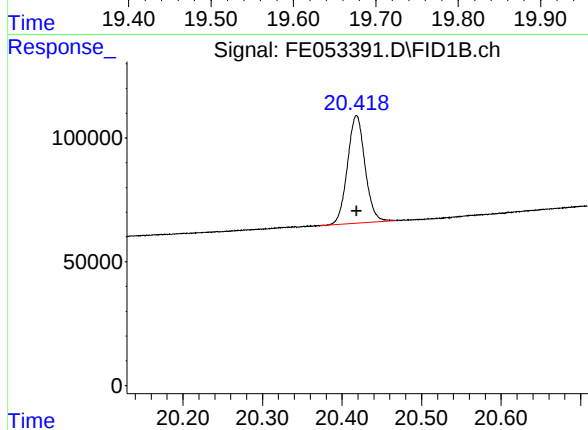
#18 n-Dotriacontane (C32)

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



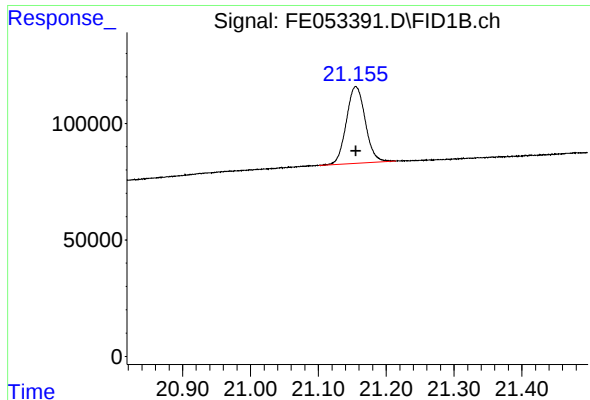
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

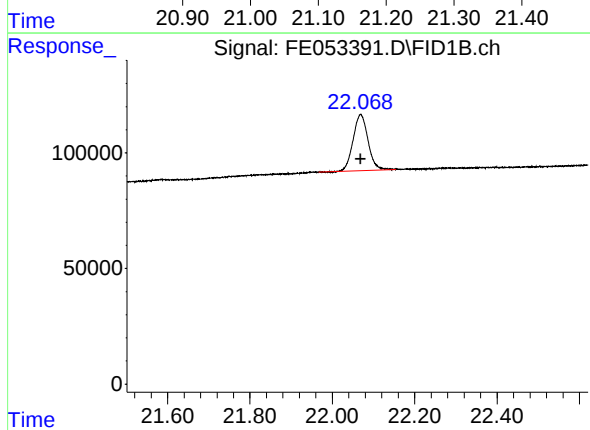
R.T.: 20.418 min
Delta R.T.: 0.000 min
Response: 664340
Conc: 5.26 ug/ml



#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

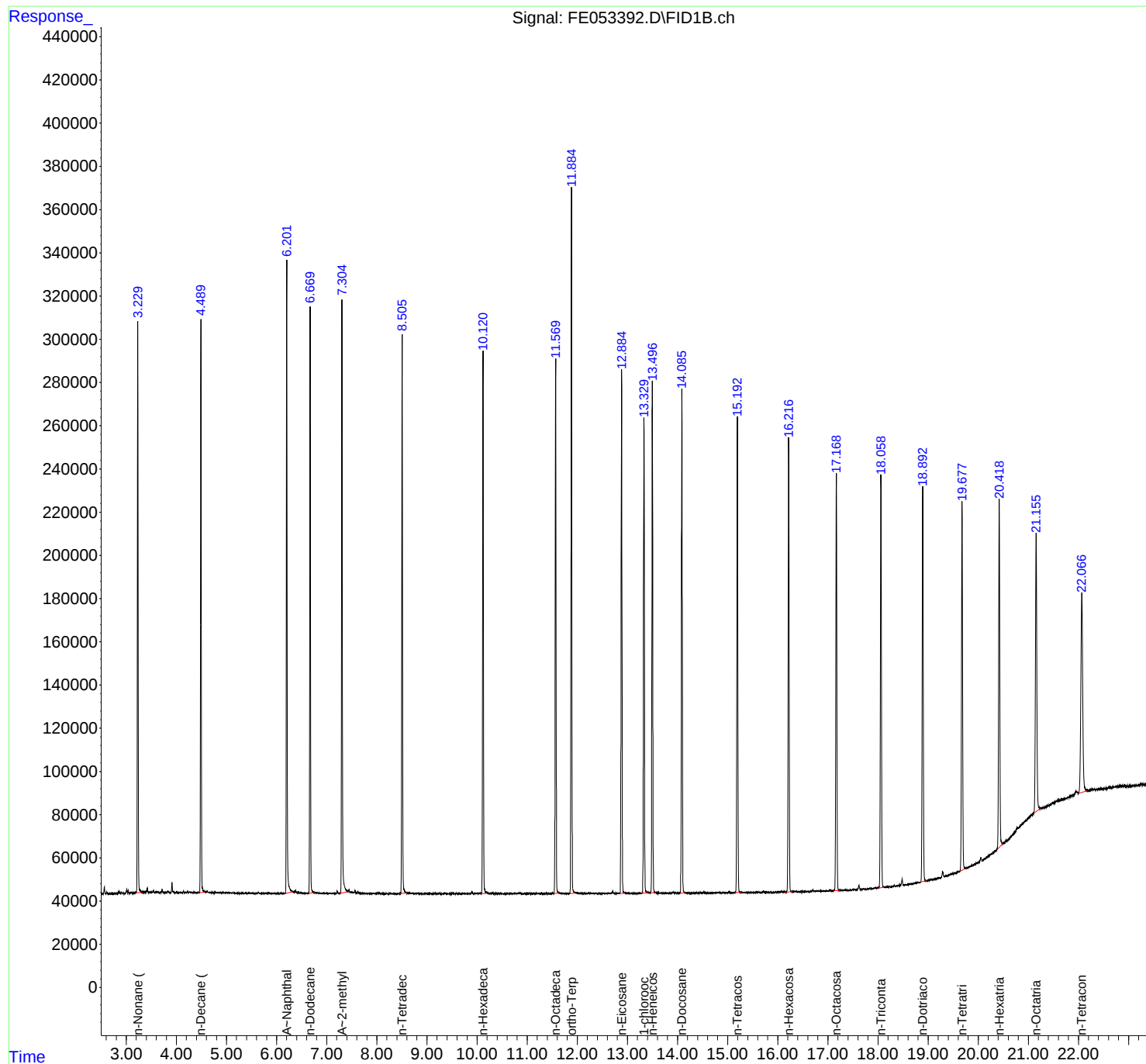
(m)=manual int.

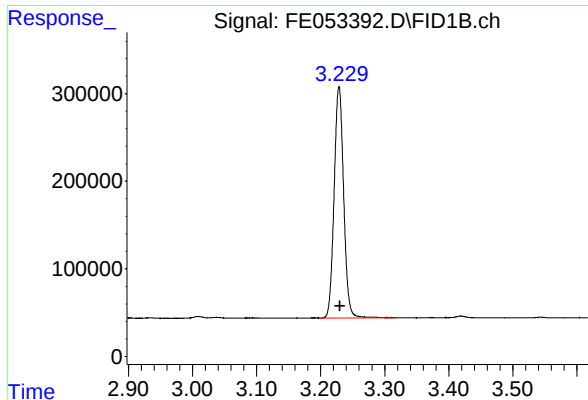
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE041725AL\
Data File : FE053392.D
Signal(s) : FID1B.ch
Acq On : 16 Apr 2025 18:36
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

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)

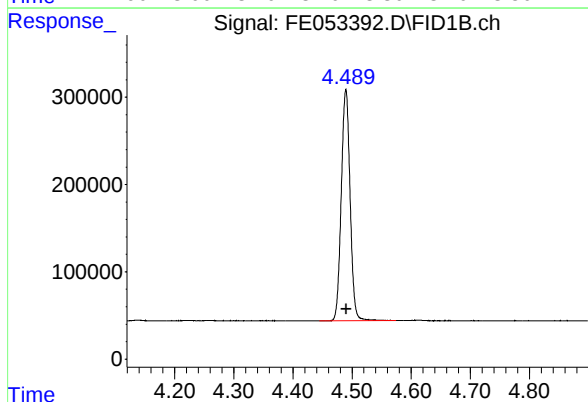
R.T.: 3.229 min
Delta R.T.: -0.001 min
Response: 2729694
Conc: 19.91 ug/ml

Instrument :

FID_E

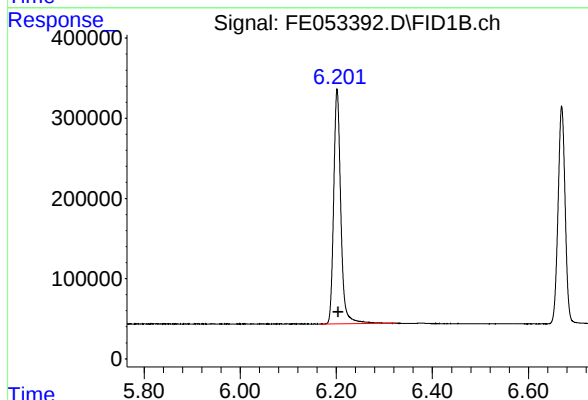
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



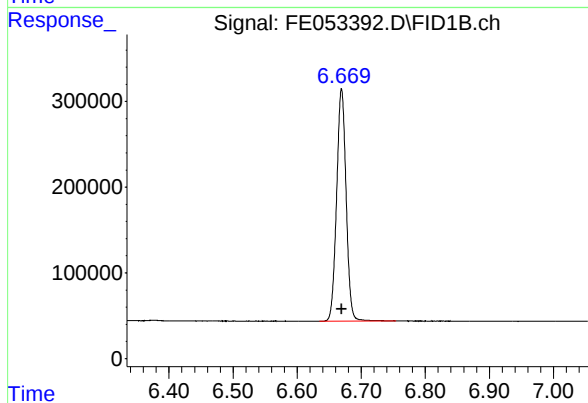
#2 n-Decane (C10)

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



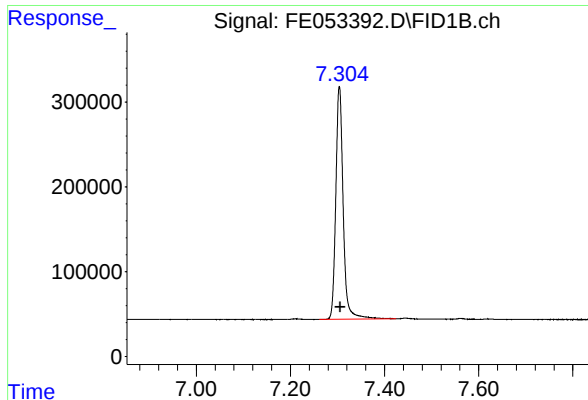
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

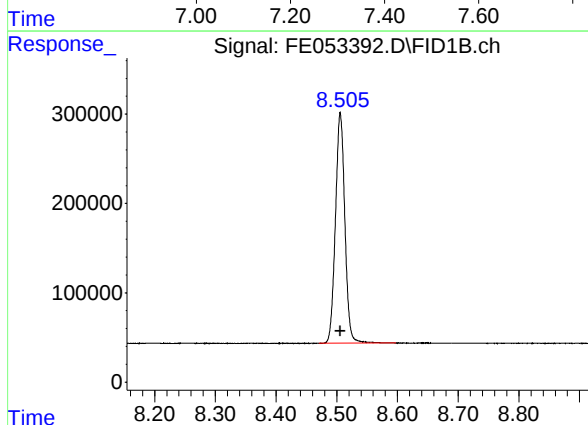
R.T.: 6.669 min
Delta R.T.: 0.000 min
Response: 2785938
Conc: 19.86 ug/ml



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

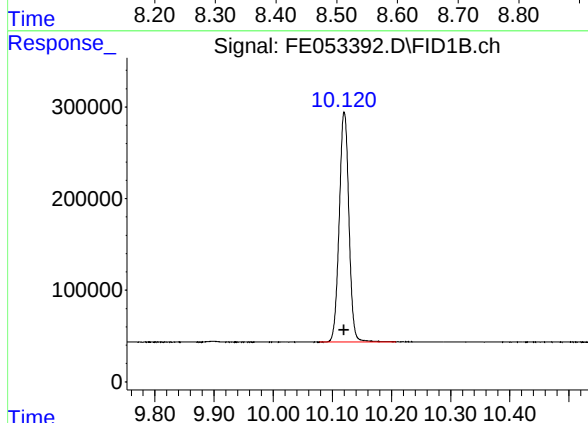
R.T.: 7.304 min
Delta R.T.: -0.002 min
Response: 2998640
Conc: 20.08 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



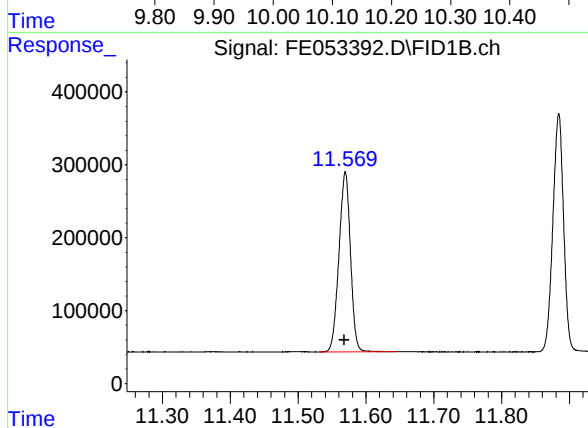
#6 n-Tetradecane (C14)

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



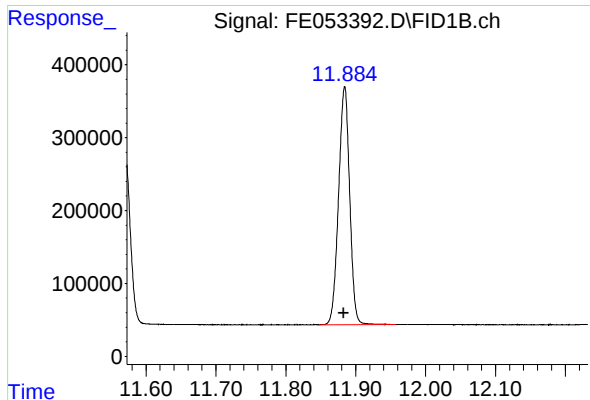
#7 n-Hexadecane (C16)

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)

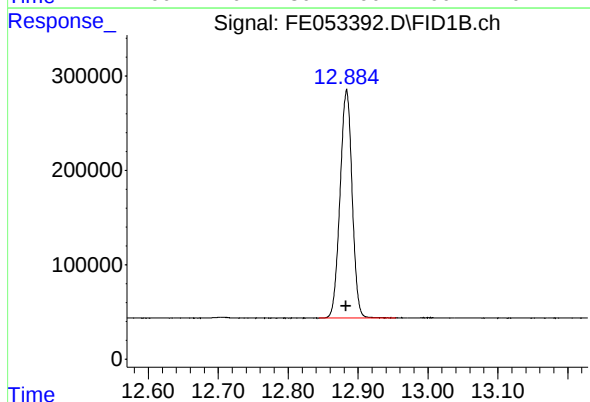
R.T.: 11.884 min
Delta R.T.: 0.001 min
Response: 3592156
Conc: 19.92 ug/ml

Instrument :

FID_E

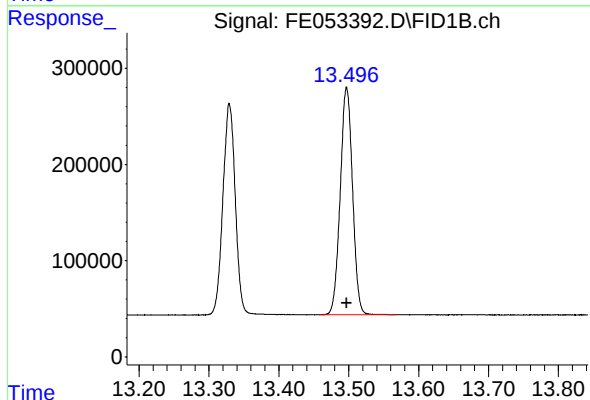
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



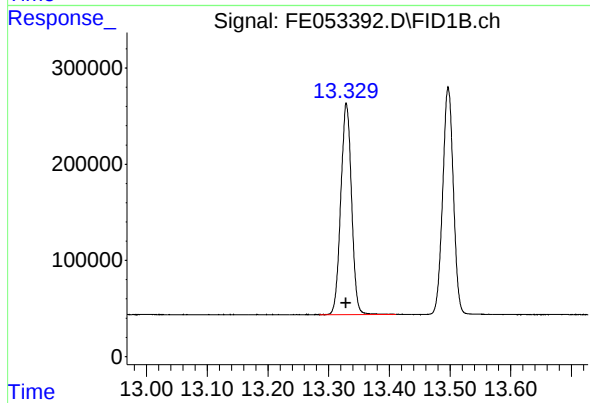
#10 n-Eicosane (C20)

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



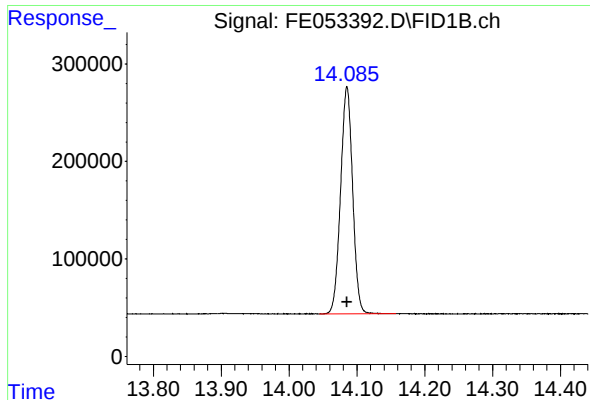
#11 n-Heneicosane (C21)

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)

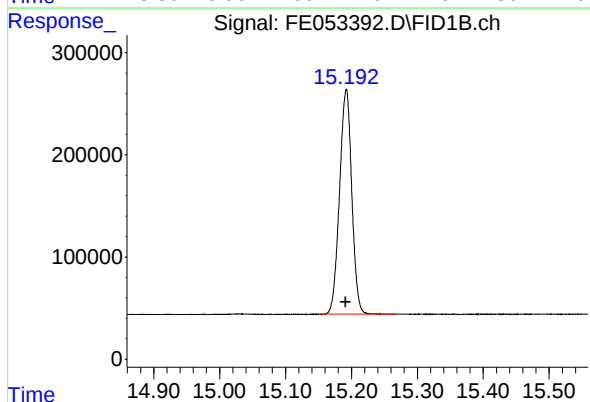
R.T.: 14.085 min
Delta R.T.: 0.000 min
Response: 2871168
Conc: 19.90 ug/ml

Instrument :

FID_E

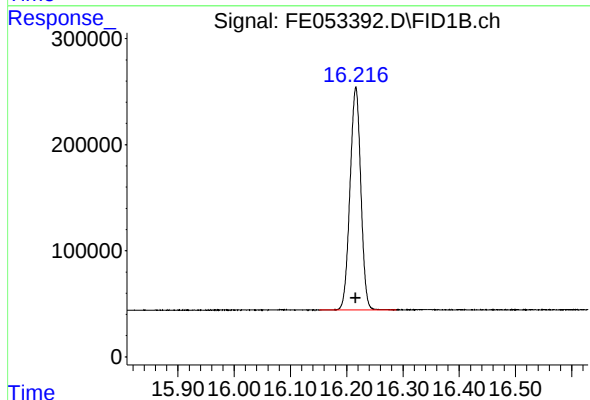
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



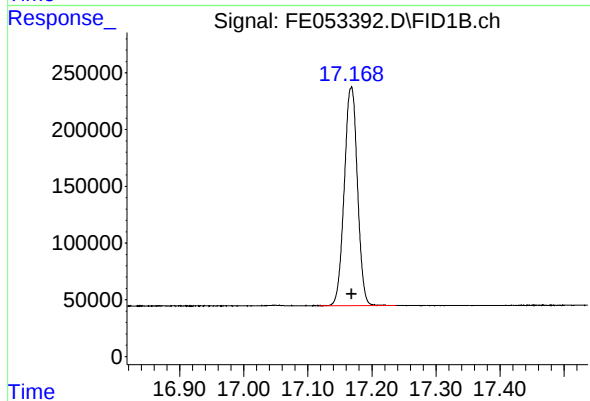
#14 n-Tetracosane (C24)

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



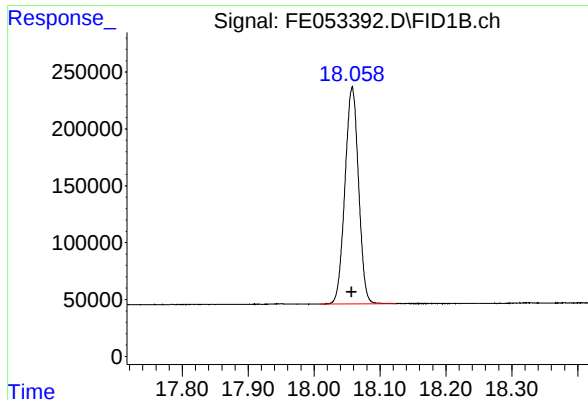
#15 n-Hexacosane (C26)

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)

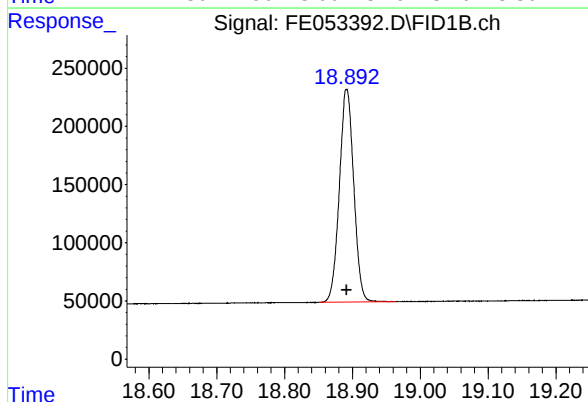
R.T.: 18.058 min
Delta R.T.: 0.000 min
Response: 2734044
Conc: 19.64 ug/ml

Instrument :

FID_E

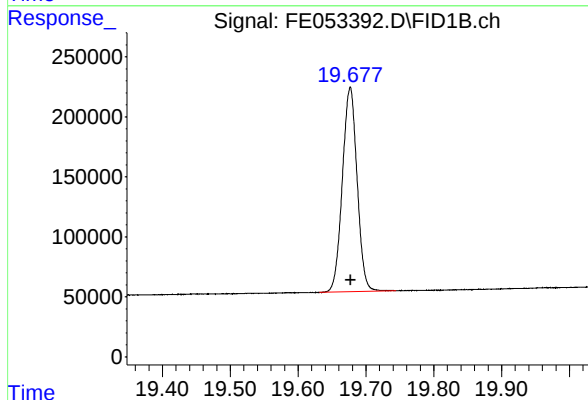
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



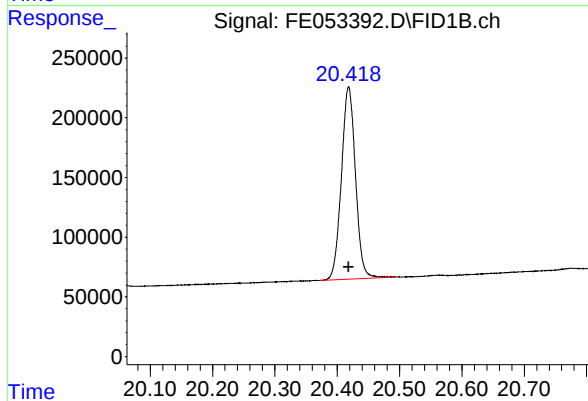
#18 n-Dotriacontane (C32)

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



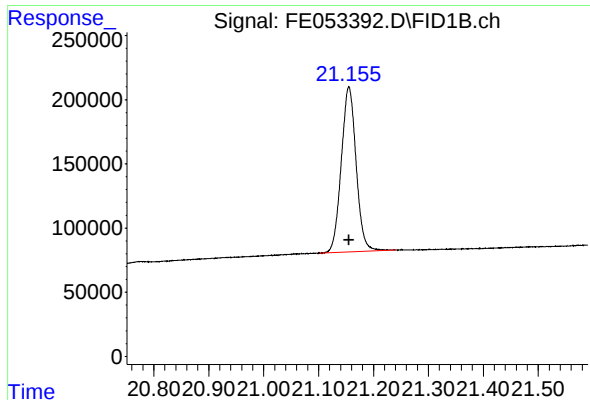
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

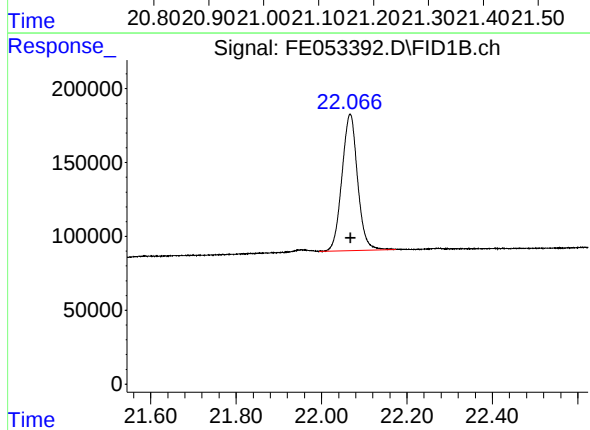
R.T.: 20.418 min
Delta R.T.: 0.000 min
Response: 2523463
Conc: 19.99 ug/ml



#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

Initial Calibration Report for SequenceID : FG041725AL

AreaCount

Parameter Range	FG015681.D	FG015682.D	FG015683.D	FG015684.D	FG015685.D	
Aliphatic C9-C12	33857214.000	16456708.000	6899651.000	3425968.000	1679106.000	
Aliphatic C12-C16	23367762.000	11285559.000	4730252.000	2344772.000	1120248.000	
Aliphatic C16-C21	35762999.000	17140718.000	7258827.000	3657776.000	1776612.000	
Aliphatic C21-C28	45280898.000	21485644.000	9113022.000	4752581.000	2241995.000	
Aliphatic C28-C40	55838428.000	27464757.000	11914183.000	6217198.000	3173120.000	
Aliphatic EPH	194107301.000	93833386.000	39915935.000	20398295.000	9991081.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	112740.4566664	1.83				
Aliphatic C12-C16	115442.82	2.43				
Aliphatic C16-C21	118965.713333	2.493				
Aliphatic C21-C28	113091.503	3.605				
Aliphatic C28-C40	98657.7456662	6.359				
Aliphatic EPH	109462.035333	3.198				

Concentration

Parameter Range	FG015681.D	FG015682.D	FG015683.D	FG015684.D	FG015685.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	FG015681.D	FG015682.D	FG015683.D	FG015684.D	FG015685.D	
Aliphatic C9-C12	112857.380000	109711.386666	114994.183333	114198.933333	111940.400000	
Aliphatic C12-C16	116838.810000	112855.590000	118256.300000	117238.600000	112024.800000	
Aliphatic C16-C21	119209.996666	114271.453333	120980.450000	121925.866666	118440.800000	

Initial Calibration Report for SequenceID : FG041725AL

Aliphatic C21-C28	113202.245000	107428.220000	113912.775000	118814.525000	112099.750000	
Aliphatic C28-C40	93064.046666	91549.190000	99284.858333	103619.966666	105770.666666	
Aliphatic EPH	107837.389444	104259.317777	110877.597222	113323.861111	111012.011111	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
 Data File : FG015681.D
 Signal(s) : FID1A.ch
 Acq On : 17 Apr 2025 10:19
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Apr 17 11:31:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Thu Apr 17 11:27:27 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)	11.912	14476535	99.183 ug/ml
Spiked Amount 50.000		Recovery =	198.37%
12) S 1-chlorooctadecane (S...	13.355	10854674	100.261 ug/ml
Spiked Amount 50.000		Recovery =	200.52%
Target Compounds			
1) T n-Nonane (C9)	3.255	11121165	98.931 ug/ml
2) T n-Decane (C10)	4.515	11235649	99.007 ug/ml
3) T A~Naphthalene (C11.7)	6.225	12188576	100.796 ug/ml
4) T n-Dodecane (C12)	6.695	11500400	99.244 ug/ml
5) T A~2-methylnaphthalene...	7.328	12095012	101.822 ug/ml
6) T n-Tetradecane (C14)	8.531	11559905	99.462 ug/ml
7) T n-Hexadecane (C16)	10.146	11807857	99.334 ug/ml
8) T n-Octadecane (C18)	11.596	12000754	99.178 ug/ml
10) T n-Eicosane (C20)	12.909	11910594	99.248 ug/ml
11) T n-Heneicosane (C21)	13.524	11851651	99.364 ug/ml
13) T n-Docosane (C22)	14.111	11741802	99.659 ug/ml
14) T n-Tetracosane (C24)	15.217	11538467	99.734 ug/ml
15) T n-Hexacosane (C26)	16.241	11206919	99.885 ug/ml
16) T n-Octacosane (C28)	17.193	10793710	99.464 ug/ml
17) T n-Tricontane (C30)	18.083	10598523	98.783 ug/ml
18) T n-Dotriacontane (C32)	18.916	10295134	97.805 ug/ml
19) T n-Tetratriacontane (C34)	19.702	9743201	97.566 ug/ml
20) T n-Hexatriacontane (C36)	20.441	9368678	97.395 ug/ml
21) T n-Octatriacontane (C38)	21.183	8480278	95.641 ug/ml
22) T n-Tetracontane (C40)	22.105	7352614	92.172 ug/ml

(f)=RT Delta > 1/2 Window

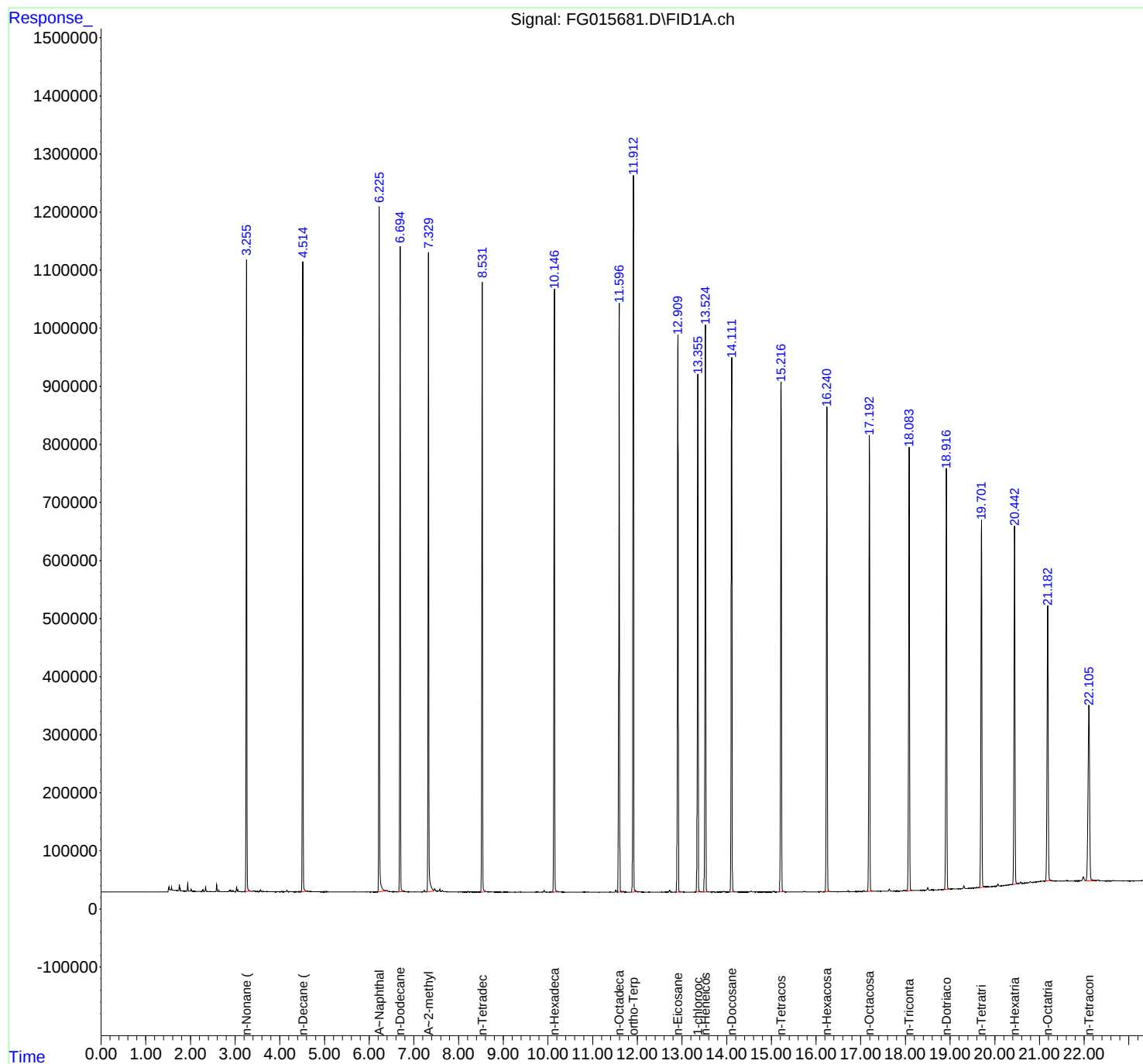
(m)=manual int.

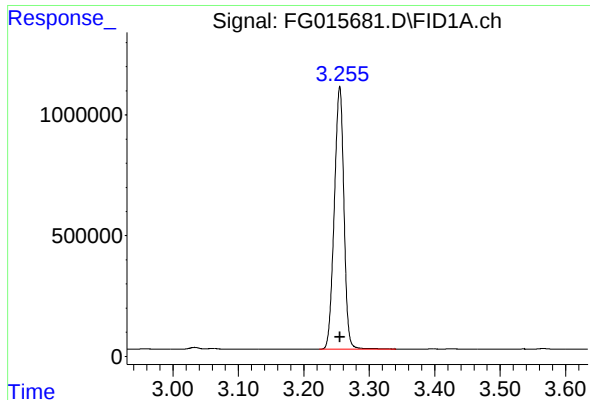
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015681.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 10:19
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Apr 17 11:31:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 11:27:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

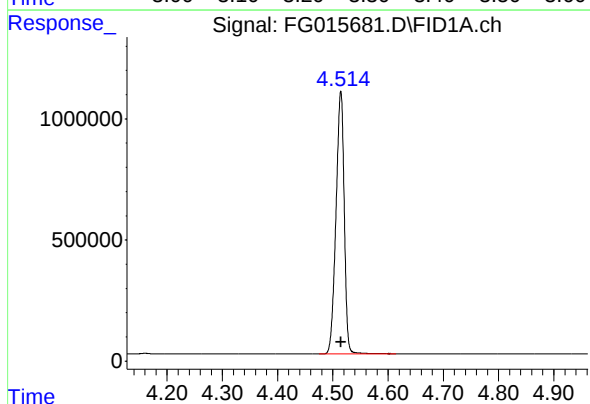




#1 n-Nonane (C9)

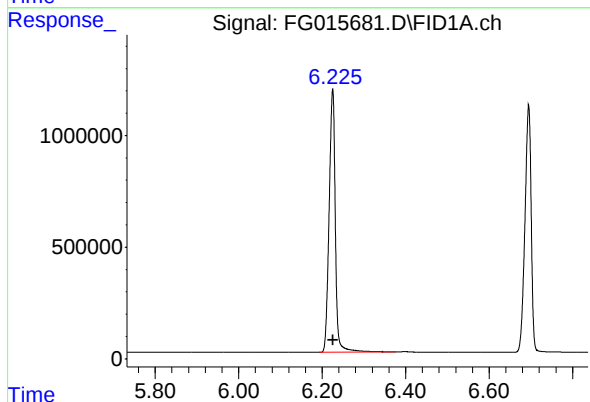
R.T.: 3.255 min
Delta R.T.: 0.000 min
Response: 11121165
Conc: 98.93 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



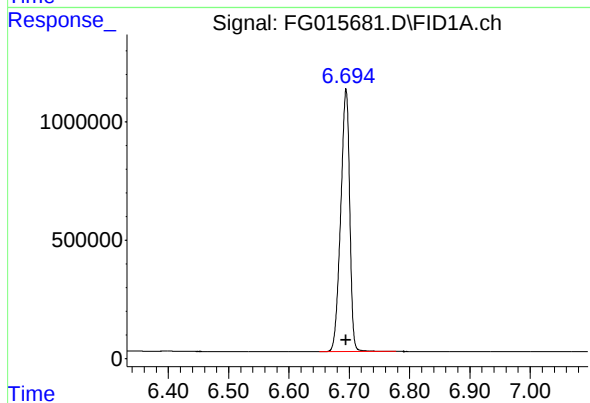
#2 n-Decane (C10)

R.T.: 4.515 min
Delta R.T.: 0.000 min
Response: 11235649
Conc: 99.01 ug/ml



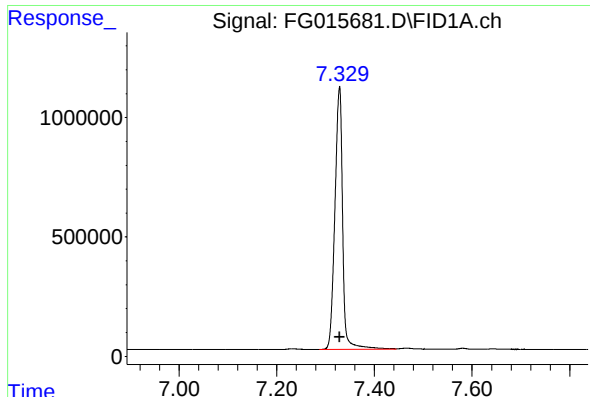
#3 A~Naphthalene (C11.7)

R.T.: 6.225 min
Delta R.T.: 0.000 min
Response: 12188576
Conc: 100.80 ug/ml



#4 n-Dodecane (C12)

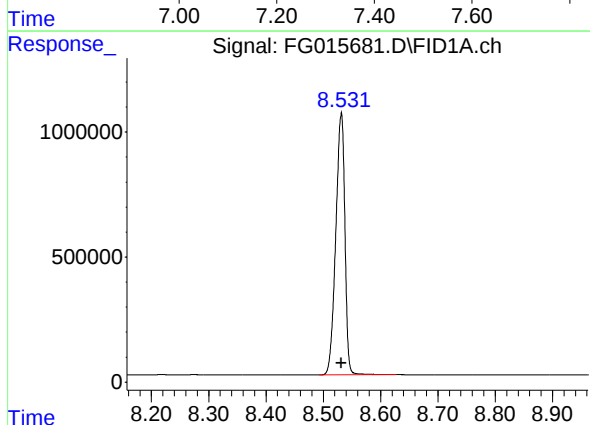
R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 11500400
Conc: 99.24 ug/ml



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

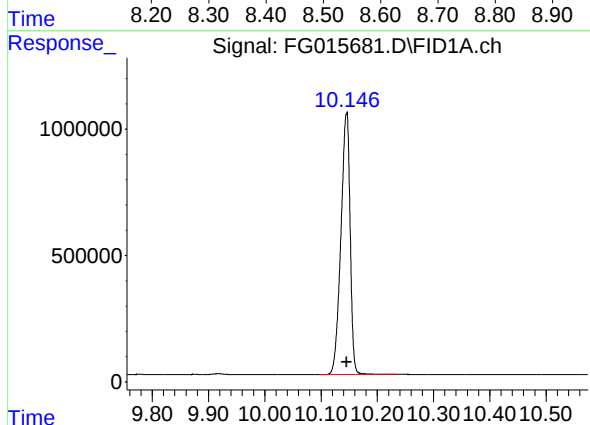
R.T.: 7.328 min
Delta R.T.: 0.000 min
Response: 12095012
Conc: 101.82 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



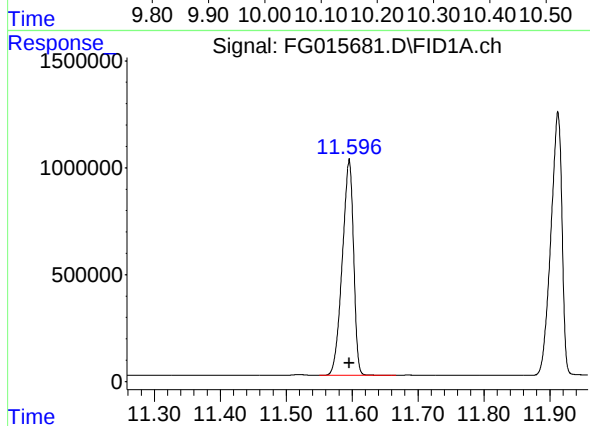
#6 n-Tetradecane (C14)

R.T.: 8.531 min
Delta R.T.: 0.000 min
Response: 11559905
Conc: 99.46 ug/ml



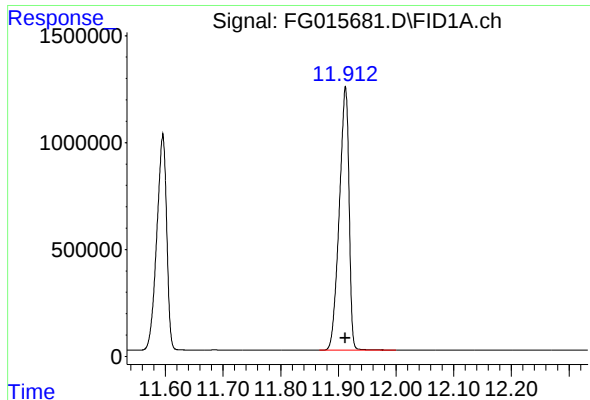
#7 n-Hexadecane (C16)

R.T.: 10.146 min
Delta R.T.: 0.000 min
Response: 11807857
Conc: 99.33 ug/ml



#8 n-Octadecane (C18)

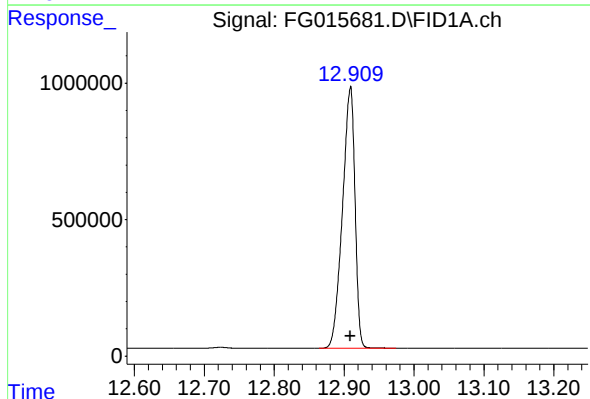
R.T.: 11.596 min
Delta R.T.: 0.000 min
Response: 12000754
Conc: 99.18 ug/ml



#9 ortho-Terphenyl (SURRE)

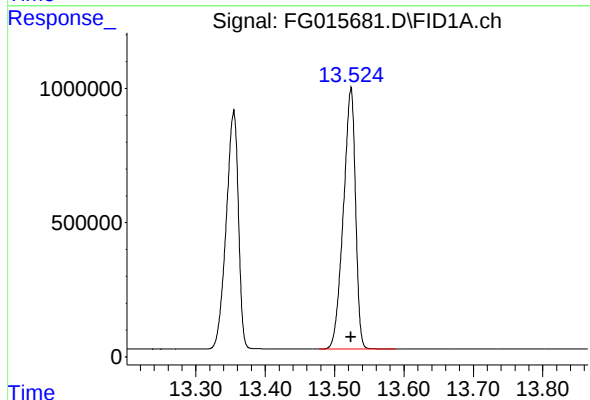
R.T.: 11.912 min
Delta R.T.: 0.000 min
Response: 14476535
Conc: 99.18 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



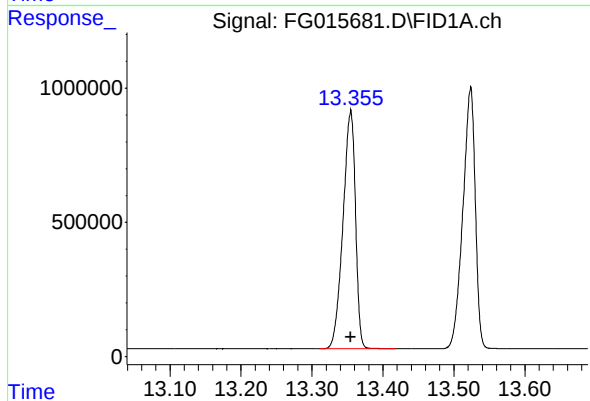
#10 n-Eicosane (C20)

R.T.: 12.909 min
Delta R.T.: 0.000 min
Response: 11910594
Conc: 99.25 ug/ml



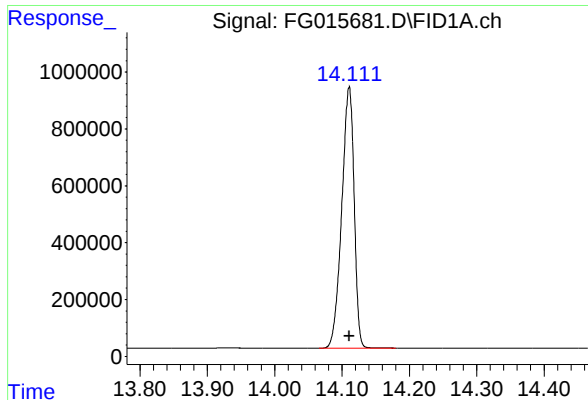
#11 n-Heneicosane (C21)

R.T.: 13.524 min
Delta R.T.: 0.000 min
Response: 11851651
Conc: 99.36 ug/ml



#12 1-chlorooctadecane (SURRE)

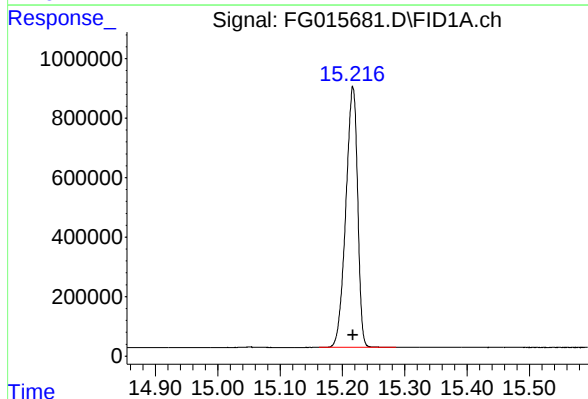
R.T.: 13.355 min
Delta R.T.: 0.000 min
Response: 10854674
Conc: 100.26 ug/ml



#13 n-Docosane (C22)

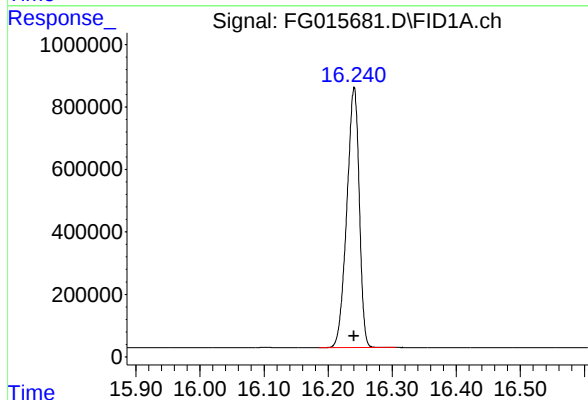
R.T.: 14.111 min
Delta R.T.: 0.000 min
Response: 11741802
Conc: 99.66 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



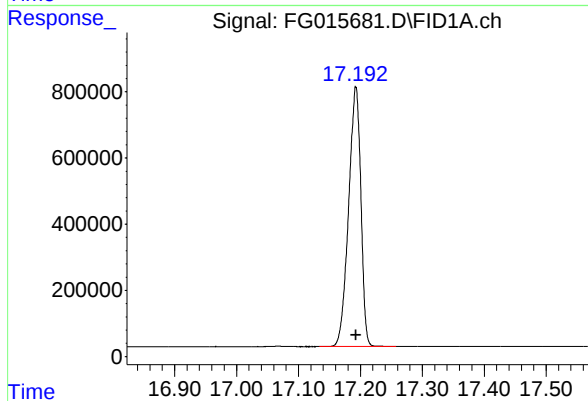
#14 n-Tetracosane (C24)

R.T.: 15.217 min
Delta R.T.: 0.000 min
Response: 11538467
Conc: 99.73 ug/ml



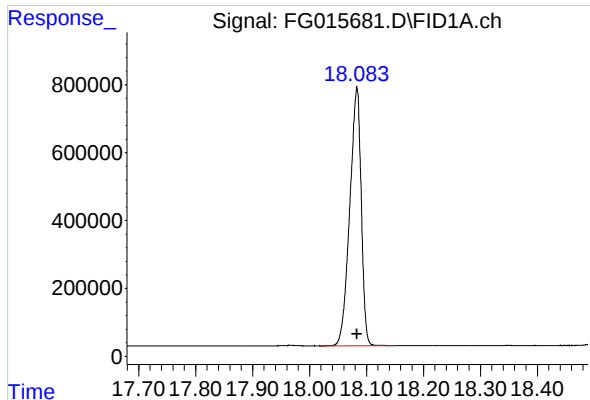
#15 n-Hexacosane (C26)

R.T.: 16.241 min
Delta R.T.: 0.000 min
Response: 11206919
Conc: 99.88 ug/ml



#16 n-Octacosane (C28)

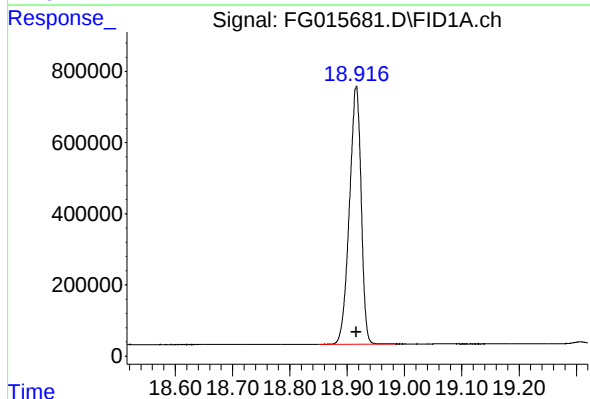
R.T.: 17.193 min
Delta R.T.: 0.000 min
Response: 10793710
Conc: 99.46 ug/ml



#17 n-Tricontane (C30)

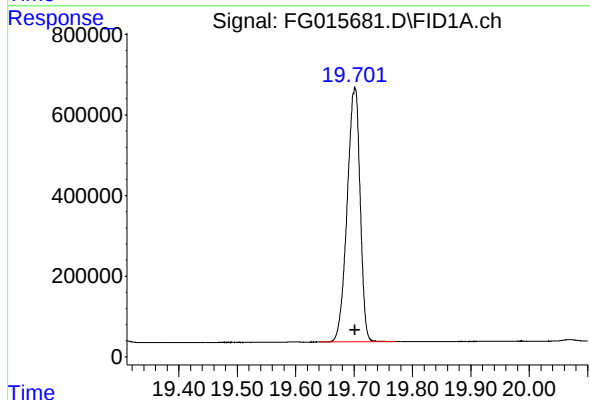
R.T.: 18.083 min
Delta R.T.: 0.000 min
Response: 10598523
Conc: 98.78 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



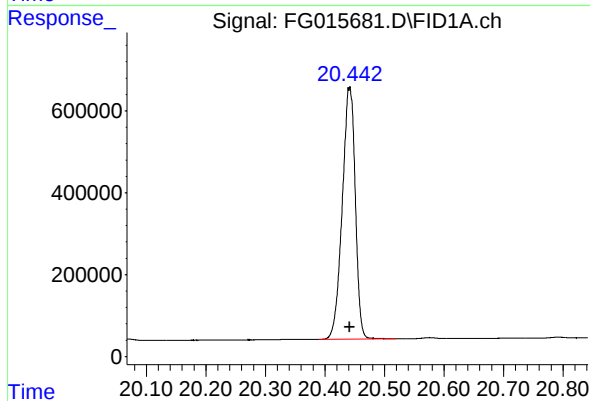
#18 n-Dotriacontane (C32)

R.T.: 18.916 min
Delta R.T.: 0.000 min
Response: 10295134
Conc: 97.81 ug/ml



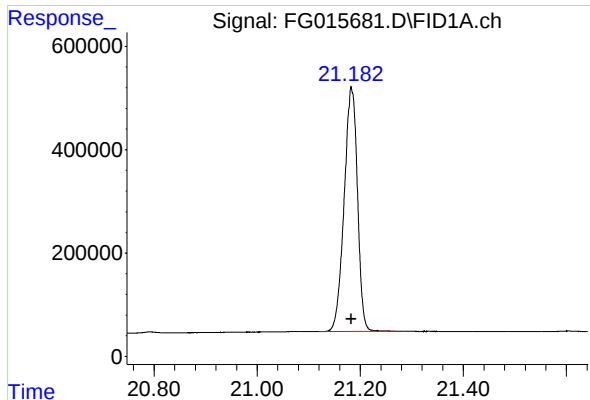
#19 n-Tetratriacontane (C34)

R.T.: 19.702 min
Delta R.T.: 0.000 min
Response: 9743201
Conc: 97.57 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.441 min
Delta R.T.: 0.000 min
Response: 9368678
Conc: 97.40 ug/ml



#21 n-Octatriacontane (C38)

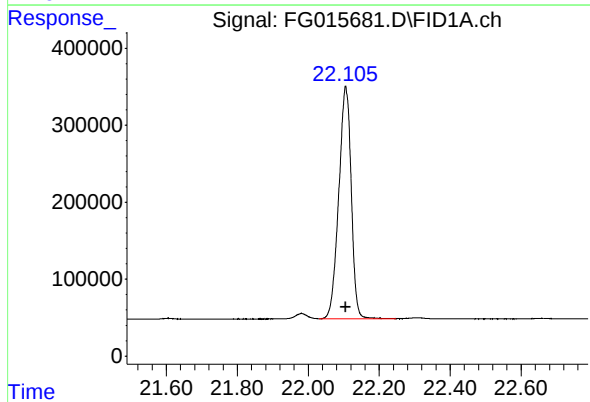
R.T.: 21.183 min
Delta R.T.: 0.000 min
Response: 8480278
Conc: 95.64 ug/ml

Instrument :

FID_G

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.105 min
Delta R.T.: 0.000 min
Response: 7352614
Conc: 92.17 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015681.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 10:19
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.255	3.223	3.341	VB	1088070	11121165	76.82%	4.563%
2	4.515	4.475	4.614	BB	1084878	11235649	77.61%	4.610%
3	6.225	6.192	6.377	BV	1178917	12188576	84.20%	5.001%
4	6.695	6.650	6.778	BB	1107370	11500400	79.44%	4.719%
5	7.328	7.287	7.444	BV	1098500	12095012	83.55%	4.963%
6	8.531	8.492	8.627	BB	1050429	11559905	79.85%	4.743%
7	10.146	10.097	10.233	BB	1029369	11807857	81.57%	4.845%
8	11.596	11.550	11.667	PB	1013689	12000754	82.90%	4.924%
9	11.912	11.867	12.000	BB	1232534	14476535	100.00%	5.940%
10	12.909	12.864	12.974	BB	956059	11910594	82.28%	4.887%
11	13.355	13.310	13.418	BB	892148	10854674	74.98%	4.454%
12	13.524	13.478	13.588	BB	969473	11851651	81.87%	4.863%
13	14.111	14.066	14.180	BB	917691	11741802	81.11%	4.818%
14	15.217	15.163	15.286	BB	875229	11538467	79.70%	4.734%
15	16.241	16.186	16.306	BB	833526	11206919	77.41%	4.598%
16	17.193	17.133	17.258	BB	783350	10793710	74.56%	4.429%
17	18.083	18.017	18.152	BB	761541	10598523	73.21%	4.349%
18	18.916	18.851	18.985	BB	723416	10295134	71.12%	4.224%
19	19.702	19.640	19.772	BB	631000	9743201	67.30%	3.998%
20	20.441	20.390	20.519	BB	610351	9368678	64.72%	3.844%
21	21.183	21.120	21.269	BB	472410	8480278	58.58%	3.479%
22	22.105	22.030	22.247	VB	302277	7352614	50.79%	3.017%
Sum of corrected areas:						243722097		

Aliphatic EPH 041725.M Thu Apr 17 13:08:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
 Data File : FG015682.D
 Signal(s) : FID1A.ch
 Acq On : 17 Apr 2025 10:48
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Apr 17 11:32:59 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Thu Apr 17 11:27:27 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)	11.907	6944637	48.360 ug/ml
Spiked Amount 50.000		Recovery =	96.72%
12) S 1-chlorooctadecane (S...	13.349	5129455	48.222 ug/ml
Spiked Amount 50.000		Recovery =	96.44%
Target Compounds			
1) T n-Nonane (C9)	3.252	5417506	48.780 ug/ml
2) T n-Decane (C10)	4.511	5458297	48.716 ug/ml
3) T A~Naphthalene (C11.7)	6.222	5869529	49.017 ug/ml
4) T n-Dodecane (C12)	6.691	5580905	48.759 ug/ml
5) T A~2-methylnaphthalene...	7.324	5720586	48.757 ug/ml
6) T n-Tetradecane (C14)	8.527	5586051	48.691 ug/ml
7) T n-Hexadecane (C16)	10.141	5699508	48.613 ug/ml
8) T n-Octadecane (C18)	11.590	5777603	48.476 ug/ml
10) T n-Eicosane (C20)	12.904	5702097	48.315 ug/ml
11) T n-Heneicosane (C21)	13.517	5661018	48.279 ug/ml
13) T n-Docosane (C22)	14.105	5590457	48.270 ug/ml
14) T n-Tetracosane (C24)	15.212	5472034	48.166 ug/ml
15) T n-Hexacosane (C26)	16.236	5302439	48.139 ug/ml
16) T n-Octacosane (C28)	17.188	5120714	48.089 ug/ml
17) T n-Tricontane (C30)	18.077	5063434	48.093 ug/ml
18) T n-Dotriacontane (C32)	18.911	4965100	48.076 ug/ml
19) T n-Tetratriacontane (C34)	19.695	4732056	48.226 ug/ml
20) T n-Hexatriacontane (C36)	20.437	4596996	48.504 ug/ml
21) T n-Octatriacontane (C38)	21.179	4262251	48.696 ug/ml
22) T n-Tetracontane (C40)	22.100	3844920	48.785 ug/ml

(f)=RT Delta > 1/2 Window

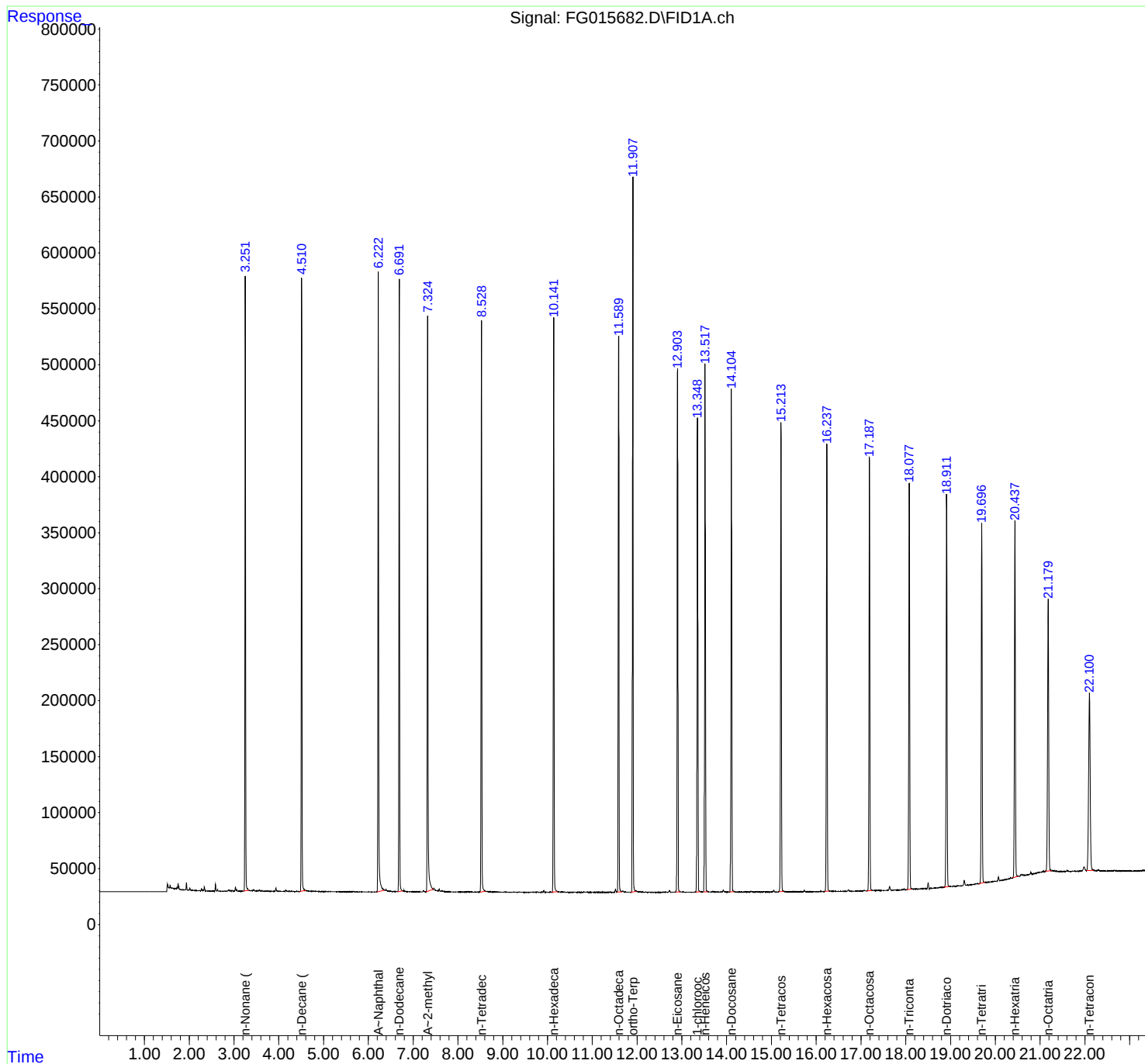
(m)=manual int.

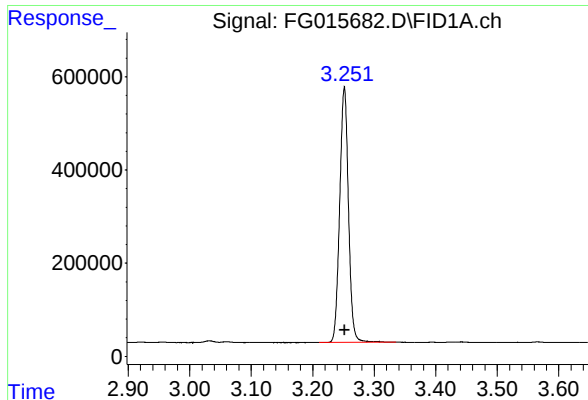
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015682.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 10:48
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Apr 17 11:32:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 11:27:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

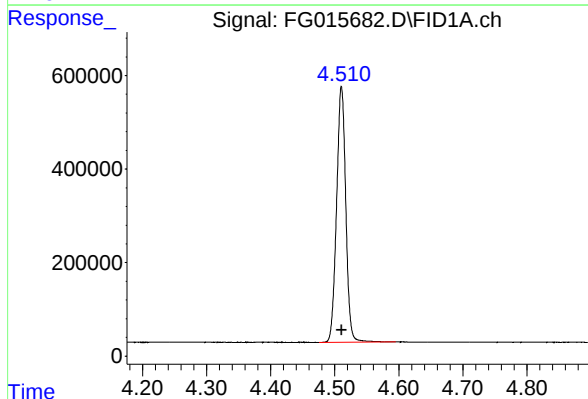




#1 n-Nonane (C9)

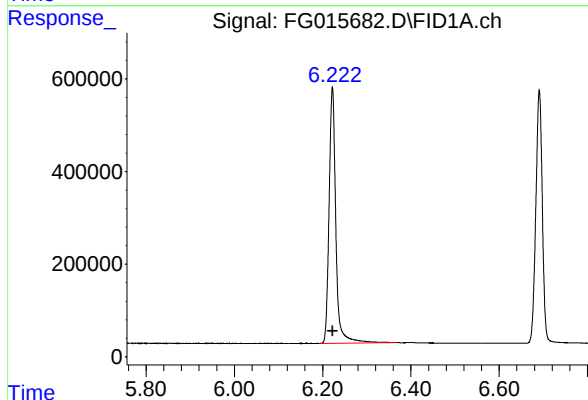
R.T.: 3.252 min
Delta R.T.: 0.000 min
Response: 5417506
Conc: 48.78 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



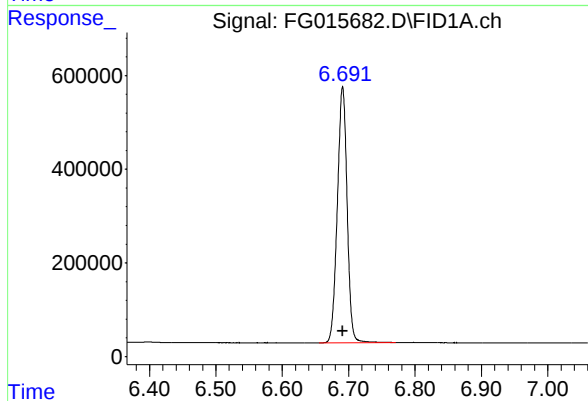
#2 n-Decane (C10)

R.T.: 4.511 min
Delta R.T.: 0.000 min
Response: 5458297
Conc: 48.72 ug/ml



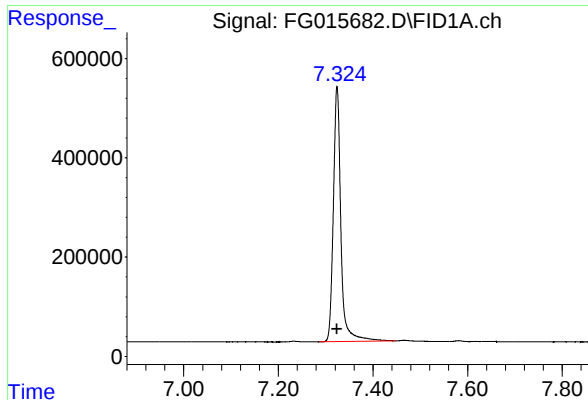
#3 A~Naphthalene (C11.7)

R.T.: 6.222 min
Delta R.T.: 0.000 min
Response: 5869529
Conc: 49.02 ug/ml



#4 n-Dodecane (C12)

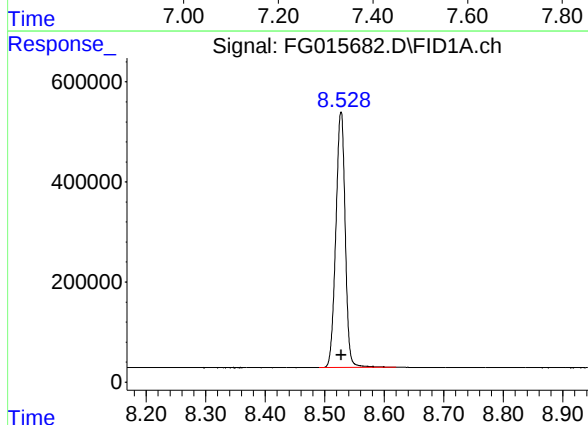
R.T.: 6.691 min
Delta R.T.: 0.000 min
Response: 5580905
Conc: 48.76 ug/ml



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

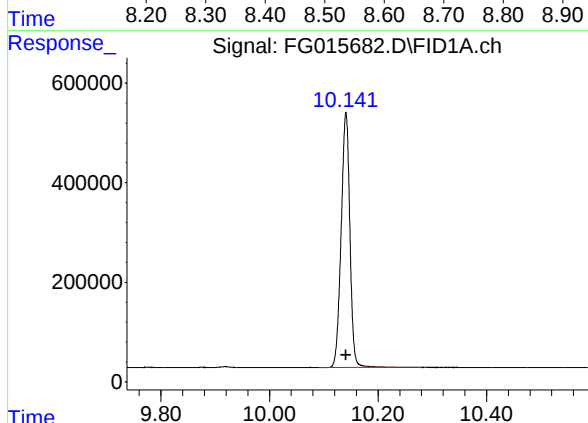
R.T.: 7.324 min
Delta R.T.: 0.000 min
Response: 5720586
Conc: 48.76 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



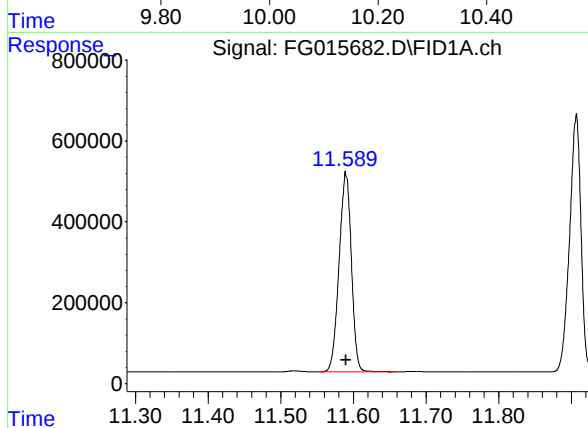
#6 n-Tetradecane (C14)

R.T.: 8.527 min
Delta R.T.: 0.000 min
Response: 5586051
Conc: 48.69 ug/ml



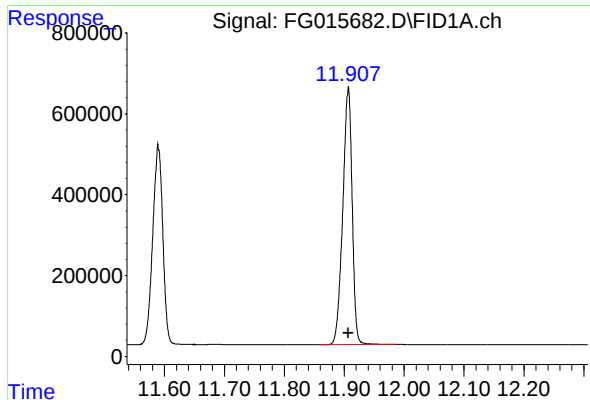
#7 n-Hexadecane (C16)

R.T.: 10.141 min
Delta R.T.: 0.000 min
Response: 5699508
Conc: 48.61 ug/ml



#8 n-Octadecane (C18)

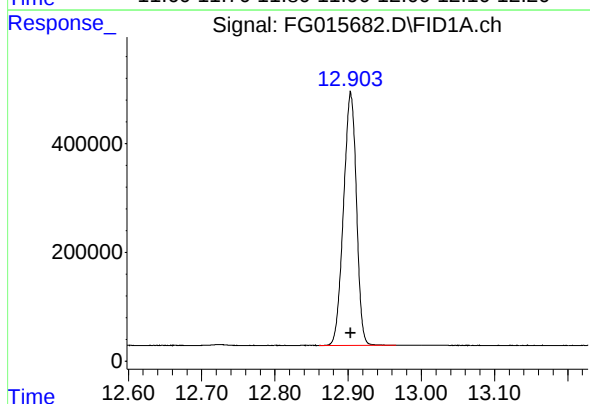
R.T.: 11.590 min
Delta R.T.: 0.000 min
Response: 5777603
Conc: 48.48 ug/ml



#9 ortho-Terphenyl (SURR)

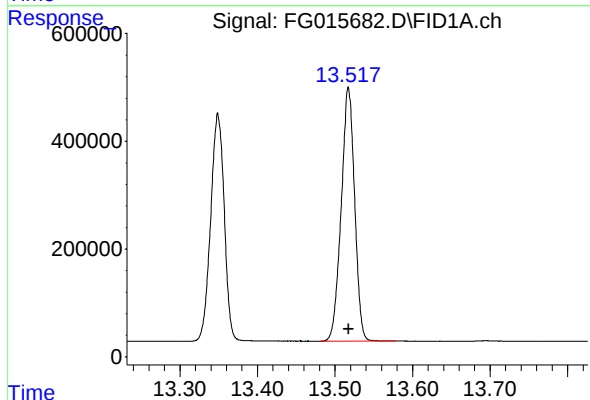
R.T.: 11.907 min
Delta R.T.: 0.000 min
Response: 6944637
Conc: 48.36 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



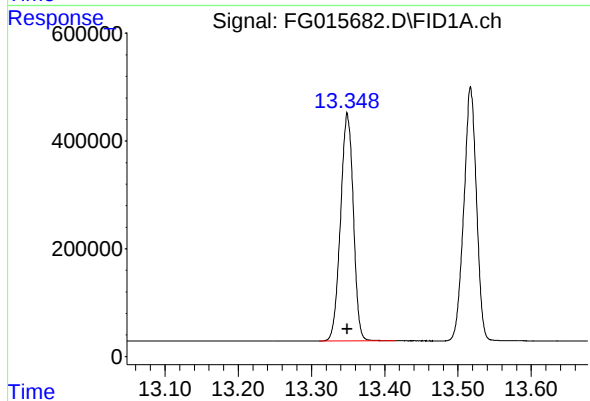
#10 n-Eicosane (C20)

R.T.: 12.904 min
Delta R.T.: 0.000 min
Response: 5702097
Conc: 48.31 ug/ml



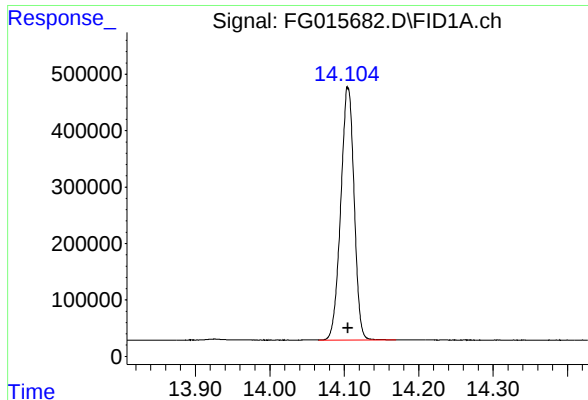
#11 n-Heneicosane (C21)

R.T.: 13.517 min
Delta R.T.: 0.000 min
Response: 5661018
Conc: 48.28 ug/ml



#12 1-chlorooctadecane (SURR)

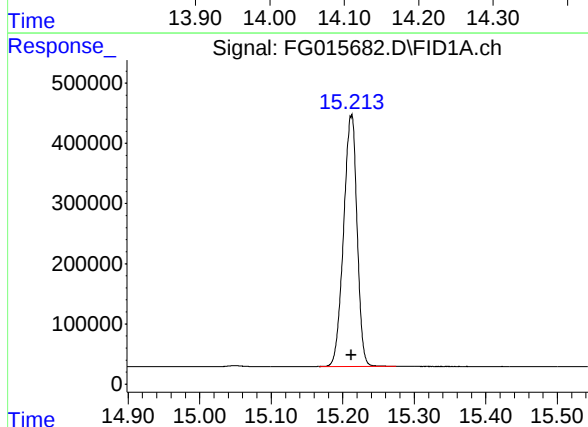
R.T.: 13.349 min
Delta R.T.: 0.000 min
Response: 5129455
Conc: 48.22 ug/ml



#13 n-Docosane (C22)

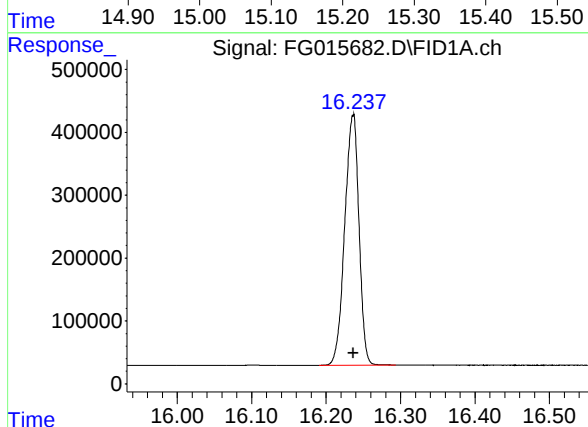
R.T.: 14.105 min
Delta R.T.: 0.000 min
Response: 5590457
Conc: 48.27 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



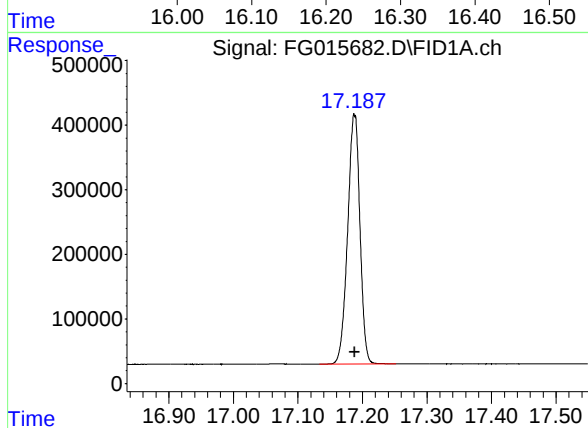
#14 n-Tetracosane (C24)

R.T.: 15.212 min
Delta R.T.: 0.000 min
Response: 5472034
Conc: 48.17 ug/ml



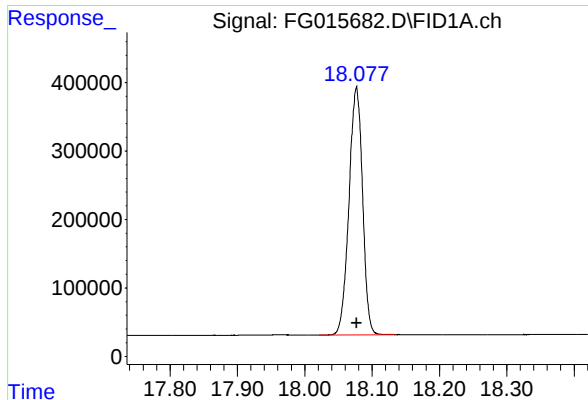
#15 n-Hexacosane (C26)

R.T.: 16.236 min
Delta R.T.: 0.000 min
Response: 5302439
Conc: 48.14 ug/ml



#16 n-Octacosane (C28)

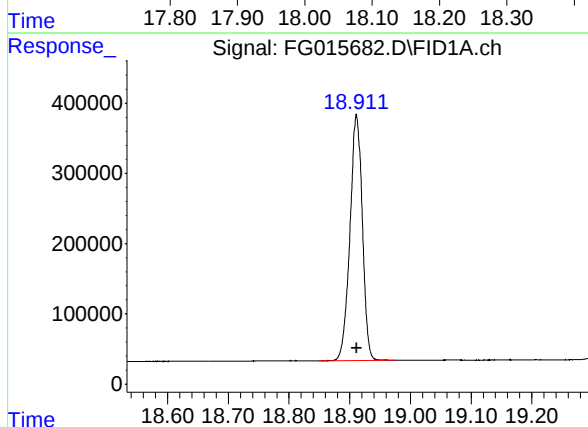
R.T.: 17.188 min
Delta R.T.: 0.000 min
Response: 5120714
Conc: 48.09 ug/ml



#17 n-Tricontane (C30)

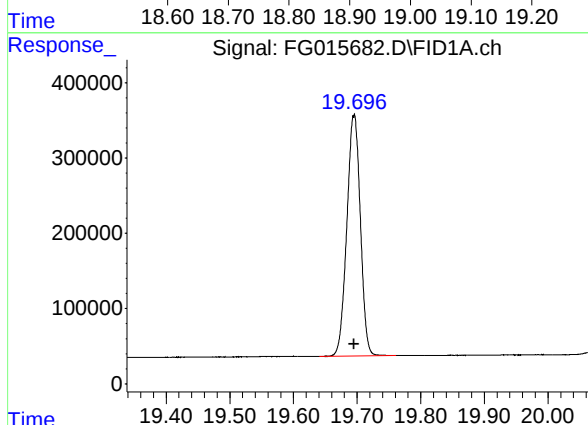
R.T.: 18.077 min
Delta R.T.: 0.000 min
Response: 5063434
Conc: 48.09 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



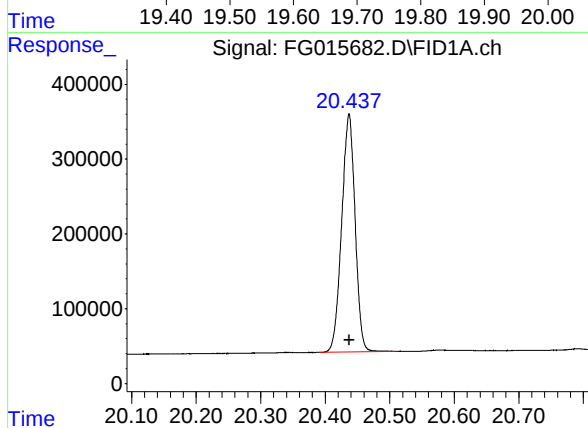
#18 n-Dotriacontane (C32)

R.T.: 18.911 min
Delta R.T.: 0.000 min
Response: 4965100
Conc: 48.08 ug/ml



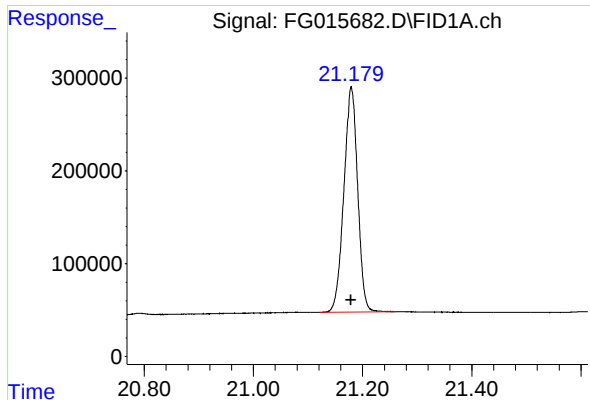
#19 n-Tetatriacontane (C34)

R.T.: 19.695 min
Delta R.T.: 0.000 min
Response: 4732056
Conc: 48.23 ug/ml



#20 n-Hexatriacontane (C36)

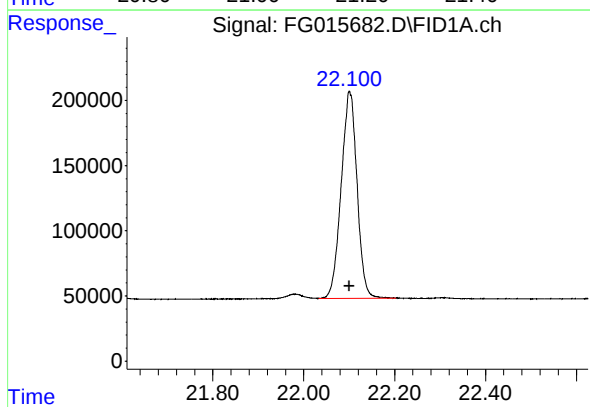
R.T.: 20.437 min
Delta R.T.: 0.000 min
Response: 4596996
Conc: 48.50 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.179 min
Delta R.T.: 0.000 min
Response: 4262251
Conc: 48.70 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.100 min
Delta R.T.: 0.000 min
Response: 3844920
Conc: 48.79 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
 Data File : FG015682.D
 Signal(s) : FID1A.ch
 Acq On : 17 Apr 2025 10:48
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.252	3.210	3.335	BB	550156	5417506	78.01%	4.611%
2	4.511	4.475	4.595	BB	547288	5458297	78.60%	4.645%
3	6.222	6.192	6.366	BB	553675	5869529	84.52%	4.995%
4	6.691	6.655	6.771	BB	546917	5580905	80.36%	4.750%
5	7.324	7.286	7.449	BV	513841	5720586	82.37%	4.869%
6	8.527	8.490	8.620	BB	510866	5586051	80.44%	4.754%
7	10.141	10.091	10.233	BB	512275	5699508	82.07%	4.851%
8	11.590	11.553	11.659	BB	489241	5777603	83.20%	4.917%
9	11.907	11.858	11.986	BB	638653	6944637	100.00%	5.910%
10	12.904	12.860	12.965	BB	464937	5702097	82.11%	4.853%
11	13.349	13.310	13.415	BB	422937	5129455	73.86%	4.366%
12	13.517	13.480	13.579	BB	471455	5661018	81.52%	4.818%
13	14.105	14.066	14.170	BB	444385	5590457	80.50%	4.758%
14	15.212	15.167	15.275	BB	414907	5472034	78.80%	4.657%
15	16.236	16.190	16.294	BB	396669	5302439	76.35%	4.513%
16	17.188	17.133	17.252	BB	384366	5120714	73.74%	4.358%
17	18.077	18.021	18.135	BB	361945	5063434	72.91%	4.309%
18	18.911	18.850	18.976	BB	350003	4965100	71.50%	4.226%
19	19.695	19.640	19.761	BB	318857	4732056	68.14%	4.027%
20	20.437	20.390	20.510	BB	318588	4596996	66.19%	3.912%
21	21.179	21.120	21.261	BB	242964	4262251	61.37%	3.628%
22	22.100	22.034	22.203	BB	158927	3844920	55.37%	3.272%
Sum of corrected areas:						117497592		

Aliphatic EPH 041725.M Thu Apr 17 13:09:11 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
 Data File : FG015683.D
 Signal(s) : FID1A.ch
 Acq On : 17 Apr 2025 11:17
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Apr 17 11:29:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Thu Apr 17 11:27:27 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)	11.903	2943016	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.347	2159631	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.250	2272324	20.000 ug/ml
2) T n-Decane (C10)	4.509	2292204	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.221	2399222	20.000 ug/ml
4) T n-Dodecane (C12)	6.689	2335123	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.323	2332409	20.000 ug/ml
6) T n-Tetradecane (C14)	8.525	2337010	20.000 ug/ml
7) T n-Hexadecane (C16)	10.139	2393242	20.000 ug/ml
8) T n-Octadecane (C18)	11.586	2439955	20.000 ug/ml
10) T n-Eicosane (C20)	12.901	2418201	20.000 ug/ml
11) T n-Heneicosane (C21)	13.514	2400671	20.000 ug/ml
13) T n-Docosane (C22)	14.103	2364428	20.000 ug/ml
14) T n-Tetracosane (C24)	15.208	2320026	20.000 ug/ml
15) T n-Hexacosane (C26)	16.233	2246550	20.000 ug/ml
16) T n-Octacosane (C28)	17.185	2182018	20.000 ug/ml
17) T n-Tricontane (C30)	18.075	2171935	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.910	2151435	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.695	2045868	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.435	1973962	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.178	1850673	20.000 ug/ml
22) T n-Tetracontane (C40)	22.099	1720310	20.000 ug/ml

(f)=RT Delta > 1/2 Window

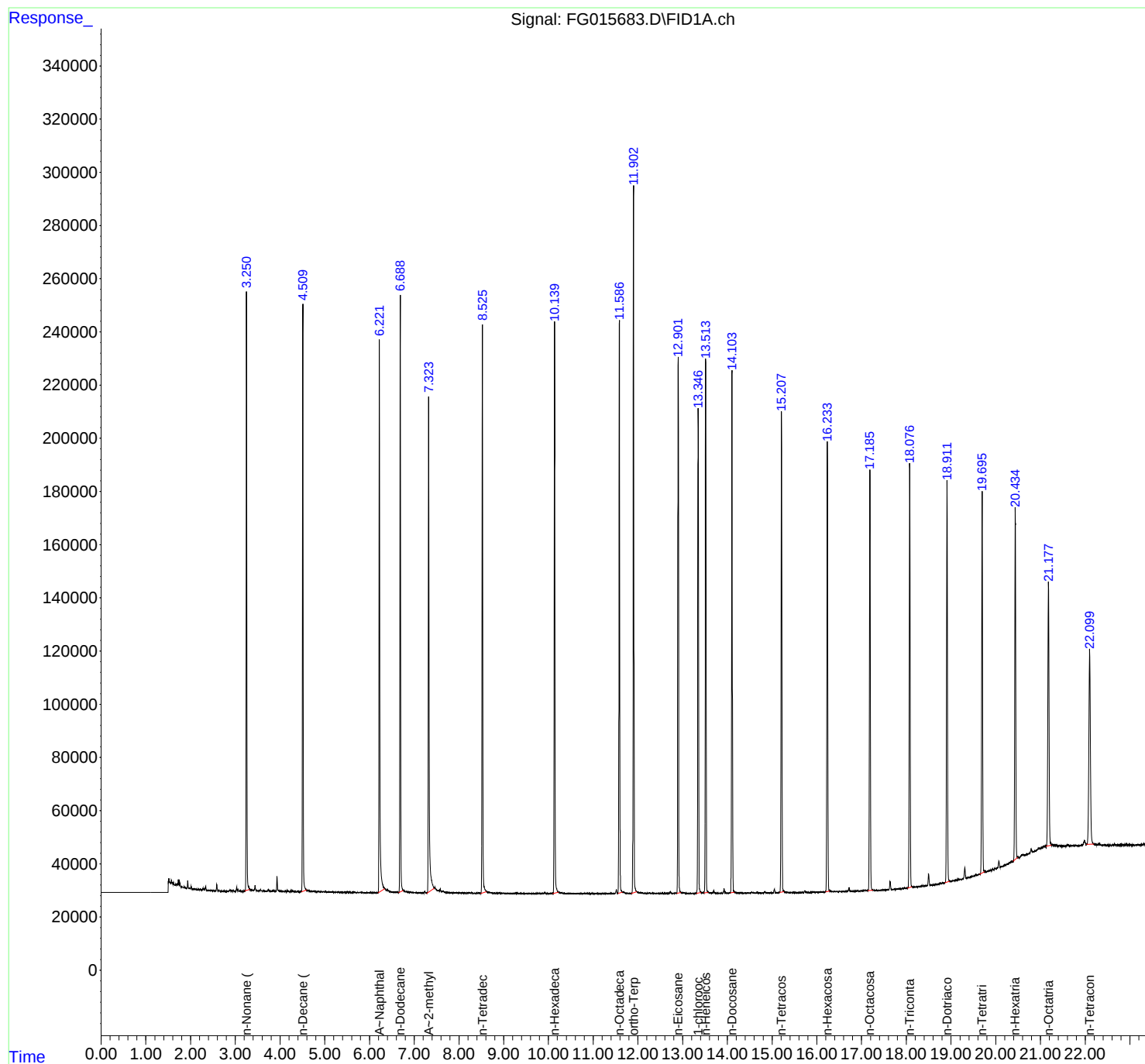
(m)=manual int.

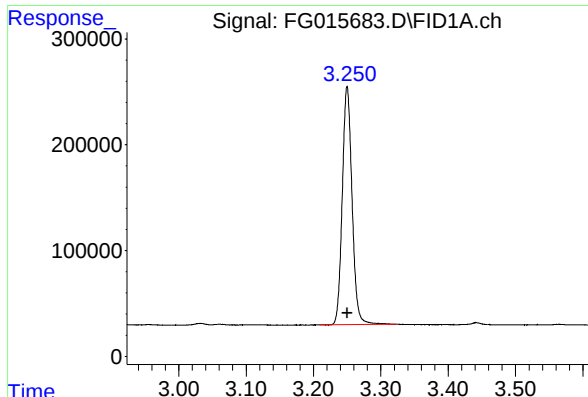
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015683.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 11:17
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Apr 17 11:29:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 11:27:27 2025
Response via : Initial Calibration
Integrator: ChemStation

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

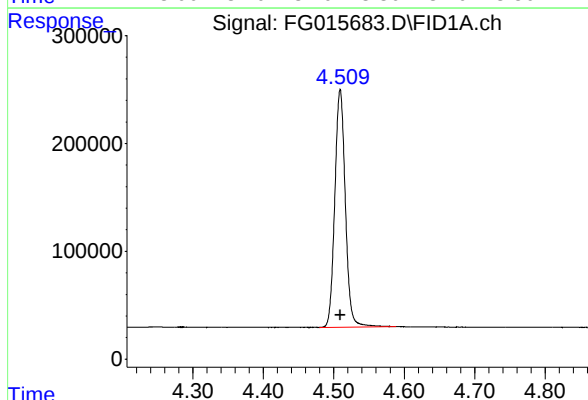




#1 n-Nonane (C9)

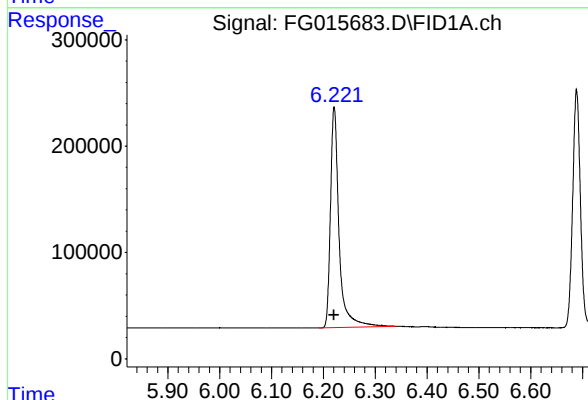
R.T.: 3.250 min
Delta R.T.: 0.000 min
Response: 2272324
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



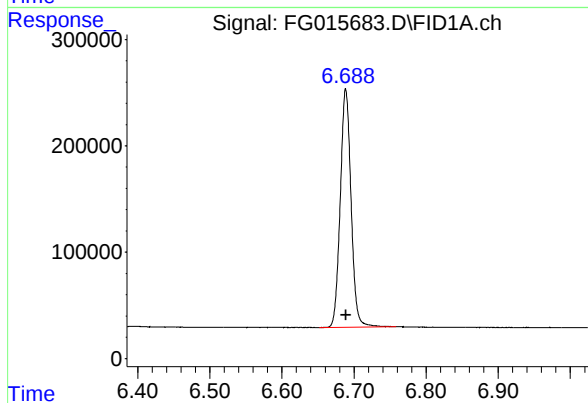
#2 n-Decane (C10)

R.T.: 4.509 min
Delta R.T.: 0.000 min
Response: 2292204
Conc: 20.00 ug/ml



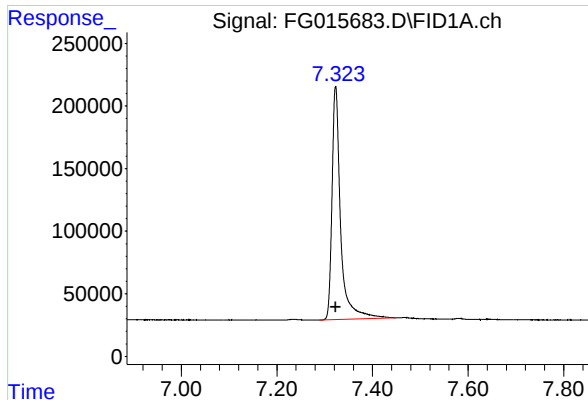
#3 A~Naphthalene (C11.7)

R.T.: 6.221 min
Delta R.T.: 0.000 min
Response: 2399222
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

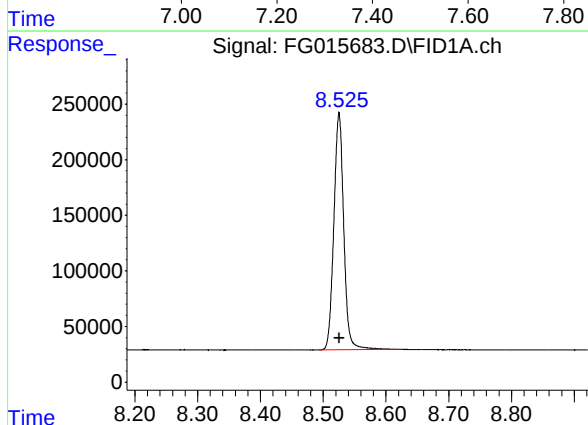
R.T.: 6.689 min
Delta R.T.: 0.000 min
Response: 2335123
Conc: 20.00 ug/ml



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

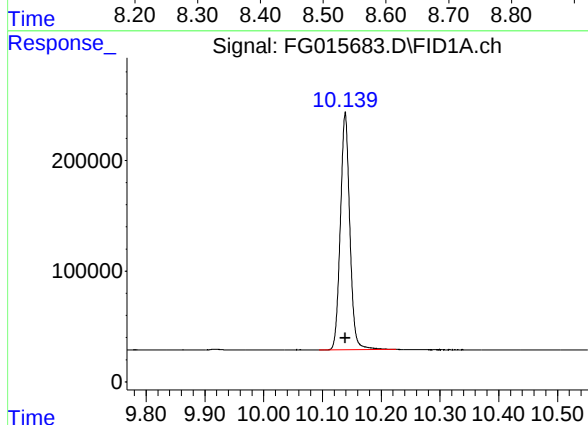
R.T.: 7.323 min
Delta R.T.: 0.000 min
Response: 2332409
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



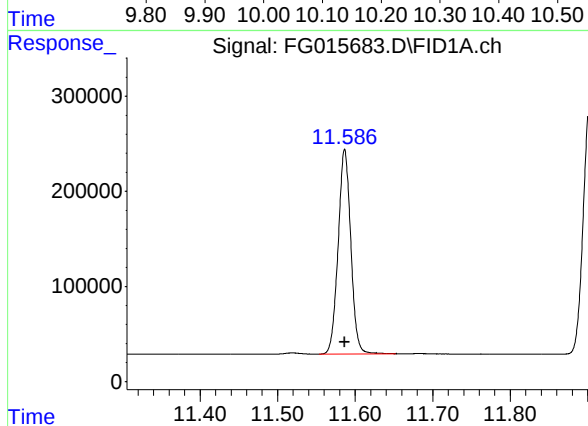
#6 n-Tetradecane (C14)

R.T.: 8.525 min
Delta R.T.: 0.000 min
Response: 2337010
Conc: 20.00 ug/ml



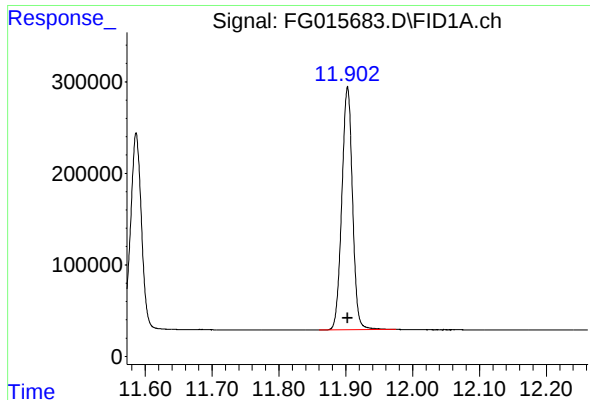
#7 n-Hexadecane (C16)

R.T.: 10.139 min
Delta R.T.: 0.000 min
Response: 2393242
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

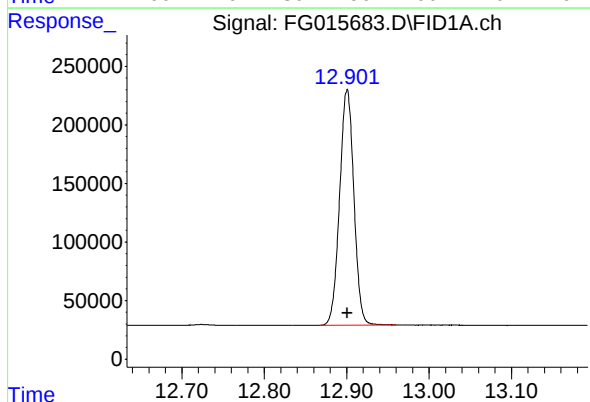
R.T.: 11.586 min
Delta R.T.: 0.000 min
Response: 2439955
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

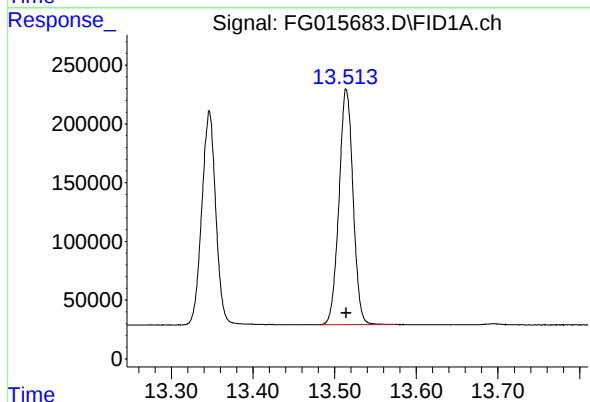
R.T.: 11.903 min
Delta R.T.: 0.000 min
Response: 2943016
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



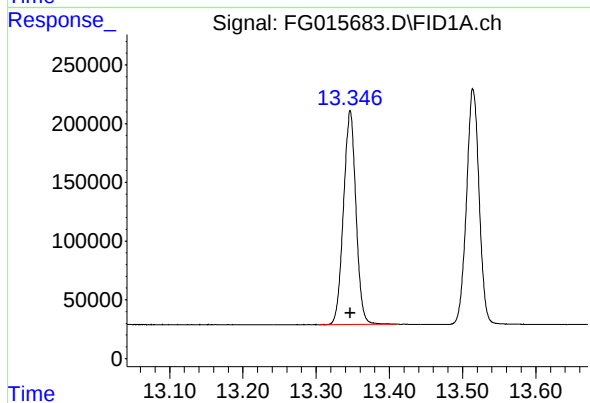
#10 n-Eicosane (C20)

R.T.: 12.901 min
Delta R.T.: 0.000 min
Response: 2418201
Conc: 20.00 ug/ml



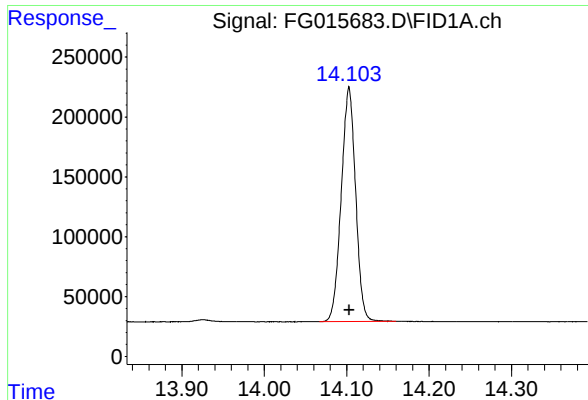
#11 n-Heneicosane (C21)

R.T.: 13.514 min
Delta R.T.: 0.000 min
Response: 2400671
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

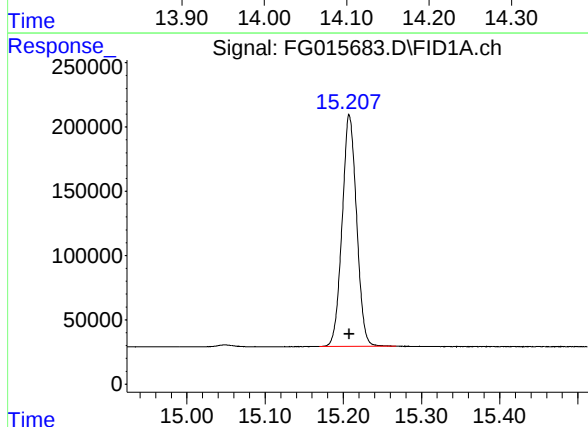
R.T.: 13.347 min
Delta R.T.: 0.000 min
Response: 2159631
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

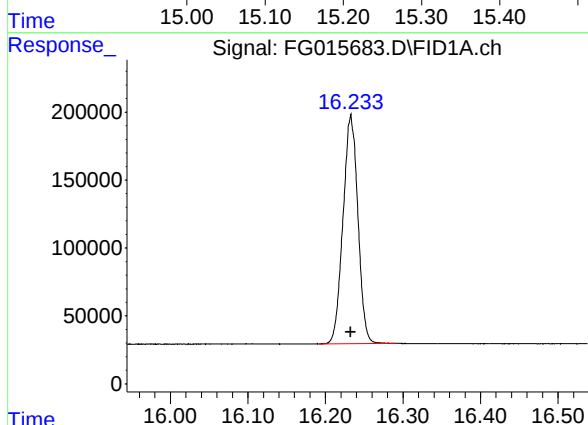
R.T.: 14.103 min
Delta R.T.: 0.000 min
Response: 2364428
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



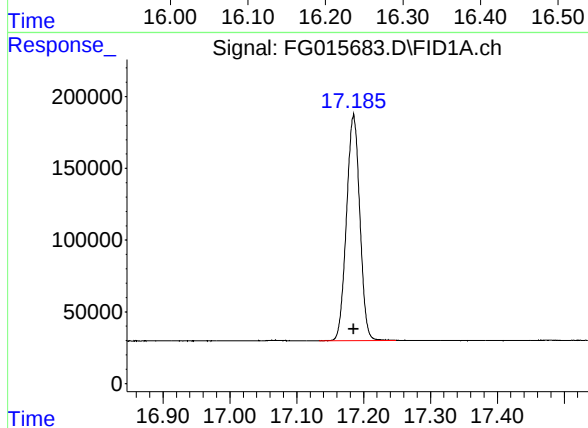
#14 n-Tetracosane (C24)

R.T.: 15.208 min
Delta R.T.: 0.000 min
Response: 2320026
Conc: 20.00 ug/ml



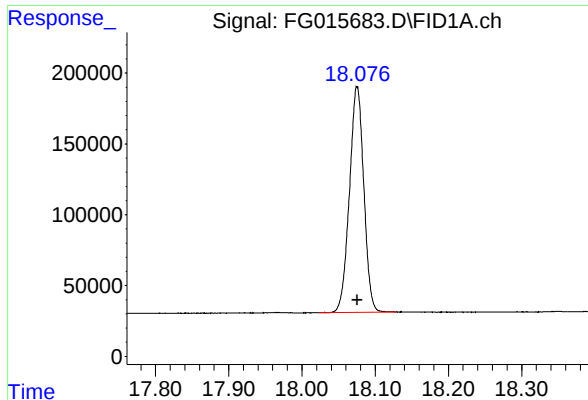
#15 n-Hexacosane (C26)

R.T.: 16.233 min
Delta R.T.: 0.000 min
Response: 2246550
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

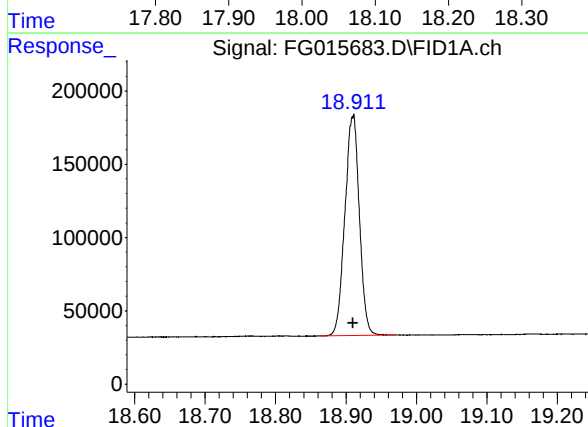
R.T.: 17.185 min
Delta R.T.: 0.000 min
Response: 2182018
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

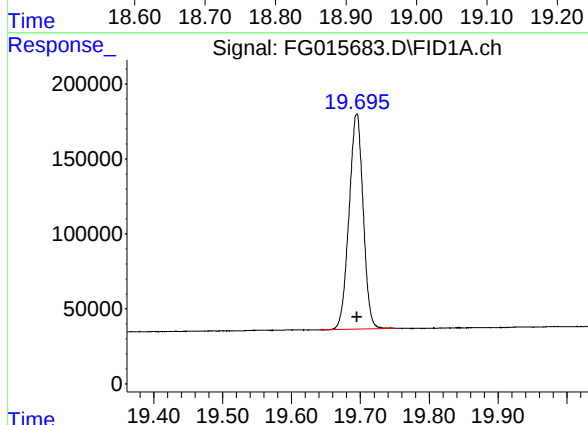
R.T.: 18.075 min
Delta R.T.: 0.000 min
Response: 2171935
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



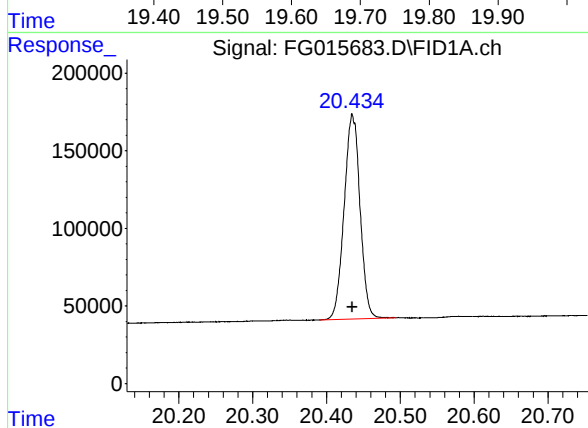
#18 n-Dotriacontane (C32)

R.T.: 18.910 min
Delta R.T.: 0.000 min
Response: 2151435
Conc: 20.00 ug/ml



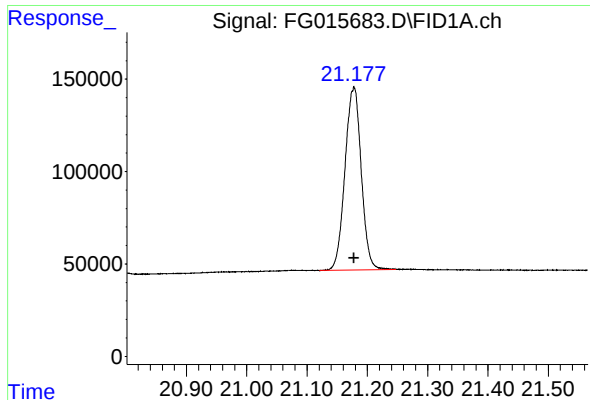
#19 n-Tetatriacontane (C34)

R.T.: 19.695 min
Delta R.T.: 0.000 min
Response: 2045868
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

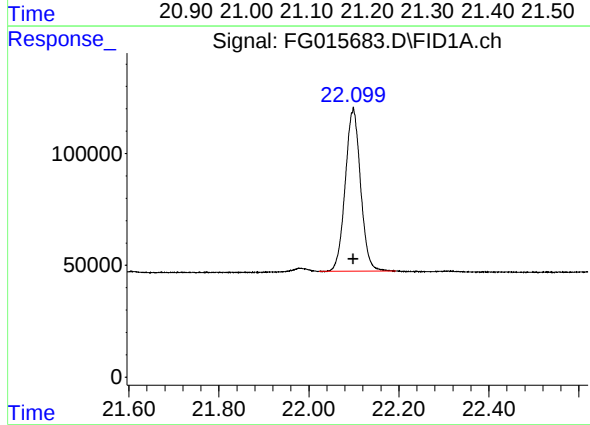
R.T.: 20.435 min
Delta R.T.: 0.000 min
Response: 1973962
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.178 min
Delta R.T.: 0.000 min
Response: 1850673
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.099 min
Delta R.T.: 0.000 min
Response: 1720310
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015683.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 11:17
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.250	3.208	3.323	BB	225105	2272324	77.21%	4.567%
2	4.509	4.479	4.588	BB	220686	2292204	77.89%	4.607%
3	6.221	6.192	6.340	BB	207510	2399222	81.52%	4.823%
4	6.689	6.652	6.758	BB	224227	2335123	79.34%	4.694%
5	7.323	7.288	7.449	BB	186368	2332409	79.25%	4.688%
6	8.525	8.493	8.616	BB	213193	2337010	79.41%	4.697%
7	10.139	10.094	10.225	BB	214861	2393242	81.32%	4.811%
8	11.587	11.553	11.653	BB	215381	2439955	82.91%	4.904%
9	11.903	11.860	11.975	BB	265409	2943016	100.00%	5.916%
10	12.901	12.867	12.960	BB	201399	2418201	82.17%	4.861%
11	13.347	13.304	13.409	BB	182043	2159631	73.38%	4.341%
12	13.514	13.481	13.575	BB	200127	2400671	81.57%	4.825%
13	14.103	14.067	14.160	BB	196448	2364428	80.34%	4.753%
14	15.208	15.169	15.268	BB	180149	2320026	78.83%	4.663%
15	16.233	16.192	16.291	BB	168157	2246550	76.33%	4.516%
16	17.185	17.133	17.248	BB	157575	2182018	74.14%	4.386%
17	18.075	18.023	18.128	BB	159007	2171935	73.80%	4.366%
18	18.910	18.862	18.971	BB	148629	2151435	73.10%	4.324%
19	19.695	19.640	19.752	BB	143165	2045868	69.52%	4.112%
20	20.435	20.390	20.494	BB	131807	1973962	67.07%	3.968%
21	21.178	21.120	21.248	BB	98877	1850673	62.88%	3.720%
22	22.099	22.023	22.193	BB	73359	1720310	58.45%	3.458%
Sum of corrected areas:							49750214	

Aliphatic EPH 041725.M Thu Apr 17 13:09:33 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
 Data File : FG015684.D
 Signal(s) : FID1A.ch
 Acq On : 17 Apr 2025 11:47
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Apr 17 12:03:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Thu Apr 17 12:02:51 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.901	1487271	10.265 ug/ml
Spiked Amount 50.000		Recovery =	20.53%
12) S 1-chlorooctadecane (S...	13.346	1069588	10.041 ug/ml
Spiked Amount 50.000		Recovery =	20.08%
Target Compounds			
1) T n-Nonane (C9)	3.249	1135762	10.169 ug/ml
2) T n-Decane (C10)	4.509	1131960	10.077 ug/ml
3) T A~Naphthalene (C11.7)	6.223	1155525	9.735 ug/ml
4) T n-Dodecane (C12)	6.689	1158246	10.089 ug/ml
5) T A~2-methylnaphthalene...	7.325	1105453	9.560 ug/ml
6) T n-Tetradecane (C14)	8.524	1154694	10.049 ug/ml
7) T n-Hexadecane (C16)	10.139	1190078	10.112 ug/ml
8) T n-Octadecane (C18)	11.586	1224437	10.204 ug/ml
10) T n-Eicosane (C20)	12.900	1220512	10.254 ug/ml
11) T n-Heneicosane (C21)	13.514	1212827	10.255 ug/ml
13) T n-Docosane (C22)	14.102	1199272	10.264 ug/ml
14) T n-Tetracosane (C24)	15.208	1211987	10.493 ug/ml
15) T n-Hexacosane (C26)	16.233	1183059	10.545 ug/ml
16) T n-Octacosane (C28)	17.184	1158263	10.644 ug/ml
17) T n-Tricontane (C30)	18.074	1164012	10.772 ug/ml
18) T n-Dotriacontane (C32)	18.908	1146962	10.807 ug/ml
19) T n-Tetratriacontane (C34)	19.694	1068003	10.649 ug/ml
20) T n-Hexatriacontane (C36)	20.434	1002181	10.425 ug/ml
21) T n-Octatriacontane (C38)	21.176	940463	10.548 ug/ml
22) T n-Tetracontane (C40)	22.098	895577	10.989 ug/ml

(f)=RT Delta > 1/2 Window

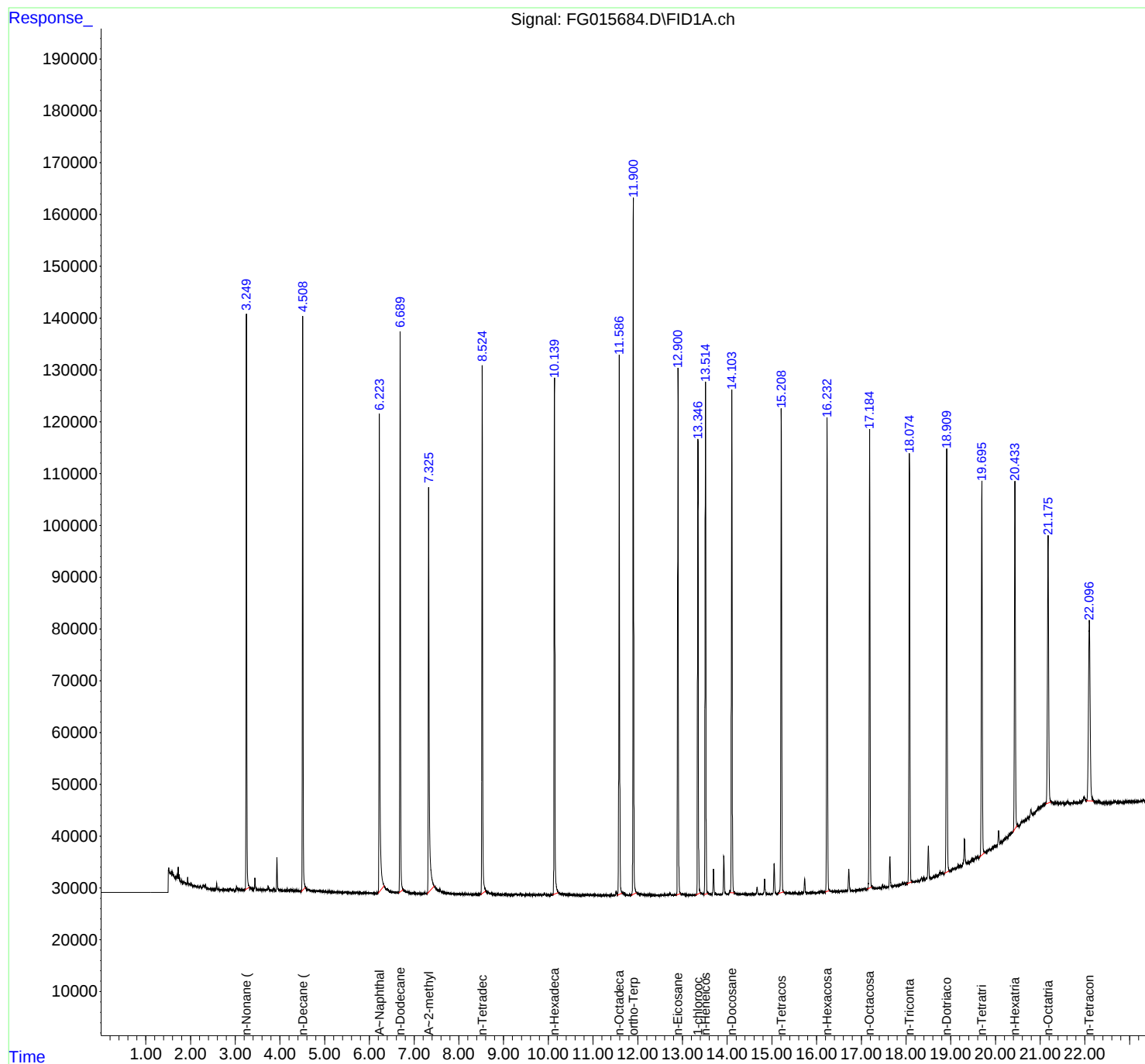
(m)=manual int.

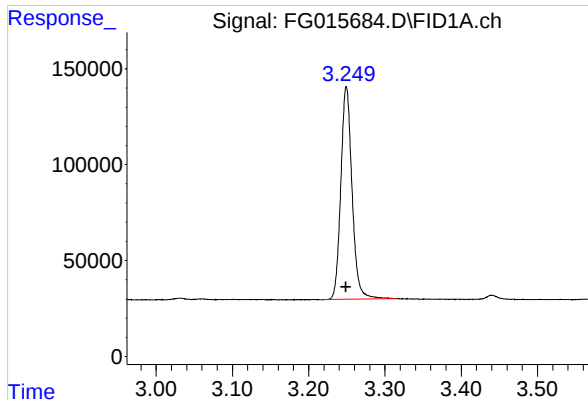
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015684.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 11:47
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Apr 17 12:03:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 12:02:51 2025
Response via : Initial Calibration
Integrator: ChemStation

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

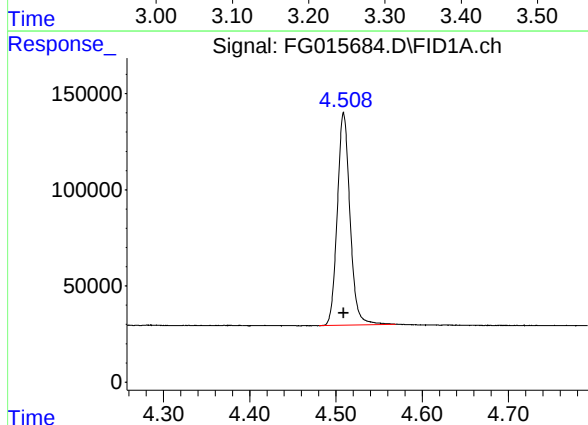




#1 n-Nonane (C9)

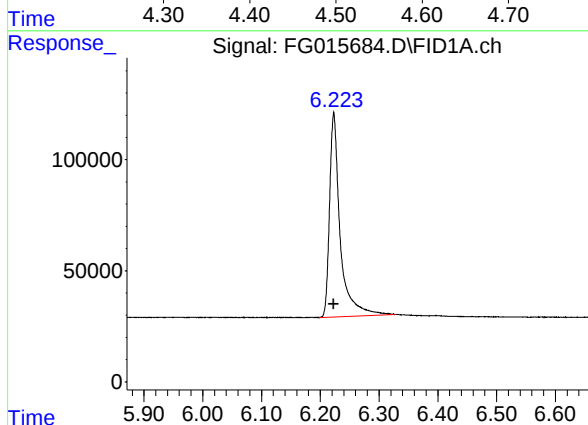
R.T.: 3.249 min
Delta R.T.: 0.000 min
Response: 1135762
Conc: 10.17 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



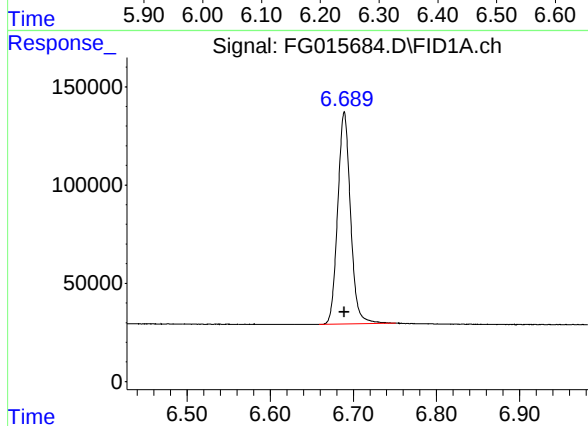
#2 n-Decane (C10)

R.T.: 4.508 min
Delta R.T.: 0.000 min
Response: 1131960
Conc: 10.08 ug/ml



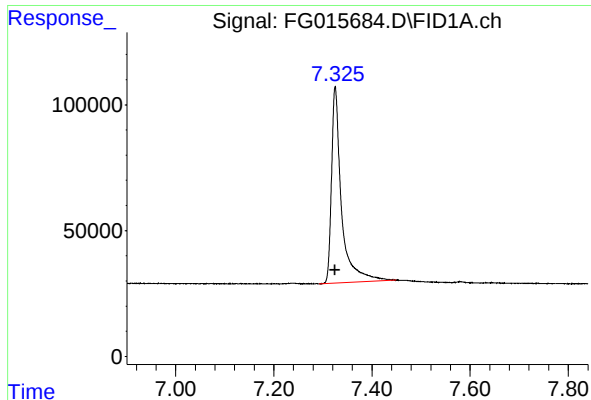
#3 A~Naphthalene (C11.7)

R.T.: 6.223 min
Delta R.T.: 0.000 min
Response: 1155525
Conc: 9.74 ug/ml



#4 n-Dodecane (C12)

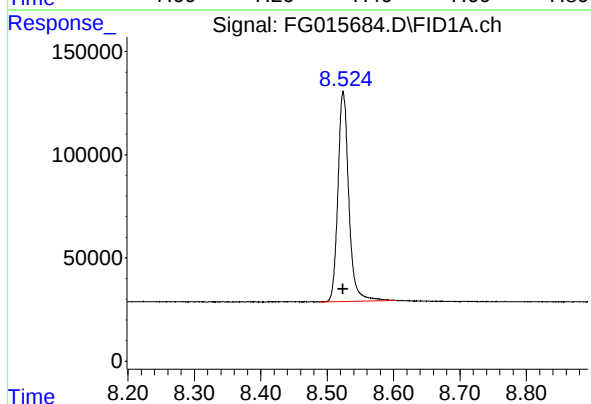
R.T.: 6.689 min
Delta R.T.: 0.000 min
Response: 1158246
Conc: 10.09 ug/ml



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

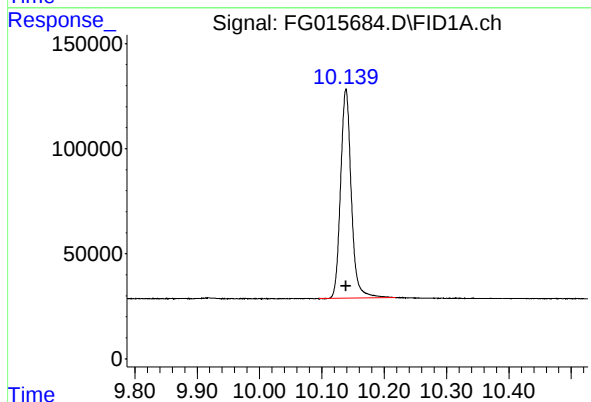
R.T.: 7.325 min
Delta R.T.: 0.000 min
Response: 1105453
Conc: 9.56 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



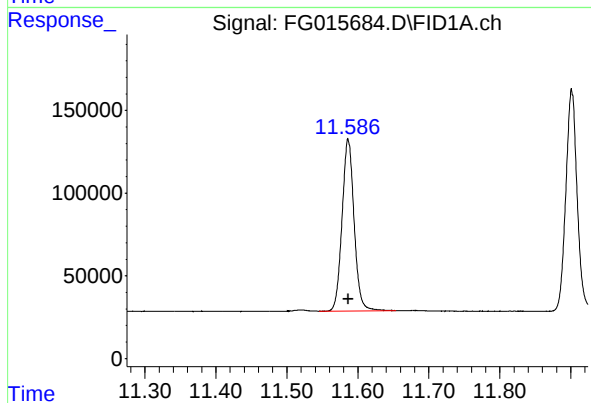
#6 n-Tetradecane (C14)

R.T.: 8.524 min
Delta R.T.: 0.000 min
Response: 1154694
Conc: 10.05 ug/ml



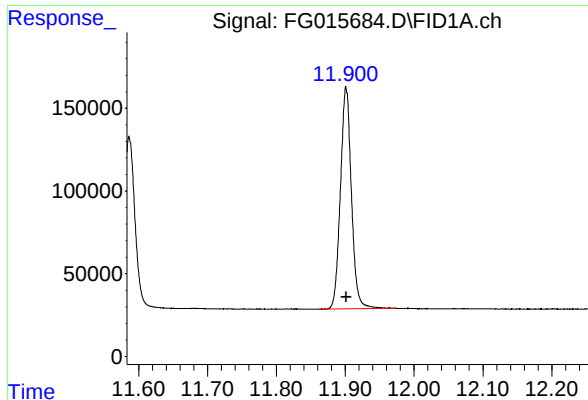
#7 n-Hexadecane (C16)

R.T.: 10.139 min
Delta R.T.: 0.000 min
Response: 1190078
Conc: 10.11 ug/ml



#8 n-Octadecane (C18)

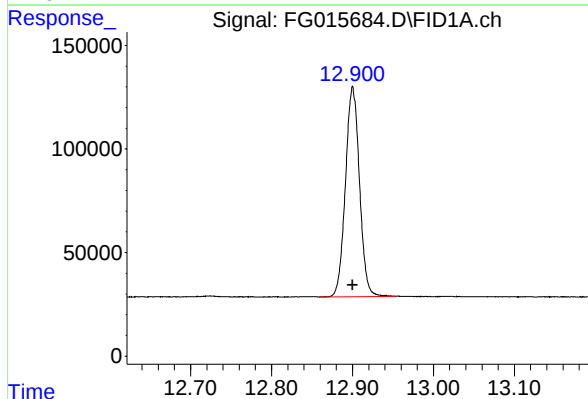
R.T.: 11.586 min
Delta R.T.: 0.000 min
Response: 1224437
Conc: 10.20 ug/ml



#9 ortho-Terphenyl (SURR)

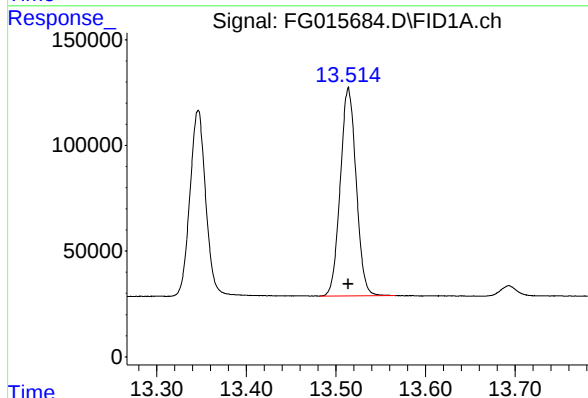
R.T.: 11.901 min
Delta R.T.: 0.000 min
Response: 1487271
Conc: 10.27 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



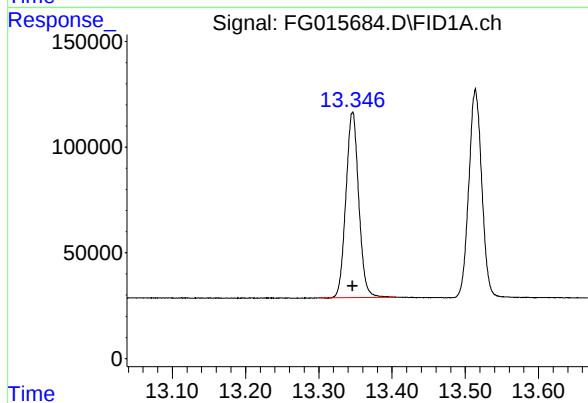
#10 n-Eicosane (C20)

R.T.: 12.900 min
Delta R.T.: 0.000 min
Response: 1220512
Conc: 10.25 ug/ml



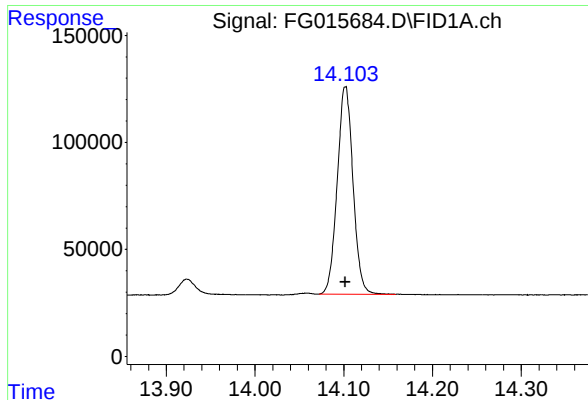
#11 n-Heneicosane (C21)

R.T.: 13.514 min
Delta R.T.: 0.000 min
Response: 1212827
Conc: 10.26 ug/ml



#12 1-chlorooctadecane (SURR)

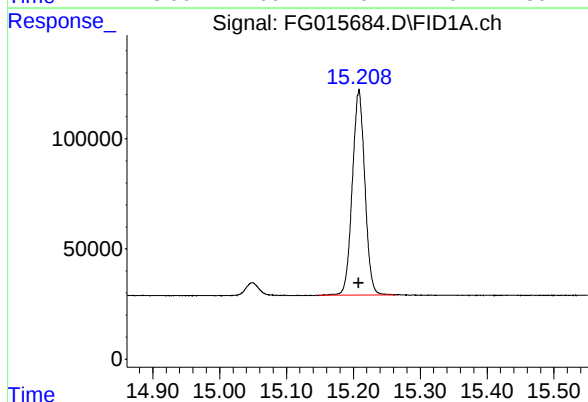
R.T.: 13.346 min
Delta R.T.: 0.000 min
Response: 1069588
Conc: 10.04 ug/ml



#13 n-Docosane (C22)

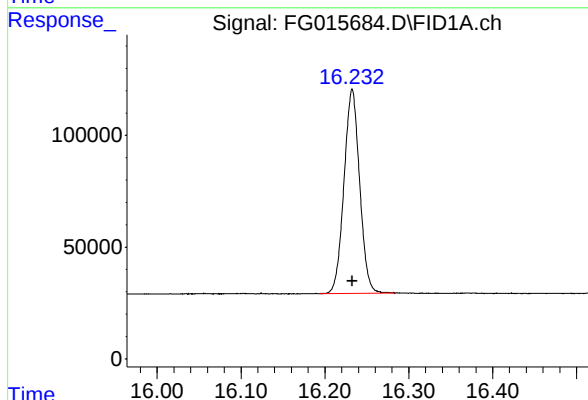
R.T.: 14.102 min
Delta R.T.: 0.000 min
Response: 1199272
Conc: 10.26 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



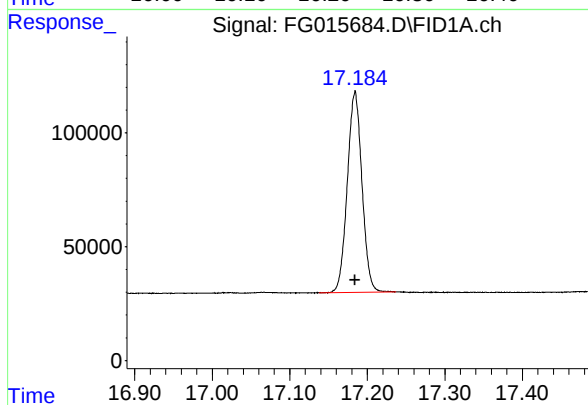
#14 n-Tetracosane (C24)

R.T.: 15.208 min
Delta R.T.: 0.000 min
Response: 1211987
Conc: 10.49 ug/ml



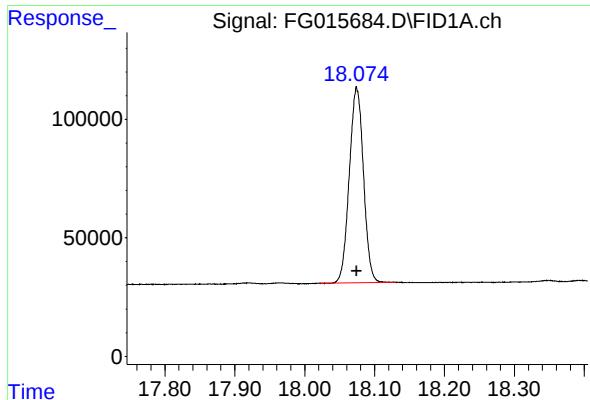
#15 n-Hexacosane (C26)

R.T.: 16.233 min
Delta R.T.: 0.000 min
Response: 1183059
Conc: 10.55 ug/ml



#16 n-Octacosane (C28)

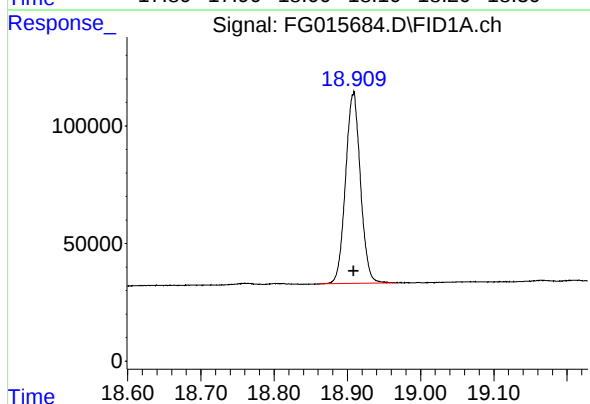
R.T.: 17.184 min
Delta R.T.: 0.000 min
Response: 1158263
Conc: 10.64 ug/ml



#17 n-Tricontane (C30)

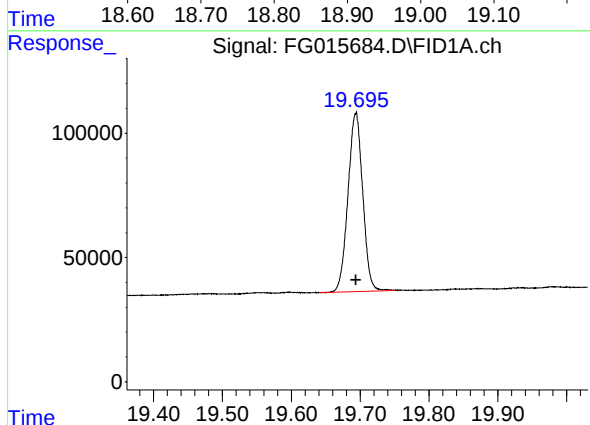
R.T.: 18.074 min
Delta R.T.: 0.000 min
Response: 1164012
Conc: 10.77 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



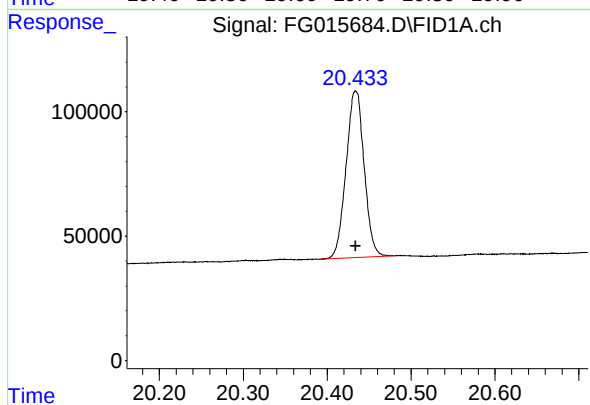
#18 n-Dotriacontane (C32)

R.T.: 18.908 min
Delta R.T.: 0.000 min
Response: 1146962
Conc: 10.81 ug/ml



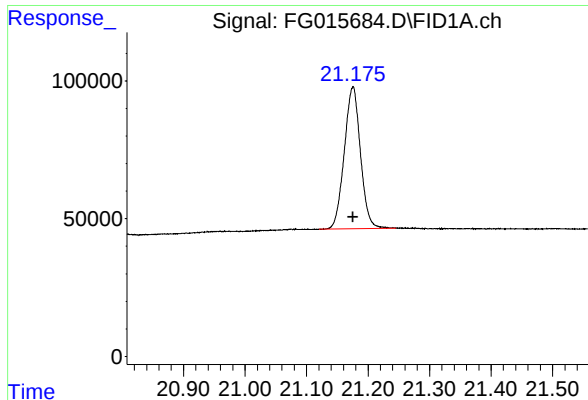
#19 n-Tetatriacontane (C34)

R.T.: 19.694 min
Delta R.T.: 0.000 min
Response: 1068003
Conc: 10.65 ug/ml



#20 n-Hexatriacontane (C36)

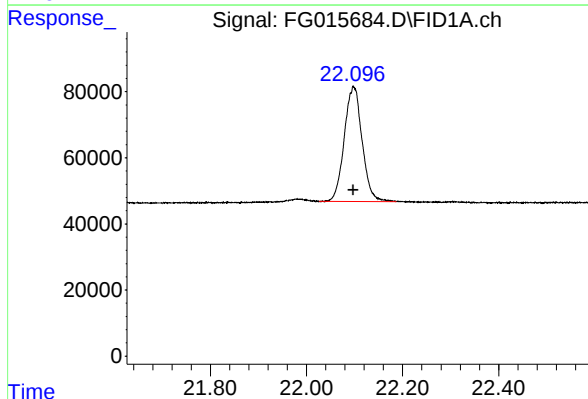
R.T.: 20.434 min
Delta R.T.: 0.000 min
Response: 1002181
Conc: 10.42 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.176 min
Delta R.T.: 0.000 min
Response: 940463
Conc: 10.55 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.098 min
Delta R.T.: 0.000 min
Response: 895577
Conc: 10.99 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
 Data File : FG015684.D
 Signal(s) : FID1A.ch
 Acq On : 17 Apr 2025 11:47
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.249	3.214	3.315	BB	110807	1135762	76.37%	4.504%
2	4.509	4.480	4.570	BB	110678	1131960	76.11%	4.489%
3	6.223	6.198	6.329	BB	92078	1155525	77.69%	4.582%
4	6.689	6.659	6.751	BB	108169	1158246	77.88%	4.593%
5	7.325	7.292	7.449	BB	78176	1105453	74.33%	4.384%
6	8.524	8.488	8.604	BB	101748	1154694	77.64%	4.579%
7	10.139	10.095	10.219	BB	99500	1190078	80.02%	4.720%
8	11.586	11.545	11.654	BB	103849	1224437	82.33%	4.856%
9	11.901	11.862	11.974	BB	133588	1487271	100.00%	5.898%
10	12.900	12.859	12.954	BB	101554	1220512	82.06%	4.840%
11	13.346	13.300	13.405	BB	87673	1069588	71.92%	4.242%
12	13.514	13.481	13.567	BB	98705	1212827	81.55%	4.810%
13	14.102	14.072	14.159	BB	96820	1199272	80.64%	4.756%
14	15.208	15.149	15.264	BB	93517	1211987	81.49%	4.806%
15	16.233	16.193	16.285	BB	91438	1183059	79.55%	4.692%
16	17.184	17.138	17.237	BB	88658	1158263	77.88%	4.593%
17	18.074	18.020	18.130	BB	82307	1164012	78.26%	4.616%
18	18.908	18.861	18.966	BB	80708	1146962	77.12%	4.549%
19	19.694	19.640	19.752	BB	71556	1068003	71.81%	4.235%
20	20.434	20.390	20.482	BB	67045	1002181	67.38%	3.974%
21	21.176	21.120	21.245	BB	51571	940463	63.23%	3.730%
22	22.098	22.026	22.186	BB	34805	895577	60.22%	3.552%
Sum of corrected areas:							25216129	

Aliphatic EPH 041725.M Thu Apr 17 13:10:04 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
 Data File : FG015685.D
 Signal(s) : FID1A.ch
 Acq On : 17 Apr 2025 12:16
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Apr 17 12:26:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Thu Apr 17 12:26:46 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)	11.901	726678	5.012 ug/ml
Spiked Amount 50.000		Recovery =	10.02%
12) S 1-chlorooctadecane (S...	13.347	513369	4.855 ug/ml
Spiked Amount 50.000		Recovery =	9.71%
Target Compounds			
1) T n-Nonane (C9)	3.251	559987	5.011 ug/ml
2) T n-Decane (C10)	4.510	556726	4.965 ug/ml
3) T A~Naphthalene (C11.7)	6.226	526545	4.538 ug/ml
4) T n-Dodecane (C12)	6.689	562393	4.919 ug/ml
5) T A~2-methylnaphthalene...	7.329	470534	4.227 ug/ml
6) T n-Tetradecane (C14)	8.525	550704	4.833 ug/ml
7) T n-Hexadecane (C16)	10.139	569544	4.871 ug/ml
8) T n-Octadecane (C18)	11.586	590472	4.936 ug/ml
10) T n-Eicosane (C20)	12.900	594358	4.995 ug/ml
11) T n-Heneicosane (C21)	13.514	591782	5.003 ug/ml
13) T n-Docosane (C22)	14.102	578526	4.961 ug/ml
14) T n-Tetracosane (C24)	15.209	571063	4.955 ug/ml
15) T n-Hexacosane (C26)	16.233	548030	4.908 ug/ml
16) T n-Octacosane (C28)	17.185	544376	5.002 ug/ml
17) T n-Tricontane (C30)	18.074	561801	5.158 ug/ml
18) T n-Dotriacontane (C32)	18.908	566968	5.270 ug/ml
19) T n-Tetratriacontane (C34)	19.694	541448	5.314 ug/ml
20) T n-Hexatriacontane (C36)	20.434	522794	5.344 ug/ml
21) T n-Octatriacontane (C38)	21.176	498766	5.464 ug/ml
22) T n-Tetracontane (C40)	22.097	481343	5.700 ug/ml

(f)=RT Delta > 1/2 Window

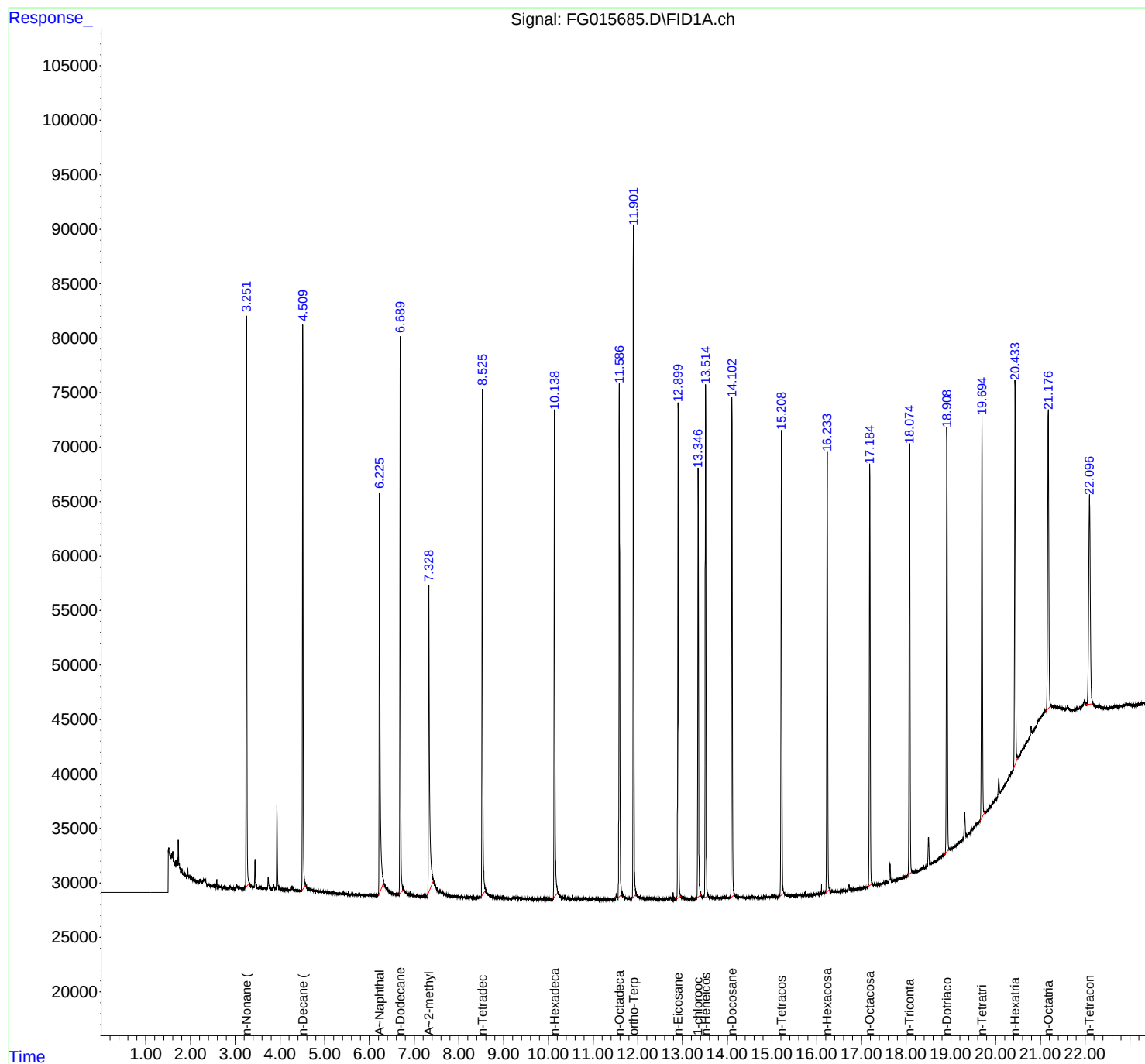
(m)=manual int.

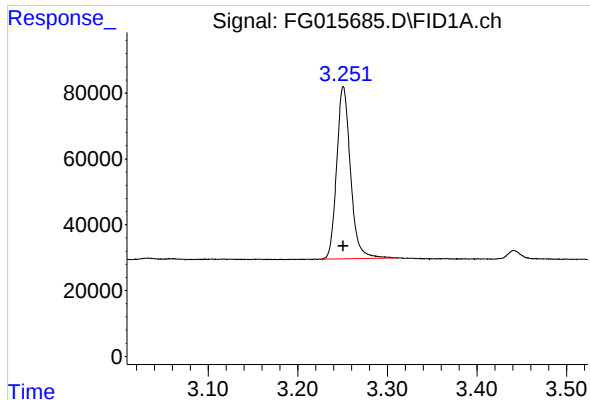
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015685.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 12:16
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Apr 17 12:26:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 12:26:46 2025
Response via : Initial Calibration
Integrator: ChemStation

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

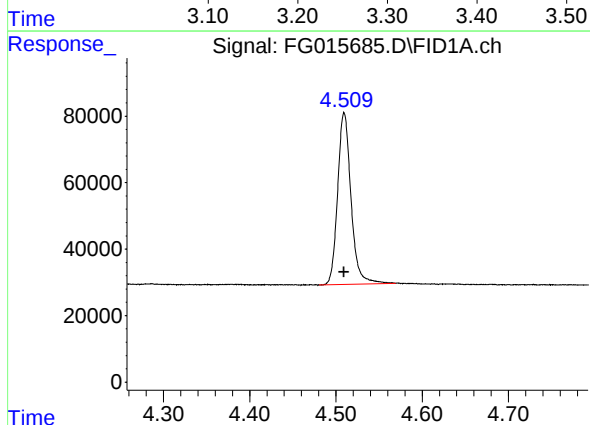




#1 n-Nonane (C9)

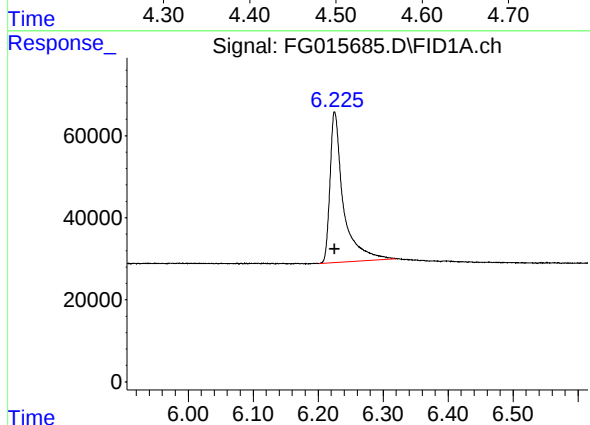
R.T.: 3.251 min
Delta R.T.: 0.000 min
Response: 559987
Conc: 5.01 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



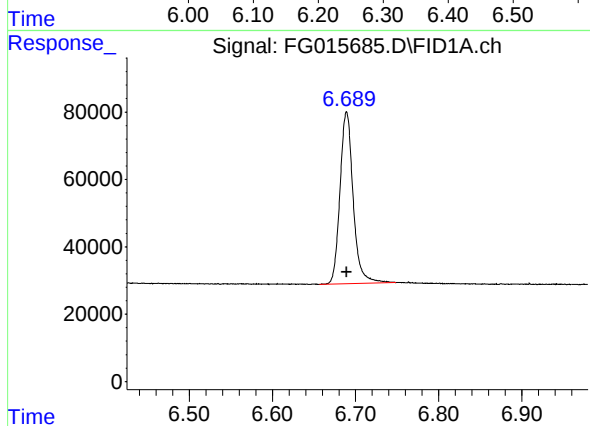
#2 n-Decane (C10)

R.T.: 4.510 min
Delta R.T.: 0.000 min
Response: 556726
Conc: 4.96 ug/ml



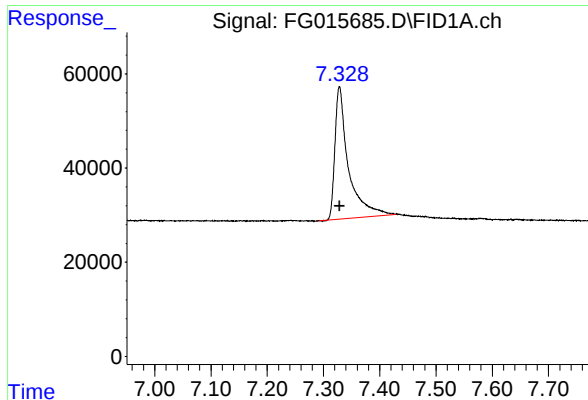
#3 A~Naphthalene (C11.7)

R.T.: 6.226 min
Delta R.T.: 0.000 min
Response: 526545
Conc: 4.54 ug/ml



#4 n-Dodecane (C12)

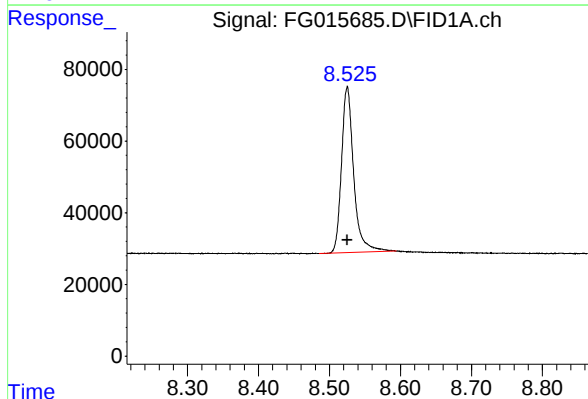
R.T.: 6.689 min
Delta R.T.: 0.000 min
Response: 562393
Conc: 4.92 ug/ml



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

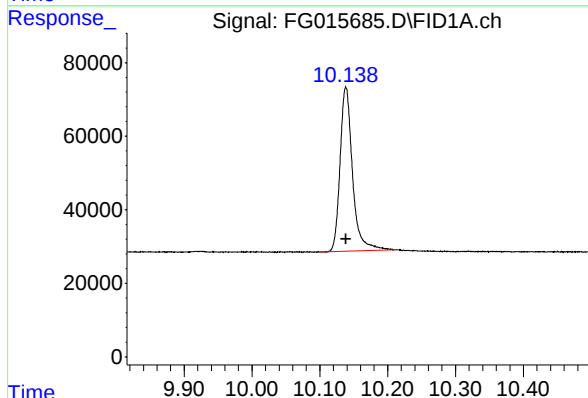
R.T.: 7.329 min
Delta R.T.: 0.000 min
Response: 470534
Conc: 4.23 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



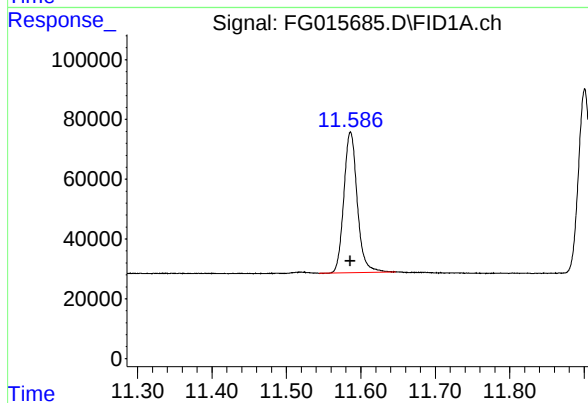
#6 n-Tetradecane (C14)

R.T.: 8.525 min
Delta R.T.: 0.000 min
Response: 550704
Conc: 4.83 ug/ml



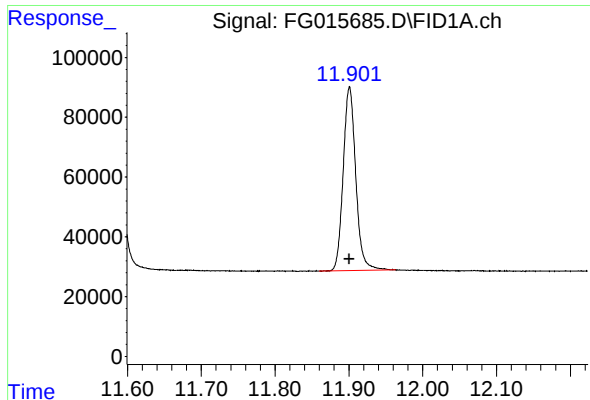
#7 n-Hexadecane (C16)

R.T.: 10.139 min
Delta R.T.: 0.000 min
Response: 569544
Conc: 4.87 ug/ml



#8 n-Octadecane (C18)

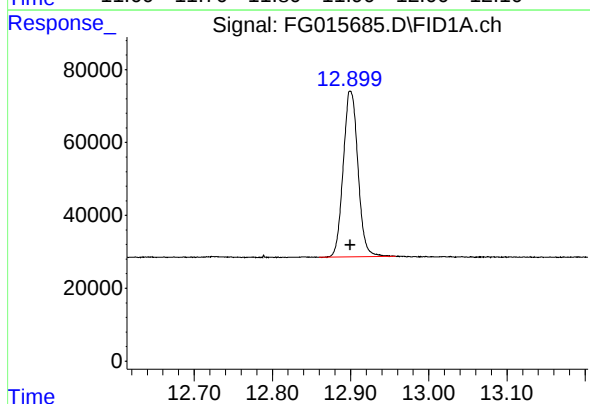
R.T.: 11.586 min
Delta R.T.: 0.000 min
Response: 590472
Conc: 4.94 ug/ml



#9 ortho-Terphenyl (SURR)

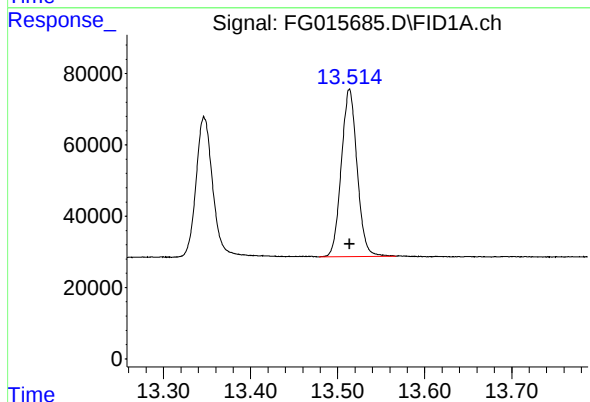
R.T.: 11.901 min
Delta R.T.: 0.000 min
Response: 726678
Conc: 5.01 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



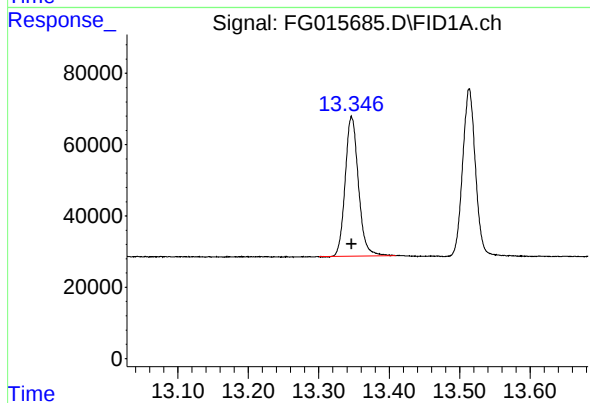
#10 n-Eicosane (C20)

R.T.: 12.900 min
Delta R.T.: 0.000 min
Response: 594358
Conc: 4.99 ug/ml



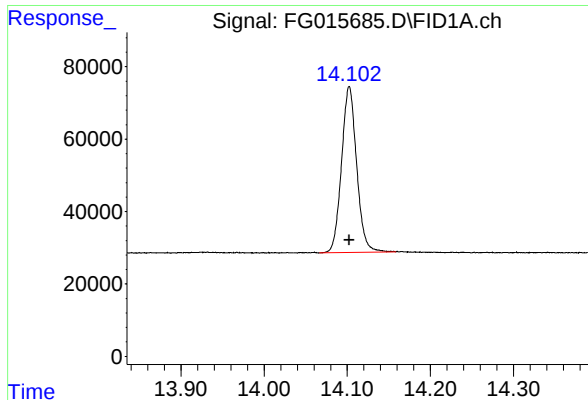
#11 n-Heneicosane (C21)

R.T.: 13.514 min
Delta R.T.: 0.000 min
Response: 591782
Conc: 5.00 ug/ml



#12 1-chlorooctadecane (SURR)

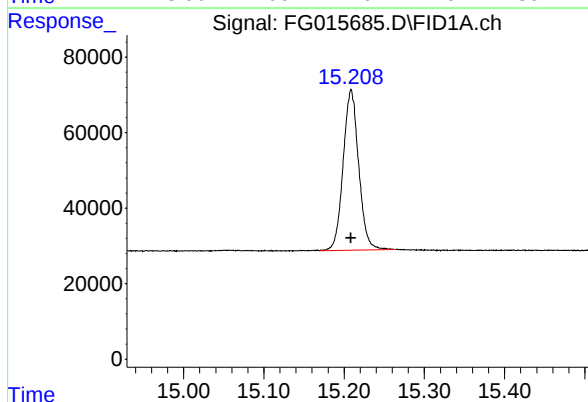
R.T.: 13.347 min
Delta R.T.: 0.000 min
Response: 513369
Conc: 4.85 ug/ml



#13 n-Docosane (C22)

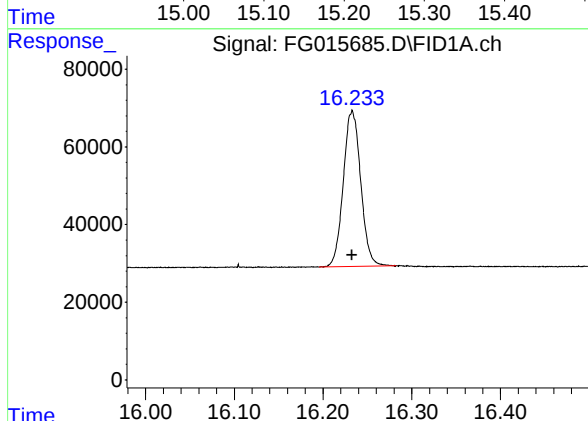
R.T.: 14.102 min
Delta R.T.: 0.000 min
Response: 578526
Conc: 4.96 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



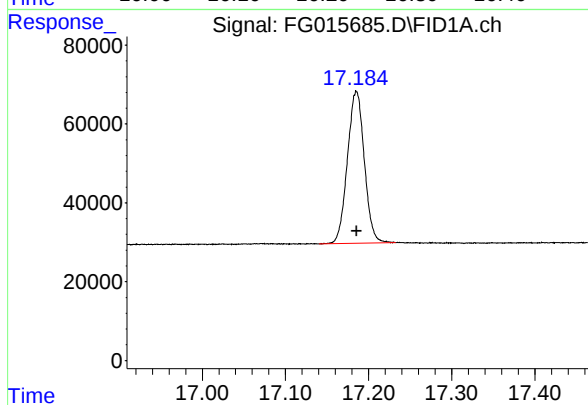
#14 n-Tetracosane (C24)

R.T.: 15.209 min
Delta R.T.: 0.000 min
Response: 571063
Conc: 4.96 ug/ml



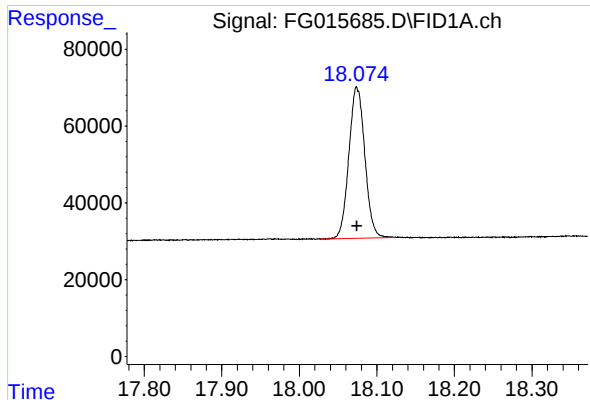
#15 n-Hexacosane (C26)

R.T.: 16.233 min
Delta R.T.: 0.000 min
Response: 548030
Conc: 4.91 ug/ml



#16 n-Octacosane (C28)

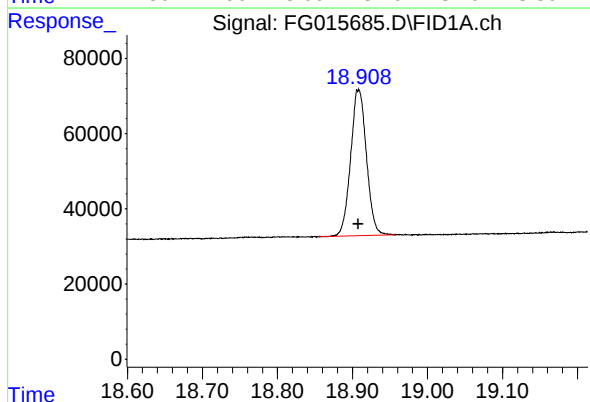
R.T.: 17.185 min
Delta R.T.: 0.000 min
Response: 544376
Conc: 5.00 ug/ml



#17 n-Tricontane (C30)

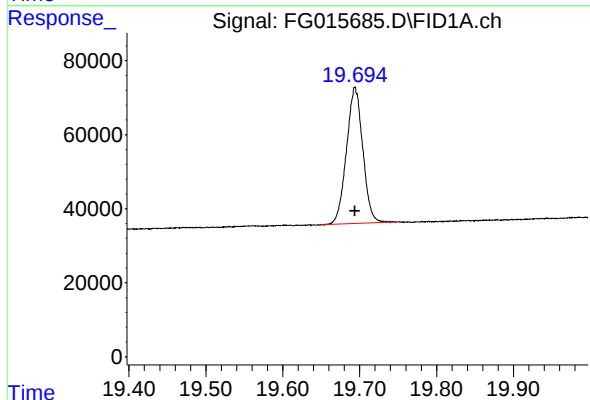
R.T.: 18.074 min
Delta R.T.: 0.000 min
Response: 561801
Conc: 5.16 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



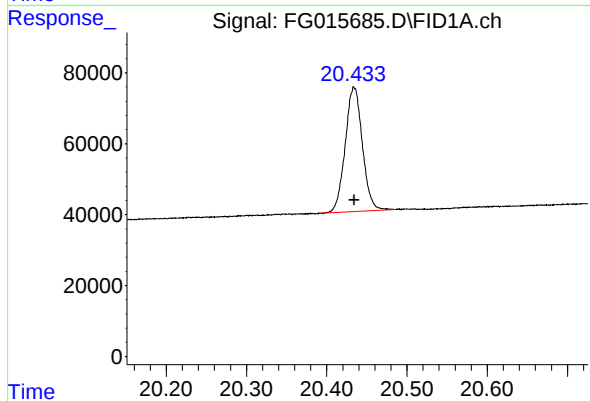
#18 n-Dotriacontane (C32)

R.T.: 18.908 min
Delta R.T.: 0.000 min
Response: 566968
Conc: 5.27 ug/ml



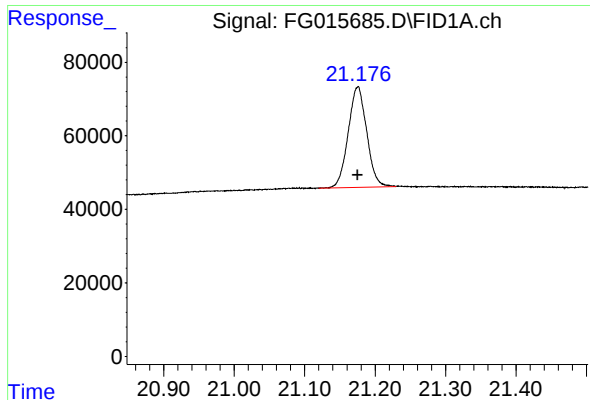
#19 n-Tetatriacontane (C34)

R.T.: 19.694 min
Delta R.T.: 0.000 min
Response: 541448
Conc: 5.31 ug/ml



#20 n-Hexatriacontane (C36)

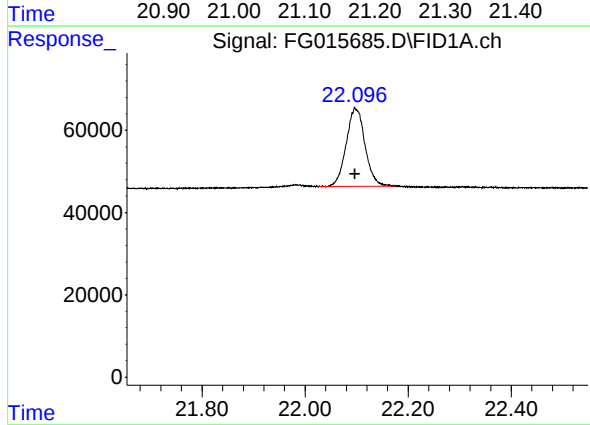
R.T.: 20.434 min
Delta R.T.: 0.000 min
Response: 522794
Conc: 5.34 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.176 min
Delta R.T.: 0.000 min
Response: 498766
Conc: 5.46 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.097 min
Delta R.T.: 0.000 min
Response: 481343
Conc: 5.70 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015685.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 12:16
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.251	3.224	3.310	BB	52373	559987	77.06%	4.579%
2	4.510	4.480	4.570	BB	51705	556726	76.61%	4.553%
3	6.226	6.201	6.320	BB	36720	526545	72.46%	4.306%
4	6.689	6.656	6.749	BB	51021	562393	77.39%	4.599%
5	7.329	7.292	7.429	BB	28173	470534	64.75%	3.848%
6	8.525	8.485	8.594	BB	46452	550704	75.78%	4.504%
7	10.139	10.099	10.212	BB	44571	569544	78.38%	4.658%
8	11.586	11.544	11.647	BB	47078	590472	81.26%	4.829%
9	11.901	11.860	11.964	BB	61590	726678	100.00%	5.943%
10	12.900	12.860	12.958	BB	45438	594358	81.79%	4.861%
11	13.347	13.300	13.410	BB	39081	513369	70.65%	4.198%
12	13.514	13.479	13.567	BB	46998	591782	81.44%	4.839%
13	14.103	14.066	14.159	BB	45887	578526	79.61%	4.731%
14	15.209	15.169	15.265	BB	42666	571063	78.59%	4.670%
15	16.233	16.195	16.282	BB	40315	548030	75.42%	4.482%
16	17.185	17.140	17.233	BB	38552	544376	74.91%	4.452%
17	18.074	18.025	18.125	BB	39434	561801	77.31%	4.594%
18	18.908	18.855	18.958	BB	38544	566968	78.02%	4.637%
19	19.694	19.647	19.747	BB	36791	541448	74.51%	4.428%
20	20.434	20.390	20.486	BB	34782	522794	71.94%	4.275%
21	21.176	21.120	21.230	BB	27352	498766	68.64%	4.079%
22	22.097	22.027	22.176	BB	19118	481343	66.24%	3.936%
Sum of corrected areas:							12228206	

Aliphatic EPH 041725.M Thu Apr 17 13:10:23 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
 Data File : FG015686.D
 Signal(s) : FID1A.ch
 Acq On : 17 Apr 2025 12:45
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Apr 17 12:57:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Thu Apr 17 12:40:13 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.902	2897428	19.986 ug/ml
Spiked Amount 50.000		Recovery =	39.97%
12) S 1-chlorooctadecane (S...	13.347	2133704	20.177 ug/ml
Spiked Amount 50.000		Recovery =	40.35%
Target Compounds			
1) T n-Nonane (C9)	3.251	2242094	20.063 ug/ml
2) T n-Decane (C10)	4.509	2255615	20.115 ug/ml
3) T A~Naphthalene (C11.7)	6.221	2367752	20.408 ug/ml
4) T n-Dodecane (C12)	6.689	2300601	20.121 ug/ml
5) T A~2-methylnaphthalene...	7.323	2288489	20.556 ug/ml
6) T n-Tetradecane (C14)	8.525	2292779	20.120 ug/ml
7) T n-Hexadecane (C16)	10.138	2348678	20.086 ug/ml
8) T n-Octadecane (C18)	11.587	2400058	20.064 ug/ml
10) T n-Eicosane (C20)	12.901	2387350	20.062 ug/ml
11) T n-Heneicosane (C21)	13.515	2367737	20.018 ug/ml
13) T n-Docosane (C22)	14.103	2360668	20.243 ug/ml
14) T n-Tetracosane (C24)	15.209	2376829	20.624 ug/ml
15) T n-Hexacosane (C26)	16.233	2315034	20.731 ug/ml
16) T n-Octacosane (C28)	17.185	2254448	20.715 ug/ml
17) T n-Tricontane (C30)	18.074	2234772	20.517 ug/ml
18) T n-Dotriacontane (C32)	18.909	2199394	20.444 ug/ml
19) T n-Tetratriacontane (C34)	19.694	2041836	20.039 ug/ml
20) T n-Hexatriacontane (C36)	20.434	1944278	19.876 ug/ml
21) T n-Octatriacontane (C38)	21.175	1772364	19.418 ug/ml
22) T n-Tetracontane (C40)	22.096	1587059	18.792 ug/ml

(f)=RT Delta > 1/2 Window

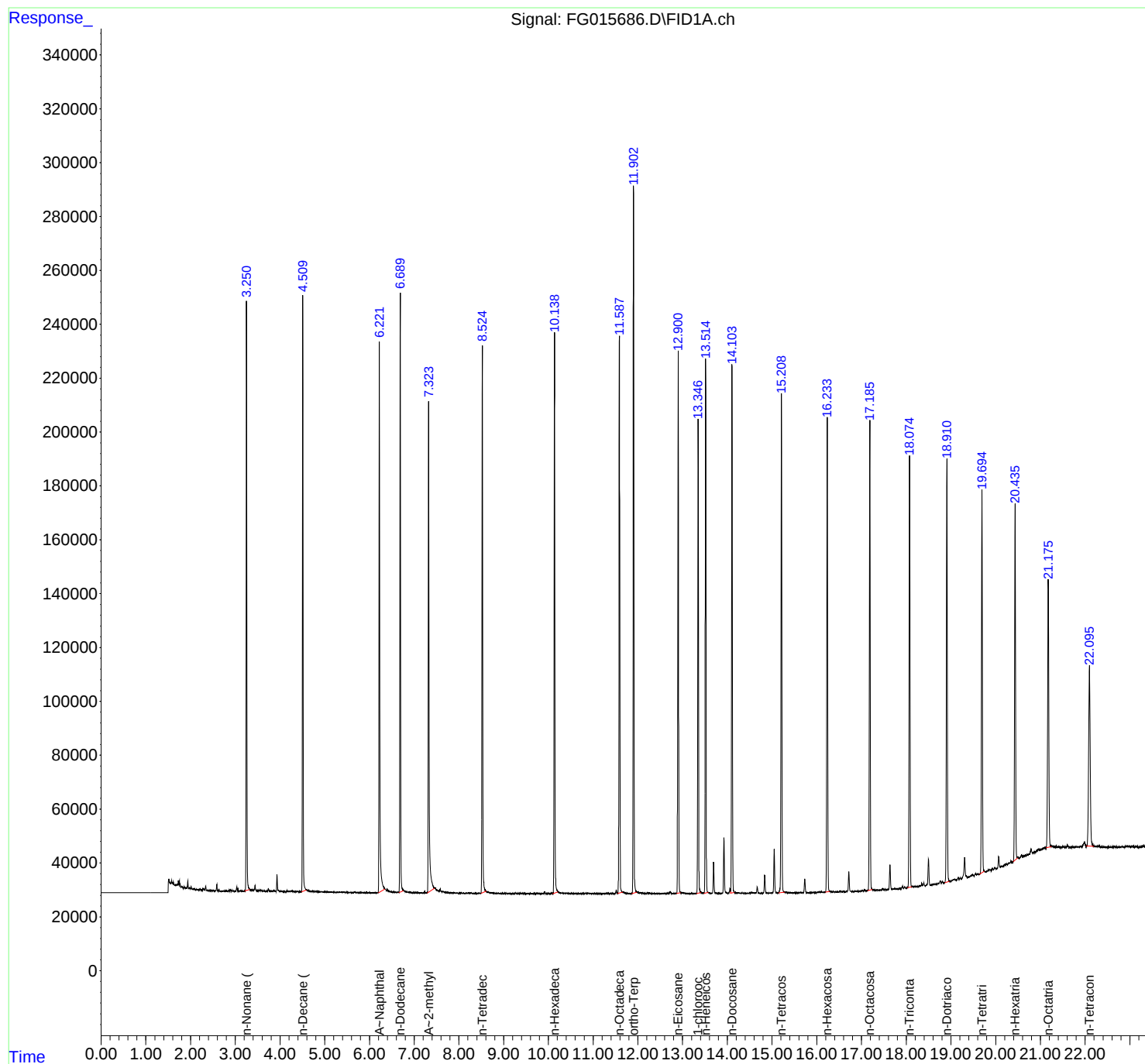
(m)=manual int.

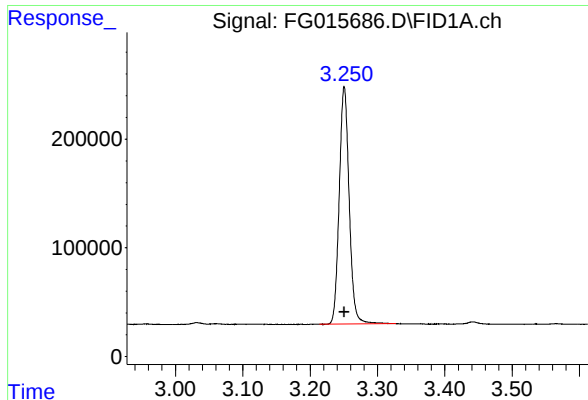
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015686.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 12:45
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Apr 17 12:57:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 12:40:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#1 n-Nonane (C9)

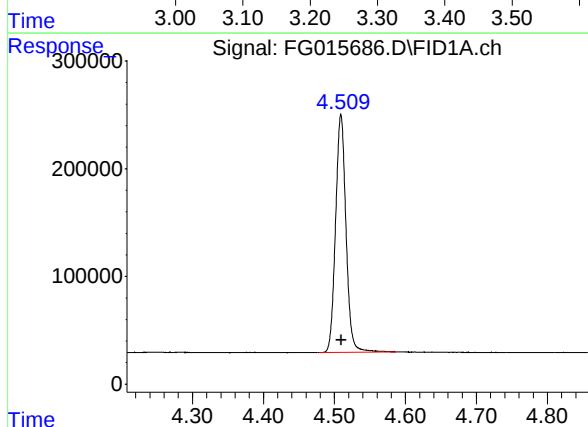
R.T.: 3.251 min
Delta R.T.: 0.000 min
Response: 2242094
Conc: 20.06 ug/ml

Instrument :

FID_G

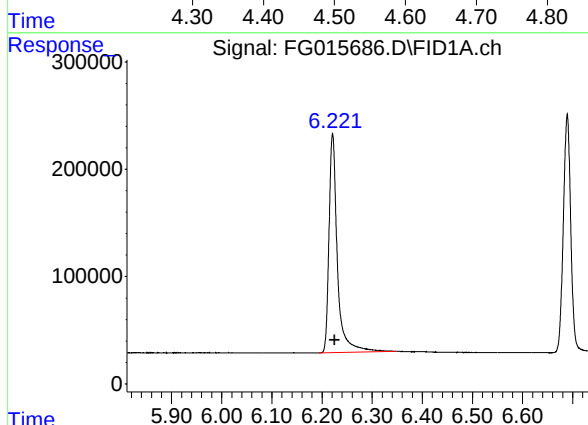
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



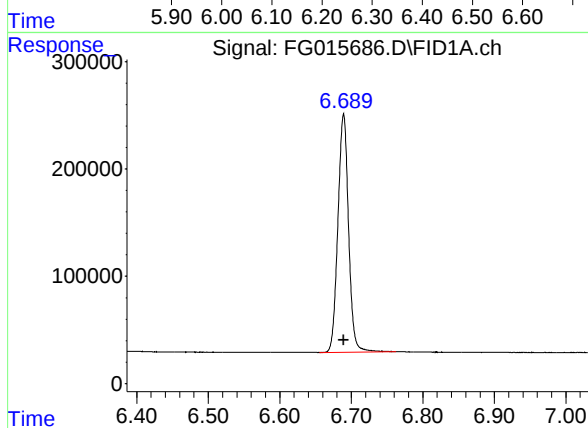
#2 n-Decane (C10)

R.T.: 4.509 min
Delta R.T.: 0.000 min
Response: 2255615
Conc: 20.12 ug/ml



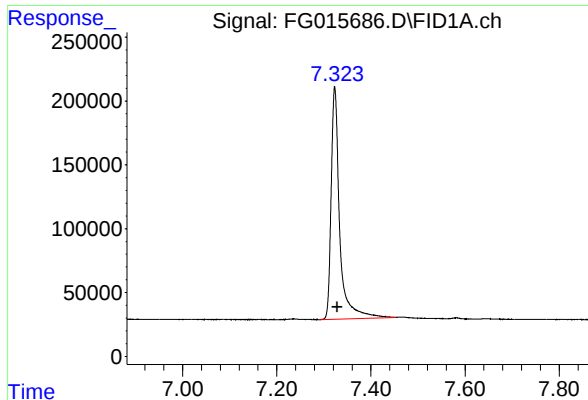
#3 A~Naphthalene (C11.7)

R.T.: 6.221 min
Delta R.T.: -0.004 min
Response: 2367752
Conc: 20.41 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.689 min
Delta R.T.: 0.000 min
Response: 2300601
Conc: 20.12 ug/ml



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

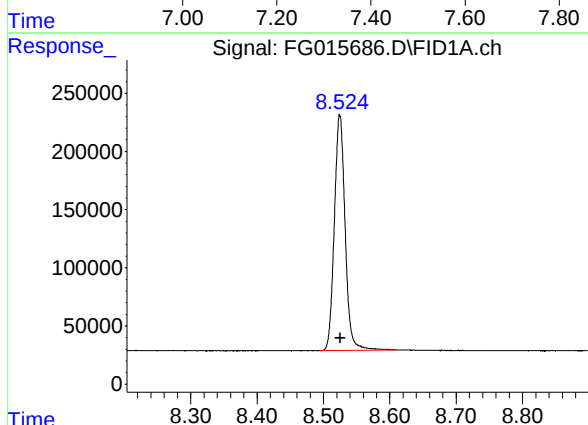
R.T.: 7.323 min
Delta R.T.: -0.005 min
Response: 2288489
Conc: 20.56 ug/ml

Instrument :

FID_G

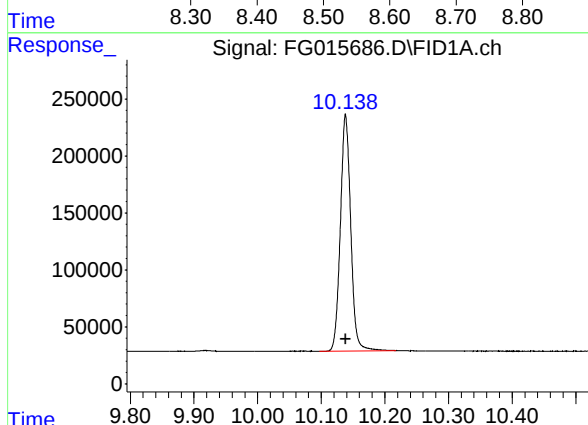
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



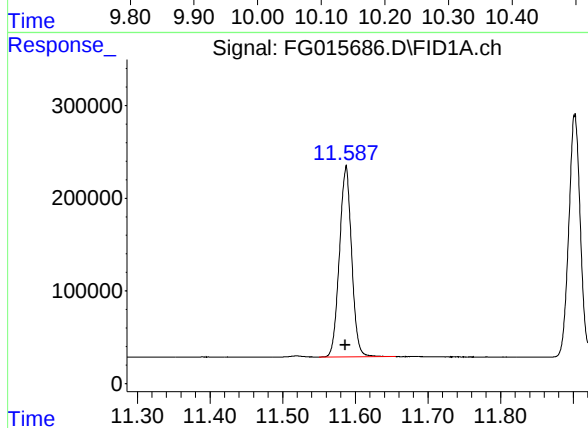
#6 n-Tetradecane (C14)

R.T.: 8.525 min
Delta R.T.: 0.000 min
Response: 2292779
Conc: 20.12 ug/ml



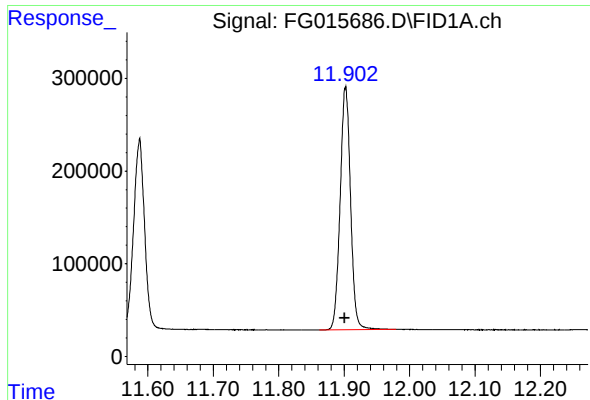
#7 n-Hexadecane (C16)

R.T.: 10.138 min
Delta R.T.: 0.000 min
Response: 2348678
Conc: 20.09 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.587 min
Delta R.T.: 0.001 min
Response: 2400058
Conc: 20.06 ug/ml



#9 ortho-Terphenyl (SURR)

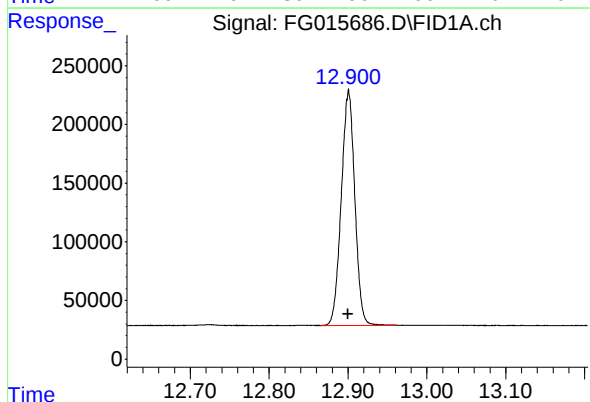
R.T.: 11.902 min
Delta R.T.: 0.001 min
Response: 2897428
Conc: 19.99 ug/ml

Instrument :

FID_G

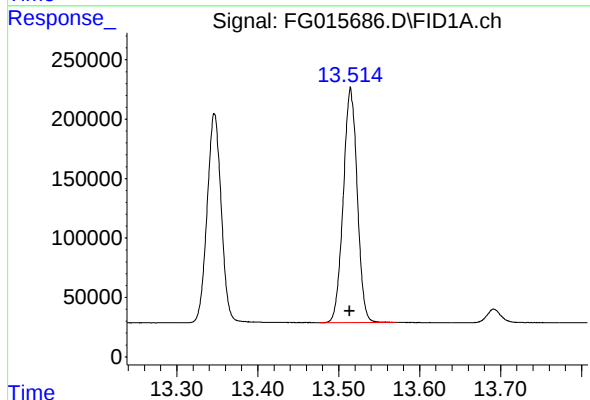
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



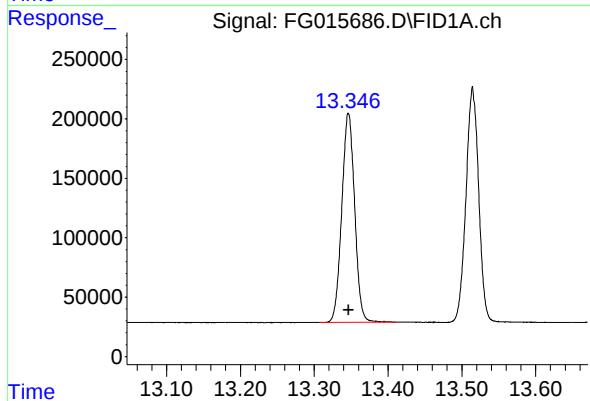
#10 n-Eicosane (C20)

R.T.: 12.901 min
Delta R.T.: 0.000 min
Response: 2387350
Conc: 20.06 ug/ml



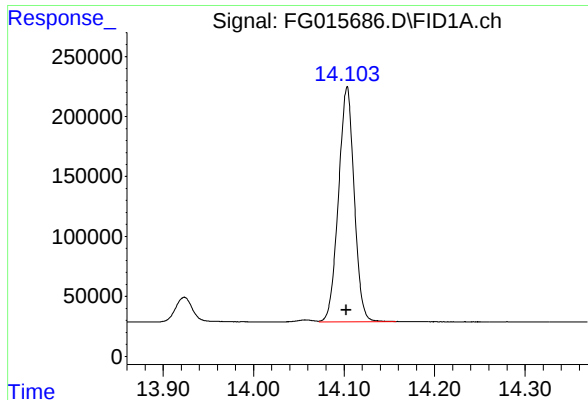
#11 n-Heneicosane (C21)

R.T.: 13.515 min
Delta R.T.: 0.000 min
Response: 2367737
Conc: 20.02 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.347 min
Delta R.T.: 0.000 min
Response: 2133704
Conc: 20.18 ug/ml



#13 n-Docosane (C22)

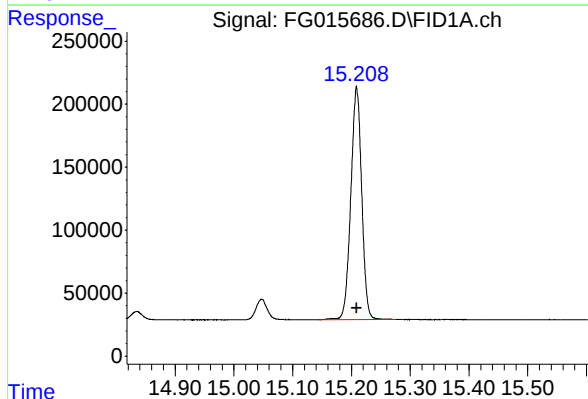
R.T.: 14.103 min
Delta R.T.: 0.000 min
Response: 2360668
Conc: 20.24 ug/ml

Instrument :

FID_G

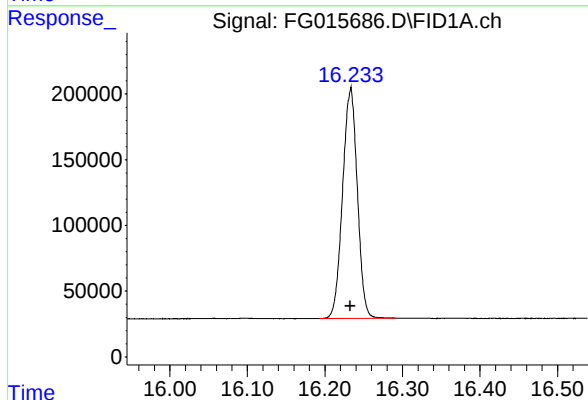
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



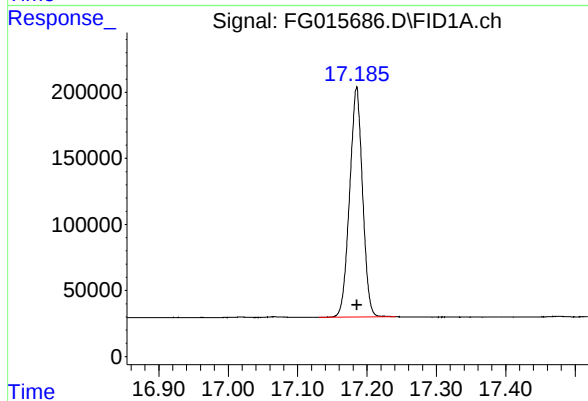
#14 n-Tetracosane (C24)

R.T.: 15.209 min
Delta R.T.: 0.000 min
Response: 2376829
Conc: 20.62 ug/ml



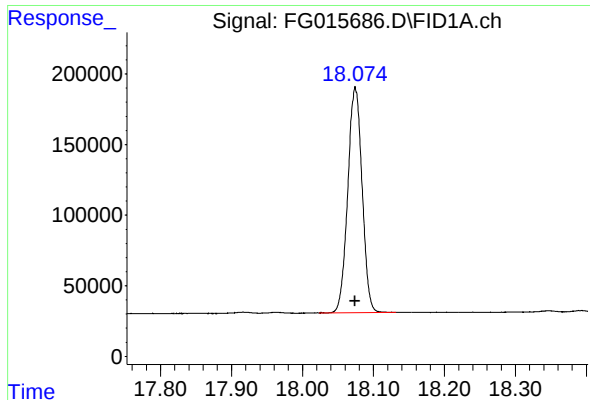
#15 n-Hexacosane (C26)

R.T.: 16.233 min
Delta R.T.: 0.000 min
Response: 2315034
Conc: 20.73 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.185 min
Delta R.T.: 0.000 min
Response: 2254448
Conc: 20.72 ug/ml



#17 n-Tricontane (C30)

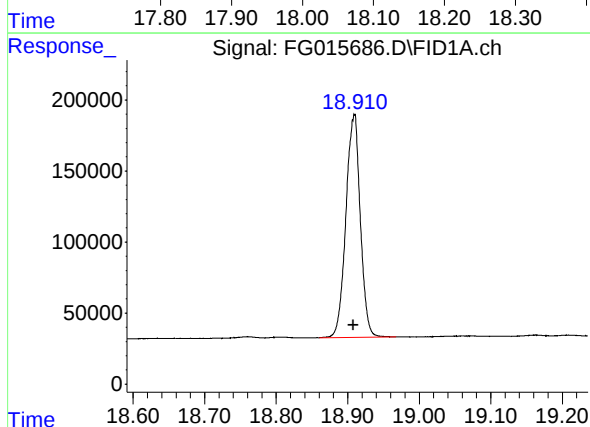
R.T.: 18.074 min
Delta R.T.: 0.000 min
Response: 2234772
Conc: 20.52 ug/ml

Instrument :

FID_G

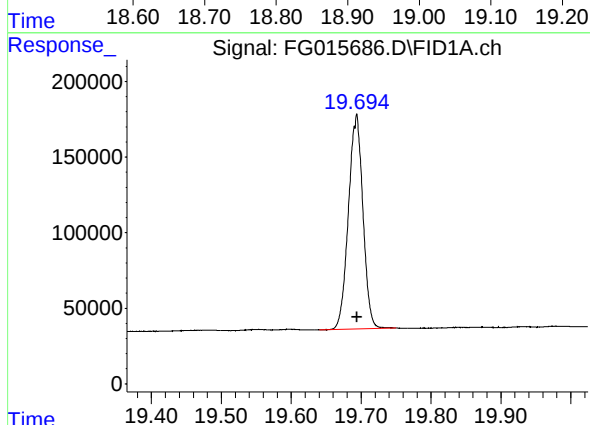
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



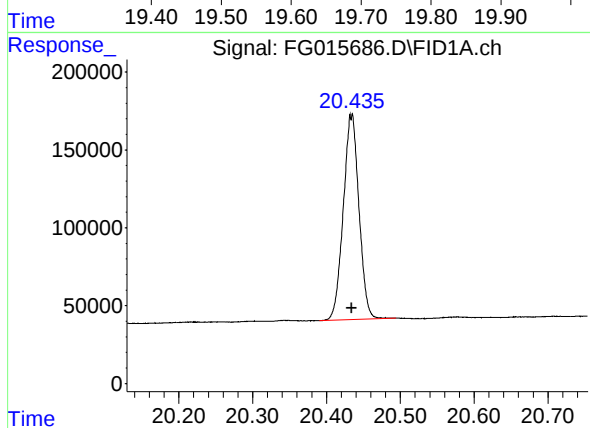
#18 n-Dotriacontane (C32)

R.T.: 18.909 min
Delta R.T.: 0.001 min
Response: 2199394
Conc: 20.44 ug/ml



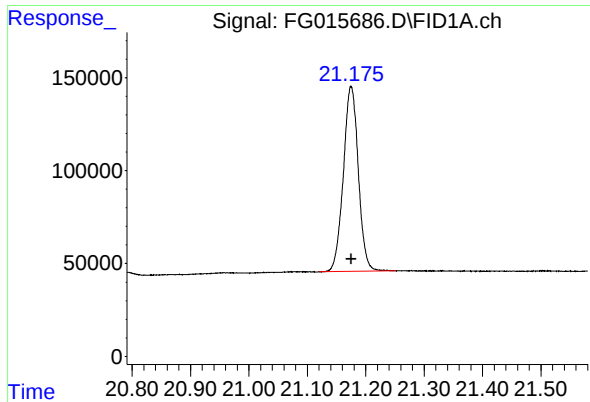
#19 n-Tetatriacontane (C34)

R.T.: 19.694 min
Delta R.T.: 0.000 min
Response: 2041836
Conc: 20.04 ug/ml



#20 n-Hexatriacontane (C36)

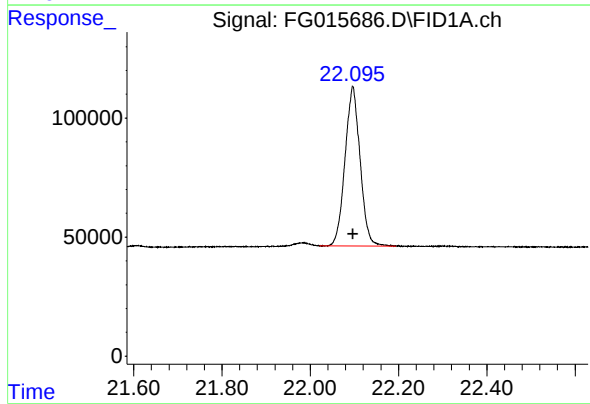
R.T.: 20.434 min
Delta R.T.: 0.000 min
Response: 1944278
Conc: 19.88 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.175 min
Delta R.T.: 0.000 min
Response: 1772364
Conc: 19.42 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.096 min
Delta R.T.: 0.000 min
Response: 1587059
Conc: 18.79 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG041725AL\
Data File : FG015686.D
Signal(s) : FID1A.ch
Acq On : 17 Apr 2025 12:45
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.251	3.213	3.328	BB	218503	2242094	77.38%	4.542%
2	4.509	4.478	4.587	BB	221040	2255615	77.85%	4.569%
3	6.221	6.194	6.348	BB	204592	2367752	81.72%	4.796%
4	6.689	6.655	6.763	BB	222043	2300601	79.40%	4.660%
5	7.323	7.290	7.453	BB	181806	2288489	78.98%	4.635%
6	8.525	8.493	8.609	BB	201727	2292779	79.13%	4.644%
7	10.138	10.097	10.218	BB	207860	2348678	81.06%	4.757%
8	11.587	11.550	11.656	BB	206604	2400058	82.83%	4.861%
9	11.902	11.862	11.979	BB	261923	2897428	100.00%	5.869%
10	12.901	12.863	12.961	BB	200801	2387350	82.40%	4.836%
11	13.347	13.307	13.411	BB	175434	2133704	73.64%	4.322%
12	13.515	13.476	13.571	BB	198307	2367737	81.72%	4.796%
13	14.103	14.073	14.158	VB	196039	2360668	81.47%	4.782%
14	15.209	15.145	15.276	BB	184375	2376829	82.03%	4.814%
15	16.233	16.192	16.292	BB	175341	2315034	79.90%	4.689%
16	17.185	17.131	17.242	BB	173430	2254448	77.81%	4.567%
17	18.074	18.023	18.132	BB	159737	2234772	77.13%	4.527%
18	18.909	18.860	18.968	BB	156809	2199394	75.91%	4.455%
19	19.694	19.640	19.750	BB	142097	2041836	70.47%	4.136%
20	20.434	20.390	20.494	BB	129957	1944278	67.10%	3.938%
21	21.175	21.120	21.252	BB	99353	1772364	61.17%	3.590%
22	22.096	22.020	22.194	BB	67000	1587059	54.77%	3.215%
Sum of corrected areas:							49368965	

Aliphatic EPH 041725.M Thu Apr 17 13:10:57 2025

Continuing Calibration Report for SequenceID : FE042225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE053479.D

Aliphatic C9-C12	7941478.000	60.000	3.123	6.764	132357.967	138562.354	4.478
Aliphatic C12-C16	5323827.000	40.000	6.765	10.214	133095.675	141806.081	6.142
Aliphatic C16-C21	7725953.000	60.000	10.215	13.590	128765.883	145363.765	11.418
Aliphatic C21-C28	9836373.000	80.000	13.591	17.259	122954.663	142174.626	13.519
Aliphatic C28-C40	14465104.000	120.000	17.260	22.156	120542.533	129049.185	6.592
Aliphatic EPH	45292735.000	360.000	3.123	22.156	125813.153	137688.007	8.624

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	22 Apr 2025 21:47
Client Sample ID:		Operator:	YP\AJ
Data file:	FE053479.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.123	6.764	7941478.000	60.000	ug/ml
Aliphatic C12-C16	6.765	10.214	5323827.000	40.000	ug/ml
Aliphatic C16-C21	10.215	13.590	7725953.000	60.000	ug/ml
Aliphatic C21-C28	13.591	17.259	9836373.000	80.000	ug/ml
Aliphatic C28-C40	17.260	22.156	14465104.000	120.000	ug/ml
Aliphatic EPH	3.123	22.156	45292735.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
 Data File : FE053479.D
 Signal(s) : FID1B.ch
 Acq On : 22 Apr 2025 21:47
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/23/2025
 Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e
 Quant Time: Apr 23 02:55:04 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)	11.873	3194859	17.714 ug/ml
Spiked Amount 50.000		Recovery =	35.43%
12) S 1-chlorooctadecane (S...	13.317	2359330	17.454 ug/ml
Spiked Amount 50.000		Recovery =	34.91%
Target Compounds			
1) T n-Nonane (C9)	3.221	2597762	18.948 ug/ml
2) T n-Decane (C10)	4.482	2657309	19.209 ug/ml
3) T A~Naphthalene (C11.7)	6.193	2906529	19.256 ug/ml
4) T n-Dodecane (C12)	6.661	2686407	19.155 ug/ml
5) T A~2-methylnaphthalene...	7.295	2874193	19.251 ug/ml
6) T n-Tetradecane (C14)	8.497	2666550	19.007 ug/ml
7) T n-Hexadecane (C16)	10.111	2657277	18.541 ug/ml
8) T n-Octadecane (C18)	11.558	2617141	17.958 ug/ml
10) T n-Eicosane (C20)	12.872	2571636	17.673 ug/ml
11) T n-Heneicosane (C21)	13.486	2537176	17.517 ug/ml
13) T n-Docosane (C22)	14.073	2515797	17.434 ug/ml
14) T n-Tetracosane (C24)	15.179	2475374	17.233 ug/ml
15) T n-Hexacosane (C26)	16.203	2423694	17.113 ug/ml
16) T n-Octacosane (C28)	17.154	2421508	17.405 ug/ml
17) T n-Tricontane (C30)	18.044	2492405	17.906 ug/ml
18) T n-Dotriacontane (C32)	18.877	2519016	18.346 ug/mlm
19) T n-Tetratriacontane (C34)	19.663	2376562	18.240 ug/ml
20) T n-Hexatriacontane (C36)	20.405	2394904	18.970 ug/mlm
21) T n-Octatriacontane (C38)	21.137	2373370	19.481 ug/mlm
22) T n-Tetracontane (C40)	22.045	2308847	19.334 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053479.D
Signal(s) : FID1B.ch
Acq On : 22 Apr 2025 21:47
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

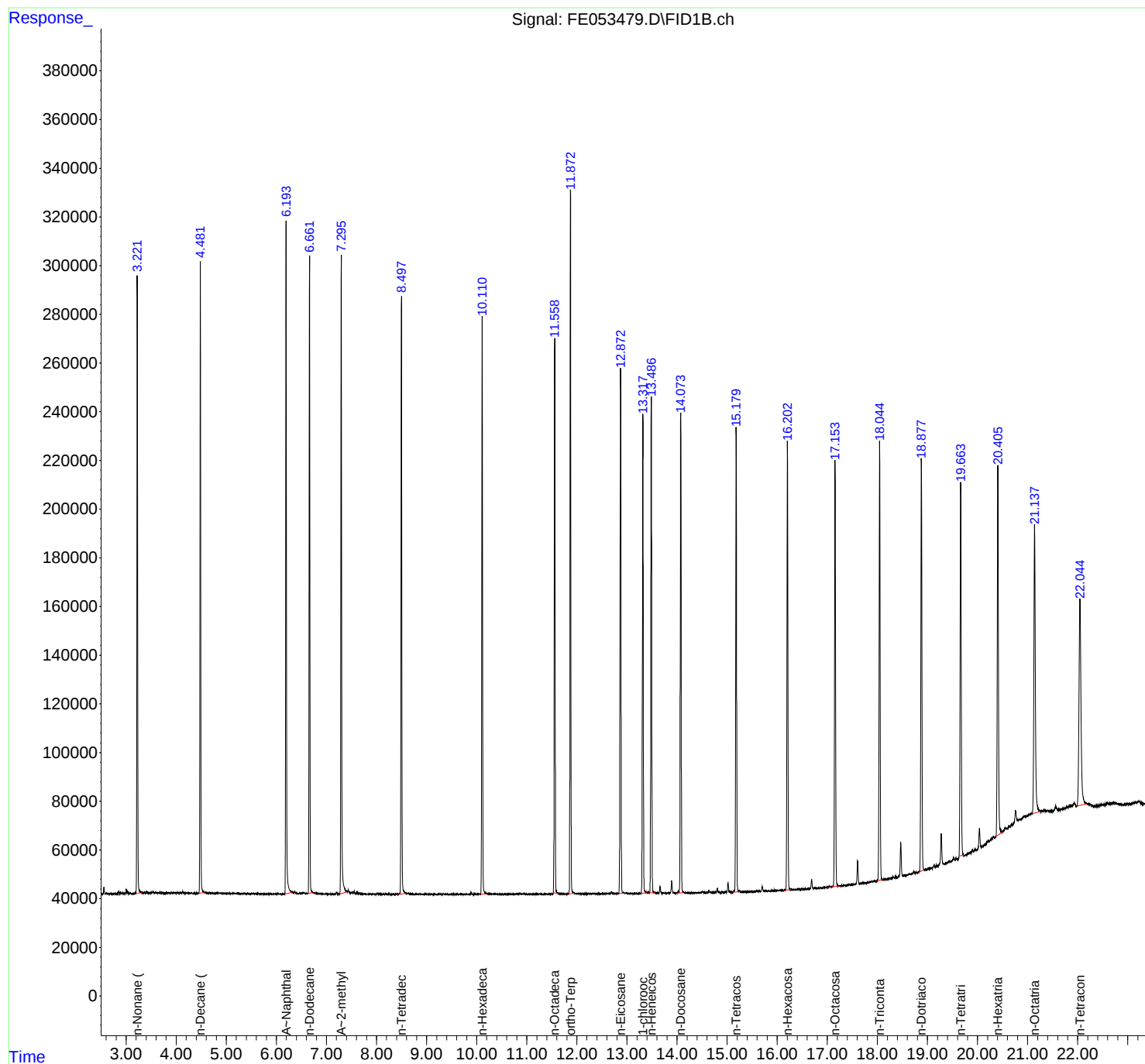
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/23/2025
Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e
Quant Time: Apr 23 02:55:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.
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



rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025
Supervised By :mohammad ahmed 04/24/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE04222
Data File : FE053479.D
Signal(s) : FID1B.ch
Acq On : 22 Apr 2025 21:47
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 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	3.221	3.191	3.311	BB	253468	2597762	81.31%	4.608%
2	4.482	4.451	4.564	BB	258888	2657309	83.17%	4.714%
3	6.193	6.161	6.321	BB	275068	2906529	90.98%	5.156%
4	6.661	6.624	6.734	BB	260316	2686407	84.09%	4.765%
5	7.295	7.261	7.418	BV	262025	2874193	89.96%	5.099%
6	8.497	8.438	8.591	BB	244854	2666550	83.46%	4.730%
7	10.111	10.068	10.198	BB	237871	2657277	83.17%	4.714%
8	11.558	11.531	11.628	BB	228017	2617141	81.92%	4.643%
9	11.873	11.828	11.951	BB	287255	3194859	100.00%	5.667%
10	12.872	12.834	12.944	BB	214691	2571636	80.49%	4.562%
11	13.317	13.278	13.394	BB	197222	2359330	73.85%	4.185%
12	13.486	13.448	13.558	BB	203465	2537176	79.41%	4.501%
13	14.073	13.991	14.141	BB	197979	2515797	78.75%	4.463%
14	15.179	15.111	15.258	BB	190042	2475374	77.48%	4.391%
15	16.203	16.141	16.278	BB	182032	2423694	75.86%	4.299%
16	17.154	17.008	17.231	BB	174629	2421508	75.79%	4.296%
17	18.044	18.001	18.114	BB	181449	2492405	78.01%	4.421%
18	18.878	18.851	18.948	BB	165739	2359291	73.85%	4.185%
19	19.663	19.631	19.734	BB	154444	2376562	74.39%	4.216%
20	20.405	20.371	20.494	BB	151030	2366937	74.09%	4.199%
21	21.138	21.101	21.271	BB	117429	2305990	72.18%	4.091%
22	22.045	21.978	22.188	PB	84951	2308847	72.27%	4.096%
Sum of corrected areas:						56372570		

Aliphatic EPH 041725.M Wed Apr 23 03:24:21 2025

Continuing Calibration Report for SequenceID : FE042225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE053489.D

Aliphatic C9-C12	7975060.000	60.000	3.123	6.764	132917.667	138562.354	4.074
Aliphatic C12-C16	5324738.000	40.000	6.765	10.214	133118.450	141806.081	6.126
Aliphatic C16-C21	7738634.000	60.000	10.215	13.590	128977.233	145363.765	11.273
Aliphatic C21-C28	9885570.000	80.000	13.591	17.259	123569.625	142174.626	13.086
Aliphatic C28-C40	14632618.000	120.000	17.260	22.156	121938.483	129049.185	5.510
Aliphatic EPH	45556620.000	360.000	3.123	22.156	126546.167	137688.007	8.092

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	23 Apr 2025 03:49
Client Sample ID:		Operator:	YP\AJ
Data file:	FE053489.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.123	6.764	7975060.000	60.000	ug/ml
Aliphatic C12-C16	6.765	10.214	5324738.000	40.000	ug/ml
Aliphatic C16-C21	10.215	13.590	7738634.000	60.000	ug/ml
Aliphatic C21-C28	13.591	17.259	9885570.000	80.000	ug/ml
Aliphatic C28-C40	17.260	22.156	14632618.000	120.000	ug/ml
Aliphatic EPH	3.123	22.156	45556620.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
 Data File : FE053489.D
 Signal(s) : FID1B.ch
 Acq On : 23 Apr 2025 03:49
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/23/2025
 Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e
 Quant Time: Apr 23 04:31:42 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)	11.872	3208622	17.790 ug/ml
Spiked Amount 50.000		Recovery =	35.58%
12) S 1-chlorooctadecane (S...	13.316	2375692	17.575 ug/ml
Spiked Amount 50.000		Recovery =	35.15%
Target Compounds			
1) T n-Nonane (C9)	3.220	2613621	19.063 ug/ml
2) T n-Decane (C10)	4.481	2666859	19.278 ug/ml
3) T A~Naphthalene (C11.7)	6.193	2905297	19.247 ug/ml
4) T n-Dodecane (C12)	6.661	2694580	19.213 ug/ml
5) T A~2-methylnaphthalene...	7.295	2874263	19.251 ug/ml
6) T n-Tetradecane (C14)	8.497	2663454	18.985 ug/ml
7) T n-Hexadecane (C16)	10.110	2661284	18.569 ug/ml
8) T n-Octadecane (C18)	11.557	2610971	17.916 ug/ml
10) T n-Eicosane (C20)	12.871	2578932	17.723 ug/ml
11) T n-Heneicosane (C21)	13.485	2548731	17.596 ug/ml
13) T n-Docosane (C22)	14.072	2517784	17.448 ug/ml
14) T n-Tetracosane (C24)	15.178	2486304	17.309 ug/ml
15) T n-Hexacosane (C26)	16.201	2443940	17.256 ug/ml
16) T n-Octacosane (C28)	17.152	2437542	17.520 ug/ml
17) T n-Tricontane (C30)	18.042	2514850	18.067 ug/ml
18) T n-Dotriacontane (C32)	18.875	2542965	18.520 ug/mlm
19) T n-Tetratriacontane (C34)	19.659	2419238	18.568 ug/mlm
20) T n-Hexatriacontane (C36)	20.401	2426900	19.224 ug/mlm
21) T n-Octatriacontane (C38)	21.136	2373820	19.485 ug/mlm
22) T n-Tetracontane (C40)	22.042	2354845	19.719 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE042225AL\
Data File : FE053489.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 03:49
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

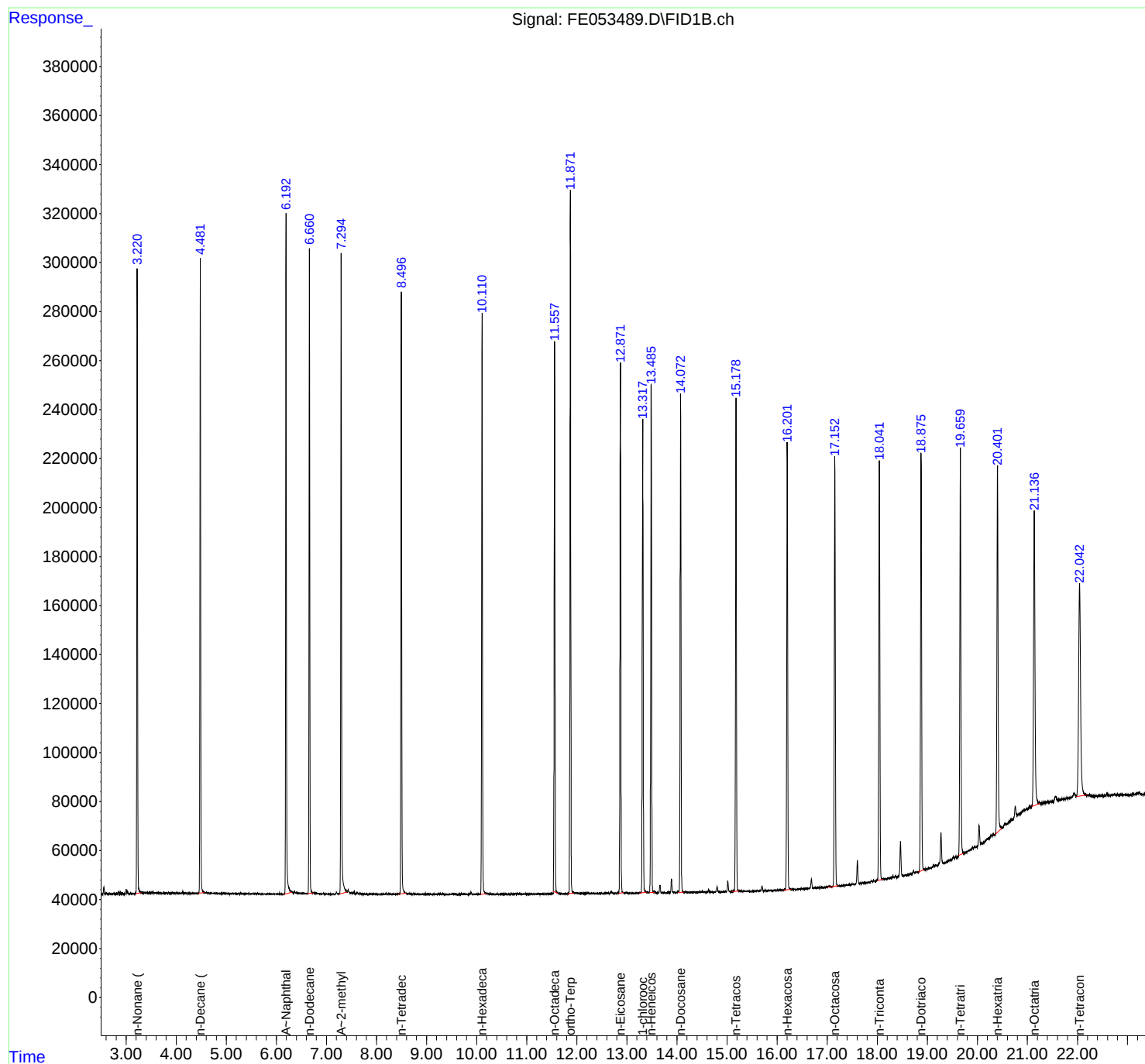
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/23/2025
Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e
Quant Time: Apr 23 04:31:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 041725.
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



rteres

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025
Supervised By :mohammad ahmed 04/24/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE04222
Data File : FE053489.D
Signal(s) : FID1B.ch
Acq On : 23 Apr 2025 03:49
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 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	3.220	3.191	3.304	BB	254744	2613621	81.46%	4.609%
2	4.481	4.448	4.558	BB	258881	2666859	83.12%	4.703%
3	6.193	6.151	6.314	BB	274272	2905297	90.55%	5.123%
4	6.661	6.621	6.741	BB	262143	2694580	83.98%	4.752%
5	7.295	7.258	7.414	BV	261918	2874263	89.58%	5.069%
6	8.497	8.438	8.591	BB	245286	2663454	83.01%	4.697%
7	10.110	10.071	10.191	BB	236220	2661284	82.94%	4.693%
8	11.557	11.531	11.624	BB	224717	2610971	81.37%	4.604%
9	11.872	11.818	11.948	BB	286082	3208622	100.00%	5.658%
10	12.871	12.831	12.934	BB	216239	2578932	80.38%	4.548%
11	13.316	13.251	13.394	BB	193687	2375692	74.04%	4.189%
12	13.485	13.448	13.551	BB	206660	2548731	79.43%	4.495%
13	14.072	14.037	14.141	VB	202770	2517784	78.47%	4.440%
14	15.178	15.098	15.244	BB	199861	2486304	77.49%	4.385%
15	16.201	16.118	16.274	BB	182849	2443940	76.17%	4.310%
16	17.152	17.008	17.218	BB	174875	2437542	75.97%	4.299%
17	18.042	18.001	18.114	BB	171654	2514850	78.38%	4.435%
18	18.875	18.825	18.945	M	170863	2556293	79.67%	4.508%
19	19.660	19.631	19.724	BB	163271	2362114	73.62%	4.166%
20	20.402	20.371	20.491	BB	148266	2354878	73.39%	4.153%
21	21.136	21.101	21.251	BB	118871	2275039	70.90%	4.012%
22	22.042	21.978	22.188	VB	86908	2354845	73.39%	4.153%
Sum of corrected areas:						56705892		

Aliphatic EPH 041725.M Wed Apr 23 04:35:25 2025

Continuing Calibration Report for SequenceID : FG042225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FG015733.D

Aliphatic C9-C12	6745431.000	60.000	3.145	6.786	112423.850	112740.457	0.281
Aliphatic C12-C16	4676946.000	40.000	6.787	10.235	116923.650	115442.820	-1.283
Aliphatic C16-C21	7192390.000	60.000	10.236	13.612	119873.167	118965.713	-0.763
Aliphatic C21-C28	9129977.000	80.000	13.613	17.283	114124.713	113091.503	-0.914
Aliphatic C28-C40	11998647.000	120.000	17.284	22.194	99988.725	98657.746	-1.349
Aliphatic EPH	39743391.000	360.000	3.145	22.194	110398.308	109462.035	-0.855

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	22 Apr 2025 12:08
Client Sample ID:		Operator:	YPAJ
Data file:	FG015733.D	Misc:	
Instrument:	FID_G	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.145	6.786	6745431.000	60.000	ug/ml
Aliphatic C12-C16	6.787	10.235	4676946.000	40.000	ug/ml
Aliphatic C16-C21	10.236	13.612	7192390.000	60.000	ug/ml
Aliphatic C21-C28	13.613	17.283	9129977.000	80.000	ug/ml
Aliphatic C28-C40	17.284	22.194	11998647.000	120.000	ug/ml
Aliphatic EPH	3.145	22.194	39743391.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
 Data File : FG015733.D
 Signal(s) : FID1A.ch
 Acq On : 22 Apr 2025 12:08
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Apr 23 02:41:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Thu Apr 17 12:40:13 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.899	2929142	20.205 ug/ml
Spiked Amount 50.000		Recovery =	40.41%
12) S 1-chlorooctadecane (S...	13.344	2120392	20.051 ug/ml
Spiked Amount 50.000		Recovery =	40.10%
Target Compounds			
1) T n-Nonane (C9)	3.245	2208934	19.767 ug/ml
2) T n-Decane (C10)	4.505	2236854	19.948 ug/ml
3) T A~Naphthalene (C11.7)	6.218	2317499	19.975 ug/ml
4) T n-Dodecane (C12)	6.686	2299643	20.113 ug/ml
5) T A~2-methylnaphthalene...	7.320	2220841	19.949 ug/ml
6) T n-Tetradecane (C14)	8.522	2308466	20.257 ug/ml
7) T n-Hexadecane (C16)	10.135	2368480	20.256 ug/ml
8) T n-Octadecane (C18)	11.584	2420825	20.238 ug/ml
10) T n-Eicosane (C20)	12.897	2396558	20.140 ug/ml
11) T n-Heneicosane (C21)	13.512	2375007	20.079 ug/ml
13) T n-Docosane (C22)	14.100	2351904	20.168 ug/ml
14) T n-Tetracosane (C24)	15.207	2304186	19.993 ug/ml
15) T n-Hexacosane (C26)	16.231	2250071	20.149 ug/ml
16) T n-Octacosane (C28)	17.183	2223816	20.434 ug/ml
17) T n-Tricontane (C30)	18.073	2284184	20.971 ug/ml
18) T n-Dotriacontane (C32)	18.905	2270474	21.104 ug/ml
19) T n-Tetratriacontane (C34)	19.692	2113574	20.743 ug/ml
20) T n-Hexatriacontane (C36)	20.433	1976060	20.201 ug/ml
21) T n-Octatriacontane (C38)	21.173	1785526	19.562 ug/ml
22) T n-Tetracontane (C40)	22.094	1568829	18.576 ug/ml

(f)=RT Delta > 1/2 Window

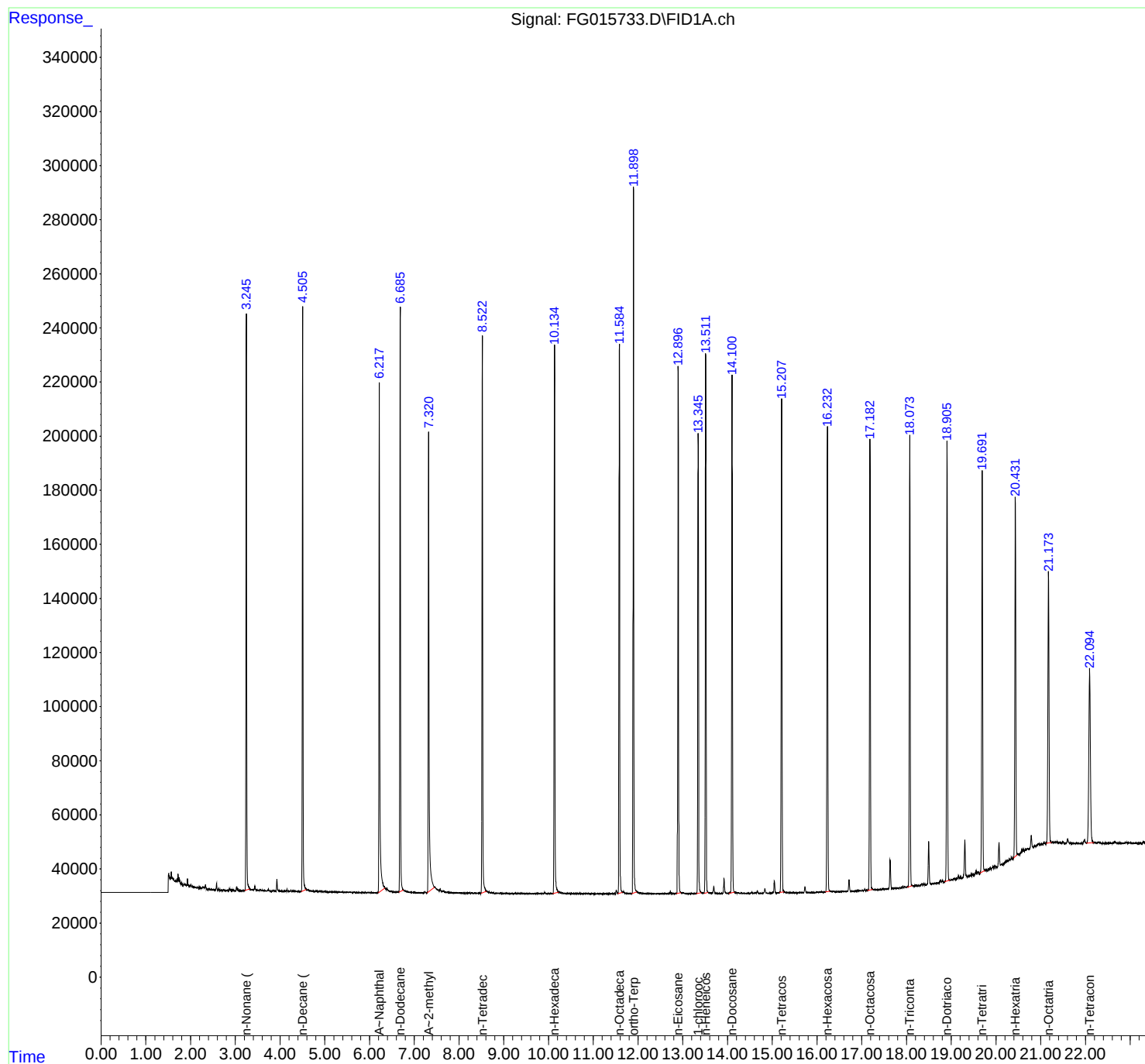
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
Data File : FG015733.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 12:08
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Apr 23 02:41:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 12:40:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
 Data File : FG015733.D
 Signal(s) : FID1A.ch
 Acq On : 22 Apr 2025 12:08
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.245	3.207	3.325	BB	213006	2208934	75.41%	4.478%
2	4.505	4.470	4.583	BB	216491	2236854	76.37%	4.534%
3	6.218	6.192	6.345	BB	188114	2317499	79.12%	4.698%
4	6.686	6.656	6.759	BB	216197	2299643	78.51%	4.662%
5	7.320	7.287	7.450	BB	170035	2220841	75.82%	4.502%
6	8.522	8.490	8.615	BB	206009	2308466	78.81%	4.680%
7	10.135	10.089	10.223	BB	201950	2368480	80.86%	4.801%
8	11.584	11.545	11.653	BB	202745	2420825	82.65%	4.907%
9	11.899	11.858	11.973	BB	261090	2929142	100.00%	5.938%
10	12.897	12.852	12.961	BB	191723	2396558	81.82%	4.858%
11	13.344	13.300	13.413	BB	169518	2120392	72.39%	4.298%
12	13.512	13.474	13.566	BB	199128	2375007	81.08%	4.814%
13	14.100	14.028	14.158	BB	191439	2351904	80.29%	4.768%
14	15.207	15.159	15.266	BB	180572	2304186	78.66%	4.671%
15	16.231	16.191	16.289	BB	171914	2250071	76.82%	4.561%
16	17.183	17.133	17.243	BB	166455	2223816	75.92%	4.508%
17	18.073	18.023	18.131	BB	165736	2284184	77.98%	4.630%
18	18.905	18.851	18.970	BB	162404	2270474	77.51%	4.603%
19	19.692	19.640	19.750	BB	148030	2113574	72.16%	4.284%
20	20.433	20.390	20.475	BB	131017	1976060	67.46%	4.006%
21	21.173	21.120	21.241	BB	100292	1785526	60.96%	3.619%
22	22.094	22.024	22.188	BB	64641	1568829	53.56%	3.180%
Sum of corrected areas:							49331265	

Aliphatic EPH 041725.M Wed Apr 23 02:55:33 2025

Continuing Calibration Report for SequenceID : FG042225AL

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

File ID : FG015745.D

Aliphatic C9-C12	6114796.000	60.000	3.145	6.786	101913.267	112740.457	9.604
Aliphatic C12-C16	4281915.000	40.000	6.787	10.235	107047.875	115442.820	7.272
Aliphatic C16-C21	6771038.000	60.000	10.236	13.612	112850.633	118965.713	5.140
Aliphatic C21-C28	8957528.000	80.000	13.613	17.283	111969.100	113091.503	0.992
Aliphatic C28-C40	12702469.000	120.000	17.284	22.194	105853.908	98657.746	-7.294
Aliphatic EPH	38827746.000	360.000	3.145	22.194	107854.850	109462.035	1.468

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	22 Apr 2025 19:41
Client Sample ID:		Operator:	YP\AJ
Data file:	FG015745.D	Misc:	
Instrument:	FID_G	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.145	6.786	6114796.000	60.000	ug/ml
Aliphatic C12-C16	6.787	10.235	4281915.000	40.000	ug/ml
Aliphatic C16-C21	10.236	13.612	6771038.000	60.000	ug/ml
Aliphatic C21-C28	13.613	17.283	8957528.000	80.000	ug/ml
Aliphatic C28-C40	17.284	22.194	12702469.000	120.000	ug/ml
Aliphatic EPH	3.145	22.194	38827746.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
 Data File : FG015745.D
 Signal(s) : FID1A.ch
 Acq On : 22 Apr 2025 19:41
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_G
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Apr 23 02:45:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
 Quant Title : GC Extractables
 QLast Update : Thu Apr 17 12:40:13 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.899	2753682	18.994 ug/ml
Spiked Amount 50.000		Recovery =	37.99%
12) S 1-chlorooctadecane (S...	13.343	2096181	19.822 ug/ml
Spiked Amount 50.000		Recovery =	39.64%
Target Compounds			
1) T n-Nonane (C9)	3.242	1995857	17.860 ug/ml
2) T n-Decane (C10)	4.504	2028022	18.086 ug/ml
3) T A~Naphthalene (C11.7)	6.218	2140367	18.448 ug/ml
4) T n-Dodecane (C12)	6.685	2090917	18.287 ug/ml
5) T A~2-methylnaphthalene...	7.320	2100859	18.871 ug/ml
6) T n-Tetradecane (C14)	8.522	2101898	18.445 ug/ml
7) T n-Hexadecane (C16)	10.136	2180017	18.644 ug/ml
8) T n-Octadecane (C18)	11.584	2244918	18.767 ug/ml
10) T n-Eicosane (C20)	12.898	2262653	19.015 ug/ml
11) T n-Heneicosane (C21)	13.512	2263467	19.136 ug/ml
13) T n-Docosane (C22)	14.101	2253602	19.325 ug/ml
14) T n-Tetracosane (C24)	15.207	2259958	19.610 ug/ml
15) T n-Hexacosane (C26)	16.230	2226491	19.938 ug/ml
16) T n-Octacosane (C28)	17.183	2217477	20.375 ug/ml
17) T n-Tricontane (C30)	18.073	2300505	21.121 ug/ml
18) T n-Dotriacontane (C32)	18.908	2295778	21.340 ug/ml
19) T n-Tetratriacontane (C34)	19.693	2142063	21.023 ug/ml
20) T n-Hexatriacontane (C36)	20.434	2044019	20.896 ug/ml
21) T n-Octatriacontane (C38)	21.174	1983610	21.732 ug/ml
22) T n-Tetracontane (C40)	22.095	1936494	22.930 ug/ml

(f)=RT Delta > 1/2 Window

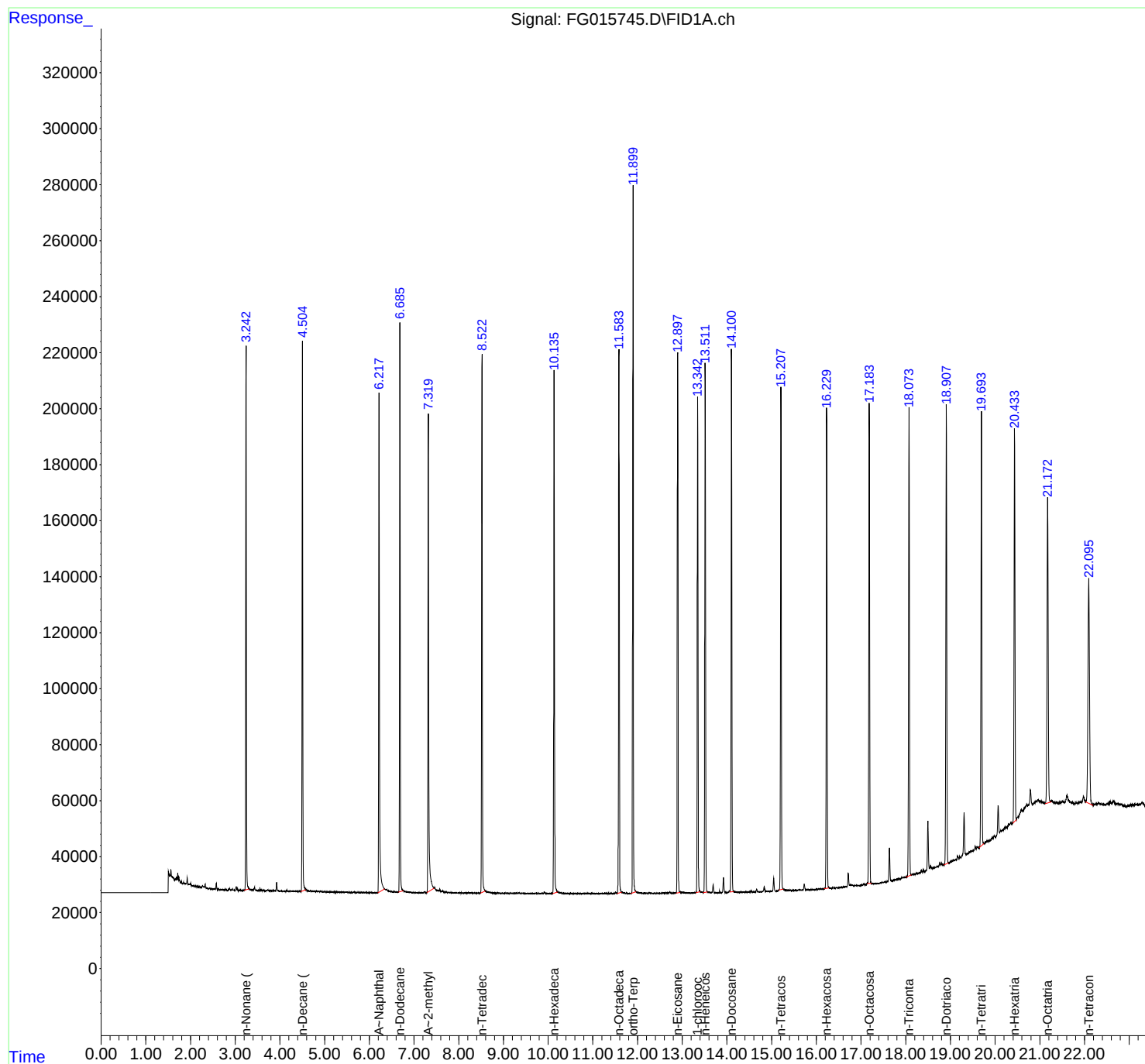
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
Data File : FG015745.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 19:41
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Apr 23 02:45:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 12:40:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
 Data File : FG015745.D
 Signal(s) : FID1A.ch
 Acq On : 22 Apr 2025 19:41
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.242	3.200	3.313	BB	193916	1995857	72.48%	4.165%
2	4.504	4.464	4.579	BB	196234	2028022	73.65%	4.232%
3	6.218	6.189	6.338	BB	178053	2140367	77.73%	4.467%
4	6.685	6.652	6.758	BB	203113	2090917	75.93%	4.363%
5	7.320	7.289	7.449	BB	170457	2100859	76.29%	4.384%
6	8.522	8.488	8.595	BB	191572	2101898	76.33%	4.386%
7	10.136	10.102	10.213	BB	186463	2180017	79.17%	4.549%
8	11.584	11.551	11.644	BB	193679	2244918	81.52%	4.685%
9	11.899	11.858	11.968	BB	252401	2753682	100.00%	5.747%
10	12.898	12.863	12.955	BB	192422	2262653	82.17%	4.722%
11	13.343	13.307	13.402	BB	174460	2096181	76.12%	4.374%
12	13.512	13.473	13.566	BB	188481	2263467	82.20%	4.724%
13	14.101	14.069	14.154	BB	193719	2253602	81.84%	4.703%
14	15.207	15.161	15.263	BB	179708	2259958	82.07%	4.716%
15	16.230	16.179	16.285	BB	170117	2226491	80.86%	4.646%
16	17.183	17.137	17.234	BB	171414	2217477	80.53%	4.628%
17	18.073	18.015	18.128	BB	166933	2300505	83.54%	4.801%
18	18.908	18.851	18.959	BB	163899	2295778	83.37%	4.791%
19	19.693	19.640	19.748	BB	154925	2142063	77.79%	4.470%
20	20.434	20.390	20.473	BV	139446	2044019	74.23%	4.266%
21	21.174	21.120	21.251	BB	108473	1983610	72.03%	4.140%
22	22.095	22.017	22.195	BB	80350	1936494	70.32%	4.041%
Sum of corrected areas:							47918833	

Aliphatic EPH 041725.M Wed Apr 23 02:57:44 2025



QC SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Stockton	Date Received:	
Client Sample ID:	PB167690BL	SDG No.:	Q1851
Lab Sample ID:	PB167690BL	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
04/22/25 09:40	04/22/25 13:48	PB167690

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	FG015734.D
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	3.99	mg/kg	FG015734.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	5.99	mg/kg	
Total EPH	Total EPH	2.09	U		2.09	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Stockton	Date Received:	
Client Sample ID:	PB167690BL	SDG No.:	Q1851
Lab Sample ID:	PB167690BL	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
FG015734.D	1	04/22/25	04/22/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.1		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.9		40 - 140	78%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167690BL	Acq On:	22 Apr 2025 13:48
Client Sample ID:	PB167690BL	Operator:	YP\AJ
Data file:	FG015734.D	Misc:	
Instrument:	FID_G	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.145	6.786	0	0	300	ug/ml
Aliphatic C12-C16	6.787	10.235	0	0	200	ug/ml
Aliphatic C16-C21	10.236	13.612	0	0	300	ug/ml
Aliphatic C21-C28	13.613	17.283	0	0	400	ug/ml
Aliphatic C28-C40	17.284	22.194	0	0	600	ug/ml
Aliphatic EPH	3.145	22.194	0	0		ug/ml
ortho-Terphenyl (SURR)	11.900	11.900	5635503	38.87		ug/ml
1-chlorooctadecane (SURR)	13.346	13.346	4130716	39.06		ug/ml
Aliphatic C9-C28	3.145	17.283	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
Data File : FG015734.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 13:48
Operator : YP\AJ
Sample : PB167690BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167690BL

Integration File: autoint1.e
Quant Time: Apr 23 02:41:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 12:40:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.900	5635503	38.872 ug/ml
Spiked Amount	50.000	Recovery	= 77.74%
12) S 1-chlorooctadecane (S...	13.346	4130716	39.061 ug/ml
Spiked Amount	50.000	Recovery	= 78.12%

Target Compounds

(f)=RT Delta > 1/2 Window

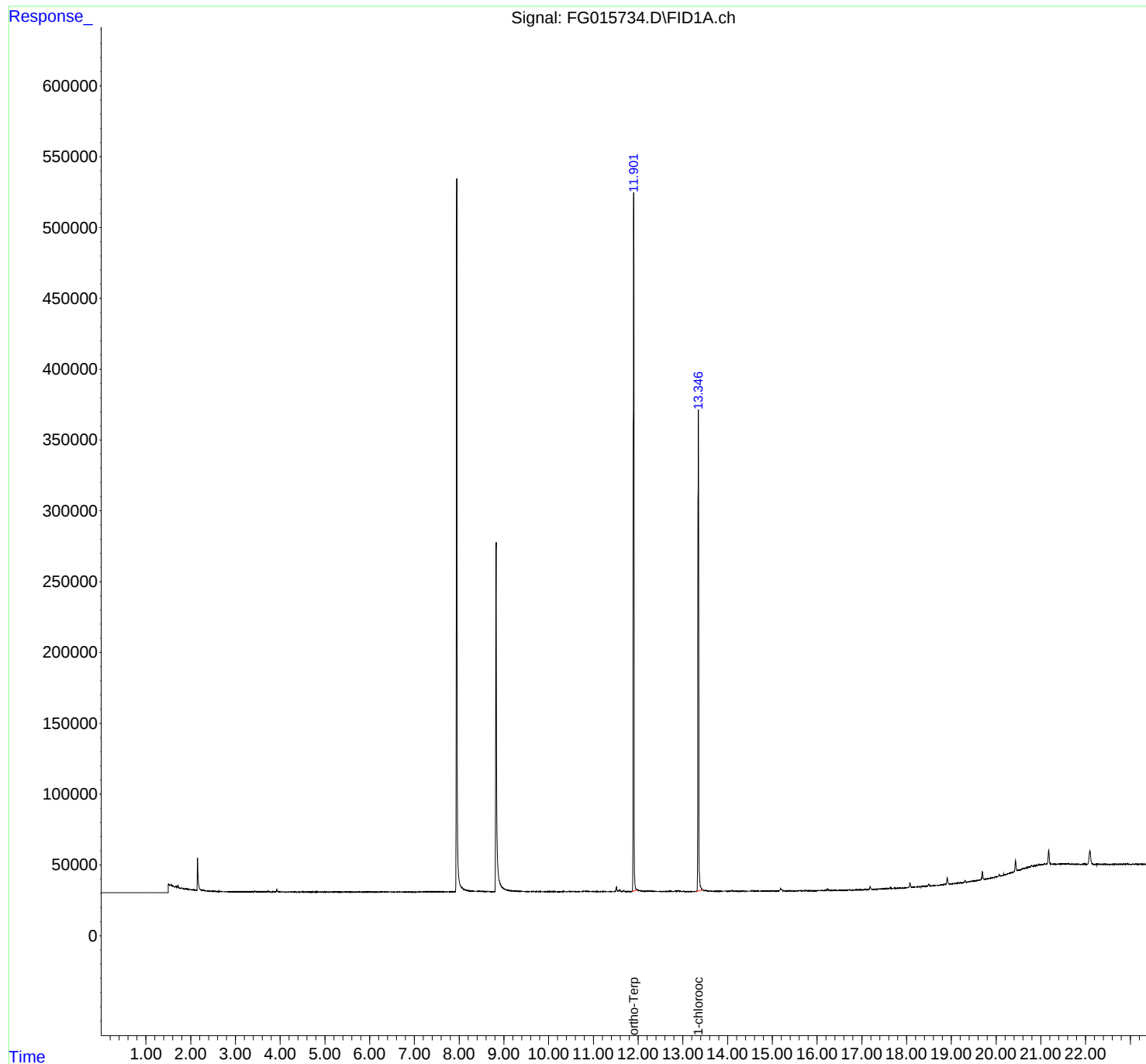
(m)=manual int.

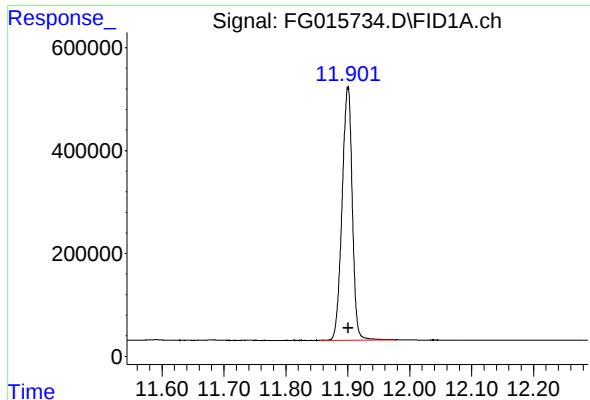
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
Data File : FG015734.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 13:48
Operator : YP\AJ
Sample : PB167690BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB167690BL

Integration File: autoint1.e
Quant Time: Apr 23 02:41:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 12:40:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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

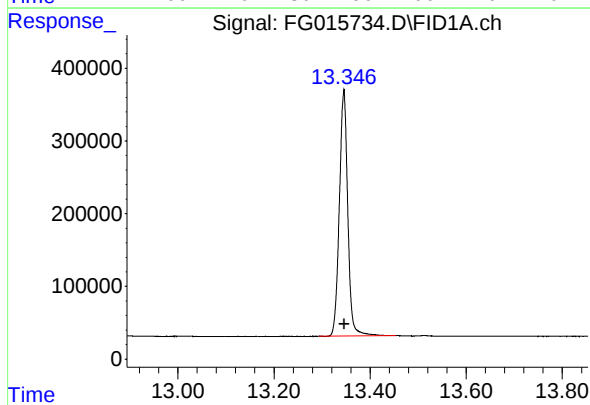




#9 ortho-Terphenyl (SURR)

R.T.: 11.900 min
Delta R.T.: 0.000 min
Response: 5635503
Conc: 38.87 ug/ml

Instrument :
FID_G
ClientSampleId :
PB167690BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.346 min
Delta R.T.: -0.001 min
Response: 4130716
Conc: 39.06 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
Data File : FG015734.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 13:48
Sample : PB167690BL
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	11.900	11.854	11.978	BB	490168	5635503	100.00%	57.704%
2	13.346	13.294	13.454	BB	337285	4130716	73.30%	42.296%
Sum of corrected areas:							9766219	

Aliphatic EPH 041725.M Wed Apr 23 02:55:50 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Stockton	Date Received:	
Client Sample ID:	PB167690BS	SDG No.:	Q1851
Lab Sample ID:	PB167690BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/22/25 09:40	04/22/25 14:18	PB167690

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	23.6		1	1.18	2.00	mg/kg	FG015735.D
Aliphatic C9-C28	Aliphatic C9-C28	76.0		1	0.91	3.99	mg/kg	FG015735.D
Total AliphaticEPH	Total AliphaticEPH	99.6			2.09	5.99	mg/kg	
Total EPH	Total EPH	99.6			2.09	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Stockton	Date Received:	
Client Sample ID:	PB167690BS	SDG No.:	Q1851
Lab Sample ID:	PB167690BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015735.D	1	04/22/25	04/22/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	76.0		0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	23.6		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.2		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.0		40 - 140	82%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167690BS	Acq On:	22 Apr 2025 14:18
Client Sample ID:	PB167690BS	Operator:	YP\AJ
Data file:	FG015735.D	Misc:	
Instrument:	FID_G	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.145	6.786	24037783	213.213	300	ug/ml
Aliphatic C12-C16	6.787	10.235	30695264	265.891	200	ug/ml
Aliphatic C16-C21	10.236	13.612	35120683	295.217	300	ug/ml
Aliphatic C21-C28	13.613	17.283	41417449	366.23	400	ug/ml
Aliphatic C28-C40	17.284	22.194	35033263	355.099	600	ug/ml
Aliphatic EPH	3.145	22.194	166304442	1500		ug/ml
ortho-Terphenyl (SURR)	11.901	11.901	5947336	41.02		ug/ml
1-chlorooctadecane (SURR)	13.344	13.344	4670863	44.17		ug/ml
Aliphatic C9-C28	3.145	17.283	131271179	1140	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
 Data File : FG015735.D
 Signal(s) : FID1A.ch
 Acq On : 22 Apr 2025 14:18
 Operator : YP\AJ
 Sample : PB167690BS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :

FID_G

ClientSampleId :

PB167690BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e

Quant Time: Apr 23 02:42:08 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M

Quant Title : GC Extractables

QLast Update : Thu Apr 17 12:40:13 2025

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.901	5947336	41.023 ug/ml
Spiked Amount 50.000		Recovery =	82.05%
12) S 1-chlorooctadecane (S...	13.344	4670863	44.169 ug/ml
Spiked Amount 50.000		Recovery =	88.34%
Target Compounds			
1) T n-Nonane (C9)	3.253	4384772	39.237 ug/ml
2) T n-Decane (C10)	4.509	4572683	40.778 ug/ml
3) T A~Naphthalene (C11.7)	6.218	5215413	44.953 ug/ml
4) T n-Dodecane (C12)	6.686	4799134	41.974 ug/ml
5) T A~2-methylnaphthalene...	7.319	4779810	42.935 ug/ml
6) T n-Tetradecane (C14)	8.523	4957541	43.504 ug/ml
7) T n-Hexadecane (C16)	10.136	4987500	42.654 ug/ml
8) T n-Octadecane (C18)	11.584	5050828	42.224 ug/ml
10) T n-Eicosane (C20)	12.898	5242678	44.058 ug/ml
11) T n-Heneicosane (C21)	13.512	5020601	42.446 ug/ml
13) T n-Docosane (C22)	14.100	4990954	42.798 ug/ml
14) T n-Tetracosane (C24)	15.206	9456441	82.053 ug/mlm
15) T n-Hexacosane (C26)	16.233	4816385	43.130 ug/ml
16) T n-Octacosane (C28)	17.184	4871281	44.760 ug/ml
17) T n-Tricontane (C30)	18.074	4606107	42.288 ug/ml
18) T n-Dotriacontane (C32)	18.907	4480997	41.652 ug/ml
19) T n-Tetratriacontane (C34)	19.693	4255446	41.765 ug/ml
20) T n-Hexatriacontane (C36)	20.433	3946799	40.347 ug/ml
21) T n-Octatriacontane (C38)	21.173	3662198	40.122 ug/ml
22) T n-Tetracontane (C40)	22.094	3228198	38.225 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
Data File : FG015735.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 14:18
Operator : YP\AJ
Sample : PB167690BS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :

FID_G

Client SampleId :

PB167690BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e

Quant Time: Apr 23 02:42:08 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M

Quant Title : GC Extractables

QLast Update : Thu Apr 17 12:40:13 2025

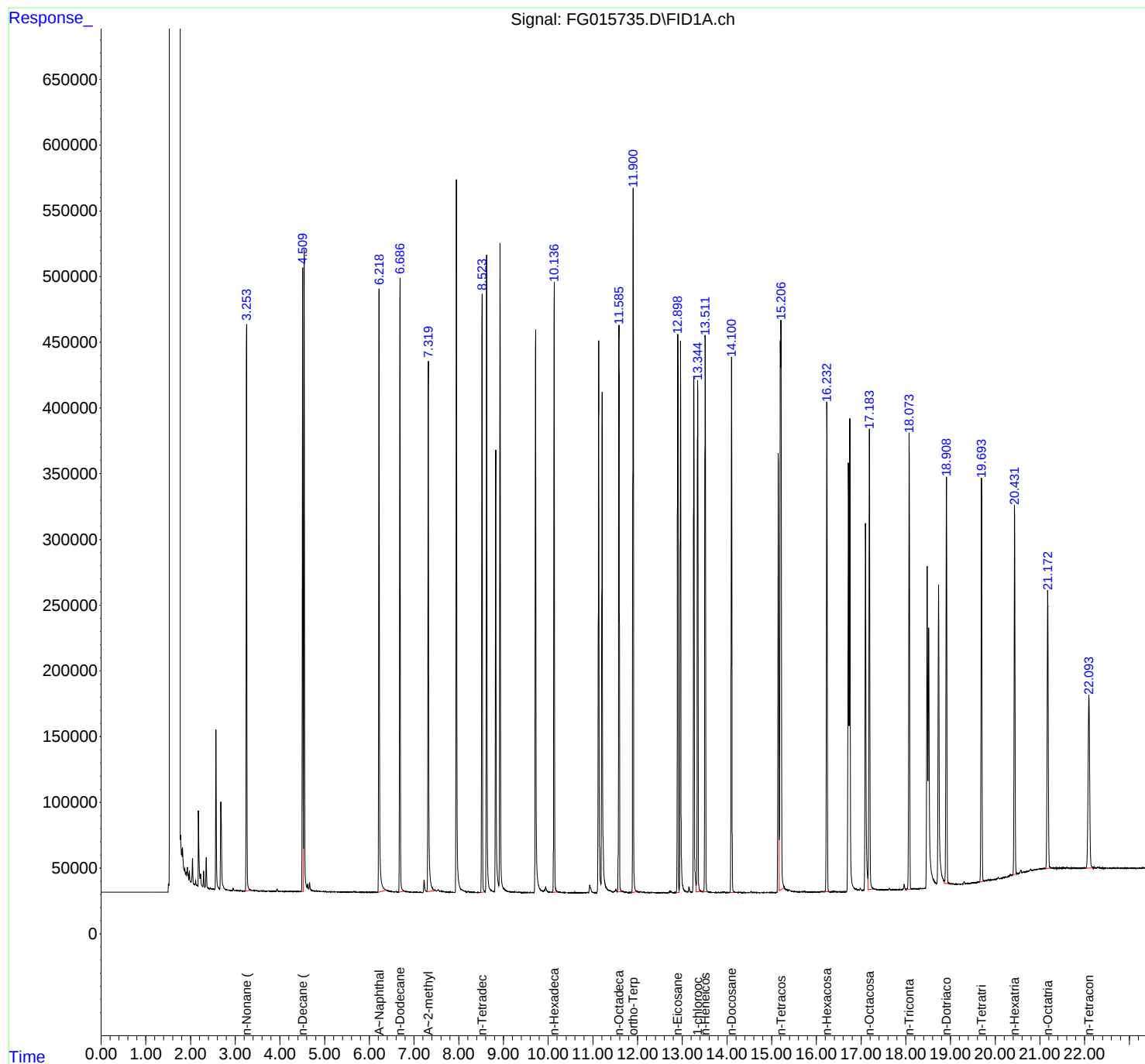
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um



Instrument :

FID_G

ClientSampleId :

PB167690BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04222

Data File : FG015735.D

Signal(s) : FID1A.ch

Acq On : 22 Apr 2025 14:18

Sample : PB167690BS

Misc :

ALS Vial : 22 Sample Multiplier: 1

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.253	3.213	3.344	BB	429953	4384772	73.73%	2.478%
2	4.509	4.477	4.525	BV	474592	4572683	76.89%	2.585%
3	4.542	4.525	4.603	VV	487531	5065781	85.18%	2.863%
4	6.218	6.190	6.373	BB	458346	5215413	87.69%	2.948%
5	6.686	6.653	6.776	BB	466129	4799134	80.69%	2.713%
6	7.319	7.280	7.483	BB	403355	4779810	80.37%	2.702%
7	8.523	8.488	8.595	BB	453734	4957541	83.36%	2.802%
8	8.625	8.598	8.746	BB	482634	5284739	88.86%	2.987%
9	8.926	8.898	9.052	VB	492399	5446972	91.59%	3.079%
10	9.720	9.684	9.857	BB	426631	5238702	88.08%	2.961%
11	10.136	10.098	10.213	BB	464174	4987500	83.86%	2.819%
12	11.131	11.075	11.181	BV	418333	4968163	83.54%	2.808%
13	11.207	11.181	11.366	VB	378514	4982124	83.77%	2.816%
14	11.584	11.548	11.657	BB	428884	5050828	84.93%	2.855%
15	11.901	11.858	11.991	BB	534853	5947336	100.00%	3.362%
16	12.898	12.858	12.929	BV	422841	5242678	88.15%	2.963%
17	12.960	12.929	13.083	VB	418727	5006503	84.18%	2.830%
18	13.258	13.223	13.308	BV	392446	4849786	81.55%	2.741%
19	13.344	13.308	13.428	VB	387703	4670863	78.54%	2.640%
20	13.512	13.461	13.578	BB	422939	5020601	84.42%	2.838%
21	14.100	14.062	14.164	BB	406362	4990954	83.92%	2.821%
22	15.147	15.113	15.167	BV	324809	4125215	69.36%	2.332%
23	15.193	15.167	15.198	VV	415256	4525450	76.09%	2.558%
24	15.206	15.198	15.330	VB	434138	5073687	85.31%	2.868%
25	16.233	16.179	16.289	BB	370852	4816385	80.98%	2.722%
26	16.716	16.665	16.730	BV	325164	4320432	72.64%	2.442%
27	16.747	16.730	16.871	VB	358500	4696616	78.97%	2.655%
28	17.097	17.047	17.150	BV	276881	3997429	67.21%	2.259%
29	17.184	17.150	17.284	VB	347445	4871281	81.91%	2.753%
30	18.074	18.012	18.130	BB	342209	4606107	77.45%	2.603%
31	18.477	18.427	18.493	BV	244363	3222488	54.18%	1.821%
32	18.510	18.493	18.683	VB	196410	3662153	61.58%	2.070%
33	18.733	18.690	18.860	BV	226878	3968877	66.73%	2.243%
34	18.907	18.860	18.975	VB	304040	4480997	75.34%	2.533%
35	19.693	19.640	19.753	BB	306412	4255446	71.55%	2.405%
36	20.433	20.390	20.498	BB	278879	3946799	66.36%	2.231%

FID_G

ClientSampleId :

PB167690BS

	Area	% area	Count	Area	% area	Count	Area	% area	Count
37	21.173	21.120	21.244	BB	211116	3662198	61.58%	2.070%	
38	22.094	22.019	22.198	BB	130436	3228198	54.00%	1.930%	
Sum of corrected areas:							1769		

Manual IntegrationsAPPROVED

Aliphatic EPH 041725.M Wed Apr 23 02:56:18 2025

Reviewed By :Yogesh Patel 04/23/2025
Supervised By :mohammad ahmed 04/24/2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Stockton	Date Received:	
Client Sample ID:	PB167690BSD	SDG No.:	Q1851
Lab Sample ID:	PB167690BSD	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
04/22/25 09:40	04/22/25 14:47	PB167690

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	22.7		1	1.18	2.00	mg/kg FG015736.D
Aliphatic C9-C28	Aliphatic C9-C28	67.6		1	0.91	3.99	mg/kg FG015736.D
Total AliphaticEPH	Total AliphaticEPH	90.3			2.09	5.99	mg/kg
Total EPH	Total EPH	90.3			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:	Stockton	Date Received:	
Client Sample ID:	PB167690BSD	SDG No.:	Q1851
Lab Sample ID:	PB167690BSD	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
FG015736.D	1	04/22/25	04/22/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	67.6		0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.7		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)	36.1		40 - 140	72%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167690BSD	Acq On:	22 Apr 2025 14:47
Client Sample ID:	PB167690BSD	Operator:	YP\AJ
Data file:	FG015736.D	Misc:	
Instrument:	FID_G	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.145	6.786	20874500	185.155	300	ug/ml
Aliphatic C12-C16	6.787	10.235	26824799	232.364	200	ug/ml
Aliphatic C16-C21	10.236	13.612	31173162	262.035	300	ug/ml
Aliphatic C21-C28	13.613	17.283	37863703	334.806	400	ug/ml
Aliphatic C28-C40	17.284	22.194	33561027	340.176	600	ug/ml
Aliphatic EPH	3.145	22.194	150297191	1350		ug/ml
ortho-Terphenyl (SURR)	11.899	11.899	5230164	36.08		ug/ml
1-chlorooctadecane (SURR)	13.344	13.344	4125892	39.02		ug/ml
Aliphatic C9-C28	3.145	17.283	116736164	1010	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
 Data File : FG015736.D
 Signal(s) : FID1A.ch
 Acq On : 22 Apr 2025 14:47
 Operator : YP\AJ
 Sample : PB167690BSD
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :

FID_G

ClientSampleId :

PB167690BSD

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e

Quant Time: Apr 23 02:42:32 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M

Quant Title : GC Extractables

QLast Update : Thu Apr 17 12:40:13 2025

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.899	5230164	36.076 ug/ml
Spiked Amount 50.000		Recovery =	72.15%
12) S 1-chlorooctadecane (S...	13.344	4125892	39.016 ug/ml
Spiked Amount 50.000		Recovery =	78.03%
Target Compounds			
1) T n-Nonane (C9)	3.249	3803170	34.033 ug/ml
2) T n-Decane (C10)	4.507	3958481	35.301 ug/ml
3) T A~Naphthalene (C11.7)	6.218	4534803	39.086 ug/ml
4) T n-Dodecane (C12)	6.686	4162418	36.405 ug/ml
5) T A~2-methylnaphthalene...	7.319	4138117	37.171 ug/ml
6) T n-Tetradecane (C14)	8.523	4310940	37.830 ug/ml
7) T n-Hexadecane (C16)	10.136	4352115	37.220 ug/ml
8) T n-Octadecane (C18)	11.584	4423303	36.978 ug/ml
10) T n-Eicosane (C20)	12.899	4610527	38.745 ug/ml
11) T n-Heneicosane (C21)	13.512	4422093	37.386 ug/ml
13) T n-Docosane (C22)	14.101	4405019	37.774 ug/ml
14) T n-Tetracosane (C24)	15.205	8744718	75.878 ug/mlm
15) T n-Hexacosane (C26)	16.232	4295013	38.461 ug/ml
16) T n-Octacosane (C28)	17.184	4377689	40.225 ug/ml
17) T n-Tricontane (C30)	18.073	4156591	38.161 ug/ml
18) T n-Dotriacontane (C32)	18.908	4054743	37.689 ug/ml
19) T n-Tetratriacontane (C34)	19.693	3891149	38.189 ug/ml
20) T n-Hexatriacontane (C36)	20.434	3657836	37.393 ug/ml
21) T n-Octatriacontane (C38)	21.174	3464692	37.958 ug/ml
22) T n-Tetracontane (C40)	22.096	3148209	37.278 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
Data File : FG015736.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 14:47
Operator : YP\AJ
Sample : PB167690BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :

FID_G

Client SampleId :

PB167690BSD

Manual Integrations

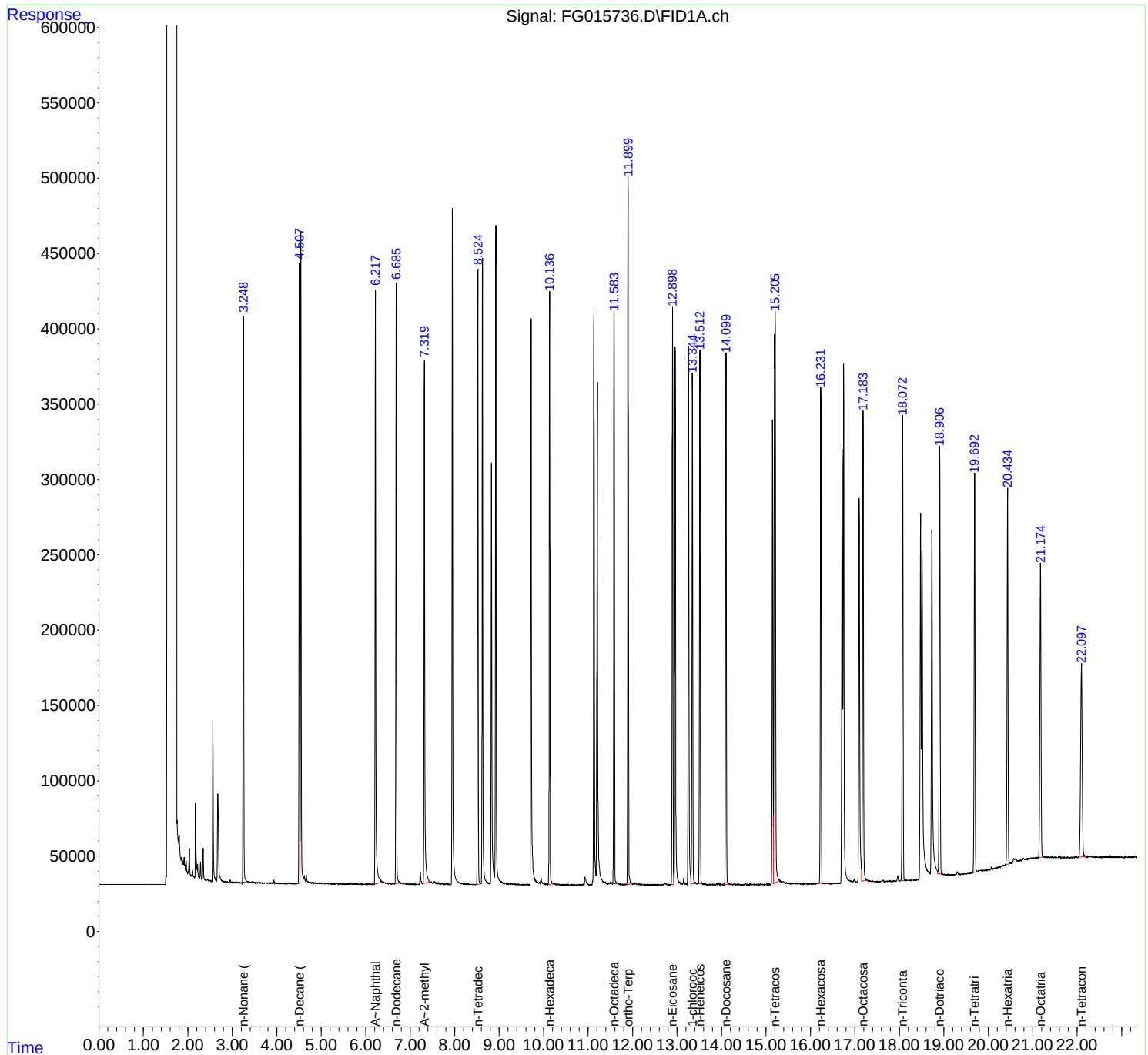
APPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e
Quant Time: Apr 23 02:42:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M
Quant Title : GC Extractables
QLast Update : Thu Apr 17 12:40:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_G

ClientSampleId :

PB167690BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04222
Data File : FG015736.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 14:47
Sample : PB167690BSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.249	3.207	3.337	BB	375731	3803170	72.72%	2.382%
2	4.507	4.467	4.524	BV	411434	3958481	75.69%	2.479%
3	4.541	4.524	4.603	VV	431809	4415628	84.43%	2.766%
4	6.218	6.181	6.370	BB	394073	4534803	86.70%	2.840%
5	6.686	6.649	6.773	BB	398514	4162418	79.58%	2.607%
6	7.319	7.281	7.453	BB	346700	4138117	79.12%	2.592%
7	8.523	8.491	8.595	BB	408655	4310940	82.42%	2.700%
8	8.625	8.597	8.746	BB	415667	4629872	88.52%	2.900%
9	8.927	8.898	9.051	VB	436026	4775511	91.31%	2.991%
10	9.719	9.683	9.870	BB	372698	4618244	88.30%	2.893%
11	10.136	10.098	10.218	BB	393146	4352115	83.21%	2.726%
12	11.131	11.084	11.180	BV	378948	4407628	84.27%	2.761%
13	11.207	11.180	11.370	VB	332591	4484843	85.75%	2.809%
14	11.584	11.545	11.661	BB	378665	4423303	84.57%	2.771%
15	11.899	11.863	11.988	BB	468721	5230164	100.00%	3.276%
16	12.899	12.859	12.929	BV	383526	4610527	88.15%	2.888%
17	12.959	12.929	13.083	VB	355165	4486428	85.78%	2.810%
18	13.258	13.224	13.309	BV	356383	4338340	82.95%	2.717%
19	13.344	13.309	13.426	VB	338852	4125892	78.89%	2.584%
20	13.512	13.466	13.574	BB	353670	4422093	84.55%	2.770%
21	14.101	14.059	14.163	BB	352096	4405019	84.22%	2.759%
22	15.147	15.107	15.167	BV	307814	3805295	72.76%	2.383%
23	15.191	15.167	15.198	VV	364316	4079766	78.00%	2.555%
24	15.206	15.198	15.330	VB	377084	4646904	88.85%	2.911%
25	16.232	16.183	16.288	BB	325272	4295013	82.12%	2.690%
26	16.714	16.662	16.729	BV	287093	3984196	76.18%	2.496%
27	16.747	16.729	16.868	VB	343281	4445394	85.00%	2.784%
28	17.096	17.046	17.150	BV	254960	3824427	73.12%	2.395%
29	17.184	17.150	17.280	VB	310866	4377689	83.70%	2.742%
30	18.073	18.013	18.128	BB	306603	4156591	79.47%	2.604%
31	18.477	18.425	18.493	BV	242843	3325069	63.57%	2.083%
32	18.511	18.493	18.686	VB	215215	3941597	75.36%	2.469%
33	18.732	18.687	18.862	BV	226707	3921141	74.97%	2.456%
34	18.908	18.862	18.968	VB	283264	4054743	77.53%	2.540%
35	19.693	19.640	19.754	BB	262791	3891149	74.40%	2.437%
36	20.434	20.390	20.491	BB	249713	3657836	69.94%	2.291%

	Area	Height	Area%	Height%	Integration	Integration
37	21.174	21.120	21.244	BB	195320	3464692
38	22.096	22.019	22.196	BB	128241	3148209
Sum of corrected areas:					1596	66.24%
						2.170%

Aliphatic EPH 041725.M Wed Apr 23 02:57:00 2025

Instrument :
FID_G
ClientSampleId :
PB167690BSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025
Supervised By :mohammad ahmed 04/24/2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Stockton	Date Received:	
Client Sample ID:	ETGI-275MS	SDG No.:	Q1851
Lab Sample ID:	Q1848-03MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.9
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
04/22/25 09:40	04/22/25 16:15	PB167690

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	98.4	E	1	1.37	2.33	mg/kg	FG015739.D
Aliphatic C9-C28	Aliphatic C9-C28	131	E	1	1.06	4.65	mg/kg	FG015739.D
Total AliphaticEPH	Total AliphaticEPH	230			2.43	6.98	mg/kg	
Total EPH	Total EPH	230			2.43	6.98	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:	Stockton	Date Received:	
Client Sample ID:	ETGI-275MS	SDG No.:	Q1851
Lab Sample ID:	Q1848-03MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.9
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
FG015739.D	1	04/22/25	04/22/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	131	E	1.06	4.65	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	98.4	E	1.37	2.33	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.0		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.3		40 - 140	47%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1848-03MS	Acq On:	22 Apr 2025 16:15
Client Sample ID:	ETGI-275MS	Operator:	YP\AJ
Data file:	FG015739.D	Misc:	
Instrument:	FID_G	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.145	6.786	15586324	138.25	300	ug/ml
Aliphatic C12-C16	6.787	10.235	23704538	205.336	200	ug/ml
Aliphatic C16-C21	10.236	13.612	53703328	451.419	300	ug/ml
Aliphatic C21-C28	13.613	17.283	101703750	899.305	400	ug/ml
Aliphatic C28-C40	17.284	22.194	125180156	1270	600	ug/ml
Aliphatic EPH	3.145	22.194	319878096	2960		ug/ml
ortho-Terphenyl (SURR)	11.900	11.900	3382078	23.33		ug/ml
1-chlorooctadecane (SURR)	13.346	13.346	3382551	31.99		ug/ml
Aliphatic C9-C28	3.145	17.283	194697940	1690	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
 Data File : FG015739.D
 Signal(s) : FID1A.ch
 Acq On : 22 Apr 2025 16:15
 Operator : YP\AJ
 Sample : Q1848-03MS
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :

FID_G

ClientSampleId :

ETGI-275MS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e

Quant Time: Apr 23 02:43:39 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M

Quant Title : GC Extractables

QLast Update : Thu Apr 17 12:40:13 2025

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.900	3382078	23.329 ug/ml
Spiked Amount 50.000		Recovery =	46.66%
12) S 1-chlorooctadecane (S...	13.346	3382551	31.986 ug/ml
Spiked Amount 50.000		Recovery =	63.97%
Target Compounds			
1) T n-Nonane (C9)	3.243	2549580	22.815 ug/ml
2) T n-Decane (C10)	4.505	2784116	24.828 ug/ml
3) T A~Naphthalene (C11.7)	6.218	3288329	28.343 ug/ml
4) T n-Dodecane (C12)	6.686	3038575	26.576 ug/ml
5) T A~2-methylnaphthalene...	7.320	3128049	28.098 ug/ml
6) T n-Tetradecane (C14)	8.523	3340928	29.318 ug/ml
7) T n-Hexadecane (C16)	10.135	3609805	30.872 ug/ml
8) T n-Octadecane (C18)	11.585	3716787	31.072 ug/ml
10) T n-Eicosane (C20)	12.901	4138906	34.782 ug/ml
11) T n-Heneicosane (C21)	13.515	4167389	35.233 ug/ml
13) T n-Docosane (C22)	14.103	4552200	39.036 ug/ml
14) T n-Tetracosane (C24)	15.201	10577481	91.780 ug/ml
15) T n-Hexacosane (C26)	16.238	4160565	37.257 ug/ml
16) T n-Octacosane (C28)	17.189	3990897	36.671 ug/ml
17) T n-Tricontane (C30)	18.079	3797471	34.864 ug/ml
18) T n-Dotriacontane (C32)	18.912	3826483	35.568 ug/ml
19) T n-Tetratriacontane (C34)	19.697	3672026	36.039 ug/ml
20) T n-Hexatriacontane (C36)	20.439	3159879	32.303 ug/ml
21) T n-Octatriacontane (C38)	21.180	3126737	34.256 ug/ml
22) T n-Tetracontane (C40)	22.101	3083670	36.513 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
Data File : FG015739.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 16:15
Operator : YP\AJ
Sample : Q1848-03MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :

FID_G

Client SampleId :

ETGI-275MS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e

Quant Time: Apr 23 02:43:39 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M

Quant Title : GC Extractables

QLast Update : Thu Apr 17 12:40:13 2025

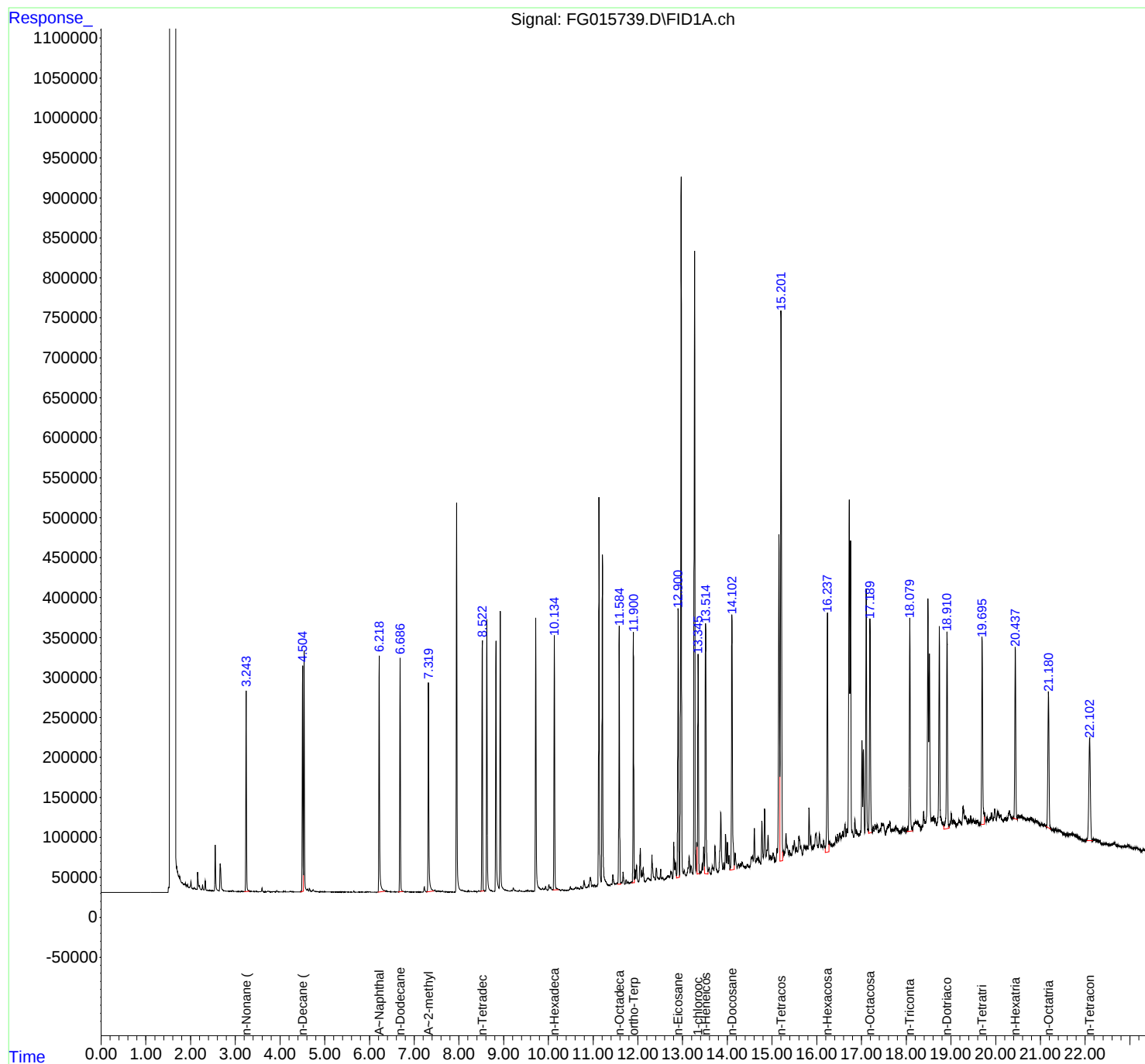
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um



Instrument :

FID_G

ClientSampleId :

ETGI-275MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04222
Data File : FG015739.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 16:15
Sample : Q1848-03MS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Reviewed By :Yogesh Patel 04/23/2025
Supervised By :mohammad ahmed 04/24/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.243	3.221	3.373	BV	250634	2534117	22.22%	0.774%
2	3.385	3.373	3.417	PV	120	1369	0.01%	0.000%
3	3.435	3.417	3.508	PV	577	9350	0.08%	0.003%
4	3.519	3.508	3.540	PV	109	1206	0.01%	0.000%
5	3.561	3.540	3.571	VV	151	1568	0.01%	0.000%
6	3.598	3.571	3.638	VV	4657	49925	0.44%	0.015%
7	3.644	3.638	3.659	VV	38	518	0.00%	0.000%
8	3.699	3.659	3.709	VV	234	2601	0.02%	0.001%
9	3.731	3.709	3.819	VV	925	19634	0.17%	0.006%
10	3.850	3.819	3.907	VV	468	11184	0.10%	0.003%
11	3.929	3.907	4.028	VV	1764	22954	0.20%	0.007%
12	4.044	4.028	4.061	PV	161	2375	0.02%	0.001%
13	4.086	4.061	4.141	VV	1223	17346	0.15%	0.005%
14	4.153	4.141	4.190	VV	206	3617	0.03%	0.001%
15	4.230	4.190	4.261	VV	449	12735	0.11%	0.004%
16	4.284	4.261	4.353	VV	305	11420	0.10%	0.003%
17	4.363	4.353	4.371	VV	162	1316	0.01%	0.000%
18	4.382	4.371	4.411	VV	186	2375	0.02%	0.001%
19	4.443	4.411	4.454	VV	159	2943	0.03%	0.001%
20	4.461	4.454	4.475	VV	270	1343	0.01%	0.000%
21	4.505	4.475	4.522	VV	282707	2801434	24.57%	0.855%
22	4.538	4.522	4.599	VV	300433	3095105	27.14%	0.945%
23	4.615	4.599	4.641	VV	3743	63907	0.56%	0.020%
24	4.660	4.641	4.715	VV	4385	85271	0.75%	0.026%
25	4.738	4.715	4.885	VV	2817	98708	0.87%	0.030%
26	4.894	4.885	4.985	VV	414	20124	0.18%	0.006%
27	4.987	4.985	5.004	VV	366	3769	0.03%	0.001%
28	5.016	5.004	5.108	VV	377	16734	0.15%	0.005%
29	5.121	5.108	5.159	VV	222	5260	0.05%	0.002%
30	5.175	5.159	5.198	VV	236	3620	0.03%	0.001%
31	5.223	5.198	5.255	VV	257	6653	0.06%	0.002%
32	5.265	5.255	5.377	VV	222	10330	0.09%	0.003%
33	5.401	5.377	5.447	VV	273	6622	0.06%	0.002%
34	5.494	5.447	5.563	VV	387	13892	0.12%	0.004%
35	5.585	5.563	5.622	VV	206	2819	0.02%	0.001%
36	5.652	5.622	5.691	PV	792	11668	0.10%	0.004%

rterres							Client Sampled : ETGI-275MS		
37	5.797	5.691	5.816	VV	311	10502	0.09%	0.003%	
38	5.843	5.816	5.890	VV	575	9990	Manual Integration		
39	5.946	5.890	5.954	VV	588	12393			
40	5.966	5.954	6.039	VV	650	18596			
41	6.049	6.039	6.085	VV	134	1740			
42	6.091	6.085	6.098	VV	36	310	Reviewed By :Yogesh Supervised By :m		
43	6.119	6.098	6.187	VV	260	3444		0.03%	0.001%
44	6.218	6.187	6.525	PV	294780	3440767		30.18%	1.051%
45	6.573	6.525	6.653	VV	535	29524		0.26%	0.009%
46	6.686	6.653	6.821	VV	291212	3103246	27.22%	0.948%	
47	6.841	6.821	6.901	VV	738	21026	0.18%	0.006%	
48	6.909	6.901	6.958	VV	278	7129	0.06%	0.002%	
49	6.970	6.958	6.991	VV	305	4872	0.04%	0.001%	
50	7.017	6.991	7.066	VV	421	11779	0.10%	0.004%	
51	7.098	7.066	7.124	VV	296	6273	0.06%	0.002%	
52	7.138	7.124	7.173	VV	198	2901	0.03%	0.001%	
53	7.227	7.173	7.285	VV	6790	109347	0.96%	0.033%	
54	7.320	7.285	7.446	VV	259384	3223594	28.27%	0.984%	
55	7.463	7.446	7.496	VV	2572	52276	0.46%	0.016%	
56	7.531	7.496	7.585	VV	1636	61251	0.54%	0.019%	
57	7.602	7.585	7.621	VV	934	16961	0.15%	0.005%	
58	7.637	7.621	7.675	VV	1950	29359	0.26%	0.009%	
59	7.692	7.675	7.753	VV	422	16000	0.14%	0.005%	
60	7.762	7.753	7.779	VV	242	2776	0.02%	0.001%	
61	7.811	7.779	7.838	VV	630	10711	0.09%	0.003%	
62	7.852	7.838	7.887	VV	252	3368	0.03%	0.001%	
63	8.070	8.049	8.149	VV	2578	99849	0.88%	0.030%	
64	8.162	8.149	8.187	VV	849	16744	0.15%	0.005%	
65	8.212	8.187	8.228	VV	1515	23792	0.21%	0.007%	
66	8.239	8.228	8.255	VV	837	11902	0.10%	0.004%	
67	8.270	8.255	8.314	VV	955	20194	0.18%	0.006%	
68	8.340	8.314	8.366	VV	1162	22005	0.19%	0.007%	
69	8.385	8.366	8.403	VV	1081	14440	0.13%	0.004%	
70	8.445	8.403	8.462	VV	1419	26998	0.24%	0.008%	
71	8.477	8.462	8.490	VV	892	13365	0.12%	0.004%	
72	8.523	8.490	8.595	VV	311721	3413554	29.94%	1.042%	
73	8.625	8.595	8.798	VV	340716	3869365	33.94%	1.181%	
74	8.926	8.897	9.049	VV	346434	3974817	34.86%	1.214%	
75	9.062	9.049	9.108	VV	1970	51945	0.46%	0.016%	
76	9.114	9.108	9.138	VV	1047	15508	0.14%	0.005%	
77	9.174	9.138	9.193	VV	1794	37232	0.33%	0.011%	
78	9.218	9.193	9.328	VV	4762	133153	1.17%	0.041%	
79	9.350	9.328	9.376	VV	1710	28501	0.25%	0.009%	
80	9.389	9.376	9.465	VV	866	17802	0.16%	0.005%	
81	9.501	9.465	9.519	PV	1460	21175	0.19%	0.006%	
82	9.540	9.519	9.569	VV	1276	25259	0.22%	0.008%	
83	9.591	9.569	9.612	VV	1013	16588	0.15%	0.005%	
84	9.635	9.612	9.664	VV	934	15588	0.14%	0.005%	
85	9.720	9.664	9.791	PV	339003	3979090	34.90%	1.215%	
86	9.797	9.791	9.854	VV	4527	109674	0.96%	0.033%	
87	9.872	9.854	9.894	VV	3864	66925	0.59%	0.020%	
88	9.911	9.894	9.920	VV	2610	34577	0.30%	0.011%	
89	9.940	9.920	9.979	VV	5613	100646	0.88%	0.031%	

Instrument :

FID_G

ClientSampleId :

ETGI-275MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

90	10.013	9.979	10.036	VV	7765	137065	1.20%	0.042%
91	10.051	10.036	10.097	VV	4954	102925		
92	10.136	10.097	10.275	VV	319670	3724237	32.00%	0.042%
93	10.305	10.275	10.341	VV	1102	25195	0.00%	0.042%
94	10.361	10.341	10.390	VV	486	6958	0.00%	0.042%
95	10.409	10.390	10.435	VV	259	3408	0.00%	0.042%
96	10.492	10.435	10.511	PV	4054	58327	0.51%	0.018%
97	10.525	10.511	10.550	VV	1571	22941	0.20%	0.007%
98	10.617	10.550	10.638	VV	3376	79237	0.69%	0.024%
99	10.656	10.638	10.701	VV	2397	43184	0.38%	0.013%
100	10.728	10.701	10.764	VV	3661	56716	0.50%	0.017%
101	10.796	10.764	10.839	VV	10426	197659	1.73%	0.060%
102	10.899	10.839	10.909	VV	4645	96038	0.84%	0.029%
103	10.937	10.909	10.973	VV	13679	307297	2.70%	0.094%
104	10.994	10.973	11.015	VV	3878	69289	0.61%	0.021%
105	11.032	11.015	11.051	VV	4191	53377	0.47%	0.016%
106	11.073	11.051	11.086	VV	2391	37194	0.33%	0.011%
107	11.133	11.086	11.180	VV	486273	5603898	49.15%	1.711%
108	11.208	11.180	11.341	VV	417203	5258621	46.12%	1.606%
109	11.354	11.341	11.372	VV	1627	26268	0.23%	0.008%
110	11.408	11.372	11.420	VV	3180	60020	0.53%	0.018%
111	11.441	11.420	11.491	VV	14415	264644	2.32%	0.081%
112	11.506	11.491	11.520	VV	2630	39216	0.34%	0.012%
113	11.539	11.520	11.551	VV	3585	52268	0.46%	0.016%
114	11.585	11.551	11.616	VV	321862	3781797	33.17%	1.155%
115	11.629	11.616	11.641	VV	3462	46897	0.41%	0.014%
116	11.671	11.641	11.708	VV	16593	275798	2.42%	0.084%
117	11.737	11.708	11.758	VV	6360	93257	0.82%	0.028%
118	11.780	11.758	11.815	VV	3484	83173	0.73%	0.025%
119	11.838	11.815	11.858	VV	2619	54656	0.48%	0.017%
120	11.900	11.858	11.925	VV	312016	3456383	30.31%	1.055%
121	11.941	11.925	11.955	VV	17510	214774	1.88%	0.066%
122	11.972	11.955	12.017	VV	23348	367668	3.22%	0.112%
123	12.053	12.017	12.074	VV	44193	642432	5.63%	0.196%
124	12.089	12.074	12.104	VV	16605	219551	1.93%	0.067%
125	12.121	12.104	12.169	VV	19360	325370	2.85%	0.099%
126	12.230	12.169	12.290	VV	6306	304020	2.67%	0.093%
127	12.315	12.290	12.390	VV	34312	721341	6.33%	0.220%
128	12.414	12.390	12.464	VV	17160	344179	3.02%	0.105%
129	12.477	12.464	12.491	VV	4049	60312	0.53%	0.018%
130	12.509	12.491	12.546	VV	15652	242261	2.12%	0.074%
131	12.560	12.546	12.585	VV	4546	78727	0.69%	0.024%
132	12.665	12.585	12.675	VV	6481	206002	1.81%	0.063%
133	12.687	12.675	12.718	VV	6436	136341	1.20%	0.042%
134	12.736	12.718	12.774	VV	11636	272936	2.39%	0.083%
135	12.803	12.774	12.825	VV	47262	647924	5.68%	0.198%
136	12.842	12.825	12.864	VV	22110	341952	3.00%	0.104%
137	12.901	12.864	12.931	VV	339449	4251915	37.29%	1.298%
138	12.969	12.931	13.016	VV	873899	10923412	95.80%	3.335%
139	13.035	13.016	13.084	VV	11293	296926	2.60%	0.091%
140	13.146	13.084	13.167	VV	28656	665641	5.84%	0.203%
141	13.187	13.167	13.230	VV	16091	401072	3.52%	0.122%

Instrument :

FID_G

ClientSampleId :

ETGI-275MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

				rters				
142	13.267	13.230	13.296	VV	785107	9852813	86.41%	3.008%
143	13.346	13.296	13.411	VV	277221	4165392	36.41%	0.008%
144	13.437	13.411	13.451	VV	17812	274329	2.96%	0.103%
145	13.470	13.451	13.487	VV	37227	534281	7.10%	0.247%
146	13.515	13.487	13.568	VV	316812	4378619	16.06%	0.559%
147	13.592	13.568	13.637	VV	11739	301197	2.96%	0.103%
148	13.662	13.637	13.698	VV	13571	337603	7.10%	0.247%
149	13.724	13.698	13.779	VV	37592	809956	16.06%	0.559%
150	13.853	13.779	13.902	VV	79154	1830952	2.15%	0.075%
151	13.920	13.902	13.937	VV	16247	244852	6.70%	0.233%
152	13.961	13.937	13.983	VV	50189	764072	5.58%	0.194%
153	14.001	13.983	14.023	VV	41117	636764	3.39%	0.118%
154	14.038	14.023	14.062	VV	24753	386737	42.95%	1.495%
155	14.103	14.062	14.155	VV	320114	4897541	5.54%	0.193%
156	14.174	14.155	14.220	VV	26552	632114	2.84%	0.099%
157	14.251	14.220	14.270	VV	12824	324324	2.83%	0.099%
158	14.295	14.270	14.318	VV	12809	323139	4.63%	0.161%
159	14.335	14.318	14.404	VV	14466	528295	3.51%	0.122%
160	14.445	14.404	14.478	VV	11253	400380	1.13%	0.039%
161	14.490	14.478	14.505	VV	8585	128638	4.34%	0.151%
162	14.548	14.505	14.558	VV	20258	494618	1.97%	0.068%
163	14.564	14.558	14.579	VV	19493	224206	9.14%	0.318%
164	14.603	14.579	14.645	VV	54525	1042346	3.09%	0.108%
165	14.665	14.645	14.681	VV	17779	352135	4.81%	0.168%
166	14.694	14.681	14.744	VV	19073	548727	10.37%	0.361%
167	14.772	14.744	14.807	VV	63832	1182223	12.34%	0.430%
168	14.834	14.807	14.863	VV	77199	1407245	10.82%	0.377%
169	14.910	14.863	14.938	VV	44982	1233912	5.39%	0.188%
170	14.957	14.938	15.001	VV	19920	614962	7.09%	0.247%
171	15.021	15.001	15.085	VV	22459	808008	3.76%	0.131%
172	15.108	15.085	15.120	VV	27451	428337	57.48%	2.001%
173	15.154	15.120	15.176	VV	421144	6554341	100.00%	3.482%
174	15.201	15.176	15.267	VV	697466	11402190	10.31%	0.359%
175	15.311	15.267	15.333	VV	45496	1175558	4.38%	0.153%
176	15.342	15.333	15.366	VV	28919	499672	7.40%	0.258%
177	15.385	15.366	15.438	VV	23543	843841	5.29%	0.184%
178	15.465	15.438	15.480	VV	28873	603647	7.03%	0.245%
179	15.497	15.480	15.526	VV	35692	801786	5.87%	0.204%
180	15.545	15.526	15.574	VV	26722	669389	15.64%	0.545%
181	15.603	15.574	15.681	VV	39293	1783413	9.84%	0.343%
182	15.728	15.681	15.758	VV	26550	1122108	6.10%	0.212%
183	15.783	15.758	15.805	VV	26866	695750	10.75%	0.374%
184	15.827	15.805	15.849	VV	74127	1226268	7.93%	0.276%
185	15.865	15.849	15.900	VV	38478	904306	20.30%	0.707%
186	15.985	15.900	16.028	VV	41755	2314138	10.69%	0.372%
187	16.058	16.028	16.094	VV	40759	1218514	5.32%	0.185%
188	16.106	16.094	16.135	VV	25703	606867	7.46%	0.260%
189	16.152	16.135	16.188	VV	31555	851034	43.81%	1.525%
190	16.238	16.188	16.269	VV	313886	4995470	6.30%	0.219%
191	16.282	16.269	16.312	VV	29238	718470	5.18%	0.180%
192	16.330	16.312	16.351	VV	26792	590283	3.56%	0.124%
193	16.365	16.351	16.378	VV	26661	406450	10.92%	0.380%
194	16.429	16.378	16.449	VV	33751	1245013		

Instrument :

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ETGI-275MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

					rters				
195	16.468	16.449	16.488	VV	37815	777512	6.82%	0.237%	
196	16.512	16.488	16.545	VV	39162	1183943	10.36%	0.361%	
197	16.577	16.545	16.603	VV	40570	1274721	12.72%	0.443%	
198	16.629	16.603	16.654	VV	49684	1284188	3.29%	0.115%	
199	16.672	16.654	16.687	VV	43226	780658	26.71%	0.930%	
200	16.725	16.687	16.741	VV	452777	7416189	20.55%	0.715%	
201	16.754	16.741	16.827	VV	401732	6089791	49.91%	1.738%	
202	16.853	16.827	16.873	VV	55196	1181239	53.56%	1.865%	
203	16.885	16.873	16.938	VV	41240	1449989	7.83%	0.273%	
204	16.949	16.938	16.956	VV	36469	375524	10.89%	0.379%	
205	17.010	16.956	17.027	VV	151222	3045689	14.19%	0.494%	
206	17.043	17.027	17.072	VV	141367	2342593	19.97%	0.695%	
207	17.105	17.072	17.148	VV	339637	5691199	10.07%	0.351%	
208	17.189	17.148	17.245	VV	297195	6107080	26.98%	0.939%	
209	17.262	17.245	17.281	VV	43763	892841	11.65%	0.406%	
210	17.301	17.281	17.331	VV	45647	1242077	13.28%	0.462%	
211	17.352	17.331	17.397	VV	45502	1617781	11.56%	0.402%	
212	17.446	17.397	17.488	VV	47207	2277284	18.19%	0.633%	
213	17.491	17.488	17.537	VV	45390	1148734	8.20%	0.285%	
214	17.633	17.537	17.664	VV	48536	3076801	6.07%	0.211%	
215	17.678	17.664	17.725	VV	37478	1328507	53.37%	1.858%	
216	17.768	17.725	17.790	VV	42315	1514597	22.87%	0.796%	
217	17.801	17.790	17.852	VV	38879	1318061	8.06%	0.281%	
218	17.923	17.852	17.951	VV	38506	2073787	11.10%	0.386%	
219	17.966	17.951	17.995	VV	37444	934780	21.85%	0.761%	
220	18.003	17.995	18.027	VV	35800	692538	48.75%	1.697%	
221	18.080	18.027	18.141	VV	300018	6085720	42.68%	1.486%	
222	18.214	18.141	18.245	VV	44813	2608138	7.04%	0.245%	
223	18.258	18.245	18.281	VV	44731	919059	7.67%	0.267%	
224	18.294	18.281	18.338	VV	40257	1265251	11.16%	0.389%	
225	18.388	18.338	18.434	VV	56385	2491935	57.21%	1.992%	
226	18.485	18.434	18.501	VV	321946	5558337	9.72%	0.338%	
227	18.517	18.501	18.571	VV	252110	4866923	51.30%	1.786%	
228	18.585	18.571	18.600	VV	48114	802201	14.19%	0.494%	
229	18.616	18.600	18.631	VV	49000	874939	19.91%	0.693%	
230	18.648	18.631	18.681	VV	45995	1272498	22.82%	0.794%	
231	18.740	18.681	18.809	VV	286859	6523741	30.25%	1.053%	
232	18.823	18.809	18.857	VV	41138	1108497	8.60%	0.299%	
233	18.912	18.857	18.963	VV	277670	5848956	14.13%	0.492%	
234	19.009	18.963	19.029	VV	50621	1617683	2.44%	0.085%	
235	19.056	19.029	19.127	VV	42149	2270638	6.38%	0.222%	
236	19.178	19.127	19.241	VV	41834	2601878	13.09%	0.456%	
237	19.271	19.241	19.369	VV	57238	3448846	8.22%	0.286%	
238	19.390	19.369	19.411	VV	42040	980211	52.43%	1.825%	
239	19.442	19.411	19.478	VV	45537	1611109	7.49%	0.261%	
240	19.486	19.478	19.490	VV	38681	277857	8.71%	0.303%	
241	19.499	19.490	19.521	VV	40928	726900			
242	19.563	19.521	19.588	VV	38068	1493015			
243	19.601	19.588	19.631	VV	38715	937428			
244	19.698	19.631	19.746	VV	263009	5978313			
245	19.756	19.746	19.780	VV	46451	853489			
246	19.811	19.780	19.822	VV	41587	992777			

Instrument :

FID_G

ClientSampleId :

ETGI-275MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

rteres									
247	19.828	19.822	19.848	VV	39380	588972	5.17%	0.180%	
248	19.874	19.848	19.888	VV	39831	924628			
249	19.910	19.888	19.937	VV	46632	1255411	11.86%	0.417%	
250	19.979	19.937	20.011	VV	51140	1903616	16.06%	0.552%	
251	20.040	20.011	20.085	VV	47548	1892815	16.06%	0.552%	
252	20.115	20.085	20.174	VV	42719	2078221	18.86%	0.417%	
253	20.207	20.174	20.257	VV	38594	1808766	15.86%	0.552%	
254	20.309	20.257	20.397	VV	46731	3373321	29.58%	1.030%	
255	20.439	20.397	20.485	VV	250617	5096700	44.70%	1.556%	
256	20.501	20.485	20.522	VV	41149	848587	7.44%	0.259%	
257	20.545	20.522	20.555	VV	39322	751773	6.59%	0.230%	
258	20.573	20.555	20.625	VV	39664	1581122	13.87%	0.483%	
259	20.634	20.625	20.689	VV	37347	1364221	11.96%	0.417%	
260	20.713	20.689	20.757	VV	34944	1393690	12.22%	0.426%	
261	20.801	20.757	20.838	VV	35988	1650635	14.48%	0.504%	
262	20.847	20.838	20.871	VV	32392	616838	5.41%	0.188%	
263	20.883	20.871	20.909	VV	31441	696207	6.11%	0.213%	
264	20.919	20.909	20.938	VV	31246	530820	4.66%	0.162%	
265	20.951	20.938	21.011	VV	29527	1210667	10.62%	0.370%	
266	21.025	21.011	21.055	VV	27212	669812	5.87%	0.205%	
267	21.069	21.055	21.085	VV	26076	456234	4.00%	0.139%	
268	21.094	21.085	21.128	VV	25536	635767	5.58%	0.194%	
269	21.181	21.128	21.285	VV	190763	5038108	44.19%	1.538%	
270	21.291	21.285	21.305	VV	18285	215724	1.89%	0.066%	
271	21.341	21.305	21.378	VV	18973	774433	6.79%	0.236%	
272	21.396	21.378	21.422	VV	17347	437973	3.84%	0.134%	
273	21.429	21.422	21.539	VV	16883	966584	8.48%	0.295%	
274	21.552	21.539	21.569	VV	11524	193760	1.70%	0.059%	
275	21.579	21.569	21.587	VV	10215	108432	0.95%	0.033%	
276	21.622	21.587	21.633	VV	11570	291861	2.56%	0.089%	
277	21.654	21.633	21.665	VV	11143	202267	1.77%	0.062%	
278	21.672	21.665	21.681	VV	11187	103339	0.91%	0.032%	
279	21.693	21.681	21.720	VV	10578	234713	2.06%	0.072%	
280	21.730	21.720	21.767	VV	10280	267083	2.34%	0.082%	
281	21.777	21.767	21.950	VV	8862	597125	5.24%	0.182%	
282	21.963	21.950	22.008	VV	2075	39460	0.35%	0.012%	
283	22.100	22.008	22.161	VV	128175	3133490	27.48%	0.957%	
284	22.178	22.161	22.191	PV	537	5695	0.05%	0.002%	
Sum of corrected areas:					327499868				

Instrument :

FID_G

ClientSampleId :

ETGI-275MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Aliphatic EPH 041725.M Wed Apr 23 02:59:45 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Stockton	Date Received:	
Client Sample ID:	ETGI-275MSD	SDG No.:	Q1851
Lab Sample ID:	Q1848-03MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.9
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
04/22/25 09:40	04/22/25 16:45	PB167690

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	95.5	E	1	1.37	2.33	mg/kg	FG015740.D
Aliphatic C9-C28	Aliphatic C9-C28	128	E	1	1.06	4.65	mg/kg	FG015740.D
Total AliphaticEPH	Total AliphaticEPH	224			2.43	6.98	mg/kg	
Total EPH	Total EPH	224			2.43	6.98	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:	Stockton	Date Received:	
Client Sample ID:	ETGI-275MSD	SDG No.:	Q1851
Lab Sample ID:	Q1848-03MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.9
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
FG015740.D	1	04/22/25	04/22/25	PB167690

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	128	E	1.06	4.65	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	95.5	E	1.37	2.33	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.9		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.7		40 - 140	45%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1848-03MSD	Acq On:	22 Apr 2025 16:45
Client Sample ID:	ETGI-275MSD	Operator:	YP\AJ
Data file:	FG015740.D	Misc:	
Instrument:	FID_G	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.145	6.786	15236052	135.143	300	ug/ml
Aliphatic C12-C16	6.787	10.235	23119551	200.268	200	ug/ml
Aliphatic C16-C21	10.236	13.612	55300339	464.843	300	ug/ml
Aliphatic C21-C28	13.613	17.283	96695070	855.016	400	ug/ml
Aliphatic C28-C40	17.284	22.194	121495899	1230	600	ug/ml
Aliphatic EPH	3.145	22.194	311846911	2890		ug/ml
ortho-Terphenyl (SURR)	11.902	11.902	3294434	22.72		ug/ml
1-chlorooctadecane (SURR)	13.347	13.347	3374845	31.91		ug/ml
Aliphatic C9-C28	3.145	17.283	190351012	1660	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
 Data File : FG015740.D
 Signal(s) : FID1A.ch
 Acq On : 22 Apr 2025 16:45
 Operator : YP\AJ
 Sample : Q1848-03MSD
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :

FID_G

ClientSampleId :

ETGI-275MSD

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e

Quant Time: Apr 23 02:44:03 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M

Quant Title : GC Extractables

QLast Update : Thu Apr 17 12:40:13 2025

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.902	3294434	22.724 ug/ml
Spiked Amount 50.000		Recovery =	45.45%
12) S 1-chlorooctadecane (S...	13.347	3374845	31.913 ug/ml
Spiked Amount 50.000		Recovery =	63.83%
Target Compounds			
1) T n-Nonane (C9)	3.243	2505780	22.423 ug/ml
2) T n-Decane (C10)	4.505	2737194	24.410 ug/ml
3) T A~Naphthalene (C11.7)	6.218	3204530	27.621 ug/ml
4) T n-Dodecane (C12)	6.686	2977025	26.037 ug/ml
5) T A~2-methylnaphthalene...	7.320	3051315	27.409 ug/ml
6) T n-Tetradecane (C14)	8.524	3275546	28.744 ug/ml
7) T n-Hexadecane (C16)	10.136	3489085	29.839 ug/ml
8) T n-Octadecane (C18)	11.585	3631276	30.357 ug/ml
10) T n-Eicosane (C20)	12.902	4059360	34.113 ug/ml
11) T n-Heneicosane (C21)	13.516	4135972	34.967 ug/ml
13) T n-Docosane (C22)	14.103	4489007	38.494 ug/ml
14) T n-Tetracosane (C24)	15.202	10459525	90.757 ug/ml
15) T n-Hexacosane (C26)	16.238	3972231	35.571 ug/ml
16) T n-Octacosane (C28)	17.187	3915271	35.976 ug/ml
17) T n-Tricontane (C30)	18.080	4004292	36.763 ug/ml
18) T n-Dotriacontane (C32)	18.914	3666183	34.078 ug/ml
19) T n-Tetratriacontane (C34)	19.699	3539843	34.741 ug/ml
20) T n-Hexatriacontane (C36)	20.440	3109609	31.789 ug/ml
21) T n-Octatriacontane (C38)	21.180	3022444	33.113 ug/ml
22) T n-Tetracontane (C40)	22.102	3037178	35.963 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG042225AL\
Data File : FG015740.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 16:45
Operator : YP\AJ
Sample : Q1848-03MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :

FID_G

ClientSampleId :

ETGI-275MSD

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Integration File: autoint1.e

Quant Time: Apr 23 02:44:03 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.M

Quant Title : GC Extractables

QLast Update : Thu Apr 17 12:40:13 2025

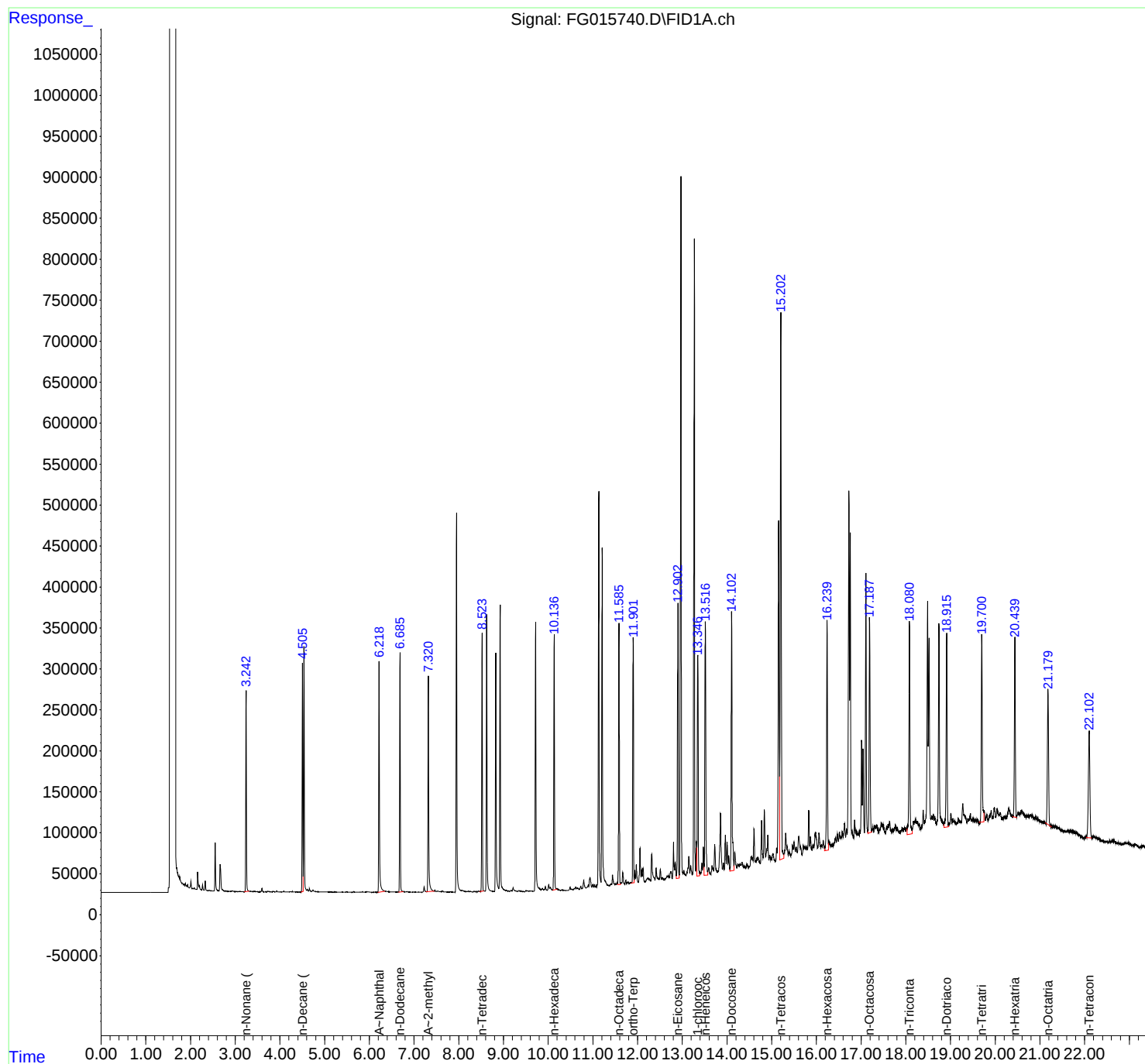
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um



rteres

Instrument :

FID_G

ClientSampleId :

ETGI-275MSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG04222
Data File : FG015740.D
Signal(s) : FID1A.ch
Acq On : 22 Apr 2025 16:45
Sample : Q1848-03MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 041725.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	3.243	3.221	3.372	BV	244434	2491432	22.42%	0.789%
2	3.386	3.372	3.417	PV	105	1414	0.01%	0.000%
3	3.434	3.417	3.478	VV	507	6958	0.06%	0.002%
4	3.486	3.478	3.508	VV	140	1354	0.01%	0.000%
5	3.525	3.508	3.541	PV	126	1218	0.01%	0.000%
6	3.598	3.541	3.671	PV	4524	51435	0.46%	0.016%
7	3.731	3.671	3.816	PV	892	21069	0.19%	0.007%
8	3.851	3.816	3.908	VV	474	11271	0.10%	0.004%
9	3.929	3.908	4.031	VV	1538	19069	0.17%	0.006%
10	4.044	4.031	4.064	PV	206	2247	0.02%	0.001%
11	4.086	4.064	4.144	VV	1215	14835	0.13%	0.005%
12	4.160	4.144	4.195	VV	140	3324	0.03%	0.001%
13	4.233	4.195	4.259	VV	514	11653	0.10%	0.004%
14	4.274	4.259	4.356	VV	423	11204	0.10%	0.004%
15	4.377	4.356	4.410	VV	123	2583	0.02%	0.001%
16	4.422	4.410	4.470	VV	130	2331	0.02%	0.001%
17	4.505	4.470	4.522	VV	279398	2748380	24.73%	0.870%
18	4.539	4.522	4.599	VV	299017	3022898	27.20%	0.957%
19	4.615	4.599	4.641	VV	3600	60699	0.55%	0.019%
20	4.661	4.641	4.715	VV	4314	80462	0.72%	0.025%
21	4.739	4.715	4.855	VV	2755	84807	0.76%	0.027%
22	4.865	4.855	4.931	VV	440	14740	0.13%	0.005%
23	4.936	4.931	4.958	VV	331	4768	0.04%	0.002%
24	4.970	4.958	5.007	VV	317	8332	0.07%	0.003%
25	5.017	5.007	5.084	VV	347	12113	0.11%	0.004%
26	5.091	5.084	5.104	VV	230	2353	0.02%	0.001%
27	5.113	5.104	5.161	VV	201	5700	0.05%	0.002%
28	5.169	5.161	5.200	VV	194	3581	0.03%	0.001%
29	5.217	5.200	5.253	VV	281	5769	0.05%	0.002%
30	5.264	5.253	5.321	VV	225	4734	0.04%	0.001%
31	5.329	5.321	5.341	VV	146	1382	0.01%	0.000%
32	5.355	5.341	5.366	VV	149	1625	0.01%	0.001%
33	5.395	5.366	5.446	VV	255	6455	0.06%	0.002%
34	5.495	5.446	5.566	VV	352	11510	0.10%	0.004%
35	5.584	5.566	5.617	VV	210	2242	0.02%	0.001%
36	5.652	5.617	5.695	PV	794	11976	0.11%	0.004%

37	5.705	5.695	5.718	VV	93	809	0.01%	0.000%
38	5.795	5.718	5.825	VV	259	9845	0.01%	0.000%
39	5.842	5.825	5.898	VV	584	10441	0.01%	0.000%
40	5.946	5.898	6.085	VV	602	33330	0.01%	0.000%
41	6.089	6.085	6.095	VV	69	324	0.01%	0.000%
42	6.118	6.095	6.165	VV	276	4401	0.01%	0.000%
43	6.172	6.165	6.188	PV	96	808	0.01%	0.000%
44	6.218	6.188	6.495	VV	280577	3354294	30.18%	1.062%
45	6.504	6.495	6.528	VV	461	7941	0.07%	0.003%
46	6.539	6.528	6.556	VV	494	7591	0.07%	0.002%
47	6.576	6.556	6.651	VV	487	20121	0.18%	0.006%
48	6.686	6.651	6.821	VV	291475	3038224	27.34%	0.962%
49	6.840	6.821	6.903	VV	790	21059	0.19%	0.007%
50	6.914	6.903	6.926	VV	287	3172	0.03%	0.001%
51	6.972	6.926	6.998	VV	322	9529	0.09%	0.003%
52	7.015	6.998	7.068	VV	399	10424	0.09%	0.003%
53	7.099	7.068	7.127	VV	329	7000	0.06%	0.002%
54	7.138	7.127	7.171	VV	254	3678	0.03%	0.001%
55	7.227	7.171	7.288	PV	6888	111125	1.00%	0.035%
56	7.320	7.288	7.448	VV	264016	3155558	28.40%	0.999%
57	7.464	7.448	7.500	VV	2555	51580	0.46%	0.016%
58	7.529	7.500	7.588	VV	1585	57901	0.52%	0.018%
59	7.603	7.588	7.619	VV	957	14894	0.13%	0.005%
60	7.638	7.619	7.677	VV	1971	31618	0.28%	0.010%
61	7.694	7.677	7.755	VV	493	16918	0.15%	0.005%
62	7.760	7.755	7.788	VV	217	3350	0.03%	0.001%
63	7.811	7.788	7.850	VV	705	12761	0.11%	0.004%
64	7.860	7.850	7.895	VV	211	2554	0.02%	0.001%
65	8.070	8.055	8.155	VV	2467	88566	0.80%	0.028%
66	8.165	8.155	8.190	VV	757	13561	0.12%	0.004%
67	8.212	8.190	8.258	VV	1350	32328	0.29%	0.010%
68	8.270	8.258	8.314	VV	895	16927	0.15%	0.005%
69	8.341	8.314	8.367	VV	1096	21470	0.19%	0.007%
70	8.386	8.367	8.403	VV	987	13117	0.12%	0.004%
71	8.445	8.403	8.462	VV	1387	26413	0.24%	0.008%
72	8.477	8.462	8.490	VV	914	12502	0.11%	0.004%
73	8.523	8.490	8.562	VV	314305	3313747	29.82%	1.049%
74	8.570	8.562	8.593	VV	1394	22596	0.20%	0.007%
75	8.626	8.593	8.791	VV	335205	3779483	34.01%	1.197%
76	8.927	8.897	9.049	VV	351192	3873340	34.85%	1.227%
77	9.062	9.049	9.101	VV	1870	46407	0.42%	0.015%
78	9.115	9.101	9.145	VV	1093	23109	0.21%	0.007%
79	9.174	9.145	9.192	VV	1858	33896	0.31%	0.011%
80	9.217	9.192	9.327	VV	4725	133110	1.20%	0.042%
81	9.351	9.327	9.378	VV	1654	28852	0.26%	0.009%
82	9.389	9.378	9.429	VV	865	14924	0.13%	0.005%
83	9.440	9.429	9.463	VV	257	3216	0.03%	0.001%
84	9.502	9.463	9.520	PV	1470	21824	0.20%	0.007%
85	9.541	9.520	9.570	VV	1260	24649	0.22%	0.008%
86	9.591	9.570	9.618	VV	963	16929	0.15%	0.005%
87	9.636	9.618	9.664	VV	836	12780	0.11%	0.004%
88	9.720	9.664	9.789	PV	328864	3886924	34.98%	1.231%
89	9.797	9.789	9.854	VV	4283	107815	0.97%	0.034%

Instrument :

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ETGI-275MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 04/23/2025

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90	9.872	9.854	9.893	VV	3682	63269	0.57%	0.020%
91	9.911	9.893	9.921	VV	2449	34187		
92	9.939	9.921	9.978	VV	5611	97105		
93	10.013	9.978	10.036	VV	7911	136023		
94	10.050	10.036	10.095	VV	4724	97161		
95	10.136	10.095	10.228	VV	313547	3610200	32	
96	10.239	10.228	10.274	VV	1390	26001	0.23%	0.008%
97	10.304	10.274	10.345	VV	1046	24869	0.22%	0.008%
98	10.357	10.345	10.390	VV	299	5059	0.05%	0.002%
99	10.411	10.390	10.433	PV	210	2990	0.03%	0.001%
100	10.492	10.433	10.511	PV	3999	55317	0.50%	0.018%
101	10.525	10.511	10.552	VV	1522	23234	0.21%	0.007%
102	10.585	10.552	10.595	VV	1658	25526	0.23%	0.008%
103	10.617	10.595	10.638	VV	3410	54834	0.49%	0.017%
104	10.657	10.638	10.704	VV	2405	44894	0.40%	0.014%
105	10.728	10.704	10.764	PV	3608	56674	0.51%	0.018%
106	10.796	10.764	10.848	VV	10459	204718	1.84%	0.065%
107	10.900	10.848	10.911	VV	4515	90701	0.82%	0.029%
108	10.938	10.911	10.973	VV	13284	297233	2.67%	0.094%
109	10.995	10.973	11.017	VV	3773	68986	0.62%	0.022%
110	11.034	11.017	11.051	VV	4268	51710	0.47%	0.016%
111	11.072	11.051	11.086	VV	2207	36101	0.32%	0.011%
112	11.133	11.086	11.180	VV	483654	5476741	49.28%	1.734%
113	11.209	11.180	11.337	VV	408809	5131390	46.18%	1.625%
114	11.351	11.337	11.371	VV	1490	25430	0.23%	0.008%
115	11.407	11.371	11.420	VV	2853	56638	0.51%	0.018%
116	11.441	11.420	11.491	VV	13483	253246	2.28%	0.080%
117	11.505	11.491	11.525	VV	2188	38959	0.35%	0.012%
118	11.539	11.525	11.551	VV	3514	42394	0.38%	0.013%
119	11.585	11.551	11.641	VV	317709	3725432	33.52%	1.180%
120	11.672	11.641	11.711	VV	15604	261408	2.35%	0.083%
121	11.737	11.711	11.758	VV	5683	80883	0.73%	0.026%
122	11.777	11.758	11.813	VV	2912	68862	0.62%	0.022%
123	11.841	11.813	11.851	VV	2470	41286	0.37%	0.013%
124	11.901	11.851	11.926	VV	301116	3363805	30.27%	1.065%
125	11.941	11.926	11.956	VV	16836	204953	1.84%	0.065%
126	11.973	11.956	12.016	VV	23091	343816	3.09%	0.109%
127	12.054	12.016	12.075	VV	42999	614334	5.53%	0.195%
128	12.090	12.075	12.104	VV	15881	207051	1.86%	0.066%
129	12.121	12.104	12.169	VV	18191	303599	2.73%	0.096%
130	12.229	12.169	12.255	VV	5849	194939	1.75%	0.062%
131	12.261	12.255	12.291	VV	3776	67928	0.61%	0.022%
132	12.316	12.291	12.390	VV	34059	680347	6.12%	0.215%
133	12.415	12.390	12.463	VV	16702	313001	2.82%	0.099%
134	12.477	12.463	12.489	VV	3549	49059	0.44%	0.016%
135	12.509	12.489	12.546	VV	14740	217991	1.96%	0.069%
136	12.563	12.546	12.588	VV	3907	67469	0.61%	0.021%
137	12.663	12.588	12.678	VV	5596	174402	1.57%	0.055%
138	12.689	12.678	12.718	VV	5679	109075	0.98%	0.035%
139	12.736	12.718	12.775	VV	10482	248426	2.24%	0.079%
140	12.804	12.775	12.826	VV	45873	618114	5.56%	0.196%
141	12.842	12.826	12.865	VV	20961	321402	2.89%	0.102%

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142	12.902	12.865	12.932	VV	335408	4122133	37.09%	1.305%
143	12.970	12.932	13.020	VV	858178	10647545	95.24%	1.305%
144	13.035	13.020	13.085	VV	10409	254034	2.09%	0.074%
145	13.147	13.085	13.168	VV	26965	611951	2.09%	0.074%
146	13.188	13.168	13.229	VV	15379	360508	3.30%	1.242%
147	13.269	13.229	13.296	VV	770596	9593776	86.30%	1.242%
148	13.347	13.296	13.384	VV	269095	3922975	35.30%	1.242%
149	13.396	13.384	13.416	VV	5931	103802	0.93%	0.033%
150	13.438	13.416	13.451	VV	16920	232665	2.09%	0.074%
151	13.471	13.451	13.488	VV	36700	510200	4.59%	0.162%
152	13.515	13.488	13.568	VV	309798	4231571	38.08%	1.340%
153	13.590	13.568	13.641	VV	10358	260927	2.35%	0.083%
154	13.664	13.641	13.700	VV	12416	295696	2.66%	0.094%
155	13.725	13.700	13.778	VV	38101	741268	6.67%	0.235%
156	13.854	13.778	13.900	VV	75435	1723035	15.50%	0.546%
157	13.920	13.900	13.937	VV	14747	231713	2.09%	0.073%
158	13.962	13.937	13.983	VV	48025	725375	6.53%	0.230%
159	14.002	13.983	14.023	VV	39517	595390	5.36%	0.189%
160	14.038	14.023	14.064	VV	22611	362541	3.26%	0.115%
161	14.103	14.064	14.155	VV	317957	4719672	42.47%	1.495%
162	14.175	14.155	14.219	VV	25560	574739	5.17%	0.182%
163	14.254	14.219	14.271	VV	11036	298287	2.68%	0.094%
164	14.294	14.271	14.311	VV	10721	240552	2.16%	0.076%
165	14.335	14.311	14.418	VV	13439	559322	5.03%	0.177%
166	14.444	14.418	14.478	VV	9916	285319	2.57%	0.090%
167	14.491	14.478	14.505	VV	7585	113294	1.02%	0.036%
168	14.544	14.505	14.556	VV	18529	431130	3.88%	0.137%
169	14.564	14.556	14.581	VV	17516	241816	2.18%	0.077%
170	14.603	14.581	14.647	VV	52483	966657	8.70%	0.306%
171	14.668	14.647	14.681	VV	16191	299910	2.70%	0.095%
172	14.695	14.681	14.745	VV	16718	506634	4.56%	0.160%
173	14.772	14.745	14.807	VV	61538	1118924	10.07%	0.354%
174	14.834	14.807	14.868	VV	74920	1379951	12.42%	0.437%
175	14.911	14.868	14.939	VV	42899	1107004	9.96%	0.351%
176	14.957	14.939	14.979	VV	17952	371857	3.35%	0.118%
177	15.023	14.979	15.081	VV	20046	889036	8.00%	0.282%
178	15.109	15.081	15.120	VV	25885	421877	3.80%	0.134%
179	15.155	15.120	15.176	VV	421589	6410413	57.68%	2.030%
180	15.201	15.176	15.268	VV	676446	11112915	100.00%	3.519%
181	15.311	15.268	15.366	VV	43413	1543317	13.89%	0.489%
182	15.385	15.366	15.436	VV	20453	763405	6.87%	0.242%
183	15.466	15.436	15.480	VV	27174	572228	5.15%	0.181%
184	15.497	15.480	15.528	VV	31774	759731	6.84%	0.241%
185	15.548	15.528	15.573	VV	25023	587671	5.29%	0.186%
186	15.603	15.573	15.679	VV	37224	1634037	14.70%	0.517%
187	15.718	15.679	15.765	VV	25164	1147617	10.33%	0.363%
188	15.782	15.765	15.800	VV	24906	491081	4.42%	0.156%
189	15.828	15.800	15.850	VV	68479	1231075	11.08%	0.390%
190	15.865	15.850	15.897	VV	35752	778064	7.00%	0.246%
191	15.983	15.897	16.025	VV	40845	2169221	19.52%	0.687%
192	16.057	16.025	16.101	VV	38089	1269677	11.43%	0.402%
193	16.109	16.101	16.130	VV	23686	401904	3.62%	0.127%
194	16.153	16.130	16.181	VV	29859	753223	6.78%	0.239%

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Manual IntegrationsAPPROVED

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							Instrument : FID_G	
							ClientSampleId : ETGI-275MSD	
195	16.237	16.181	16.268	VV	298235	4863135	43.76%	1.540%
196	16.282	16.268	16.318	VV	26820	756478	Manual IntegrationsAPPROVED	
197	16.330	16.318	16.350	VV	24114	439658		
198	16.363	16.350	16.382	VV	24052	455970		
199	16.427	16.382	16.448	VV	31355	1075823		
200	16.469	16.448	16.492	VV	35954	809487		
201	16.513	16.492	16.548	VV	37814	1105250	9.95%	0.350%
202	16.578	16.548	16.598	VV	38361	1030645	9.27%	0.326%
203	16.629	16.598	16.653	VV	46774	1295287	11.66%	0.410%
204	16.673	16.653	16.687	VV	39947	746427	6.72%	0.236%
205	16.726	16.687	16.741	VV	449476	7253056	65.27%	2.297%
206	16.756	16.741	16.825	VV	394619	5844750	52.59%	1.851%
207	16.853	16.825	16.874	VV	50733	1183973	10.65%	0.375%
208	16.886	16.874	16.901	VV	38796	589433	5.30%	0.187%
209	16.915	16.901	16.931	VV	35032	605456	5.45%	0.192%
210	16.946	16.931	16.961	VV	34270	592952	5.34%	0.188%
211	17.010	16.961	17.027	VV	147426	2807987	25.27%	0.889%
212	17.043	17.027	17.075	VV	136598	2286761	20.58%	0.724%
213	17.106	17.075	17.151	VV	352345	5554216	49.98%	1.759%
214	17.189	17.151	17.238	VV	295923	5681218	51.12%	1.799%
215	17.262	17.238	17.278	VV	41030	890530	8.01%	0.282%
216	17.299	17.278	17.328	VV	42268	1159326	10.43%	0.367%
217	17.350	17.328	17.388	VV	41807	1382501	12.44%	0.438%
218	17.449	17.388	17.471	VV	43059	1921241	17.29%	0.608%
219	17.486	17.471	17.544	VV	42370	1619515	14.57%	0.513%
220	17.568	17.544	17.585	VV	38592	871559	7.84%	0.276%
221	17.603	17.585	17.618	VV	41188	800489	7.20%	0.254%
222	17.636	17.618	17.677	VV	44908	1345358	12.11%	0.426%
223	17.695	17.677	17.715	VV	34873	748045	6.73%	0.237%
224	17.731	17.715	17.741	VV	35366	544463	4.90%	0.172%
225	17.765	17.741	17.785	VV	39979	976341	8.79%	0.309%
226	17.802	17.785	17.865	VV	36817	1584257	14.26%	0.502%
227	17.921	17.865	17.949	VV	34979	1654494	14.89%	0.524%
228	17.976	17.949	18.000	VV	35506	1026820	9.24%	0.325%
229	18.012	18.000	18.031	VV	35082	639087	5.75%	0.202%
230	18.080	18.031	18.141	VV	287476	5758397	51.82%	1.824%
231	18.173	18.141	18.203	VV	42389	1420929	12.79%	0.450%
232	18.217	18.203	18.238	VV	44006	873395	7.86%	0.277%
233	18.257	18.238	18.295	VV	41832	1333852	12.00%	0.422%
234	18.303	18.295	18.325	VV	37965	634761	5.71%	0.201%
235	18.388	18.325	18.411	VV	54300	2048800	18.44%	0.649%
236	18.486	18.411	18.502	VV	305594	6065580	54.58%	1.921%
237	18.519	18.502	18.563	VV	263130	4578431	41.20%	1.450%
238	18.584	18.563	18.598	VV	45463	927002	8.34%	0.294%
239	18.615	18.598	18.633	VV	47794	932707	8.39%	0.295%
240	18.648	18.633	18.685	VV	45432	1279949	11.52%	0.405%
241	18.741	18.685	18.838	VV	279333	6889023	61.99%	2.182%
242	18.913	18.838	18.971	VV	269029	6226231	56.03%	1.972%
243	19.009	18.971	19.035	VV	46920	1488135	13.39%	0.471%
244	19.057	19.035	19.128	VV	39981	2045187	18.40%	0.648%
245	19.181	19.128	19.244	VV	39060	2517980	22.66%	0.797%
246	19.273	19.244	19.372	VV	57432	3279489	29.51%	1.039%

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247	19.445	19.372	19.475	VV	44155	2361628	21.25%	0.748%
248	19.503	19.475	19.529	VV	38935	1179406	10.85%	0.313%
249	19.539	19.529	19.548	VV	35863	404410	3.85%	0.113%
250	19.570	19.548	19.655	VV	36563	2202584	19.26%	0.537%
251	19.698	19.655	19.781	VV	258246	6212592	58.89%	0.313%
252	19.808	19.781	19.844	VV	40699	1410548	12.85%	0.487%
253	19.866	19.844	19.887	VV	39931	988019	8.89%	0.313%
254	19.908	19.887	19.951	VV	45758	1538938	13.85%	0.487%
255	19.982	19.951	20.018	VV	49358	1696094	15.26%	0.537%
256	20.039	20.018	20.088	VV	46700	1778459	16.00%	0.563%
257	20.115	20.088	20.162	VV	41264	1677125	15.09%	0.531%
258	20.235	20.162	20.259	VV	37269	2090612	18.81%	0.662%
259	20.303	20.259	20.358	VV	45518	2392037	21.52%	0.758%
260	20.375	20.358	20.401	VV	38034	953831	8.58%	0.302%
261	20.439	20.401	20.479	VV	251665	4726905	42.54%	1.497%
262	20.511	20.479	20.550	VV	39435	1604213	14.44%	0.508%
263	20.559	20.550	20.565	VV	40110	357081	3.21%	0.113%
264	20.601	20.565	20.621	VV	41236	1347155	12.12%	0.427%
265	20.627	20.621	20.705	VV	38822	1777359	15.99%	0.563%
266	20.732	20.705	20.754	VV	35026	1002298	9.02%	0.317%
267	20.785	20.754	20.855	VV	35223	2053970	18.48%	0.650%
268	20.864	20.855	20.891	VV	32116	684964	6.16%	0.217%
269	20.907	20.891	21.043	VV	32170	2609943	23.49%	0.827%
270	21.057	21.043	21.077	VV	26817	523208	4.71%	0.166%
271	21.103	21.077	21.136	VV	25715	865002	7.78%	0.274%
272	21.180	21.136	21.255	VV	182542	4533328	40.79%	1.436%
273	21.265	21.255	21.296	VV	19602	473928	4.26%	0.150%
274	21.313	21.296	21.325	VV	18973	316847	2.85%	0.100%
275	21.340	21.325	21.392	VV	18614	701584	6.31%	0.222%
276	21.398	21.392	21.577	VV	16805	1479928	13.32%	0.469%
277	21.587	21.577	21.596	VV	11375	120781	1.09%	0.038%
278	21.624	21.596	21.645	VV	11871	330211	2.97%	0.105%
279	21.657	21.645	21.682	VV	11892	245477	2.21%	0.078%
280	21.696	21.682	21.717	VV	10752	215639	1.94%	0.068%
281	21.742	21.717	21.770	VV	10938	311705	2.80%	0.099%
282	21.783	21.770	21.826	VV	9057	265505	2.39%	0.084%
283	21.834	21.826	21.991	VV	8232	360626	3.25%	0.114%
284	22.101	21.991	22.178	VV	128896	3123042	28.10%	0.989%
285	22.186	22.178	22.192	PV	1420	5573	0.05%	0.002%

Sum of corrected areas: 315769885

Aliphatic EPH 041725.M Wed Apr 23 03:00:13 2025

Instrument :

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Reviewed By :Yogesh Patel 04/23/2025

Supervised By :mohammad ahmed 04/24/2025



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:	FE042225AL	Instrument	FID_e
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1832-34DL	FE053458.D	1-chlorooctadecane (SURR)	yogesh	4/22/2025 2:53:20 PM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053461.D	n-Hexatriacontane (C36)	yogesh	4/23/2025 7:47:23 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053461.D	n-Octatriacontane (C38)	yogesh	4/23/2025 7:47:23 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053461.D	n-Tetracontane (C40)	yogesh	4/23/2025 7:47:23 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
Q1842-41	FE053477.D	1-chlorooctadecane (SURR)	yogesh	4/23/2025 7:47:21 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053479.D	n-Dotriacontane (C32)	yogesh	4/23/2025 7:47:24 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053479.D	n-Hexatriacontane (C36)	yogesh	4/23/2025 7:47:24 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053479.D	n-Octatriacontane (C38)	yogesh	4/23/2025 7:47:24 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
Q1848-02	FE053481.D	1-chlorooctadecane (SURR)	yogesh	4/23/2025 7:47:26 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053489.D	n-Dotriacontane (C32)	yogesh	4/23/2025 7:48:06 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053489.D	n-Hexatriacontane (C36)	yogesh	4/23/2025 7:48:06 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053489.D	n-Octatriacontane (C38)	yogesh	4/23/2025 7:48:06 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE053489.D	n-Tetracontane (C40)	yogesh	4/23/2025 7:48:06 AM	mohammad	4/24/2025 6:34:11	Peak Integrated by Software



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By

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Reason

Manual Integration Report

Sequence:

FG041725AL

Instrument

FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167630BS	FG015690.D	n-Tetracosane (C24)	yogesh	4/18/2025 7:31:59 AM	mohammad	4/21/2025 1:16:37	Peak Integrated by Software
PB167630BSD	FG015691.D	n-Tetracosane (C24)	yogesh	4/18/2025 7:32:00 AM	mohammad	4/21/2025 1:16:37	Peak Integrated by Software
Q1818-03MS	FG015694.D	n-Tetracosane (C24)	yogesh	4/18/2025 7:32:02 AM	mohammad	4/21/2025 1:16:37	Peak Integrated by Software
Q1818-03MSD	FG015695.D	n-Tetracosane (C24)	yogesh	4/18/2025 7:32:04 AM	mohammad	4/21/2025 1:16:37	Peak Integrated by Software

Manual Integration Report

Sequence:

FG042225AL

Instrument

FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167690BS	FG015735.D	n-Tetracosane (C24)	yogesh	4/23/2025 7:33:13 AM	mohammad	4/24/2025 6:34:05	Peak Integrated by Software
PB167690BSD	FG015736.D	n-Tetracosane (C24)	yogesh	4/23/2025 7:33:15 AM	mohammad	4/24/2025 6:34:05	Peak Integrated by Software
Q1848-03	FG015737.D	ortho-Terphenyl (SURR)	yogesh	4/23/2025 7:33:16 AM	mohammad	4/24/2025 6:34:05	Peak Integrated by Software
Q1848-03MS	FG015739.D	n-Octacosane (C28)	yogesh	4/23/2025 7:33:18 AM	mohammad	4/24/2025 6:34:05	Peak Integrated by Software
Q1848-03MS	FG015739.D	n-Tricontane (C30)	yogesh	4/23/2025 7:33:18 AM	mohammad	4/24/2025 6:34:05	Peak Integrated by Software
Q1848-03MSD	FG015740.D	n-Octacosane (C28)	yogesh	4/23/2025 7:33:20 AM	mohammad	4/24/2025 6:34:05	Peak Integrated by Software
Q1848-03MSD	FG015740.D	n-Tetracontane (C40)	yogesh	4/23/2025 7:33:20 AM	mohammad	4/24/2025 6:34:05	Peak Integrated by Software

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 # FE042225AL

Review By	yogesh	Review On	4/22/2025 10:39:58 AM
Supervise By	mohammad	Supervise On	4/24/2025 6:34:11 AM
SubDirectory	FE042225AL	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	FE053455.D	22 Apr 2025 07:37	YP\AJ	Ok
2	I.BLK	FE053456.D	22 Apr 2025 08:07	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE053457.D	22 Apr 2025 08:37	YP\AJ	Ok
4	Q1832-34DL	FE053458.D	22 Apr 2025 09:38	YP\AJ	Ok,M
5	Q1840-01DL	FE053459.D	22 Apr 2025 10:08	YP\AJ	Ok
6	I.BLK	FE053460.D	22 Apr 2025 11:08	YP\AJ	Ok
7	20 PPM ALIPHATIC HC STD	FE053461.D	22 Apr 2025 11:39	YP\AJ	Ok,M
8	Q1842-05	FE053462.D	22 Apr 2025 12:44	YP\AJ	Ok
9	Q1842-09	FE053463.D	22 Apr 2025 13:14	YP\AJ	Ok
10	Q1842-10	FE053464.D	22 Apr 2025 13:45	YP\AJ	Ok
11	Q1842-11	FE053465.D	22 Apr 2025 14:15	YP\AJ	Ok
12	Q1842-15	FE053466.D	22 Apr 2025 14:45	YP\AJ	Ok
13	Q1842-16	FE053467.D	22 Apr 2025 15:15	YP\AJ	Ok
14	Q1842-17	FE053468.D	22 Apr 2025 15:45	YP\AJ	Ok
15	Q1842-21	FE053469.D	22 Apr 2025 16:15	YP\AJ	Ok
16	Q1842-28	FE053470.D	22 Apr 2025 16:46	YP\AJ	Ok
17	Q1842-29	FE053471.D	22 Apr 2025 17:16	YP\AJ	Ok
18	Q1842-33	FE053472.D	22 Apr 2025 17:46	YP\AJ	Ok
19	Q1842-34	FE053473.D	22 Apr 2025 18:16	YP\AJ	Ok
20	Q1842-35	FE053474.D	22 Apr 2025 18:46	YP\AJ	Ok
21	Q1842-39	FE053475.D	22 Apr 2025 19:16	YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE042225AL

Review By	yogesh	Review On	4/22/2025 10:39:58 AM
Supervise By	mohammad	Supervise On	4/24/2025 6:34:11 AM
SubDirectory	FE042225AL	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		

22	Q1842-40	FE053476.D	22 Apr 2025 19:47	YP\AJ	Ok
23	Q1842-41	FE053477.D	22 Apr 2025 20:17	YP\AJ	Ok,M
24	I.BLK	FE053478.D	22 Apr 2025 21:17	YP\AJ	Ok
25	20 PPM ALIPHATIC HC STD	FE053479.D	22 Apr 2025 21:47	YP\AJ	Ok,M
26	Q1848-01	FE053480.D	22 Apr 2025 22:47	YP\AJ	Ok
27	Q1848-02	FE053481.D	22 Apr 2025 23:18	YP\AJ	Ok,M
28	Q1847-03	FE053482.D	22 Apr 2025 23:48	YP\AJ	Dilution
29	Q1850-01	FE053483.D	23 Apr 2025 00:18	YP\AJ	Dilution
30	Q1851-01	FE053484.D	23 Apr 2025 00:48	YP\AJ	Ok
31	Q1851-02	FE053485.D	23 Apr 2025 01:18	YP\AJ	Ok
32	Q1851-03	FE053486.D	23 Apr 2025 01:48	YP\AJ	Ok
33	Q1851-04	FE053487.D	23 Apr 2025 02:18	YP\AJ	Ok
34	I.BLK	FE053488.D	23 Apr 2025 03:19	YP\AJ	Ok
35	20 PPM ALIPHATIC HC STD	FE053489.D	23 Apr 2025 03:49	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG041725AL

Review By	yogesh	Review On	4/17/2025 1:27:34 PM
Supervise By	mohammad	Supervise On	4/21/2025 1:16:37 AM
SubDirectory	FG041725AL	HP Acquire Method	HP Processing Method FG041725AL
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	FG015679.D	17 Apr 2025 09:21	YP\AJ	Ok
2	I.BLK	FG015680.D	17 Apr 2025 09:50	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FG015681.D	17 Apr 2025 10:19	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FG015682.D	17 Apr 2025 10:48	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FG015683.D	17 Apr 2025 11:17	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FG015684.D	17 Apr 2025 11:47	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FG015685.D	17 Apr 2025 12:16	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FG015686.D	17 Apr 2025 12:45	YP\AJ	Ok
9	I.BLK	FG015687.D	17 Apr 2025 13:15	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FG015688.D	17 Apr 2025 13:44	YP\AJ	Ok
11	PB167630BL	FG015689.D	17 Apr 2025 15:28	YP\AJ	Ok
12	PB167630BS	FG015690.D	17 Apr 2025 15:57	YP\AJ	Ok,M
13	PB167630BSD	FG015691.D	17 Apr 2025 16:26	YP\AJ	Ok,M
14	Q1818-03	FG015692.D	17 Apr 2025 16:55	YP\AJ	Ok
15	Q1818-03D	FG015693.D	17 Apr 2025 17:24	YP\AJ	Ok
16	Q1818-03MS	FG015694.D	17 Apr 2025 17:54	YP\AJ	Ok,M
17	Q1818-03MSD	FG015695.D	17 Apr 2025 18:23	YP\AJ	Ok,M
18	Q1818-04	FG015696.D	17 Apr 2025 20:20	YP\AJ	Ok
19	I.BLK	FG015697.D	17 Apr 2025 21:19	YP\AJ	Ok
20	20 PPM ALIPHATIC HC STD	FG015698.D	17 Apr 2025 21:48	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG042225AL

Review By	yogesh	Review On	4/22/2025 1:33:58 PM
Supervise By	mohammad	Supervise On	4/24/2025 6:34:05 AM
SubDirectory	FG042225AL	HP Acquire Method	HP Processing Method FG041725AL
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	FG015731.D	22 Apr 2025 08:42	YP\AJ	Ok
2	I.BLK	FG015732.D	22 Apr 2025 11:39	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FG015733.D	22 Apr 2025 12:08	YP\AJ	Ok
4	PB167690BL	FG015734.D	22 Apr 2025 13:48	YP\AJ	Ok
5	PB167690BS	FG015735.D	22 Apr 2025 14:18	YP\AJ	Ok,M
6	PB167690BSD	FG015736.D	22 Apr 2025 14:47	YP\AJ	Ok,M
7	Q1848-03	FG015737.D	22 Apr 2025 15:16	YP\AJ	Dilution
8	Q1848-03D	FG015738.D	22 Apr 2025 15:46	YP\AJ	Ok
9	Q1848-03MS	FG015739.D	22 Apr 2025 16:15	YP\AJ	Ok,M
10	Q1848-03MSD	FG015740.D	22 Apr 2025 16:45	YP\AJ	Ok,M
11	Q1848-04	FG015741.D	22 Apr 2025 17:14	YP\AJ	Dilution
12	Q1848-05	FG015742.D	22 Apr 2025 17:43	YP\AJ	Ok
13	Q1848-06	FG015743.D	22 Apr 2025 18:13	YP\AJ	Dilution
14	I.BLK	FG015744.D	22 Apr 2025 19:11	YP\AJ	Ok
15	20 PPM ALIPHATIC HC STD	FG015745.D	22 Apr 2025 19:41	YP\AJ	Ok

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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 # FE042225AL

Review By	yogesh	Review On	4/22/2025 10:39:58 AM
Supervise By	mohammad	Supervise On	4/24/2025 6:34:11 AM
SubDirectory	FE042225AL	HP Acquire Method	HP Processing Method FE041725AL
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	FE053455.D	22 Apr 2025 07:37		YP\AJ	Ok
2	I.BLK	I.BLK	FE053456.D	22 Apr 2025 08:07		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053457.D	22 Apr 2025 08:37		YP\AJ	Ok
4	Q1832-34DL	PL-714-17DL	FE053458.D	22 Apr 2025 09:38		YP\AJ	Ok,M
5	Q1840-01DL	OK-04-04182025DL	FE053459.D	22 Apr 2025 10:08		YP\AJ	Ok
6	I.BLK	I.BLK	FE053460.D	22 Apr 2025 11:08		YP\AJ	Ok
7	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053461.D	22 Apr 2025 11:39		YP\AJ	Ok,M
8	Q1842-05	PL-714-24	FE053462.D	22 Apr 2025 12:44		YP\AJ	Ok
9	Q1842-09	PL-714-25	FE053463.D	22 Apr 2025 13:14		YP\AJ	Ok
10	Q1842-10	PL-714-26	FE053464.D	22 Apr 2025 13:45		YP\AJ	Ok
11	Q1842-11	PL-714-27	FE053465.D	22 Apr 2025 14:15		YP\AJ	Ok
12	Q1842-15	PL-714-28	FE053466.D	22 Apr 2025 14:45		YP\AJ	Ok
13	Q1842-16	PL-714-29	FE053467.D	22 Apr 2025 15:15		YP\AJ	Ok
14	Q1842-17	PL-714-30	FE053468.D	22 Apr 2025 15:45		YP\AJ	Ok
15	Q1842-21	PL-714-31	FE053469.D	22 Apr 2025 16:15		YP\AJ	Ok
16	Q1842-28	PL-714-35	FE053470.D	22 Apr 2025 16:46		YP\AJ	Ok
17	Q1842-29	PL-714-36	FE053471.D	22 Apr 2025 17:16		YP\AJ	Ok
18	Q1842-33	PL-714-37	FE053472.D	22 Apr 2025 17:46		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE042225AL

Review By	yogesh	Review On	4/22/2025 10:39:58 AM
Supervise By	mohammad	Supervise On	4/24/2025 6:34:11 AM
SubDirectory	FE042225AL	HP Acquire Method	HP Processing Method FE041725AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC	PP24176		
Internal Standard/PEM	PP24174,PP24179		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1842-34	PL-714-38	FE053473.D	22 Apr 2025 18:16		YPIAJ	Ok
20	Q1842-35	PL-714-39	FE053474.D	22 Apr 2025 18:46		YPIAJ	Ok
21	Q1842-39	PL-714-40	FE053475.D	22 Apr 2025 19:16		YPIAJ	Ok
22	Q1842-40	PL-714-41	FE053476.D	22 Apr 2025 19:47		YPIAJ	Ok
23	Q1842-41	PL-714-42	FE053477.D	22 Apr 2025 20:17		YPIAJ	Ok,M
24	I.BLK	I.BLK	FE053478.D	22 Apr 2025 21:17		YPIAJ	Ok
25	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053479.D	22 Apr 2025 21:47		YPIAJ	Ok,M
26	Q1848-01	RBR200027	FE053480.D	22 Apr 2025 22:47		YPIAJ	Ok
27	Q1848-02	RBR200027-E2	FE053481.D	22 Apr 2025 23:18		YPIAJ	Ok,M
28	Q1847-03	PAD-42125	FE053482.D	22 Apr 2025 23:48	need 10x & 100x dilution	YPIAJ	Dilution
29	Q1850-01	CONCRETE-PILE-N-C	FE053483.D	23 Apr 2025 00:18	need 10x dilution	YPIAJ	Dilution
30	Q1851-01	DP5	FE053484.D	23 Apr 2025 00:48		YPIAJ	Ok
31	Q1851-02	DP6	FE053485.D	23 Apr 2025 01:18		YPIAJ	Ok
32	Q1851-03	DP7	FE053486.D	23 Apr 2025 01:48		YPIAJ	Ok
33	Q1851-04	DP8	FE053487.D	23 Apr 2025 02:18		YPIAJ	Ok
34	I.BLK	I.BLK	FE053488.D	23 Apr 2025 03:19		YPIAJ	Ok
35	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE053489.D	23 Apr 2025 03:49		YPIAJ	Ok,M

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG041725AL

Review By	yogesh	Review On	4/17/2025 1:27:34 PM
Supervise By	mohammad	Supervise On	4/21/2025 1:16:37 AM
SubDirectory	FG041725AL	HP Acquire Method	HP Processing Method FG041725AL

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	FG015679.D	17 Apr 2025 09:21		YPIAJ	Ok
2	I.BLK	I.BLK	FG015680.D	17 Apr 2025 09:50		YPIAJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FG015681.D	17 Apr 2025 10:19		YPIAJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FG015682.D	17 Apr 2025 10:48		YPIAJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015683.D	17 Apr 2025 11:17		YPIAJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FG015684.D	17 Apr 2025 11:47		YPIAJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FG015685.D	17 Apr 2025 12:16		YPIAJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015686.D	17 Apr 2025 12:45		YPIAJ	Ok
9	I.BLK	I.BLK	FG015687.D	17 Apr 2025 13:15		YPIAJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015688.D	17 Apr 2025 13:44		YPIAJ	Ok
11	PB167630BL	PB167630BL	FG015689.D	17 Apr 2025 15:28		YPIAJ	Ok
12	PB167630BS	PB167630BS	FG015690.D	17 Apr 2025 15:57		YPIAJ	Ok,M
13	PB167630BSD	PB167630BSD	FG015691.D	17 Apr 2025 16:26		YPIAJ	Ok,M
14	Q1818-03	RT-3873	FG015692.D	17 Apr 2025 16:55		YPIAJ	Ok
15	Q1818-03D	Q1818-03D	FG015693.D	17 Apr 2025 17:24		YPIAJ	Ok
16	Q1818-03MS	RT-3873MS	FG015694.D	17 Apr 2025 17:54	FG015692.D	YPIAJ	Ok,M
17	Q1818-03MSD	RT-3873MSD	FG015695.D	17 Apr 2025 18:23	FG015692.D!FG015694.D	YPIAJ	Ok,M
18	Q1818-04	RT-3873-E2	FG015696.D	17 Apr 2025 20:20		YPIAJ	Ok

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG041725AL

Review By	yogesh	Review On	4/17/2025 1:27:34 PM
Supervise By	mohammad	Supervise On	4/21/2025 1:16:37 AM
SubDirectory	FG041725AL	HP Acquire Method	HP Processing Method FG041725AL

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	FG015697.D	17 Apr 2025 21:19		YP\AJ	Ok
20	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015698.D	17 Apr 2025 21:48		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QC Batch ID # FG042225AL

Review By	yogesh	Review On	4/22/2025 1:33:58 PM
Supervise By	mohammad	Supervise On	4/24/2025 6:34:05 AM
SubDirectory	FG042225AL	HP Acquire Method	HP Processing Method FG041725AL
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	FG015731.D	22 Apr 2025 08:42		YP\AJ	Ok
2	I.BLK	I.BLK	FG015732.D	22 Apr 2025 11:39		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015733.D	22 Apr 2025 12:08		YP\AJ	Ok
4	PB167690BL	PB167690BL	FG015734.D	22 Apr 2025 13:48		YP\AJ	Ok
5	PB167690BS	PB167690BS	FG015735.D	22 Apr 2025 14:18		YP\AJ	Ok,M
6	PB167690BSD	PB167690BSD	FG015736.D	22 Apr 2025 14:47		YP\AJ	Ok,M
7	Q1848-03	ETGI-275	FG015737.D	22 Apr 2025 15:16	need 5x dilution	YP\AJ	Dilution
8	Q1848-03D	Q1848-03D	FG015738.D	22 Apr 2025 15:46		YP\AJ	Ok
9	Q1848-03MS	ETGI-275MS	FG015739.D	22 Apr 2025 16:15	FG015737.D	YP\AJ	Ok,M
10	Q1848-03MSD	ETGI-275MSD	FG015740.D	22 Apr 2025 16:45	FG015737.D\FG015739.D	YP\AJ	Ok,M
11	Q1848-04	ETGI-275-E2	FG015741.D	22 Apr 2025 17:14	need 2x dilution	YP\AJ	Dilution
12	Q1848-05	ETGI-342	FG015742.D	22 Apr 2025 17:43		YP\AJ	Ok
13	Q1848-06	ETGI-342-E2	FG015743.D	22 Apr 2025 18:13	need 5x dilution	YP\AJ	Dilution
14	I.BLK	I.BLK	FG015744.D	22 Apr 2025 19:11		YP\AJ	Ok
15	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015745.D	22 Apr 2025 19:41		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/22/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135506

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
Q1837-15	FLORISIL CHECK	1	1.00	1.00	2.00	2.00	100.0	
Q1845-01	GAS-PIPE-1	2	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1846-01	JEI294J-1-1	12	1.00	1.00	2.00	2.00	100.0	pile
Q1846-02	JEI294J-1-2	13	1.00	1.00	2.00	2.00	100.0	pile
Q1847-01	MOO-25-0121	14	1.18	10.13	11.31	10.13	88.4	
Q1847-02	MOO-25-0122	15	1.15	9.96	11.11	10.58	94.7	
Q1847-03	PAD-24125	16	1.18	10.49	11.67	11.22	95.7	
Q1848-01	RBR200027	17	1.13	10.13	11.26	10.14	88.9	
Q1848-02	RBR200027-E2	18	1.15	10.37	11.52	9.94	84.8	
Q1848-03	ETGI-275	19	1.18	10.98	12.16	10.61	85.9	
Q1848-04	ETGI-275-E2	20	1.17	9.95	11.12	9.8	86.7	
Q1848-05	ETGI-342	21	1.14	10.56	11.7	10.38	87.5	
Q1848-06	ETGI-342-E2	22	1.16	10.33	11.49	10.15	87.0	
Q1850-01	CONCRETE-PILE-N-C-LOT	3	1.00	1.00	2.00	2.00	100.0	CONCRETE- PILE
Q1850-02	CONCRETE-PILE-N-C-LOT	4	1.00	1.00	2.00	2.00	100.0	CONCRETE- PILE
Q1851-01	DP5	5	1.14	9.88	11.02	10.7	96.8	
Q1851-02	DP6	6	1.14	9.88	11.02	10.72	97.0	
Q1851-03	DP7	7	1.15	9.82	10.97	10.82	98.5	
Q1851-04	DP8	8	1.13	10.84	11.97	11.14	92.3	
Q1851-05	GP5	9	1.14	10.60	11.74	11.47	97.5	
Q1851-06	GP6	10	1.13	11.10	12.23	11.00	88.9	
Q1851-07	GP7	11	1.18	10.44	11.62	10.91	93.2	

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

WORKLIST(Hardcopy Internal Chain)

VB 133506

WorkList Name : %1-042125

WorkList ID : 189042

Department : Wet-Chemistry

Date : 04-21-2025 08:36:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1837-15	FLORISIL CHECK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L31	04/11/2025	Chemtech -SO
Q1845-01	GAS-PIPE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/21/2025	Chemtech -SO
Q1846-01	JEI294J-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/21/2025	Chemtech -SO
Q1846-02	JEI294J-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/21/2025	Chemtech -SO
Q1847-01	MOO-25-0121	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/21/2025	Chemtech -SO
Q1847-02	MOO-25-0122	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/21/2025	Chemtech -SO
Q1847-03	PAD-24125	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/21/2025	Chemtech -SO
Q1848-01	RBR200027	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/21/2025	Chemtech -SO
Q1848-02	RBR200027-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/21/2025	Chemtech -SO
Q1848-03	ETGI-275	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/21/2025	Chemtech -SO
Q1848-04	ETGI-275-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/21/2025	Chemtech -SO
Q1848-05	ETGI-342	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/21/2025	Chemtech -SO
Q1848-06	ETGI-342-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/21/2025	Chemtech -SO
Q1850-01	CONCRETE-PILE-N-C-LOT	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/21/2025	Chemtech -SO
Q1850-02	CONCRETE-PILE-N-C-LOT	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/21/2025	Chemtech -SO
Q1851-01	DP5	Solid	Percent Solids	Cool 4 deg C	GENV01	L31	04/21/2025	Chemtech -SO
Q1851-02	DP6	Solid	Percent Solids	Cool 4 deg C	GENV01	L31	04/21/2025	Chemtech -SO
Q1851-03	DP7	Solid	Percent Solids	Cool 4 deg C	GENV01	L31	04/21/2025	Chemtech -SO
Q1851-04	DP8	Solid	Percent Solids	Cool 4 deg C	GENV01	L31	04/21/2025	Chemtech -SO
Q1851-05	GP5	Solid	Percent Solids	Cool 4 deg C	GENV01	L31	04/21/2025	Chemtech -SO
Q1851-06	GP6	Solid	Percent Solids	Cool 4 deg C	GENV01	L31	04/21/2025	Chemtech -SO

Date/Time 04/21/25 15:00

Raw Sample Received by: SO WCC

Raw Sample Relinquished by: A.C. (sum)

Date/Time 04/21/25

Raw Sample Received by: F.C. SMI

Raw Sample Relinquished by: SO WCC

135506

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-042125

WorkList ID : 189042

Department : Wet-Chemistry

Date : 04-21-2025 08:36:29

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1851-07	GP7	Solid	Percent Solids	Cool 4 deg C	GENV01	L31	04/21/2025	Chemtech -SO

Date/Time04/21/2515:00

Raw Sample Received by:SP Wong

Raw Sample Relinquished by:Z.C (sm)

Date/Time04/21/2517:10

Raw Sample Received by:Z.C sm

Raw Sample Relinquished by:SP Wong

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A **Extraction Start Date :** 04/22/2025

Matrix : Solid **Extraction Start Time :** 09:40

Weigh By: EH **Extraction By:** RJ **Extraction End Date :** 04/22/2025

Balance check: RJ **Filter By:** RJ **Extraction End Time :** 13:40

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

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

Extraction Method: ☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standardized Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24462
Surrogate	1.0ML	100 PPM	PP24432
Fractionation Surrogate	1.0ML	100 PPM	PP24403
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	EP2604
Sand	N/A	E2865
Hexane	N/A	E3916
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

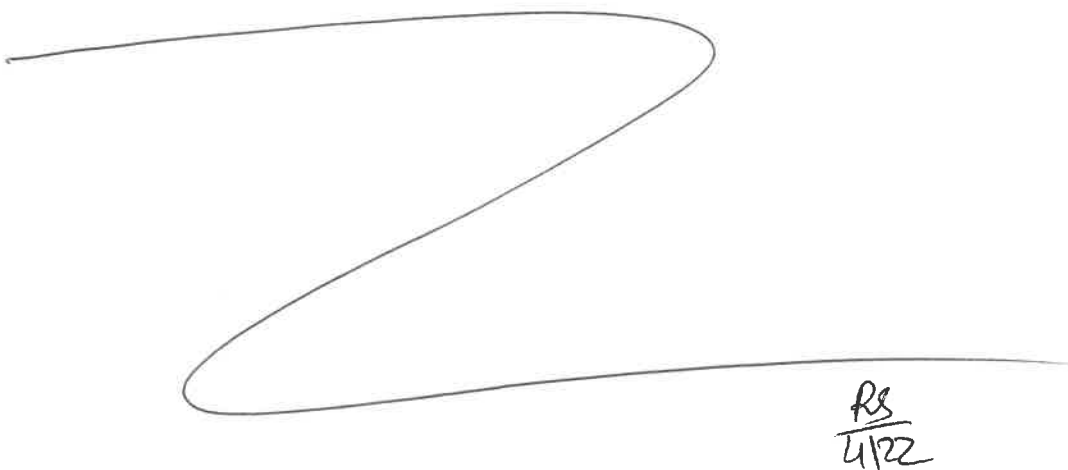
KD Bath Temperature: N/A **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
<u>4/22/25</u>	<u>RS (Ext Lab)</u>	<u>Y-p (Ext) PCB</u>
<u>13:45</u>	<u>Preparation Group</u>	<u>Analysis Group</u>

Analytical Method: MNJDEP-EPH-7

Concentration Date: 04/22/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167690BL	PB167690BL	EPH_NF	30.02	N/A	ritesh	Evelyn	2			U3-1
PB167690BS	PB167690BS	EPH_NF	30.03	N/A	ritesh	Evelyn	2			2
PB167690BSD	PB167690BSD	EPH_NF	30.02	N/A	ritesh	Evelyn	2			3
Q1847-03	PAD-24125	EPH_NF	30.07	N/A	ritesh	Evelyn	2	B	Stone	4
Q1848-01	RBR200027	EPH_NF	30.08	N/A	ritesh	Evelyn	2	E		5
Q1848-02	RBR200027-E2	EPH_NF	30.03	N/A	ritesh	Evelyn	2			6
Q1848-03	ETGI-275	EPH_NF	30.08	N/A	ritesh	Evelyn	2	E		U6-1
Q1848-03DUP	ETGI-275DUP	EPH_NF	30.03	N/A	ritesh	Evelyn	2	E		2
Q1848-03MS	ETGI-275MS	EPH_NF	30.02	N/A	ritesh	Evelyn	2	E		3
Q1848-03MSD	ETGI-275MSD	EPH_NF	30.01	N/A	ritesh	Evelyn	2	E		4
Q1848-04	ETGI-275-E2	EPH_NF	30.07	N/A	ritesh	Evelyn	2			5
Q1848-05	ETGI-342	EPH_NF	30.06	N/A	ritesh	Evelyn	2	E		6
Q1848-06	ETGI-342-E2	EPH_NF	30.02	N/A	ritesh	Evelyn	2			U1-1
Q1850-01	CONCRETE-PILE-N-C-LOT	EPH_NF	30.05	N/A	ritesh	Evelyn	2	D	Concrete	2
Q1851-01	DP5	EPH_NF	30.01	N/A	ritesh	Evelyn	2		Stone	3
Q1851-02	DP6	EPH_NF	30.06	N/A	ritesh	Evelyn	2		Stone	4
Q1851-03	DP7	EPH_NF	30.03	N/A	ritesh	Evelyn	2		Stone	5
Q1851-04	DP8	EPH_NF	30.06	N/A	ritesh	Evelyn	2		Stone	6



07:00
069491

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1851 WorkList ID : 189077 Department : Extraction Date : 04-22-2025 08:34:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1847-03	PAD-24125	Solid	EPH_NF	Cool 4 deg C	PSEG03	L41	04/21/2025	NJEPH
Q1848-01	RBR200027	Solid	EPH_NF	Cool 4 deg C	PSEG03	L31	04/21/2025	NJEPH
Q1848-02	RBR200027-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	L31	04/21/2025	NJEPH
Q1848-03	ETGI-275	Solid	EPH_NF	Cool 4 deg C	PSEG03	L31	04/21/2025	NJEPH
Q1848-04	ETGI-275-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	L31	04/21/2025	NJEPH
Q1848-05	ETGI-342	Solid	EPH_NF	Cool 4 deg C	PSEG03	L31	04/21/2025	NJEPH
Q1848-06	ETGI-342-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	L31	04/21/2025	NJEPH
Q1850-01	CONCRETE-PILE-N-C-LOT	Solid	EPH_NF	Cool 4 deg C	PSEG03	L31	04/21/2025	NJEPH
Q1851-01	DP5	Solid	EPH_NF	Cool 4 deg C	GENV01	L31	04/21/2025	NJEPH
Q1851-02	DP6	Solid	EPH_NF	Cool 4 deg C	GENV01	L31	04/21/2025	NJEPH
Q1851-03	DP7	Solid	EPH_NF	Cool 4 deg C	GENV01	L31	04/21/2025	NJEPH
Q1851-04	DP8	Solid	EPH_NF	Cool 4 deg C	GENV01	L31	04/21/2025	NJEPH

Date/Time 04/22/25 9:35
Raw Sample Received by: RS (Felt - (ab))
Raw Sample Relinquished by: AS SH

Date/Time 04/22/25 10:05
Raw Sample Received by: AS SH
Raw Sample Relinquished by: RS (Felt - (ab))

Prep Standard - Chemical Standard Summary

Order ID : Q1851

Test : EPH_NF

Prepbatch ID : PB167690,

Sequence ID/Qc Batch ID: FE042225AL,FG042225AL,

Standard ID :

EP2600,EP2604,PP24170,PP24174,PP24175,PP24176,PP24177,PP24178,PP24179,PP24403,PP24432,PP24462,

Chemical ID :

E2865,E3551,E3904,E3914,E3915,E3916,E3917,P12363,P12981,P12983,P12985,P12986,P12987,P12988,P13279,P13650,P13653,P13655,P13658,P13659,P13671,P13709,P13755,P13757,P13759,P13760,P13865,P13896,P13897,P13898,P13899,P13900,P13901,P13903,P13905,P13906,P13912,P13919,P13920,P13921,P13923,P13926,P13927,P13928,P13931,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	EP2604	04/16/2025	07/01/2025	RUPESEKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel
						(EX-SC-2)		04/16/2025

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>
1331	100 PPM NJEPH Fractionating Surrogate	PP24403	03/20/2025	09/19/2025	Abdul Mirza	None	None	Yogesh Patel
								04/02/2025

FROM 1.25000ml of P13755 + 1.25000ml of P13757 + 1.25000ml of P13759 + 1.25000ml of P13760 + 195.00000ml of E3914 = Final Quantity: 200.000 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>
1339	100 PPM NJEPH Surrogate Spike	PP24432	04/01/2025	09/26/2025	Abdul Mirza	None	None	Yogesh Patel 04/02/2025
<u>FROM</u>	1.25000ml of P12985 + 1.25000ml of P12986 + 1.25000ml of P12987 + 1.25000ml of P12988 + 1.25000ml of P13653 + 1.25000ml of P13655 + 1.25000ml of P13658 + 1.25000ml of P13659 + 490.00000ml of E3915 = Final Quantity: 500.000 ml							

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

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	09/19/2025	03/19/2025 / RUPESH	03/13/2025 / RUPESH	E3914

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	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

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

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	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 #
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	10/01/2025	04/01/2025 / Abdul	12/20/2023 / Yogesh	P12985

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	10/01/2025	04/01/2025 / Abdul	12/20/2023 / Yogesh	P12986

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	A0204989	10/01/2025	04/01/2025 / Abdul	12/20/2023 / Yogesh	P12987

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	10/01/2025	04/01/2025 / Abdul	12/20/2023 / Yogesh	P12988

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	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	10/01/2025	04/01/2025 / Abdul	10/16/2024 / yogesh	P13653

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	10/01/2025	04/01/2025 / Abdul	10/16/2024 / yogesh	P13655

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	10/01/2025	04/01/2025 / Abdul	10/16/2024 / yogesh	P13658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	10/01/2025	04/01/2025 / Abdul	10/16/2024 / yogesh	P13659

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	09/20/2025	03/20/2025 / Abdul	11/01/2024 / yogesh	P13755

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	09/20/2025	03/20/2025 / Abdul	11/01/2024 / yogesh	P13757

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	09/20/2025	03/20/2025 / Abdul	11/01/2024 / yogesh	P13759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	09/20/2025	03/20/2025 / Abdul	11/01/2024 / yogesh	P13760

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

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	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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0220449	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

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

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	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

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 #
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

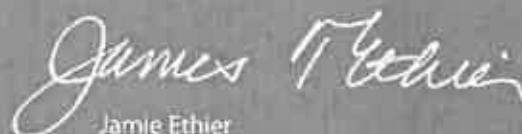
Certificate of Analysis

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
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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

Recd by RS on 3/14/25



E3914

Harout Sahagian - Quality Control Manager - Fair Lawn

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

*Based on suggested storage condition.

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Recd. by RS on 3/19/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Certificate of Analysis

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

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

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

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

N/A

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

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



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)

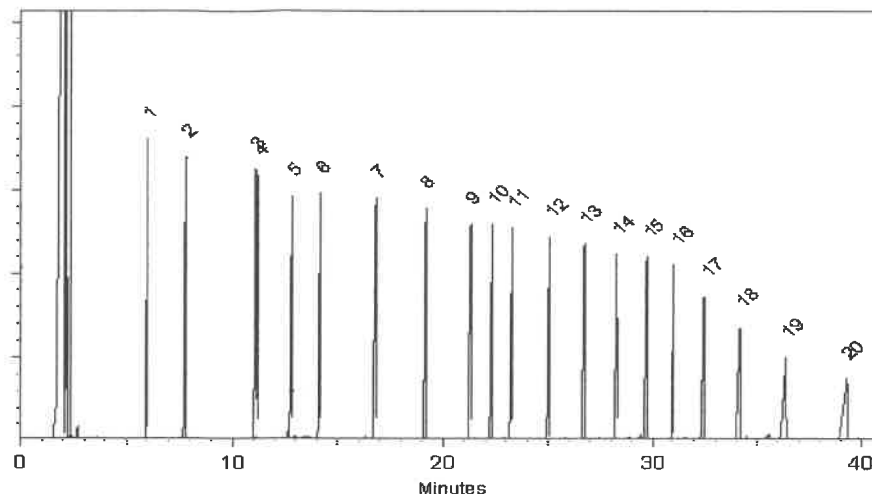
Carrier Gas:
hydrogen-constant pressure 10 psi.

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
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description: 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P12960
↓
P12991 } Y.P.
12/21/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

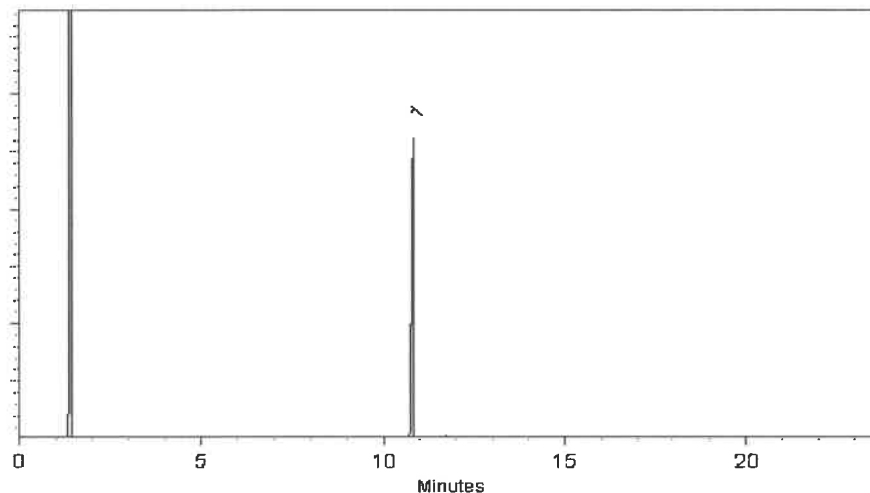
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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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:

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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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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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:

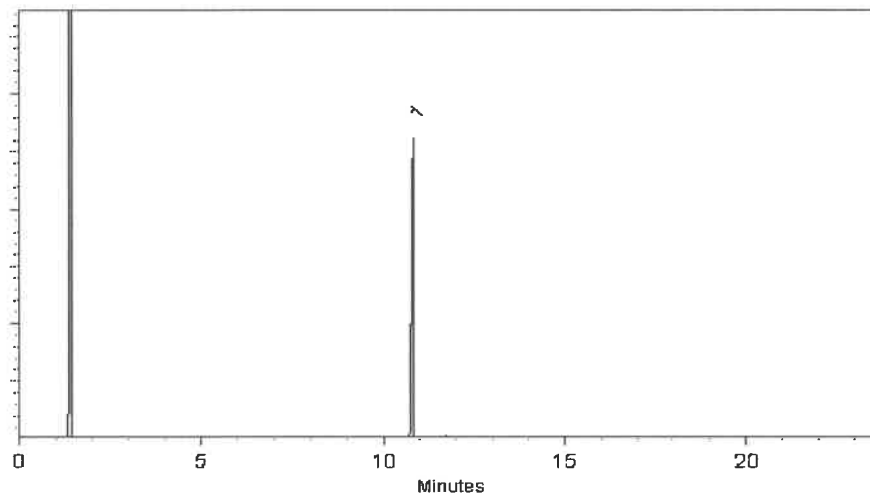
FID

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:

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

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

Manufacturing Notes:

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

Handling Notes:

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

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chromatographic plus



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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:

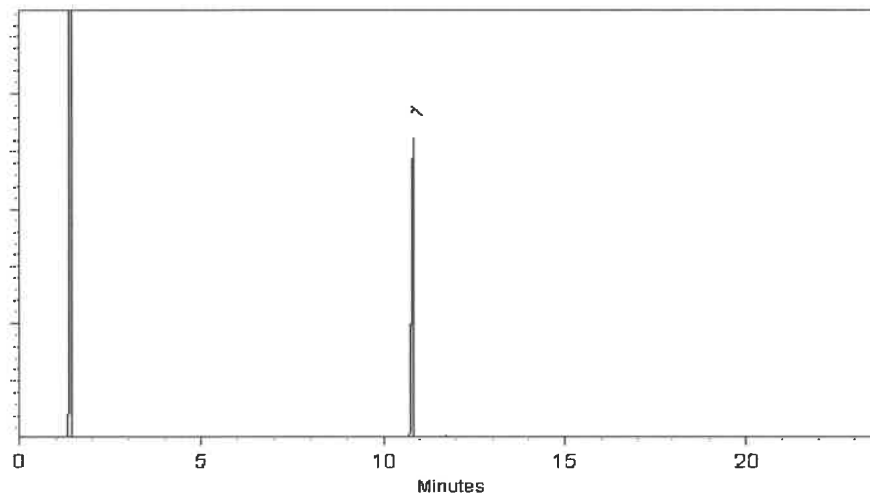
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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.
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- 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:

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

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:

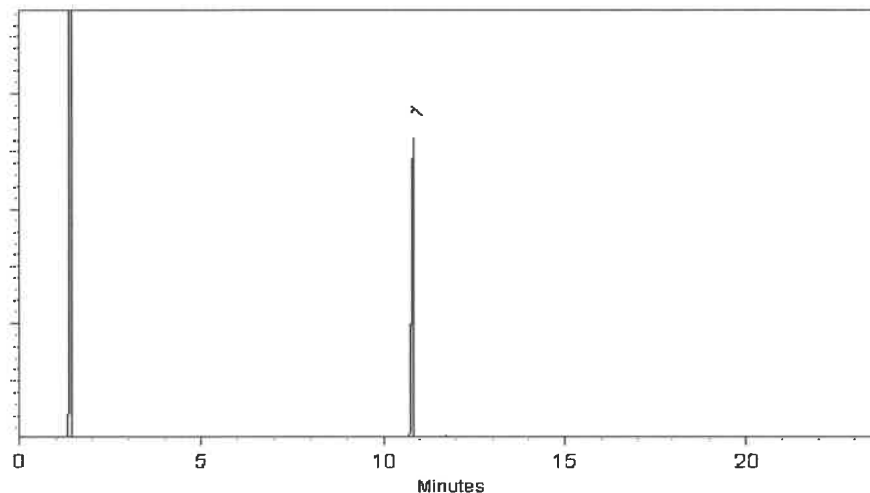
FID

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.
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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:

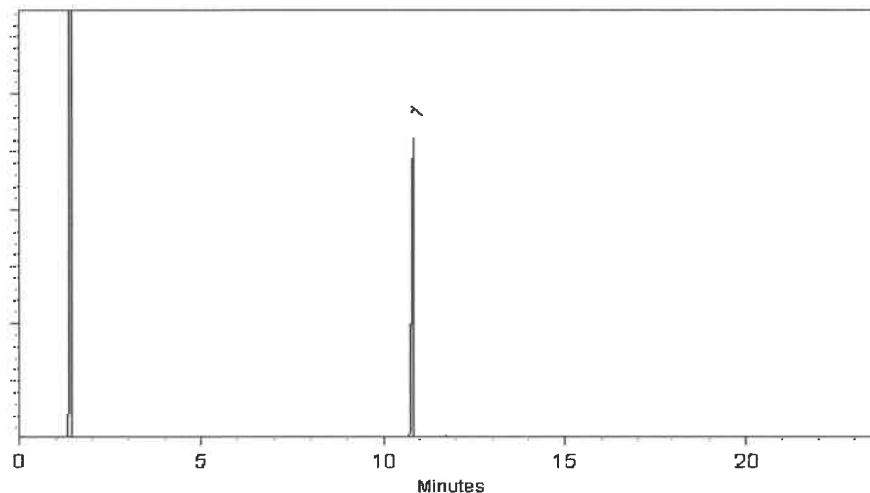
FID

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

Manufacturing Notes:

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Handling Notes:

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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:

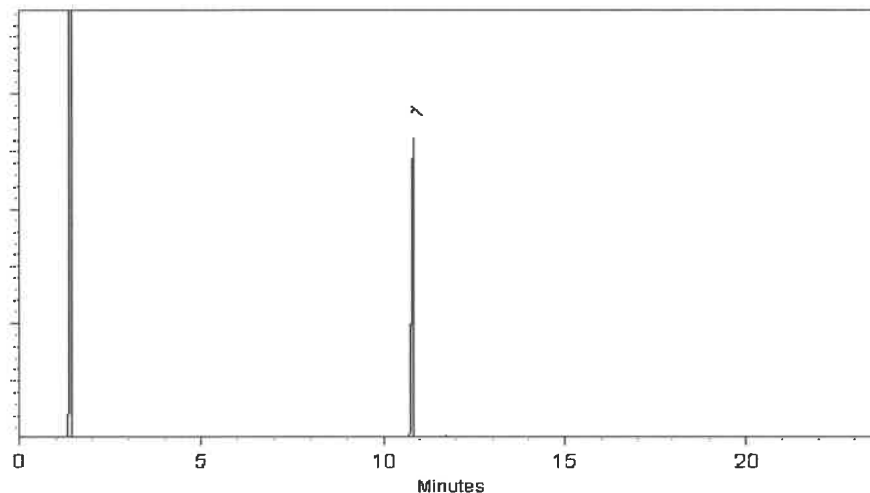
FID

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:

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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%.

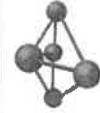
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

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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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-Tetraacontane	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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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:

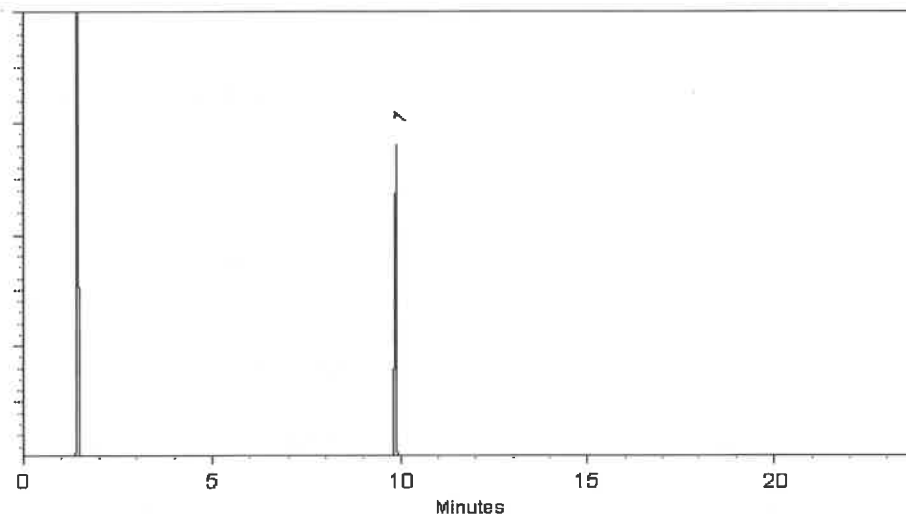
FID

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.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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

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

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Manufacturing Notes:

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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
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Inj. Temp:

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330°C

Det. Type:

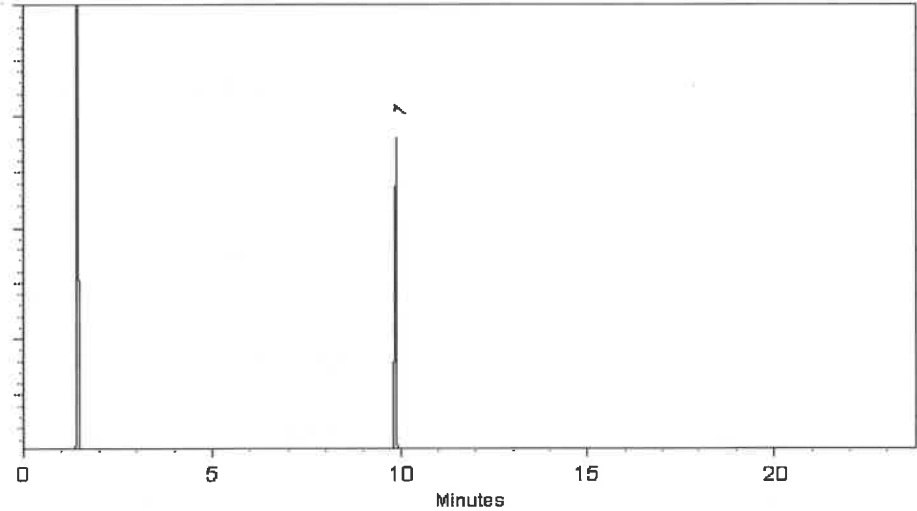
FID

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.
- 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:

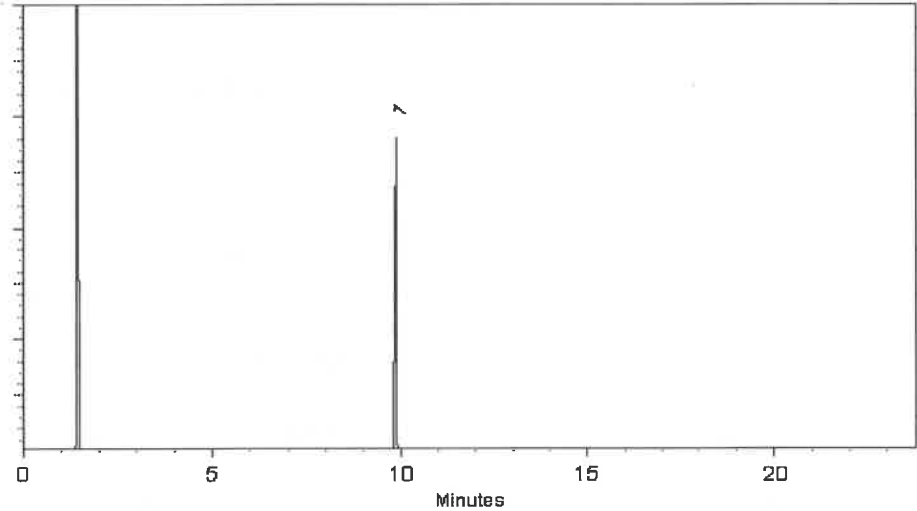
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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- 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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Manufacturing Notes:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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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:

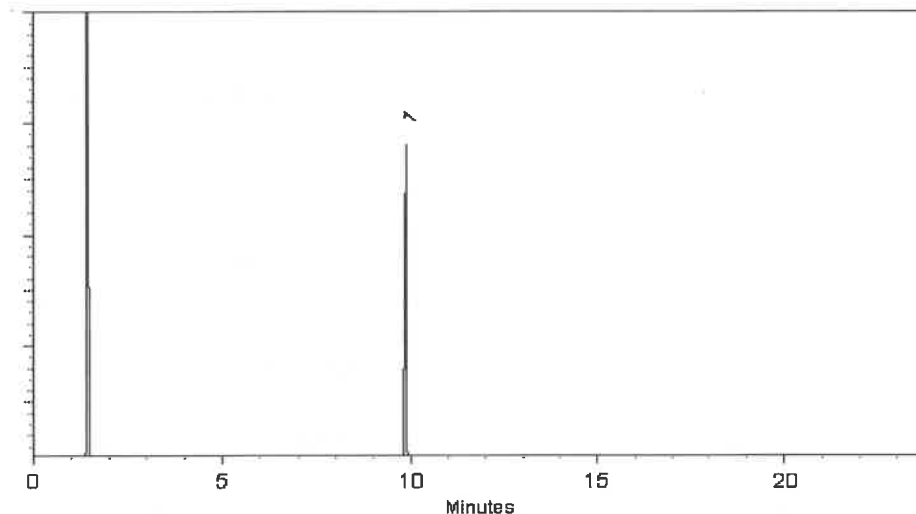
FID

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:

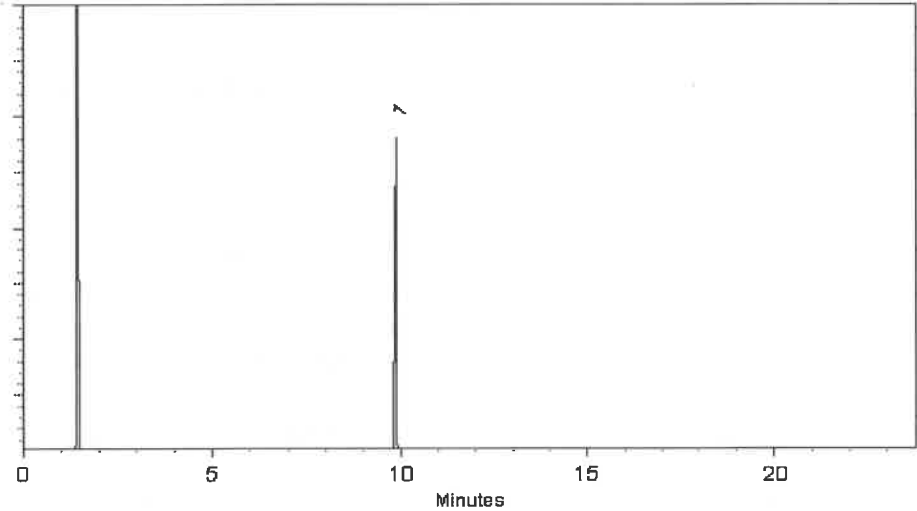
FID

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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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:

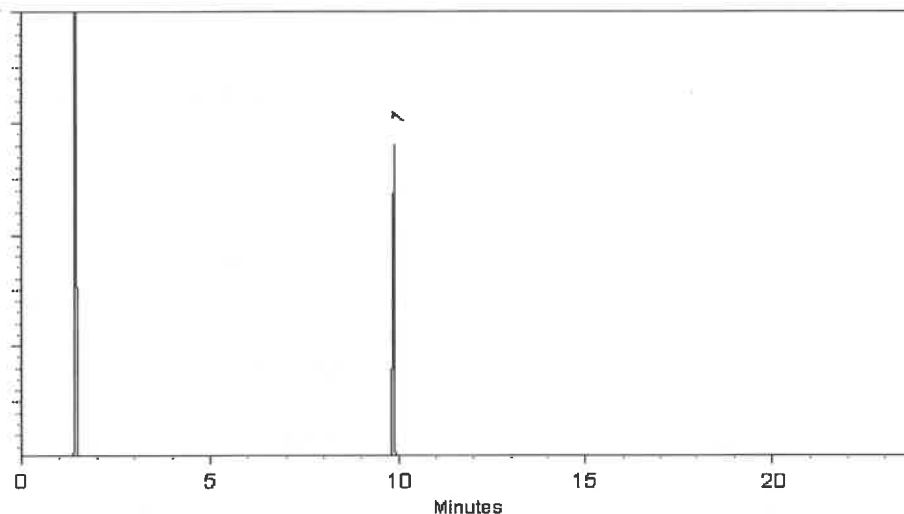
FID

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

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543

Lot No.: 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
Rbx-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.)

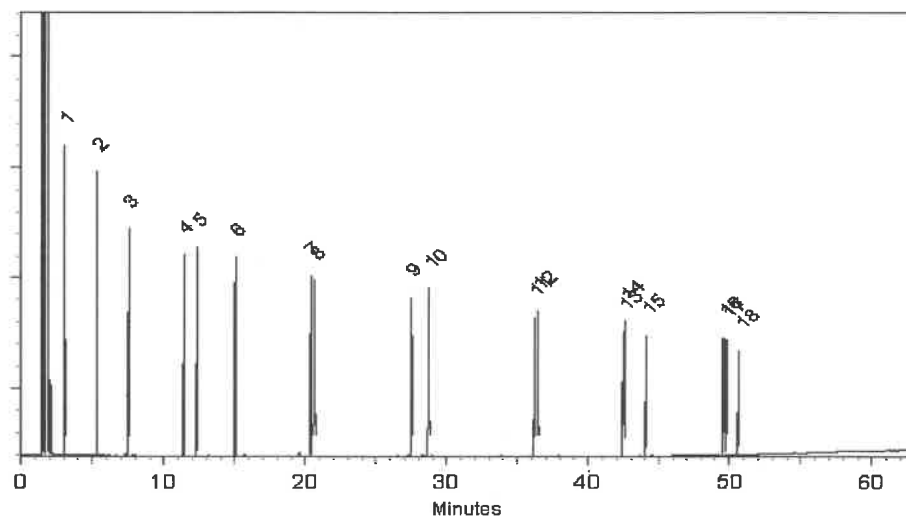
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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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:

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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:

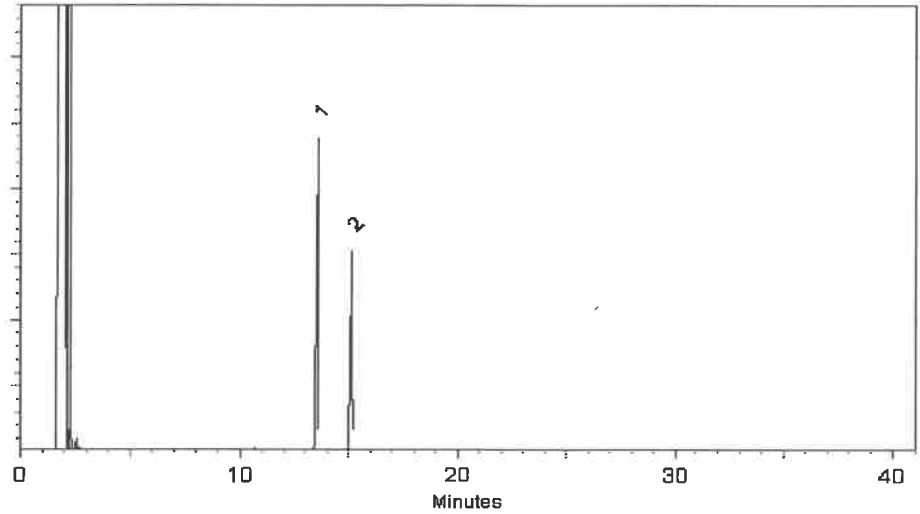
FID

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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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:

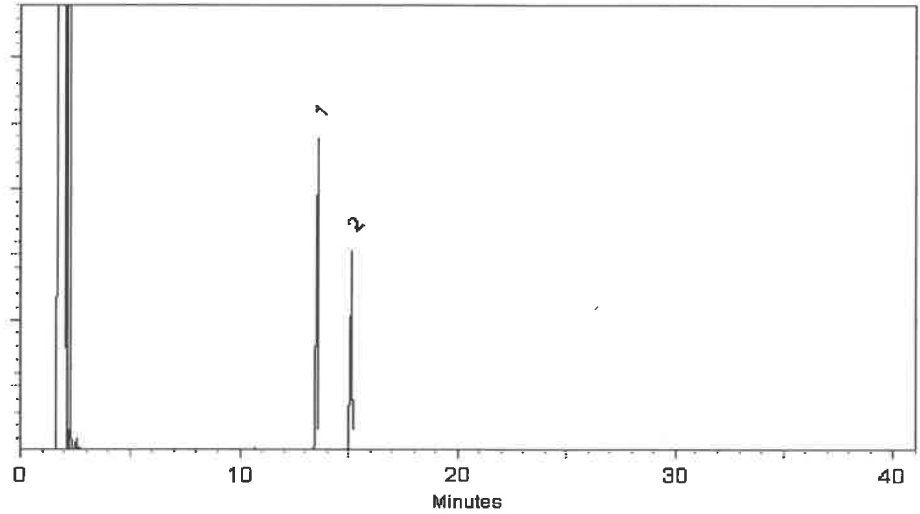
FID

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:

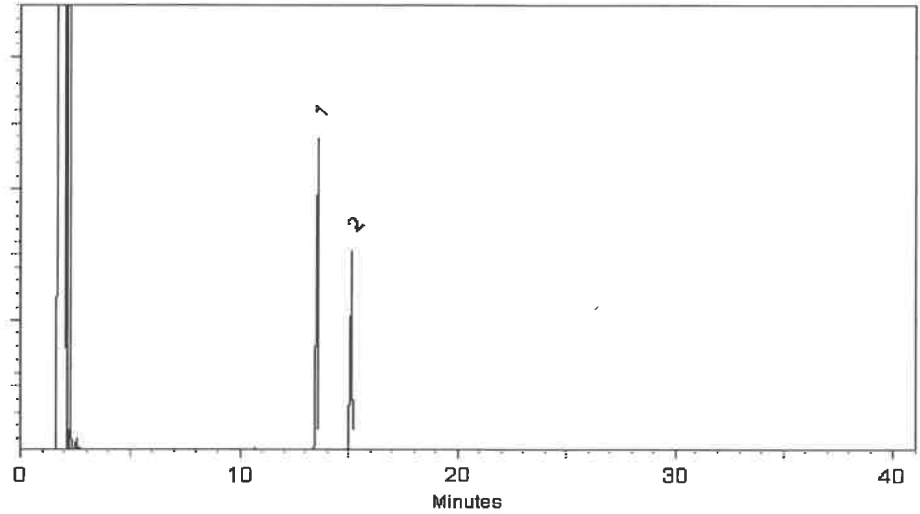
FID

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:

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

Catalog No. : 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:

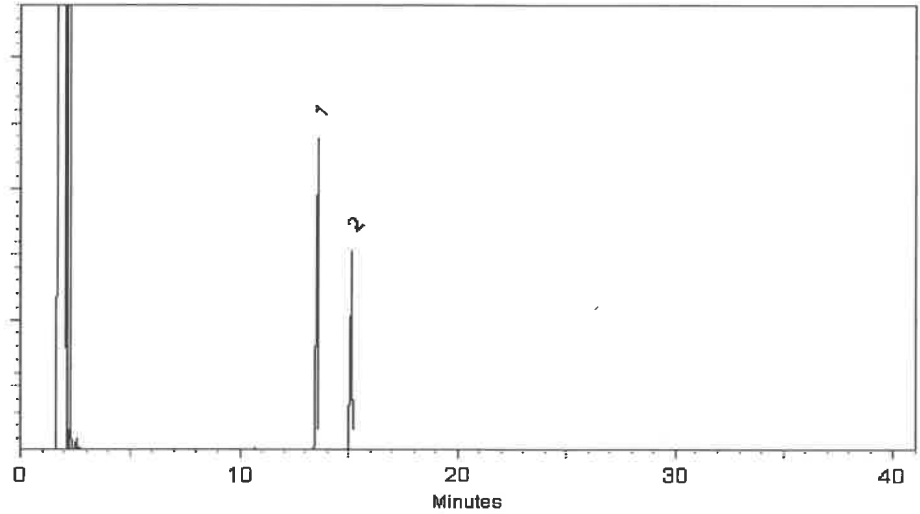
FID

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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

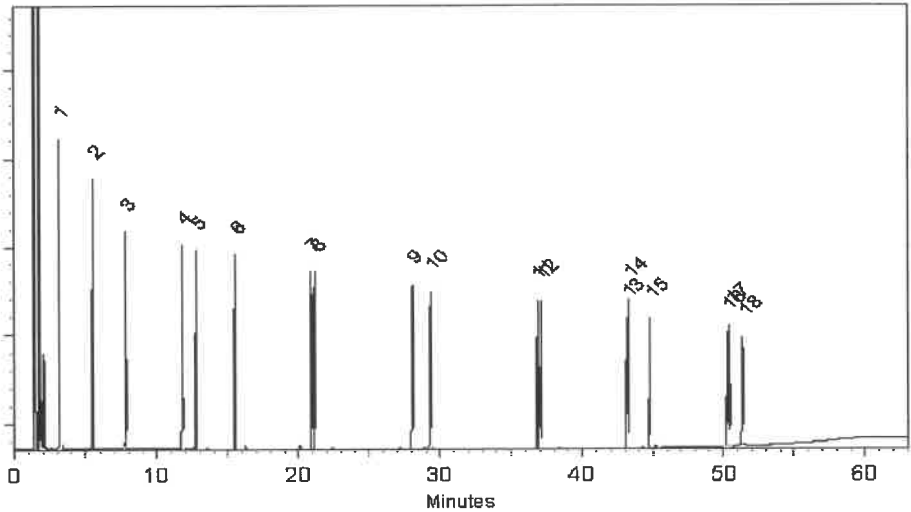
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2	µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3	µg/mL	+/- 9.0255

* 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:

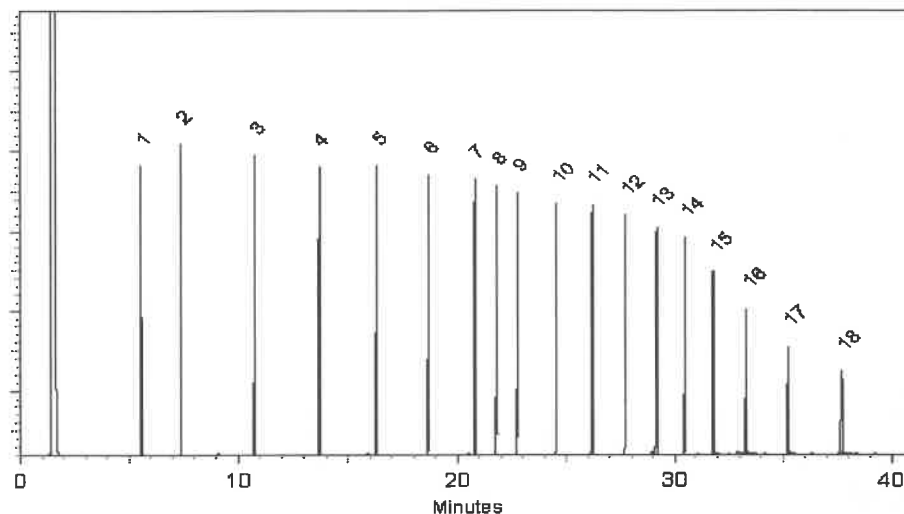
FID

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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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:

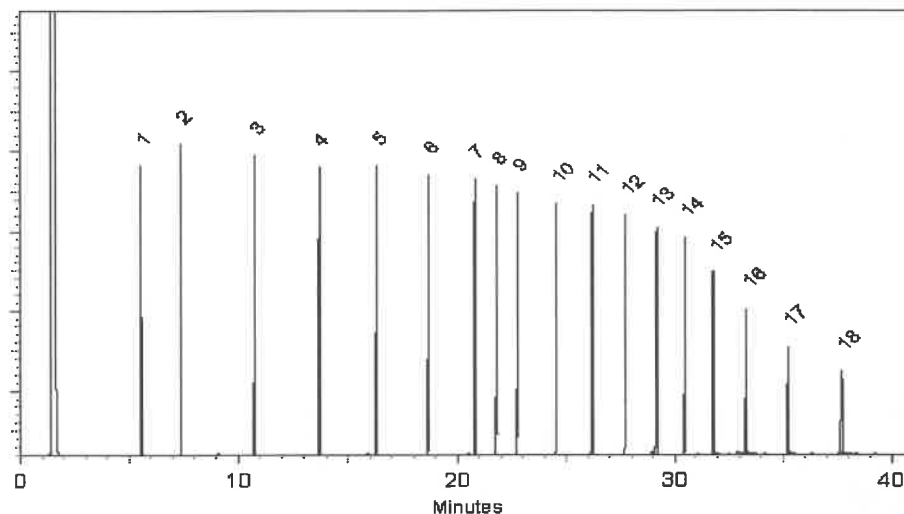
FID

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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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.)

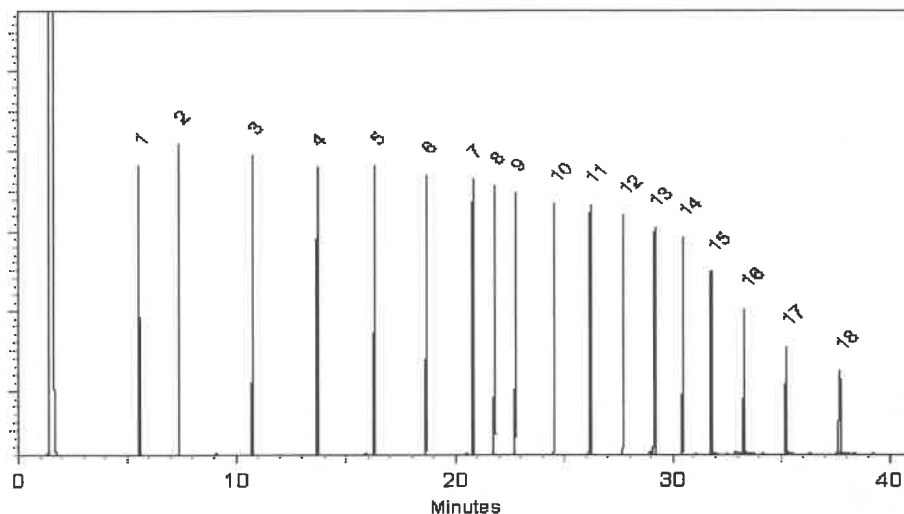
Inj. Temp:
250°C

Det. Temp:
330°C

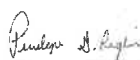
Det. Type:
FID

Split Vent:
2 ml/min.

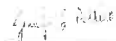
Inj. Vol
1µl



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


Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- 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-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.)

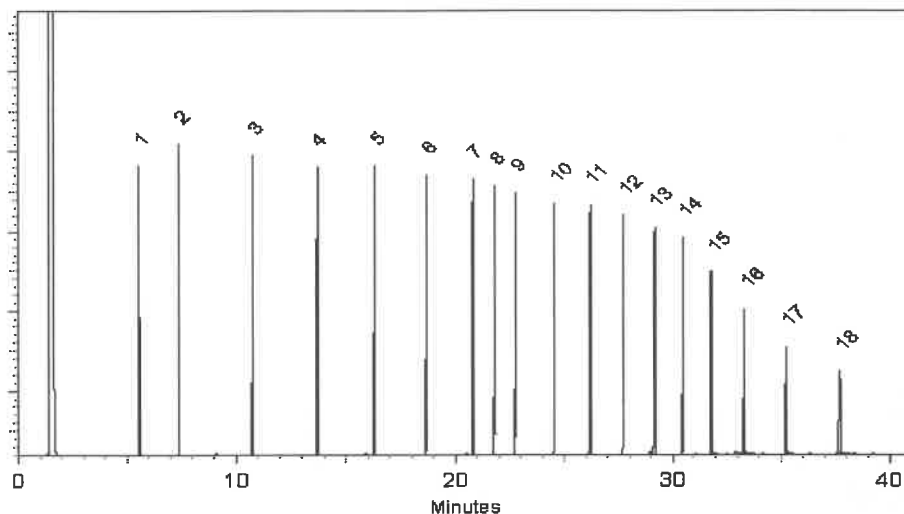
Inj. Temp:
250°C

Det. Temp:
330°C

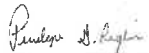
Det. Type:
FID

Split Vent:
2 ml/min.

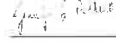
Inj. Vol
1µl



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.


Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- 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. : 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:

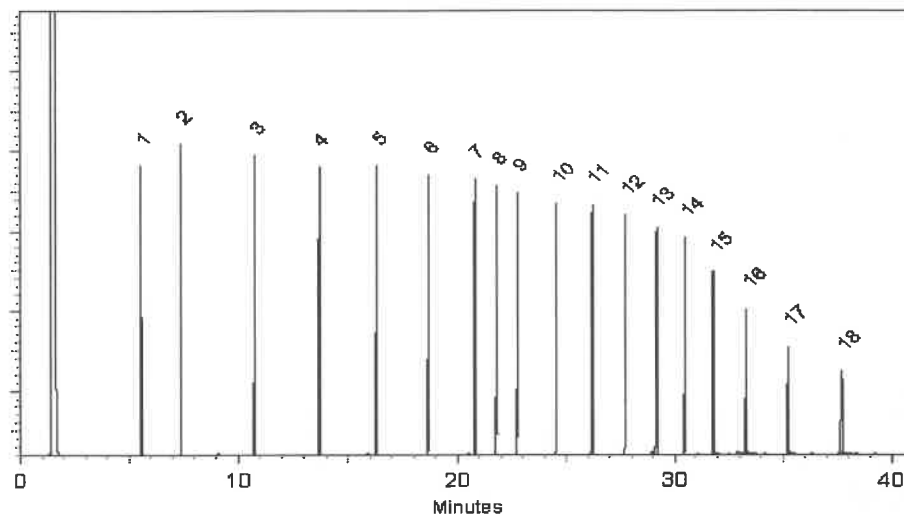
FID

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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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:

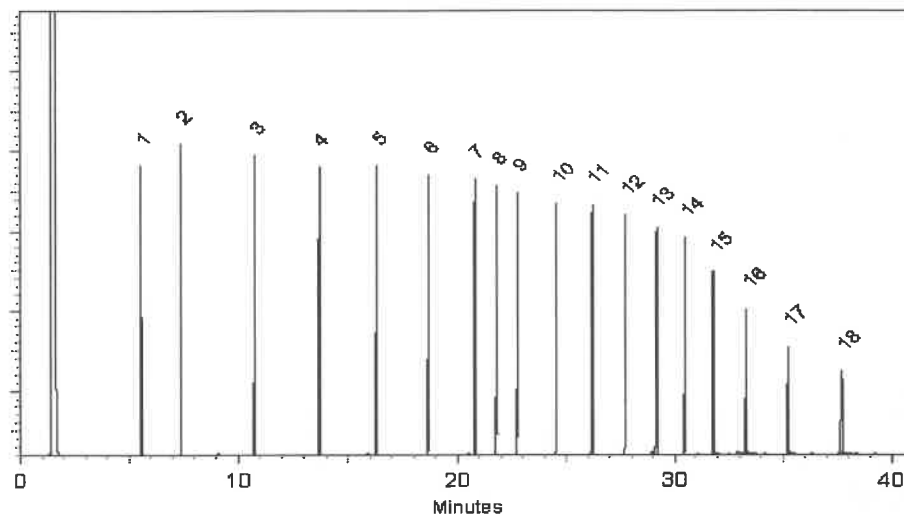
FID

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.
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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** 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.)

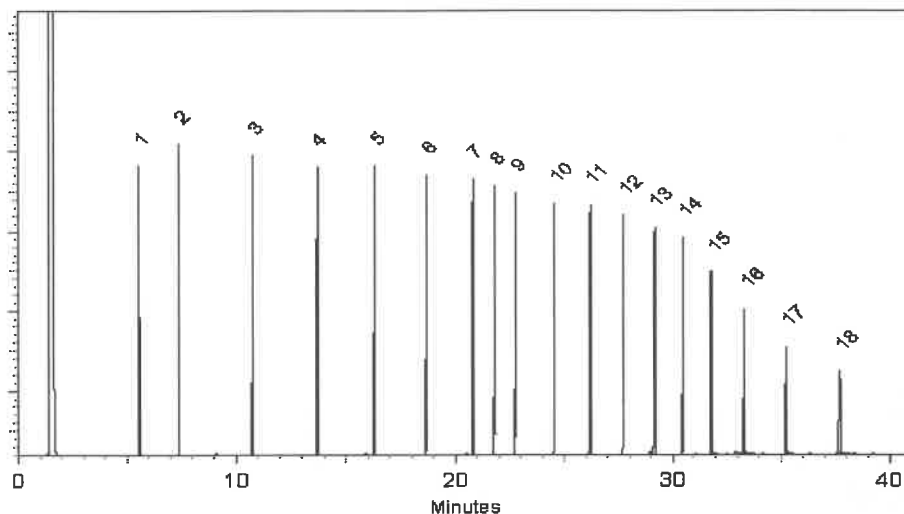
Inj. Temp:
250°C

Det. Temp:
330°C

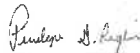
Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

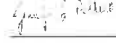


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- 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. : 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.)

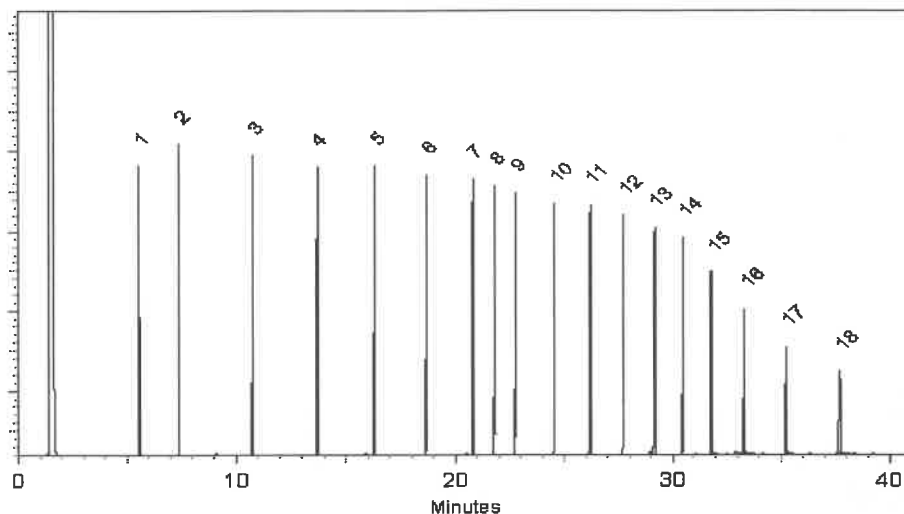
Inj. Temp:
250°C

Det. Temp:
330°C

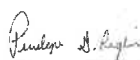
Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl

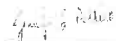


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- 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
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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:

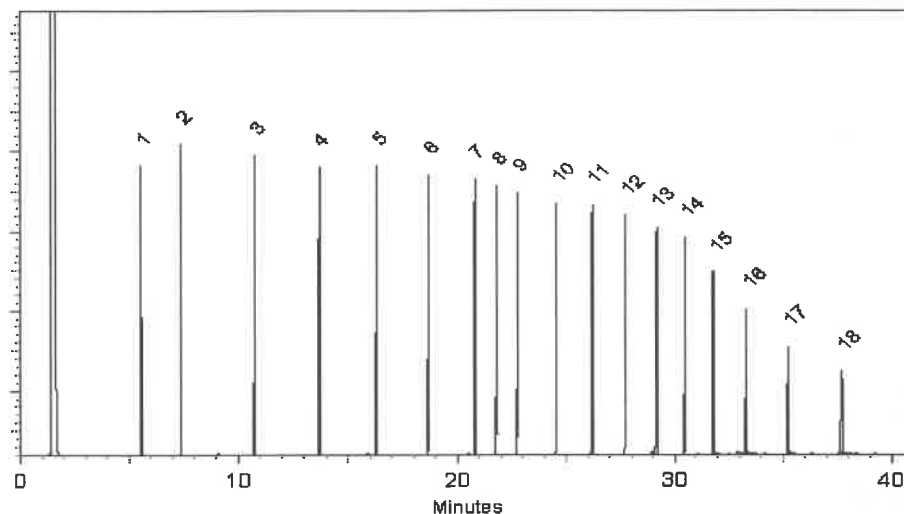
FID

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.:** 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
↓
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.)

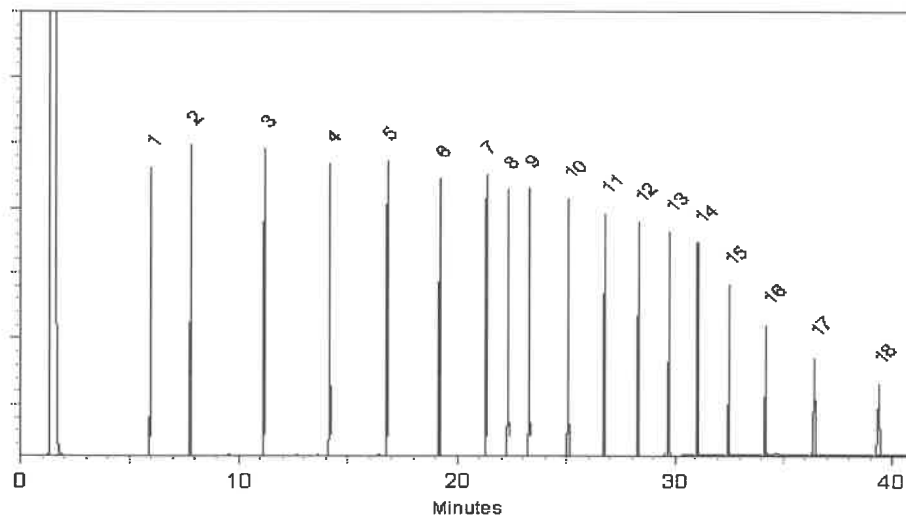
Inj. Temp:
250°C

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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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.)

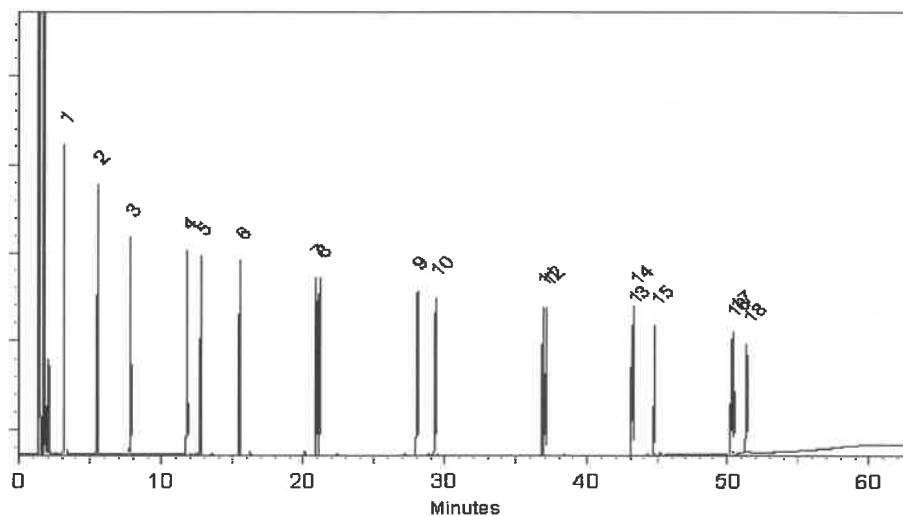
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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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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.)

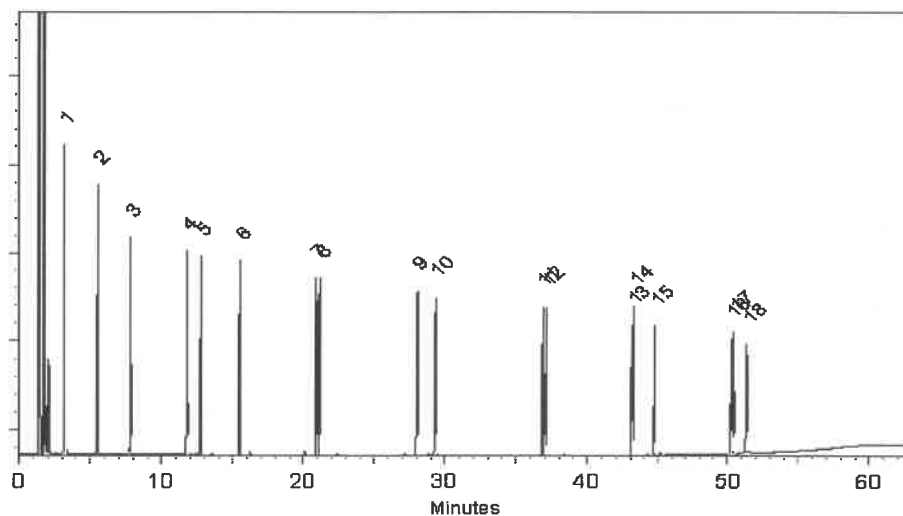
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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.



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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. : 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.)

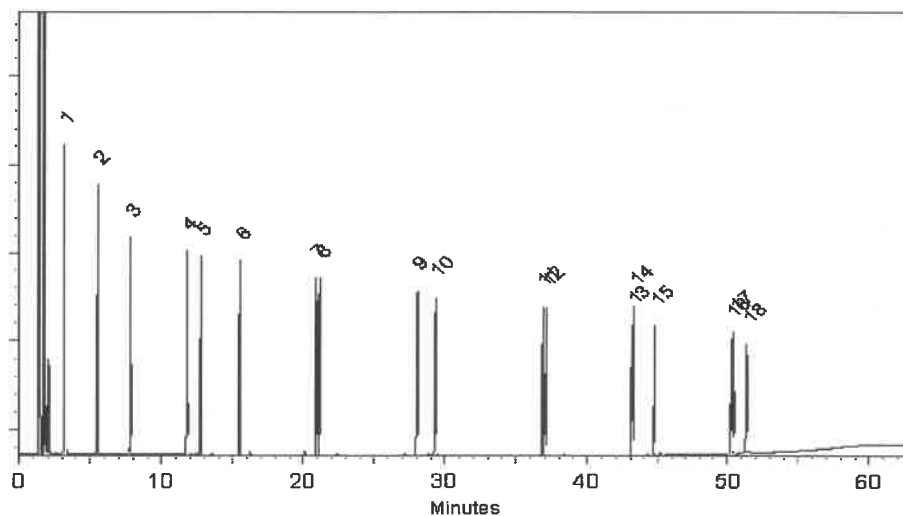
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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.



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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.)

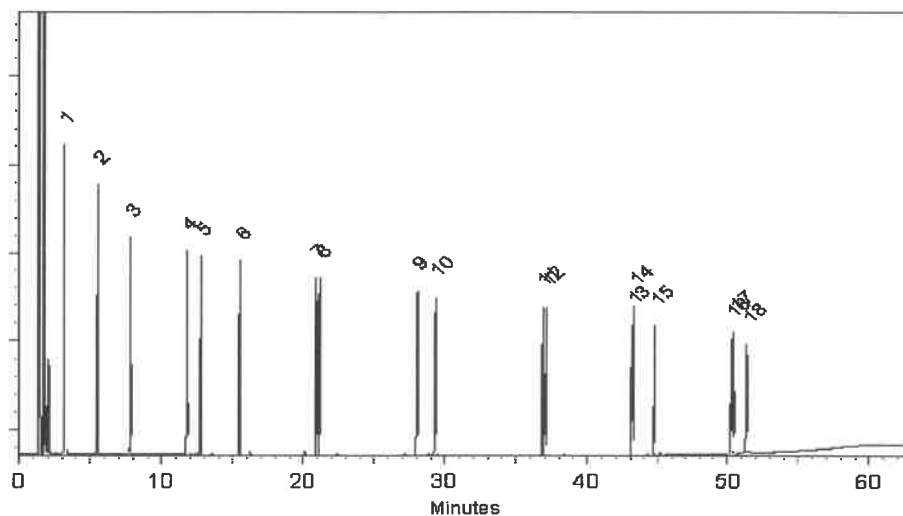
Inj. Temp:
250°C

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
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
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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.)

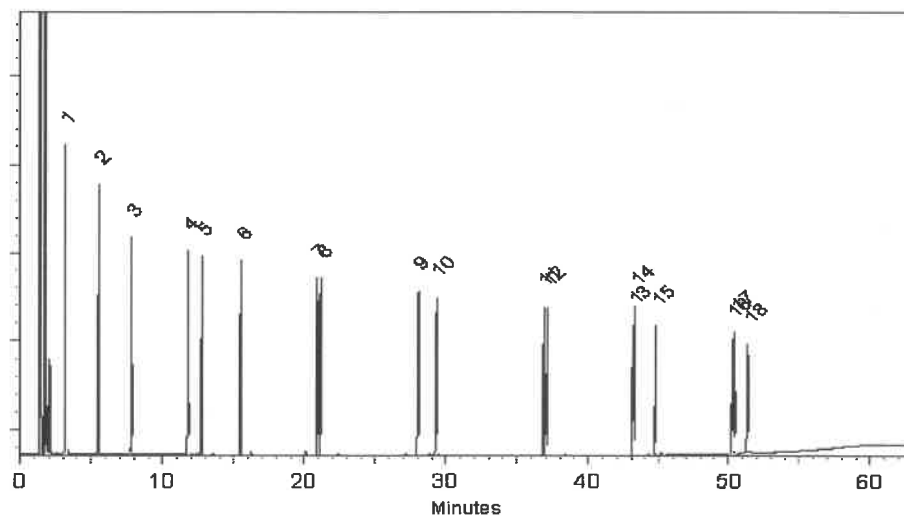
Inj. Temp:
250°C

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:

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

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

Manufacturing Notes:

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

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

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
@ 4°C/min. (hold 5 min.)

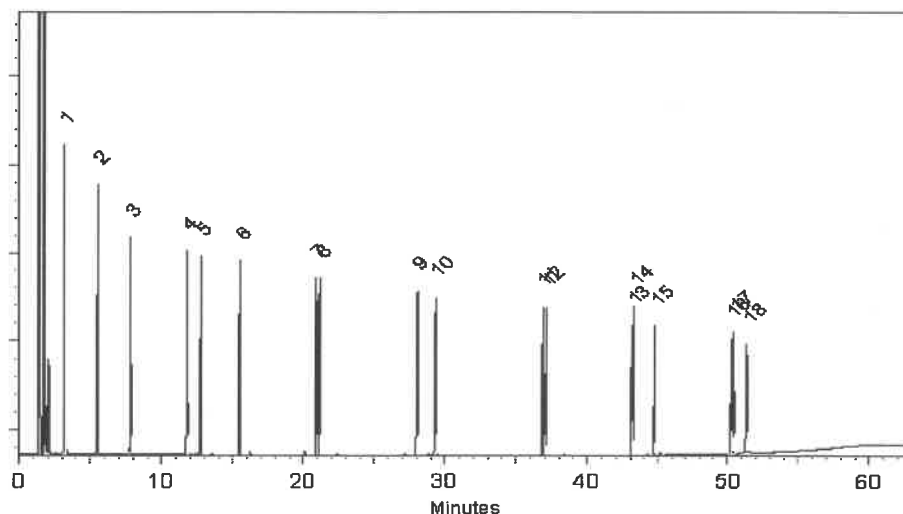
Inj. Temp:
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Det. Temp:
330°C

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:

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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.

Certified Uncertainty Value Notes:

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

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Manufacturing Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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.)

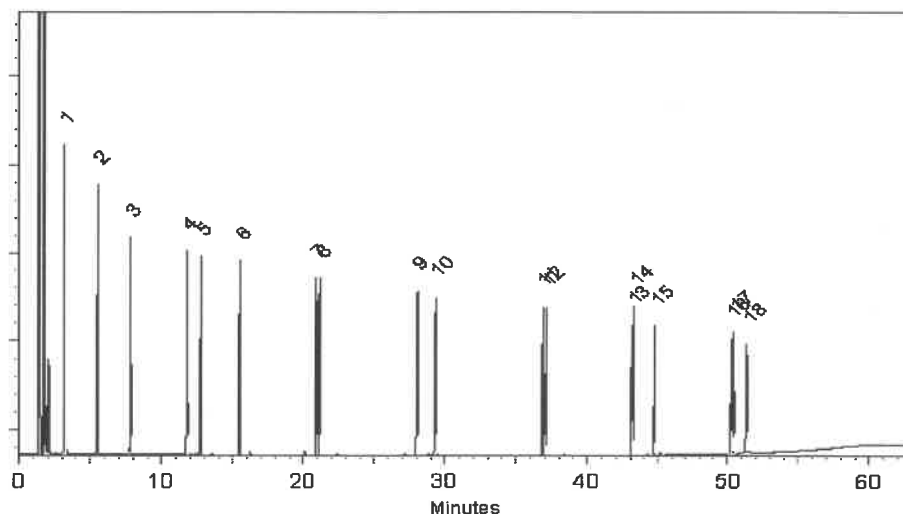
Inj. Temp:
250°C

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543

Lot No.: 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)
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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.)

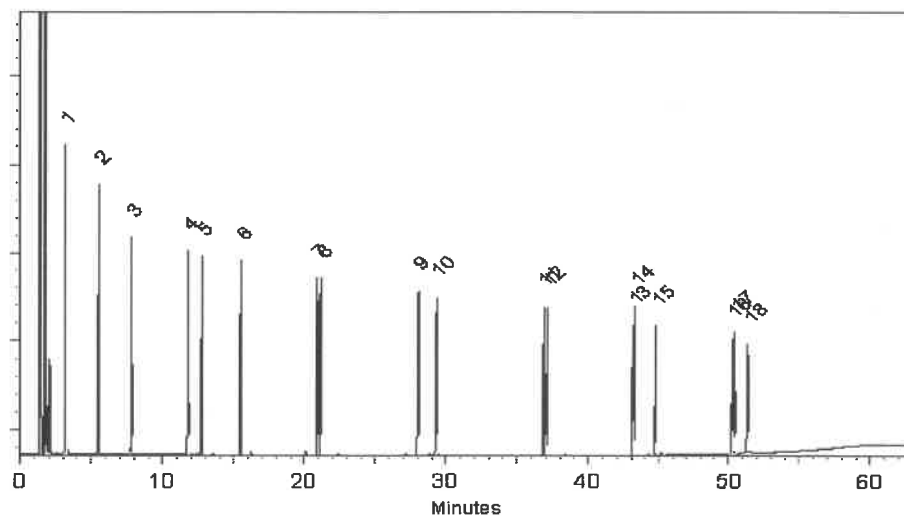
Inj. Temp:
250°C

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

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

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- 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: Geopline
ADDRESS: 8 CARRAGE Lane
CITY: Succasunna STATE: NJ ZIP: 07876
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Stockton
PROJECT NO.: LOCATION: MT
PROJECT MANAGER: GL
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: GEN Permat PO#:
ADDRESS: 8 CARRAGE
CITY: Succasunna STATE: NJ ZIP:
ATTENTION: PHONE:
ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAY EPHIOL DAYS*
HARDCOPY (DATA PACKAGE): 5 DAY EPHIOL DAYS*
EDD: Standard 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 WDA
☒ EDD FORMAT pdf excel hard

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	DP5	Soil		X	4/21/25	1030	1	X									
2.	DP6					1030	1	X									
3.	DP7					1035	1	X									
4.	DP8					1045	1	X									
5.	GP5					1110	5				X						
6.	GP6					1115	5				X						
7.	GP7	Soil		X	4/21/25	1121	5				X						
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>12:55</u> <u>4/21/25</u>	RECEIVED BY: <u>[Signature]</u> 1.	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP. <u>2-0°C</u> Comments: <u>(Adjust Factor x1)</u> <u>Id per IL</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	

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 : Q1851	GENV01	Order Date : 4/21/2025 12:52:00 PM	Project Mgr :
Client Name : G Environmental		Project Name : Stockton	Report Type : Level 1
Client Contact : Gary Landis		Receive DateTime : 4/21/2025 12:45:00 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
Q1851-05	GP5	Solid	04/21/2025	11:10					
					VOC-TCLVOA-10		8260D	5 Bus. Days	
Q1851-06	GP6	Solid	04/21/2025	11:15					
					VOC-TCLVOA-10		8260D	5 Bus. Days	
Q1851-07	GP7	Solid	04/21/2025	11:21					
					VOC-TCLVOA-10		8260D	5 Bus. Days	

Relinquished By :

Date / Time :


4/21/25 1325

Received By :

Date / Time :


04/21/25

Storage Area : VOA Refridgerator Room