

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	P4722	OrderDate:	11/5/2024 3:33:08 PM
Client:	Walsh Construction Company II, LLC	Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2
Contact:	Kayla Timony	Location:	L23,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4722-03	WC-1(0-6)	SOIL			11/05/24			11/05/24
			PCB	8082A		11/07/24	11/07/24	
			Pesticide-TCL	8081B		11/07/24	11/07/24	
			EPH_NF	NJEPH		11/07/24	11/07/24	
P4722-03DL	WC-1(0-6)DL	Solid			11/05/24			11/05/24
			EPH_NF	NJEPH		11/07/24	11/08/24	
P4722-08	WC-2(0-6)	SOIL			11/05/24			11/05/24
			PCB	8082A		11/07/24	11/07/24	
			Pesticide-TCL	8081B		11/07/24	11/07/24	
			EPH_NF	NJEPH		11/07/24	11/07/24	
P4722-08DL	WC-2(0-6)DL	Solid			11/05/24			11/05/24
			EPH_NF	NJEPH		11/07/24	11/08/24	
P4722-13	WC-3(0-6)	SOIL			11/05/24			11/05/24
			PCB	8082A		11/07/24	11/07/24	
			Pesticide-TCL	8081B		11/07/24	11/07/24	
			EPH_NF	NJEPH		11/07/24	11/07/24	
P4722-13DL	WC-3(0-6)DL	Solid			11/05/24			11/05/24
			EPH_NF	NJEPH		11/07/24	11/08/24	



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: WALS01
Lab Code: CHEM CASE No.: P4722 SAS No.: P4722 SDG No.: P4722
Run Number: FC110724AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
JC-701-COMP-01MS	80	78		0
JC-701-COMP-01MSD	80	79		0
PB164751BL	89	87		0
PB164751BS	71	70		0
PB164751BSD	71	69		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: WALS01
Lab Code: CHEM CASE No.: P4722 SAS No.: P4722 SDG No.: P4722
Run Number: FE110824AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
WC-1 (0-6)	85	67		0
WC-2 (0-6)	80	63		0
WC-3 (0-6)	56	50		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: WALS01
Lab Code: CHEM CASE No.: P4722 SAS No.: P4722 SDG No.: P4722
Run Number: FE110924AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
WC-1 (0-6) DL	100	78		0
WC-2 (0-6) DL	90	72		0
WC-3 (0-6) DL	60	55		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:** Walsh Construction Company II, LLC
Lab Code: CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722
Sample No : P4720-01MS **Datafile:** FC067662.D
Client ID : JC-701-COMP-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	33.0	22.9	59.0	109		(40-140)
Aliphatic C9-C28	110.2	8.87	94.2	77		(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Walsh Construction Company II, LLC
Lab Code: CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722
Sample No : P4720-01MSD **Datafile:** FC067663.D
Client ID : JC-701-COMP-01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS QC Limit Of RPD
Aliphatic C28-C40	33.1	22.9	60.8	114		4.48 (40-140) 25
Aliphatic C9-C28	110.3	8.87	94.8	78		0.6 (40-140) 25

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Walsh Construction Company II, LLC
Lab Code: CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722
Sample No : PB164751BS **Datafile:** FC067658.D
Client ID : PB164751BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	30.0	27.0	90		(40-140)
Aliphatic C9-C28	100.1	68.6	68		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Walsh Construction Company II, LLC
Lab Code: CHEM **Cas No:** P4722 **SAS No :** P4722 **SDG No:** P4722
Sample No : PB164751BSD **Datafile:** FC067659.D
Client ID : PB164751BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	30.0	26.9	90		0.271 (40-140)	50
Aliphatic C9-C28	99.9	67.7	67		1.4 (40-140)	50

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164751BL

Lab Name: CHEMTECH

Contract: WALS01

Lab Code: CHEM Case No.: P4722

SAS No.: P4722 SDG NO.: P4722

Instrument ID: FID_C

Lab Sample ID: PB164751BL

Matrix: (soil/water) Solid

Date Extracted: 11/7/2024 9:50:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164751BS	PB164751BS
PB164751BSD	PB164751BSD
JC-701-COMP-01MS	P4720-01MS
JC-701-COMP-01MSD	P4720-01MSD
WC-1 (0-6)	P4722-03
WC-2 (0-6)	P4722-08
WC-3 (0-6)	P4722-13

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/08/24 8:06	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	111		5	9.57	10.6	mg/kg FE051107.D
Aliphatic C9-C28	Aliphatic C9-C28	34.6		1	1.83	4.25	mg/kg FE051087.D
Total AliphaticEPH	Total AliphaticEPH	146			11.4	14.8	mg/kg
Total EPH	Total EPH	146			11.4	14.8	mg/kg

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051087.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	34.6		1.83	4.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	94.8	E	1.91	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.3		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.4		40 - 140	67%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-03	Acq On:	07 Nov 2024 16:40
Client Sample ID:	WC-1(0-6)	Operator:	YP\AJ
Data file:	FE051087.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.757	3212816	22.963	300	ug/ml
Aliphatic C12-C16	6.758	10.189	6042880	42.968	200	ug/ml
Aliphatic C16-C21	10.190	13.548	24400913	177.116	300	ug/ml
Aliphatic C21-C28	13.549	17.202	32687587	244.025	400	ug/ml
Aliphatic C28-C40	17.203	22.047	172210772	1340	600	ug/ml
Aliphatic EPH	3.140	22.047	238554968	1820		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	5019328	33.44		ug/ml
1-chlorooctadecane (SURR)	13.285	13.285	4804413	42.32		ug/ml
Aliphatic C9-C28	3.140	17.202	66344196	487.072	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
 Data File : FE051087.D
 Signal(s) : FID1B.ch
 Acq On : 07 Nov 2024 16:40
 Operator : YP\AJ
 Sample : P4722-03
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 WC-1(0-6)

Integration File: autoint1.e
 Quant Time: Nov 08 02:02:55 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.852	5019328	33.441 ug/ml
Spiked Amount	50.000	Recovery	= 66.88%
12) S 1-chlorooctadecane (S...	13.285	4804413	42.318 ug/ml
Spiked Amount	50.000	Recovery	= 84.64%

Target Compounds

(f)=RT Delta > 1/2 Window

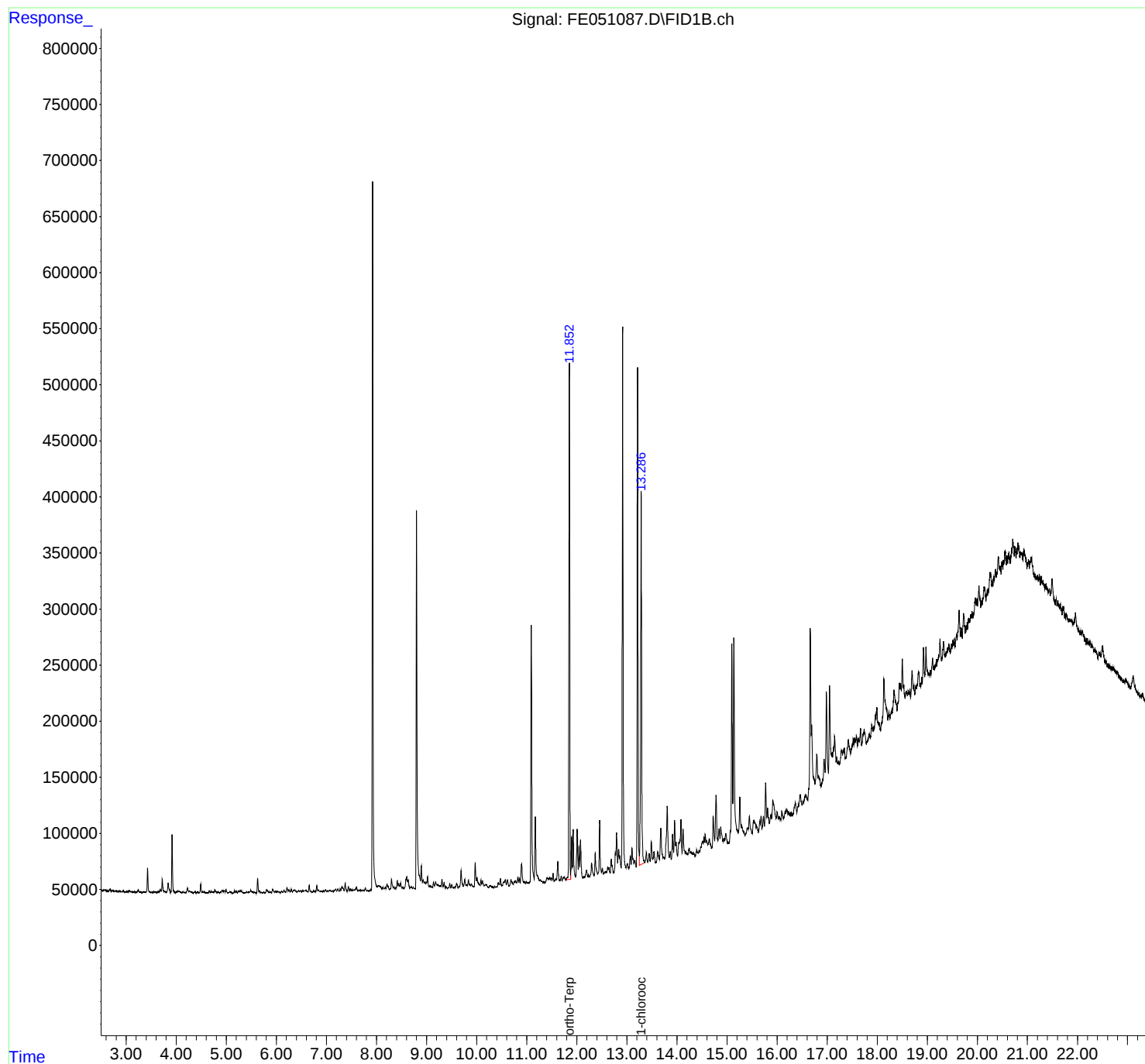
(m)=manual int.

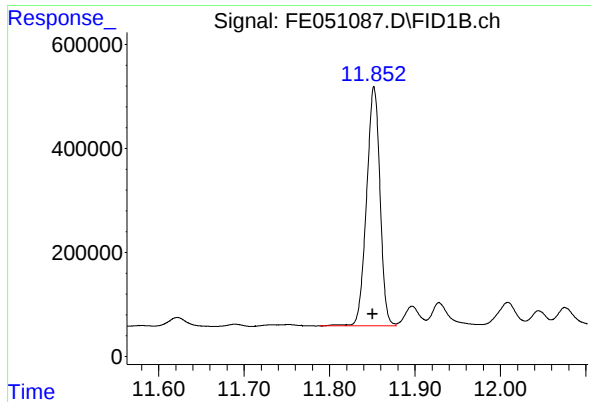
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
Data File : FE051087.D
Signal(s) : FID1B.ch
Acq On : 07 Nov 2024 16:40
Operator : YP\AJ
Sample : P4722-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WC-1(0-6)

Integration File: autoint1.e
Quant Time: Nov 08 02:02:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

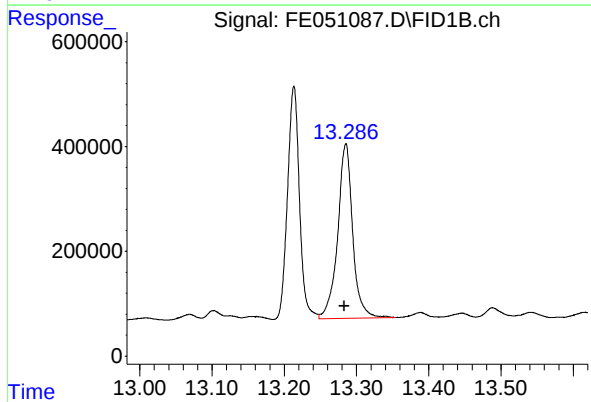




#9 ortho-Terphenyl (SURR)

R.T.: 11.852 min
Delta R.T.: 0.002 min
Response: 5019328
Conc: 33.44 ug/ml

Instrument :
FID_E
ClientSampleId :
WC-1(0-6)



#12 1-chlorooctadecane (SURR)

R.T.: 13.285 min
Delta R.T.: 0.002 min
Response: 4804413
Conc: 42.32 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
Data File : FE051087.D
Signal(s) : FID1B.ch
Acq On : 07 Nov 2024 16:40
Sample : P4722-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.238	3.204	3.321	BV	2348	39722	0.42%	0.016%
2	3.355	3.321	3.367	PV	447	8368	0.09%	0.003%
3	3.379	3.367	3.396	VV	590	7532	0.08%	0.003%
4	3.428	3.396	3.495	VV	21915	247378	2.64%	0.100%
5	3.514	3.495	3.531	VV	361	4461	0.05%	0.002%
6	3.550	3.531	3.577	VV	899	13416	0.14%	0.005%
7	3.590	3.577	3.614	VV	565	8242	0.09%	0.003%
8	3.683	3.614	3.700	VV	2525	58588	0.62%	0.024%
9	3.721	3.700	3.803	VV	11957	183110	1.95%	0.074%
10	3.839	3.803	3.894	VV	8752	161399	1.72%	0.065%
11	3.917	3.894	3.988	VV	51347	575427	6.13%	0.232%
12	4.030	3.988	4.045	VV	2027	35154	0.37%	0.014%
13	4.061	4.045	4.082	VV	1512	24066	0.26%	0.010%
14	4.090	4.082	4.112	VV	643	9895	0.11%	0.004%
15	4.138	4.112	4.161	VV	1105	17638	0.19%	0.007%
16	4.176	4.161	4.191	VV	369	4184	0.04%	0.002%
17	4.223	4.191	4.250	VV	4138	72889	0.78%	0.029%
18	4.265	4.250	4.341	VV	1938	49096	0.52%	0.020%
19	4.377	4.341	4.408	PV	916	19919	0.21%	0.008%
20	4.428	4.408	4.457	VV	717	15435	0.16%	0.006%
21	4.489	4.457	4.514	VV	7982	88345	0.94%	0.036%
22	4.532	4.514	4.546	VV	1178	15840	0.17%	0.006%
23	4.562	4.546	4.590	VV	833	14210	0.15%	0.006%
24	4.604	4.590	4.624	VV	259	3521	0.04%	0.001%
25	4.662	4.624	4.681	VV	1461	23744	0.25%	0.010%
26	4.697	4.681	4.723	VV	1365	24124	0.26%	0.010%
27	4.737	4.723	4.752	VV	932	12759	0.14%	0.005%
28	4.771	4.752	4.810	VV	3243	50551	0.54%	0.020%
29	4.829	4.810	4.841	VV	892	13699	0.15%	0.006%
30	4.848	4.841	4.866	VV	1002	9808	0.10%	0.004%
31	4.886	4.866	4.895	VV	1146	12650	0.13%	0.005%
32	4.917	4.895	4.937	VV	2223	44956	0.48%	0.018%
33	4.954	4.937	4.977	VV	2445	42391	0.45%	0.017%
34	4.995	4.977	5.035	VV	3487	53468	0.57%	0.022%
35	5.073	5.035	5.091	VV	1348	21903	0.23%	0.009%
36	5.100	5.091	5.127	VV	744	8085	0.09%	0.003%

					rteres			
37	5.165	5.127	5.181	PV	2138	26887	0.29%	0.011%
38	5.197	5.181	5.221	VV	2184	30350	0.32%	0.012%
39	5.239	5.221	5.252	VV	2079	24935	0.27%	0.010%
40	5.283	5.252	5.295	VV	2008	40891	0.44%	0.016%
41	5.306	5.295	5.342	VV	2026	27734	0.30%	0.011%
42	5.369	5.342	5.384	PV	436	6324	0.07%	0.003%
43	5.403	5.384	5.417	VV	956	11917	0.13%	0.005%
44	5.429	5.417	5.437	VV	776	7615	0.08%	0.003%
45	5.487	5.437	5.554	VV	2381	81267	0.87%	0.033%
46	5.565	5.554	5.604	VV	776	12502	0.13%	0.005%
47	5.627	5.604	5.651	PV	13187	158168	1.69%	0.064%
48	5.663	5.651	5.688	VV	1960	27450	0.29%	0.011%
49	5.699	5.688	5.731	VV	574	9982	0.11%	0.004%
50	5.750	5.731	5.765	VV	579	8512	0.09%	0.003%
51	5.805	5.765	5.844	VV	3100	65186	0.69%	0.026%
52	5.854	5.844	5.878	VV	907	13654	0.15%	0.005%
53	5.888	5.878	5.903	VV	865	7969	0.08%	0.003%
54	5.928	5.903	5.968	VV	3128	58892	0.63%	0.024%
55	5.986	5.968	6.003	VV	1246	19309	0.21%	0.008%
56	6.019	6.003	6.045	VV	1260	22750	0.24%	0.009%
57	6.054	6.045	6.083	VV	841	9418	0.10%	0.004%
58	6.104	6.083	6.122	PV	1642	17689	0.19%	0.007%
59	6.153	6.122	6.178	VV	2408	37025	0.39%	0.015%
60	6.213	6.178	6.236	VV	4604	78515	0.84%	0.032%
61	6.253	6.236	6.273	VV	2303	40406	0.43%	0.016%
62	6.299	6.273	6.323	VV	3025	49273	0.53%	0.020%
63	6.341	6.323	6.351	VV	1918	22902	0.24%	0.009%
64	6.365	6.351	6.413	VV	2441	51632	0.55%	0.021%
65	6.443	6.413	6.463	VV	1724	34488	0.37%	0.014%
66	6.480	6.463	6.504	VV	1339	23592	0.25%	0.009%
67	6.527	6.504	6.543	VV	1694	28390	0.30%	0.011%
68	6.590	6.543	6.634	VV	1581	58859	0.63%	0.024%
69	6.656	6.634	6.705	VV	6257	82770	0.88%	0.033%
70	6.742	6.705	6.765	PV	1100	19590	0.21%	0.008%
71	6.779	6.765	6.791	VV	1027	11326	0.12%	0.005%
72	6.808	6.791	6.829	VV	5789	69243	0.74%	0.028%
73	6.841	6.829	6.869	VV	2134	29026	0.31%	0.012%
74	6.881	6.869	6.898	VV	908	9560	0.10%	0.004%
75	6.912	6.898	6.926	VV	868	10519	0.11%	0.004%
76	6.942	6.926	6.958	VV	1242	14193	0.15%	0.006%
77	6.981	6.958	7.004	VV	2033	28651	0.31%	0.012%
78	7.018	7.004	7.033	VV	1245	11891	0.13%	0.005%
79	7.065	7.033	7.096	VV	1599	32883	0.35%	0.013%
80	7.117	7.096	7.134	VV	1088	15377	0.16%	0.006%
81	7.186	7.134	7.206	VV	2402	54671	0.58%	0.022%
82	7.228	7.206	7.253	VV	2672	38488	0.41%	0.015%
83	7.275	7.253	7.289	VV	2440	32650	0.35%	0.013%
84	7.309	7.289	7.353	VV	4495	101730	1.08%	0.041%
85	7.375	7.353	7.414	VV	7433	107005	1.14%	0.043%
86	7.440	7.414	7.461	VV	4390	64875	0.69%	0.026%
87	7.474	7.461	7.492	VV	2293	31393	0.33%	0.013%
88	7.502	7.492	7.528	VV	1297	21446	0.23%	0.009%
89	7.553	7.528	7.568	VV	1326	26121	0.28%	0.011%

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90	7.603	7.568	7.627	VV	4097	70682	0.75%	0.028%
91	7.651	7.627	7.673	VV	891	20885	0.22%	0.008%
92	7.688	7.673	7.710	VV	1033	16683	0.18%	0.007%
93	7.733	7.710	7.751	VV	985	17663	0.19%	0.007%
94	7.778	7.751	7.810	VV	3020	45074	0.48%	0.018%
95	7.827	7.810	7.848	VV	559	7587	0.08%	0.003%
96	7.887	7.848	7.896	PV	1461	20075	0.21%	0.008%
97	8.035	8.018	8.107	VV	4705	200058	2.13%	0.080%
98	8.129	8.107	8.149	VV	2909	55649	0.59%	0.022%
99	8.175	8.149	8.190	VV	3167	56214	0.60%	0.023%
100	8.211	8.190	8.258	VV	5781	135762	1.45%	0.055%
101	8.301	8.258	8.338	VV	9932	188648	2.01%	0.076%
102	8.349	8.338	8.374	VV	2861	49131	0.52%	0.020%
103	8.416	8.374	8.432	VV	8803	149640	1.59%	0.060%
104	8.445	8.432	8.465	VV	6141	93264	0.99%	0.038%
105	8.483	8.465	8.511	VV	6296	112507	1.20%	0.045%
106	8.527	8.511	8.548	VV	3025	50225	0.54%	0.020%
107	8.604	8.548	8.623	VV	11765	288793	3.08%	0.116%
108	8.635	8.623	8.677	VV	9116	161762	1.72%	0.065%
109	8.695	8.677	8.718	VV	2765	54524	0.58%	0.022%
110	8.732	8.718	8.752	VV	2111	33708	0.36%	0.014%
111	8.761	8.752	8.778	VV	1253	16412	0.17%	0.007%
112	8.896	8.878	8.920	VV	21266	323493	3.45%	0.130%
113	8.933	8.920	8.958	VV	8679	163428	1.74%	0.066%
114	8.971	8.958	8.987	VV	6868	107850	1.15%	0.043%
115	9.021	8.987	9.050	VV	11437	247217	2.64%	0.099%
116	9.071	9.050	9.085	VV	3096	57986	0.62%	0.023%
117	9.096	9.085	9.116	VV	2768	45402	0.48%	0.018%
118	9.139	9.116	9.158	VV	6463	101965	1.09%	0.041%
119	9.182	9.158	9.210	VV	6670	144192	1.54%	0.058%
120	9.221	9.210	9.253	VV	3997	94047	1.00%	0.038%
121	9.268	9.253	9.288	VV	3150	59886	0.64%	0.024%
122	9.309	9.288	9.332	VV	8884	127222	1.36%	0.051%
123	9.351	9.332	9.378	VV	5796	92002	0.98%	0.037%
124	9.391	9.378	9.415	VV	2321	36330	0.39%	0.015%
125	9.435	9.415	9.443	VV	1209	16891	0.18%	0.007%
126	9.464	9.443	9.485	VV	4842	65575	0.70%	0.026%
127	9.504	9.485	9.530	VV	3948	60995	0.65%	0.025%
128	9.602	9.530	9.630	VV	4842	127568	1.36%	0.051%
129	9.691	9.630	9.737	VV	16266	328826	3.50%	0.132%
130	9.764	9.737	9.795	VV	8068	155211	1.65%	0.062%
131	9.838	9.795	9.880	VV	7452	207540	2.21%	0.084%
132	9.895	9.880	9.943	VV	3720	91386	0.97%	0.037%
133	9.973	9.943	9.997	VV	22889	325426	3.47%	0.131%
134	10.010	9.997	10.069	VV	9509	230381	2.46%	0.093%
135	10.087	10.069	10.102	VV	7019	96800	1.03%	0.039%
136	10.117	10.102	10.155	VV	6521	125433	1.34%	0.050%
137	10.176	10.155	10.189	VV	3112	53834	0.57%	0.022%
138	10.195	10.189	10.236	VV	2756	45775	0.49%	0.018%
139	10.266	10.236	10.341	VV	1970	59416	0.63%	0.024%
140	10.362	10.341	10.384	PV	934	13332	0.14%	0.005%
141	10.434	10.384	10.453	VV	4077	71892	0.77%	0.029%

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142	10.475	10.453	10.503	VV	7481	119553	1.27%	0.048%
143	10.539	10.503	10.551	VV	4441	78448	0.84%	0.032%
144	10.574	10.551	10.596	VV	5808	113993	1.22%	0.046%
145	10.617	10.596	10.649	VV	5982	95553	1.02%	0.038%
146	10.687	10.649	10.729	PV	5756	125452	1.34%	0.050%
147	10.749	10.729	10.758	VV	3520	45998	0.49%	0.019%
148	10.775	10.758	10.804	VV	4297	94925	1.01%	0.038%
149	10.825	10.804	10.841	VV	7455	103384	1.10%	0.042%
150	10.856	10.841	10.872	VV	6530	82197	0.88%	0.033%
151	10.898	10.872	10.948	VV	18773	366607	3.91%	0.148%
152	10.959	10.948	10.979	VV	2439	35868	0.38%	0.014%
153	10.994	10.979	11.010	VV	2837	34341	0.37%	0.014%
154	11.028	11.010	11.041	VV	1444	24849	0.26%	0.010%
155	11.092	11.041	11.150	VV	229102	2833527	30.20%	1.140%
156	11.171	11.150	11.252	VV	59458	977348	10.42%	0.393%
157	11.264	11.252	11.295	VV	2810	61584	0.66%	0.025%
158	11.303	11.295	11.328	VV	1654	20182	0.22%	0.008%
159	11.338	11.328	11.363	VV	677	9157	0.10%	0.004%
160	11.410	11.363	11.444	PV	4122	124749	1.33%	0.050%
161	11.457	11.444	11.473	VV	4514	57674	0.61%	0.023%
162	11.488	11.473	11.507	VV	3966	60295	0.64%	0.024%
163	11.527	11.507	11.549	VV	7583	94893	1.01%	0.038%
164	11.580	11.549	11.593	VV	2350	40729	0.43%	0.016%
165	11.622	11.593	11.665	VV	17668	271714	2.90%	0.109%
166	11.690	11.665	11.709	VV	4378	52964	0.56%	0.021%
167	11.751	11.709	11.791	PV	3491	92021	0.98%	0.037%
168	11.809	11.791	11.821	VV	2403	34441	0.37%	0.014%
169	11.852	11.821	11.878	VV	459307	5010848	53.41%	2.016%
170	11.897	11.878	11.913	VV	37781	445716	4.75%	0.179%
171	11.928	11.913	11.975	VV	44429	613183	6.54%	0.247%
172	12.009	11.975	12.029	VV	44447	655321	6.98%	0.264%
173	12.045	12.029	12.060	VV	28291	338801	3.61%	0.136%
174	12.076	12.060	12.120	VV	34382	473505	5.05%	0.191%
175	12.139	12.120	12.153	PV	1258	11948	0.13%	0.005%
176	12.196	12.153	12.219	VV	6561	112542	1.20%	0.045%
177	12.234	12.219	12.254	VV	2037	22014	0.23%	0.009%
178	12.296	12.254	12.344	VV	11634	222020	2.37%	0.089%
179	12.368	12.344	12.415	VV	20283	313840	3.35%	0.126%
180	12.457	12.415	12.493	VV	49254	649417	6.92%	0.261%
181	12.512	12.493	12.536	VV	5399	78599	0.84%	0.032%
182	12.568	12.536	12.578	VV	1802	35045	0.37%	0.014%
183	12.619	12.578	12.630	VV	6129	98510	1.05%	0.040%
184	12.640	12.630	12.666	VV	5133	65466	0.70%	0.026%
185	12.687	12.666	12.739	VV	12600	215891	2.30%	0.087%
186	12.794	12.739	12.815	PV	35044	686527	7.32%	0.276%
187	12.835	12.815	12.851	VV	19968	323862	3.45%	0.130%
188	12.860	12.851	12.886	VV	14052	187482	2.00%	0.075%
189	12.916	12.886	12.979	VV	479550	5666444	60.40%	2.280%
190	13.009	12.979	13.036	VV	5771	124152	1.32%	0.050%
191	13.069	13.036	13.085	VV	11929	185431	1.98%	0.075%
192	13.102	13.085	13.141	VV	18841	349108	3.72%	0.140%
193	13.156	13.141	13.183	VV	6966	132624	1.41%	0.053%
194	13.213	13.183	13.248	VV	447809	5157378	54.97%	2.075%

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195	13.285	13.248	13.356	VV	334179	4976113	53.04%	2.002%
196	13.388	13.356	13.415	VV	12618	239089	2.55%	0.096%
197	13.446	13.415	13.465	VV	10742	200922	2.14%	0.081%
198	13.489	13.465	13.518	VV	20675	341468	3.64%	0.137%
199	13.542	13.518	13.571	VV	11212	211747	2.26%	0.085%
200	13.616	13.571	13.649	VV	10716	256556	2.73%	0.103%
201	13.677	13.649	13.724	VV	31039	643410	6.86%	0.259%
202	13.736	13.724	13.752	VV	5131	71609	0.76%	0.029%
203	13.804	13.752	13.847	VV	49422	1051359	11.21%	0.423%
204	13.865	13.847	13.886	VV	8561	118945	1.27%	0.048%
205	13.911	13.886	13.931	VV	23845	322251	3.43%	0.130%
206	13.952	13.931	13.972	VV	35558	512167	5.46%	0.206%
207	13.983	13.972	14.010	VV	16074	223985	2.39%	0.090%
208	14.079	14.010	14.102	VV	35273	875794	9.33%	0.352%
209	14.121	14.102	14.165	VV	26350	459174	4.89%	0.185%
210	14.179	14.165	14.194	VV	4939	77440	0.83%	0.031%
211	14.207	14.194	14.218	VV	3549	45752	0.49%	0.018%
212	14.244	14.218	14.264	VV	8300	152873	1.63%	0.062%
213	14.273	14.264	14.295	VV	4179	68647	0.73%	0.028%
214	14.309	14.295	14.323	VV	3205	44552	0.47%	0.018%
215	14.333	14.323	14.368	VV	2746	36311	0.39%	0.015%
216	14.392	14.368	14.424	PV	4977	90067	0.96%	0.036%
217	14.442	14.424	14.454	VV	3528	47075	0.50%	0.019%
218	14.510	14.454	14.522	VV	10543	291611	3.11%	0.117%
219	14.538	14.522	14.549	VV	13984	184245	1.96%	0.074%
220	14.563	14.549	14.582	VV	16231	240519	2.56%	0.097%
221	14.592	14.582	14.623	VV	9453	197409	2.10%	0.079%
222	14.646	14.623	14.689	VV	10346	254941	2.72%	0.103%
223	14.724	14.689	14.753	VV	29111	482668	5.14%	0.194%
224	14.780	14.753	14.821	VV	47052	880956	9.39%	0.354%
225	14.840	14.821	14.858	VV	16336	273472	2.91%	0.110%
226	14.873	14.858	14.921	VV	16981	378630	4.04%	0.152%
227	14.943	14.921	14.954	VV	5795	101107	1.08%	0.041%
228	14.974	14.954	15.034	VV	9727	198482	2.12%	0.080%
229	15.095	15.034	15.116	PV	176851	2373501	25.30%	0.955%
230	15.135	15.116	15.228	VV	181353	3014796	32.13%	1.213%
231	15.255	15.228	15.359	VV	37660	953746	10.17%	0.384%
232	15.445	15.359	15.504	VV	17194	546874	5.83%	0.220%
233	15.529	15.504	15.624	VV	11795	475297	5.07%	0.191%
234	15.655	15.624	15.664	PV	8623	105175	1.12%	0.042%
235	15.679	15.664	15.700	VV	12179	174179	1.86%	0.070%
236	15.726	15.700	15.746	VV	11728	171177	1.82%	0.069%
237	15.770	15.746	15.794	VV	40626	593701	6.33%	0.239%
238	15.810	15.794	15.845	VV	17561	305599	3.26%	0.123%
239	15.874	15.845	15.892	VV	9587	194800	2.08%	0.078%
240	15.914	15.892	15.984	VV	21625	707736	7.54%	0.285%
241	16.002	15.984	16.026	VV	9314	153840	1.64%	0.062%
242	16.037	16.026	16.073	VV	4600	84705	0.90%	0.034%
243	16.095	16.073	16.128	VV	7723	131899	1.41%	0.053%
244	16.159	16.128	16.173	VV	6449	106372	1.13%	0.043%
245	16.194	16.173	16.228	VV	7820	185445	1.98%	0.075%
246	16.235	16.228	16.264	VV	4337	51863	0.55%	0.021%

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247	16.275	16.264	16.314	VV	2853	37750	0.40%	0.015%
248	16.364	16.314	16.393	PV	9451	224344	2.39%	0.090%
249	16.463	16.393	16.501	PV	14039	451942	4.82%	0.182%
250	16.517	16.501	16.530	VV	6729	93294	0.99%	0.038%
251	16.582	16.530	16.607	VV	9903	378666	4.04%	0.152%
252	16.663	16.607	16.683	VV	155729	2498798	26.63%	1.005%
253	16.690	16.683	16.757	VV	69765	1485217	15.83%	0.598%
254	16.794	16.757	16.883	VV	40675	1575936	16.80%	0.634%
255	16.938	16.883	16.960	VV	32316	900372	9.60%	0.362%
256	16.985	16.960	17.023	VV	90854	1742932	18.58%	0.701%
257	17.048	17.023	17.089	VV	94601	1954838	20.84%	0.787%
258	17.098	17.089	17.110	VV	33687	397009	4.23%	0.160%
259	17.148	17.110	17.178	VV	47172	1463846	15.60%	0.589%
260	17.191	17.178	17.218	VV	26919	569931	6.07%	0.229%
261	17.230	17.218	17.244	VV	22414	333111	3.55%	0.134%
262	17.286	17.244	17.306	VV	30523	948411	10.11%	0.382%
263	17.343	17.306	17.373	VV	31194	1066364	11.37%	0.429%
264	17.419	17.373	17.468	VV	35668	1581898	16.86%	0.636%
265	17.519	17.468	17.531	VV	34263	1072431	11.43%	0.431%
266	17.549	17.531	17.568	VV	34213	696822	7.43%	0.280%
267	17.587	17.568	17.609	VV	33929	763154	8.13%	0.307%
268	17.628	17.609	17.640	VV	31806	562136	5.99%	0.226%
269	17.667	17.640	17.688	VV	39018	906552	9.66%	0.365%
270	17.740	17.688	17.784	VV	36441	1721417	18.35%	0.693%
271	17.835	17.784	17.863	VV	29210	1226567	13.07%	0.494%
272	17.892	17.863	17.921	VV	36007	1089811	11.62%	0.438%
273	17.935	17.921	17.943	VV	33639	431187	4.60%	0.173%
274	17.965	17.943	17.978	VV	42678	815946	8.70%	0.328%
275	17.992	17.978	18.021	VV	48023	1068843	11.39%	0.430%
276	18.034	18.021	18.067	VV	33418	864546	9.21%	0.348%
277	18.134	18.067	18.210	VV	70183	3709293	39.54%	1.492%
278	18.231	18.210	18.254	VV	38249	931243	9.93%	0.375%
279	18.279	18.254	18.287	VV	37253	693891	7.40%	0.279%
280	18.336	18.287	18.396	VV	54330	2809586	29.95%	1.130%
281	18.440	18.396	18.456	VV	57381	1679077	17.90%	0.676%
282	18.467	18.456	18.481	VV	56447	791041	8.43%	0.318%
283	18.501	18.481	18.557	VV	77495	2539683	27.07%	1.022%
284	18.584	18.557	18.603	VV	46516	1237900	13.19%	0.498%
285	18.621	18.603	18.641	VV	46162	1015888	10.83%	0.409%
286	18.653	18.641	18.668	VV	46270	689093	7.34%	0.277%
287	18.695	18.668	18.724	VV	61623	1721916	18.35%	0.693%
288	18.733	18.724	18.750	VV	48144	680722	7.26%	0.274%
289	18.770	18.750	18.780	VV	46374	793198	8.45%	0.319%
290	18.826	18.780	18.871	VV	56485	2658139	28.33%	1.069%
291	18.888	18.871	18.899	VV	50247	772233	8.23%	0.311%
292	18.924	18.899	18.948	VV	75070	1778685	18.96%	0.716%
293	18.974	18.948	19.043	VV	74944	3145732	33.53%	1.266%
294	19.059	19.043	19.075	VV	52014	958326	10.21%	0.386%
295	19.106	19.075	19.134	VV	61449	1939237	20.67%	0.780%
296	19.254	19.134	19.290	VV	73915	5405139	57.61%	2.175%
297	19.323	19.290	19.351	VV	70321	2288465	24.39%	0.921%
298	19.430	19.351	19.458	VV	65333	3805393	40.56%	1.531%
299	19.481	19.458	19.491	VV	63634	1197445	12.76%	0.482%

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300	19.508	19.491	19.520	VV	66510	1089617	11.61%	0.438%
301	19.537	19.520	19.558	VV	65906	1421126	15.15%	0.572%
302	19.584	19.558	19.597	VV	69111	1550597	16.53%	0.624%
303	19.634	19.597	19.666	VV	89364	3073015	32.75%	1.236%
304	19.680	19.666	19.701	VV	71250	1452410	15.48%	0.584%
305	19.725	19.701	19.755	VV	83933	2443588	26.05%	0.983%
306	19.765	19.755	19.772	VV	71553	707116	7.54%	0.285%
307	19.795	19.772	19.805	VV	73614	1378300	14.69%	0.555%
308	19.822	19.805	19.832	VV	76016	1182560	12.60%	0.476%
309	19.896	19.832	19.913	VV	79810	3751909	39.99%	1.510%
310	19.964	19.913	19.981	VV	90835	3408546	36.33%	1.371%
311	19.995	19.981	20.005	VV	89498	1224130	13.05%	0.493%
312	20.032	20.005	20.065	VV	99795	3281861	34.98%	1.320%
313	20.082	20.065	20.091	VV	85135	1290929	13.76%	0.519%
314	20.135	20.091	20.173	VV	96385	4395887	46.85%	1.769%
315	20.196	20.173	20.204	VV	91529	1617958	17.25%	0.651%
316	20.212	20.204	20.219	VV	92470	823115	8.77%	0.331%
317	20.254	20.219	20.294	VV	105733	4432717	47.25%	1.783%
318	20.328	20.294	20.338	VV	99614	2514527	26.80%	1.012%
319	20.368	20.338	20.391	VV	105028	3207274	34.19%	1.290%
320	20.418	20.391	20.475	VV	115138	5355052	57.08%	2.155%
321	20.487	20.475	20.529	VV	108267	3417233	36.42%	1.375%
322	20.556	20.529	20.581	VV	116057	3476812	37.06%	1.399%
323	20.591	20.581	20.604	VV	109893	1473688	15.71%	0.593%
324	20.631	20.604	20.654	VV	113407	3267924	34.83%	1.315%
325	20.707	20.654	20.794	VV	121818	9381987	100.00%	3.775%
326	20.811	20.794	20.848	VV	116809	3544325	37.78%	1.426%
327	20.865	20.848	20.878	VV	106993	1874802	19.98%	0.754%
328	20.887	20.878	20.909	VV	105547	1972992	21.03%	0.794%
329	20.928	20.909	20.991	VV	106047	4889563	52.12%	1.967%
330	21.024	20.991	21.040	VV	94887	2710242	28.89%	1.090%
331	21.075	21.040	21.194	VV	95977	7793489	83.07%	3.136%
332	21.200	21.194	21.220	VV	75257	1144963	12.20%	0.461%
333	21.236	21.220	21.261	VV	76134	1753377	18.69%	0.705%
334	21.274	21.261	21.301	VV	73286	1687884	17.99%	0.679%
335	21.310	21.301	21.351	VV	68980	1972639	21.03%	0.794%
336	21.374	21.351	21.415	VV	64722	2300466	24.52%	0.926%
337	21.438	21.415	21.455	VV	57846	1337129	14.25%	0.538%
338	21.466	21.455	21.471	VV	55104	519672	5.54%	0.209%
339	21.492	21.471	21.556	VV	65682	2685972	28.63%	1.081%
340	21.576	21.556	21.591	VV	45919	901718	9.61%	0.363%
341	21.609	21.591	21.642	VV	42747	1196098	12.75%	0.481%
342	21.658	21.642	21.694	VV	38445	1072622	11.43%	0.432%
343	21.723	21.694	21.742	VV	34818	862381	9.19%	0.347%
344	21.750	21.742	21.761	VV	26428	284466	3.03%	0.114%
345	21.775	21.761	21.835	VV	26433	990402	10.56%	0.398%
346	21.844	21.835	21.862	VV	19462	302934	3.23%	0.122%
347	21.867	21.862	21.878	VV	18002	165405	1.76%	0.067%
348	21.887	21.878	21.914	VV	17397	337872	3.60%	0.136%
349	21.959	21.914	22.014	VV	22351	810920	8.64%	0.326%
350	22.020	22.014	22.068	VV	6383	88040	0.94%	0.035%

Sum of corrected areas: 248541928

rteres

Aliphatic EPH 110724.M Fri Nov 08 02:34:32 2024

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-1(0-6)DL	SDG No.:	P4722
Lab Sample ID:	P4722-03DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051107.D	5	11/07/24	11/08/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	34.9		9.14	21.3	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	111		9.57	10.6	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	10.0		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	7.80		40 - 140	78%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-03DL	Acq On:	08 Nov 2024 08:06
Client Sample ID:	WC-1(0-6)DL	Operator:	YP\AJ
Data file:	FE051107.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.758	177826	1.271	300	ug/ml
Aliphatic C12-C16	6.759	10.191	1808787	12.862	200	ug/ml
Aliphatic C16-C21	10.192	13.550	5580024	40.503	300	ug/ml
Aliphatic C21-C28	13.551	17.206	6028165	45.003	400	ug/ml
Aliphatic C28-C40	17.207	22.053	40475708	314.378	600	ug/ml
Aliphatic EPH	3.140	22.053	54070510	414.016		ug/ml
ortho-Terphenyl (SURR)	11.849	11.849	1171181	7.8		ug/ml
1-chlorooctadecane (SURR)	13.283	13.283	1139588	10.04		ug/ml
Aliphatic C9-C28	3.140	17.206	13594802	99.639	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
 Data File : FE051107.D
 Signal(s) : FID1B.ch
 Acq On : 08 Nov 2024 08:06
 Operator : YP\AJ
 Sample : P4722-03DL 5X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 WC-1(0-6)DL

Integration File: sample.E
 Quant Time: Nov 09 00:40:59 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.849	1171181	7.803 ug/ml
Spiked Amount 50.000		Recovery =	15.61%
12) S 1-chlorooctadecane (S...	13.283	1139588	10.038 ug/ml
Spiked Amount 50.000		Recovery =	20.08%

Target Compounds

(f)=RT Delta > 1/2 Window

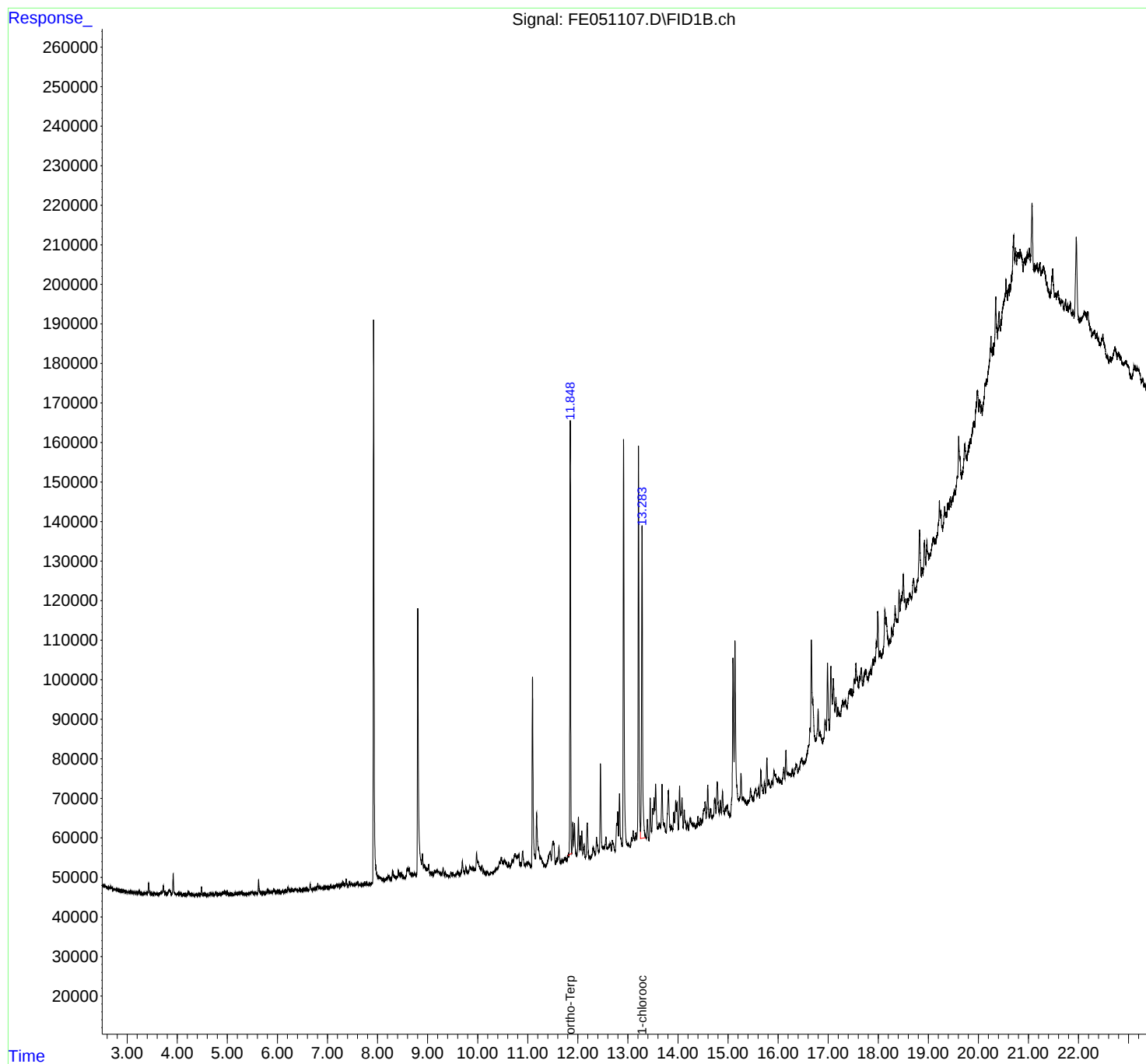
(m)=manual int.

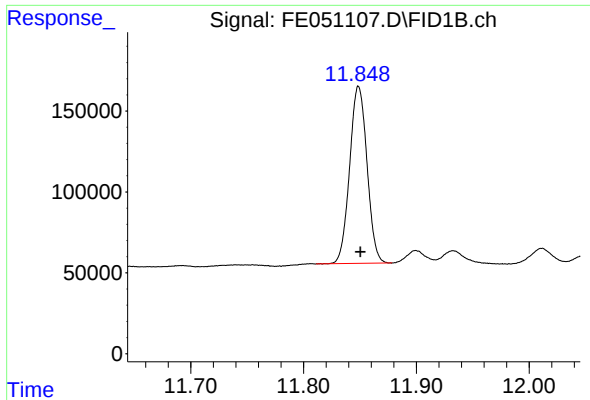
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
Data File : FE051107.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 08:06
Operator : YP\AJ
Sample : P4722-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WC-1(0-6)DL

Integration File: sample.E
Quant Time: Nov 09 00:40:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

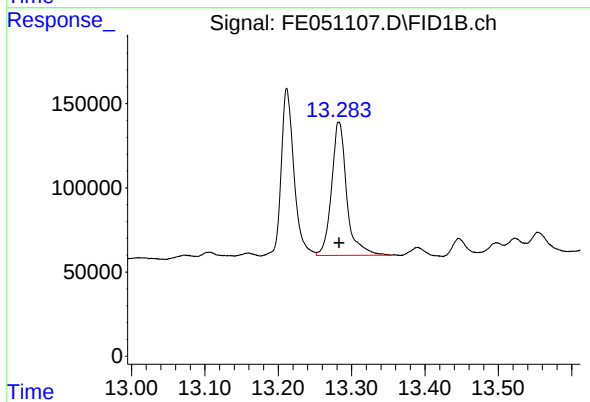




#9 ortho-Terphenyl (SURR)

R.T.: 11.849 min
Delta R.T.: -0.002 min
Response: 1171181
Conc: 7.80 ug/ml

Instrument :
FID_E
ClientSampleId :
WC-1(0-6)DL



#12 1-chlorooctadecane (SURR)

R.T.: 13.283 min
Delta R.T.: 0.000 min
Response: 1139588
Conc: 10.04 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
Data File : FE051107.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 08:06
Sample : P4722-03DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	5.803	5.785	5.841	VV	839	15730	0.49%	0.028%
2	5.852	5.841	5.874	VV	264	3180	0.10%	0.006%
3	5.884	5.874	5.899	VV	246	2147	0.07%	0.004%
4	5.925	5.899	5.964	VV	770	16015	0.50%	0.029%
5	5.982	5.964	6.001	VV	344	5496	0.17%	0.010%
6	6.017	6.001	6.041	VV	366	6144	0.19%	0.011%
7	6.052	6.041	6.088	VV	250	3387	0.11%	0.006%
8	6.102	6.088	6.121	PV	437	4000	0.13%	0.007%
9	6.150	6.121	6.177	VV	587	8031	0.25%	0.015%
10	6.211	6.177	6.241	VV	1174	21029	0.66%	0.038%
11	6.250	6.241	6.270	VV	562	6622	0.21%	0.012%
12	6.297	6.270	6.321	VV	804	11702	0.37%	0.021%
13	6.338	6.321	6.350	VV	482	5864	0.18%	0.011%
14	6.363	6.350	6.412	VV	646	12836	0.40%	0.023%
15	6.443	6.412	6.464	VV	385	8600	0.27%	0.016%
16	6.479	6.464	6.502	VV	313	5412	0.17%	0.010%
17	6.593	6.547	6.606	VV	423	10496	0.33%	0.019%
18	6.611	6.606	6.634	VV	241	2465	0.08%	0.004%
19	6.654	6.634	6.704	VV	1673	21808	0.68%	0.039%
20	6.740	6.704	6.760	PV	348	6862	0.21%	0.012%
21	6.776	6.760	6.786	VV	363	4390	0.14%	0.008%
22	6.806	6.786	6.826	VV	1643	20531	0.64%	0.037%
23	6.840	6.826	6.870	VV	703	12004	0.38%	0.022%
24	6.880	6.870	6.891	VV	404	4237	0.13%	0.008%
25	6.906	6.891	6.922	VV	426	6168	0.19%	0.011%
26	6.940	6.922	6.958	VV	457	7884	0.25%	0.014%
27	6.980	6.958	7.001	VV	649	10893	0.34%	0.020%
28	7.016	7.001	7.031	VV	470	6040	0.19%	0.011%
29	7.063	7.031	7.094	VV	586	15775	0.49%	0.029%
30	7.116	7.094	7.134	VV	495	8835	0.28%	0.016%
31	7.185	7.134	7.206	VV	936	25341	0.79%	0.046%
32	7.274	7.258	7.288	VV	850	11688	0.37%	0.021%
33	7.306	7.288	7.351	VV	1336	34480	1.08%	0.062%
34	7.439	7.408	7.460	VV	1320	23383	0.73%	0.042%
35	7.473	7.460	7.531	VV	805	21452	0.67%	0.039%
36	7.601	7.531	7.630	VV	1196	33621	1.05%	0.061%

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37	7.687	7.630	7.710	VV	434	14289	0.45%	0.026%
38	7.777	7.710	7.804	VV	912	22909	0.72%	0.041%
39	7.830	7.804	7.841	VV	267	4902	0.15%	0.009%
40	8.030	8.021	8.048	VV	1897	28324	0.89%	0.051%
41	8.056	8.048	8.108	VV	1746	50591	1.58%	0.091%
42	8.128	8.108	8.143	VV	1186	21755	0.68%	0.039%
43	8.210	8.187	8.224	VV	2079	36113	1.13%	0.065%
44	8.233	8.224	8.258	VV	1559	26126	0.82%	0.047%
45	8.417	8.373	8.433	VV	2907	67933	2.12%	0.123%
46	8.445	8.433	8.461	VV	2382	35227	1.10%	0.064%
47	8.481	8.461	8.513	VV	2401	54503	1.70%	0.098%
48	8.528	8.513	8.546	VV	1382	24155	0.75%	0.044%
49	8.634	8.621	8.681	VV	3350	82654	2.58%	0.149%
50	8.696	8.681	8.711	VV	1899	32475	1.02%	0.059%
51	8.734	8.711	8.745	VV	2084	35980	1.12%	0.065%
52	8.752	8.745	8.777	VV	1720	31887	1.00%	0.058%
53	8.897	8.878	8.920	VV	6819	128048	4.00%	0.231%
54	8.934	8.920	8.958	VV	3901	78133	2.44%	0.141%
55	8.968	8.958	8.987	VV	3126	51340	1.60%	0.093%
56	9.020	8.987	9.055	VV	4021	106742	3.34%	0.193%
57	9.069	9.055	9.081	VV	1650	25748	0.80%	0.047%
58	9.095	9.081	9.114	VV	1598	29295	0.92%	0.053%
59	9.139	9.114	9.160	VV	2468	50708	1.58%	0.092%
60	9.274	9.257	9.290	VV	1422	26810	0.84%	0.048%
61	9.309	9.290	9.332	VV	2787	45822	1.43%	0.083%
62	9.351	9.332	9.377	VV	1725	30397	0.95%	0.055%
63	9.391	9.377	9.414	VV	894	16566	0.52%	0.030%
64	9.694	9.629	9.734	VV	4152	105466	3.30%	0.191%
65	9.810	9.798	9.820	VV	1329	15718	0.49%	0.028%
66	9.864	9.856	9.881	VV	2398	31339	0.98%	0.057%
67	9.900	9.881	9.947	VV	2195	71745	2.24%	0.130%
68	9.979	9.947	10.001	VV	5939	113693	3.55%	0.205%
69	10.086	10.069	10.105	VV	2470	37811	1.18%	0.068%
70	10.119	10.105	10.161	VV	1324	26861	0.84%	0.049%
71	10.196	10.161	10.231	VV	653	18703	0.58%	0.034%
72	10.273	10.231	10.292	PV	546	12109	0.38%	0.022%
73	10.476	10.450	10.513	VV	3907	110990	3.47%	0.201%
74	10.533	10.513	10.599	VV	3137	123136	3.85%	0.222%
75	10.618	10.599	10.644	VV	2404	45462	1.42%	0.082%
76	10.747	10.705	10.770	VV	4215	135923	4.25%	0.246%
77	10.788	10.770	10.807	VV	3693	77360	2.42%	0.140%
78	10.821	10.807	10.843	VV	4014	62487	1.95%	0.113%
79	10.856	10.843	10.873	VV	1822	28290	0.88%	0.051%
80	10.898	10.873	10.946	VV	4595	104596	3.27%	0.189%
81	10.969	10.946	10.981	VV	1408	24728	0.77%	0.045%
82	10.998	10.981	11.011	VV	1678	25246	0.79%	0.046%
83	11.025	11.011	11.058	VV	1504	30012	0.94%	0.054%
84	11.095	11.058	11.154	VV	48048	676867	21.16%	1.223%
85	11.267	11.258	11.360	VV	1989	51854	1.62%	0.094%
86	11.441	11.360	11.470	PV	3057	112192	3.51%	0.203%
87	11.503	11.470	11.551	VV	5838	179813	5.62%	0.325%
88	11.584	11.551	11.594	VV	1338	20800	0.65%	0.038%
89	11.622	11.594	11.667	VV	4122	74100	2.32%	0.134%

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90	11.692	11.667	11.708	VV	896	11956	0.37%	0.022%
91	11.753	11.708	11.776	VV	1241	34218	1.07%	0.062%
92	11.849	11.776	11.878	VV	111386	1272511	39.77%	2.299%
93	11.900	11.878	11.917	VV	9726	136432	4.26%	0.247%
94	11.933	11.917	11.981	VV	9576	166827	5.21%	0.301%
95	12.011	11.981	12.033	VV	10913	168039	5.25%	0.304%
96	12.079	12.063	12.104	VV	7398	111361	3.48%	0.201%
97	12.124	12.104	12.151	VV	3539	59402	1.86%	0.107%
98	12.188	12.151	12.222	VV	9101	160207	5.01%	0.289%
99	12.231	12.222	12.249	VV	543	5108	0.16%	0.009%
100	12.374	12.354	12.418	VV	4905	101537	3.17%	0.183%
101	12.511	12.495	12.528	VV	2171	37388	1.17%	0.068%
102	12.561	12.528	12.594	VV	4386	96671	3.02%	0.175%
103	12.621	12.594	12.631	VV	2048	35367	1.11%	0.064%
104	12.648	12.631	12.671	VV	2526	41831	1.31%	0.076%
105	12.691	12.671	12.748	VV	3015	67983	2.12%	0.123%
106	12.797	12.748	12.813	VV	9794	217748	6.81%	0.393%
107	12.832	12.813	12.887	VV	14414	251657	7.87%	0.455%
108	13.011	12.996	13.048	VV	1017	19488	0.61%	0.035%
109	13.074	13.048	13.087	PV	2277	35657	1.11%	0.064%
110	13.106	13.087	13.141	VV	3988	80410	2.51%	0.145%
111	13.159	13.141	13.176	VV	3286	51077	1.60%	0.092%
112	13.212	13.176	13.252	VV	100800	1261813	39.44%	2.280%
113	13.390	13.368	13.423	VV	5788	90738	2.84%	0.164%
114	13.446	13.423	13.472	VV	10711	151230	4.73%	0.273%
115	13.498	13.472	13.507	VV	8124	116111	3.63%	0.210%
116	13.523	13.507	13.537	VV	10664	155100	4.85%	0.280%
117	13.555	13.537	13.596	VV	14109	275195	8.60%	0.497%
118	13.627	13.596	13.651	VV	3812	105599	3.30%	0.191%
119	13.809	13.768	13.850	VV	11391	273946	8.56%	0.495%
120	13.867	13.850	13.894	VV	2403	46918	1.47%	0.085%
121	14.126	14.106	14.170	VV	5404	101268	3.17%	0.183%
122	14.189	14.170	14.210	VV	1780	24352	0.76%	0.044%
123	14.245	14.210	14.313	VV	2820	90200	2.82%	0.163%
124	14.324	14.313	14.351	VV	1271	15012	0.47%	0.027%
125	14.364	14.351	14.373	PV	568	3557	0.11%	0.006%
126	14.396	14.373	14.427	VV	2679	37843	1.18%	0.068%
127	14.446	14.427	14.463	VV	1974	25246	0.79%	0.046%
128	14.476	14.463	14.480	VV	1164	8707	0.27%	0.016%
129	14.516	14.480	14.525	VV	4137	73082	2.28%	0.132%
130	14.595	14.562	14.627	VV	9851	177184	5.54%	0.320%
131	14.734	14.701	14.759	VV	5873	124805	3.90%	0.226%
132	14.847	14.828	14.867	VV	4661	73500	2.30%	0.133%
133	14.890	14.867	14.927	VV	6914	127034	3.97%	0.230%
134	14.946	14.927	14.954	VV	2366	30288	0.95%	0.055%
135	14.981	14.954	15.039	VV	2963	81255	2.54%	0.147%
136	15.139	15.119	15.199	VV	43631	800535	25.02%	1.446%
137	15.208	15.199	15.224	VV	3262	44825	1.40%	0.081%
138	15.259	15.224	15.288	VV	9115	185820	5.81%	0.336%
139	15.401	15.374	15.411	VV	1257	17491	0.55%	0.032%
140	15.499	15.488	15.510	VV	1307	11446	0.36%	0.021%
141	15.551	15.510	15.582	VV	2963	84003	2.63%	0.152%

					rteres			
142	15.726	15.702	15.750	VV	3322	55378	1.73%	0.100%
143	15.776	15.750	15.801	VV	9006	138124	4.32%	0.250%
144	15.814	15.801	15.851	VV	3319	64240	2.01%	0.116%
145	15.876	15.851	15.898	VV	2324	49454	1.55%	0.089%
146	16.011	15.988	16.029	VV	2147	38962	1.22%	0.070%
147	16.055	16.029	16.074	VV	1088	22283	0.70%	0.040%
148	16.115	16.074	16.133	PV	3935	73228	2.29%	0.132%
149	16.156	16.133	16.182	VV	7718	116859	3.65%	0.211%
150	16.195	16.182	16.204	VV	1973	23690	0.74%	0.043%
151	16.214	16.204	16.225	VV	1547	17215	0.54%	0.031%
152	16.241	16.225	16.268	VV	1323	24783	0.77%	0.045%
153	16.362	16.313	16.394	PV	2523	68429	2.14%	0.124%
154	16.473	16.394	16.501	PV	2618	85769	2.68%	0.155%
155	16.665	16.501	16.744	VV	29194	949273	29.67%	1.715%
156	16.756	16.744	16.763	VV	3227	32823	1.03%	0.059%
157	16.800	16.763	16.894	VV	9575	276874	8.65%	0.500%
158	16.937	16.894	16.961	PV	5080	96984	3.03%	0.175%
159	16.988	16.961	17.023	VV	18383	301940	9.44%	0.546%
160	17.054	17.023	17.083	VV	16410	312583	9.77%	0.565%
161	17.104	17.083	17.136	VV	12560	263709	8.24%	0.476%
162	17.155	17.136	17.177	VV	6910	115463	3.61%	0.209%
163	17.194	17.177	17.218	VV	3763	60991	1.91%	0.110%
164	17.234	17.218	17.250	VV	1498	23387	0.73%	0.042%
165	17.292	17.250	17.312	VV	3565	92700	2.90%	0.168%
166	17.345	17.312	17.380	VV	2678	82048	2.56%	0.148%
167	17.420	17.380	17.433	VV	3896	79521	2.49%	0.144%
168	17.444	17.433	17.459	VV	4014	50880	1.59%	0.092%
169	17.470	17.459	17.484	VV	3535	40226	1.26%	0.073%
170	17.523	17.484	17.535	VV	4984	104258	3.26%	0.188%
171	17.555	17.535	17.574	VV	8502	144708	4.52%	0.261%
172	17.583	17.574	17.607	VV	4267	64448	2.01%	0.116%
173	17.626	17.607	17.636	VV	3939	48791	1.53%	0.088%
174	17.663	17.636	17.688	VV	4985	110840	3.46%	0.200%
175	17.755	17.688	17.803	VV	3428	133897	4.19%	0.242%
176	17.854	17.803	17.866	PV	2120	46071	1.44%	0.083%
177	17.893	17.866	17.911	VV	3301	54471	1.70%	0.098%
178	17.928	17.911	17.938	VV	3211	39173	1.22%	0.071%
179	17.991	17.938	18.021	VV	13472	296738	9.27%	0.536%
180	18.034	18.021	18.072	VV	2366	41670	1.30%	0.075%
181	18.132	18.072	18.149	PV	10796	205091	6.41%	0.371%
182	18.161	18.149	18.212	VV	8221	160214	5.01%	0.289%
183	18.223	18.212	18.240	VV	1337	14616	0.46%	0.026%
184	18.267	18.240	18.289	VV	3392	49523	1.55%	0.089%
185	18.336	18.289	18.367	VV	7512	180518	5.64%	0.326%
186	18.379	18.367	18.393	VV	3103	43502	1.36%	0.079%
187	18.415	18.393	18.431	VV	9628	135675	4.24%	0.245%
188	18.464	18.431	18.476	VV	7120	161008	5.03%	0.291%
189	18.499	18.476	18.551	VV	12039	304263	9.51%	0.550%
190	18.578	18.551	18.598	VV	3912	85872	2.68%	0.155%
191	18.622	18.598	18.660	VV	4353	124865	3.90%	0.226%
192	18.703	18.660	18.758	VV	6561	221514	6.92%	0.400%
193	18.824	18.758	18.864	VV	16024	454698	14.21%	0.822%
194	18.874	18.864	18.894	VV	5151	78738	2.46%	0.142%

rteres								
195	18.922	18.894	18.951	VV	10997	244121	7.63%	0.441%
196	18.972	18.951	19.006	VV	10327	241766	7.56%	0.437%
197	19.036	19.006	19.048	VV	5641	134648	4.21%	0.243%
198	19.107	19.048	19.119	VV	8055	295119	9.22%	0.533%
199	19.135	19.119	19.151	VV	7140	126779	3.96%	0.229%
200	19.222	19.151	19.240	VV	14943	499408	15.61%	0.902%
201	19.251	19.240	19.286	VV	11800	251827	7.87%	0.455%
202	19.326	19.286	19.355	VV	11022	357887	11.19%	0.647%
203	19.399	19.355	19.418	VV	10181	354728	11.09%	0.641%
204	19.440	19.418	19.451	VV	11264	201012	6.28%	0.363%
205	19.486	19.451	19.494	VV	10276	249583	7.80%	0.451%
206	19.518	19.494	19.531	VV	11537	229229	7.16%	0.414%
207	19.535	19.531	19.541	VV	10655	62090	1.94%	0.112%
208	19.607	19.541	19.661	VV	22506	1066558	33.34%	1.927%
209	19.729	19.661	19.751	VV	18453	779775	24.37%	1.409%
210	19.763	19.751	19.774	VV	14747	193354	6.04%	0.349%
211	19.839	19.774	19.851	VV	16914	734412	22.95%	1.327%
212	19.902	19.851	19.928	VV	19749	852638	26.65%	1.541%
213	19.984	19.928	20.006	VV	26495	1085502	33.93%	1.961%
214	20.017	20.006	20.049	VV	23323	568261	17.76%	1.027%
215	20.067	20.049	20.077	VV	20786	335016	10.47%	0.605%
216	20.137	20.077	20.151	VV	24738	976568	30.52%	1.765%
217	20.162	20.151	20.170	VV	25266	278295	8.70%	0.503%
218	20.251	20.170	20.278	VV	33966	1861254	58.18%	3.363%
219	20.295	20.278	20.304	VV	31072	479402	14.98%	0.866%
220	20.347	20.304	20.383	VV	42144	1644015	51.39%	2.971%
221	20.416	20.383	20.441	VV	36978	1184568	37.02%	2.140%
222	20.553	20.441	20.584	VV	42088	3199393	100.00%	5.781%
223	20.607	20.584	20.619	VV	39479	781475	24.43%	1.412%
224	20.704	20.619	20.727	VV	50040	2740223	85.65%	4.951%
225	20.744	20.727	20.764	VV	46058	984528	30.77%	1.779%
226	20.799	20.764	20.815	VV	43795	1327006	41.48%	2.398%
227	20.834	20.815	20.890	VV	43687	1859846	58.13%	3.361%
228	20.922	20.890	20.938	VV	39528	1125216	35.17%	2.033%
229	20.949	20.938	20.954	VV	38932	371322	11.61%	0.671%
230	20.975	20.954	20.993	VV	39954	903337	28.23%	1.632%
231	21.018	20.993	21.039	VV	39819	1052694	32.90%	1.902%
232	21.072	21.039	21.107	VV	50182	1664173	52.02%	3.007%
233	21.119	21.107	21.134	VV	33772	550646	17.21%	0.995%
234	21.159	21.134	21.167	VV	32833	637288	19.92%	1.152%
235	21.176	21.167	21.198	VV	32485	577489	18.05%	1.043%
236	21.231	21.198	21.248	VV	31847	924066	28.88%	1.670%
237	21.300	21.248	21.323	VV	29485	1287583	40.24%	2.327%
238	21.330	21.323	21.358	VV	27459	547530	17.11%	0.989%
239	21.368	21.358	21.434	VV	23672	980154	30.64%	1.771%
Sum of corrected areas:						55343017		

Aliphatic EPH 110724.M Mon Nov 11 02:21:29 2024

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
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
11/07/24 09:50	11/08/24 8:36	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	126		5	9.99	11.1	mg/kg FE051108.D
Aliphatic C9-C28	Aliphatic C9-C28	35.7		1	1.91	4.44	mg/kg FE051088.D
Total AliphaticEPH	Total AliphaticEPH	162			11.9	15.5	mg/kg
Total EPH	Total EPH	162			11.9	15.5	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:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
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
FE051088.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	35.7		1.91	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	120	E	2.00	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.8		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.4		40 - 140	63%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-08	Acq On:	07 Nov 2024 17:10
Client Sample ID:	WC-2(0-6)	Operator:	YP\AJ
Data file:	FE051088.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.757	1980327	14.154	300	ug/ml
Aliphatic C12-C16	6.758	10.189	4610687	32.785	200	ug/ml
Aliphatic C16-C21	10.190	13.548	22243582	161.457	300	ug/ml
Aliphatic C21-C28	13.549	17.202	36797174	274.705	400	ug/ml
Aliphatic C28-C40	17.203	22.047	210369563	1630	600	ug/ml
Aliphatic EPH	3.140	22.047	276001333	2120		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	4714414	31.41		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	4513924	39.76		ug/ml
Aliphatic C9-C28	3.140	17.202	65631770	483.101	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
 Data File : FE051088.D
 Signal(s) : FID1B.ch
 Acq On : 07 Nov 2024 17:10
 Operator : YP\AJ
 Sample : P4722-08
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 WC-2(0-6)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
 Quant Time: Nov 08 02:03:03 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.853	4714414	31.409 ug/mlm
Spiked Amount 50.000		Recovery =	62.82%
12) S 1-chlorooctadecane (S...	13.286	4513924	39.759 ug/ml
Spiked Amount 50.000		Recovery =	79.52%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
Data File : FE051088.D
Signal(s) : FID1B.ch
Acq On : 07 Nov 2024 17:10
Operator : YP\AJ
Sample : P4722-08
Misc :
ALS Vial : 13 Sample Multiplier: 1

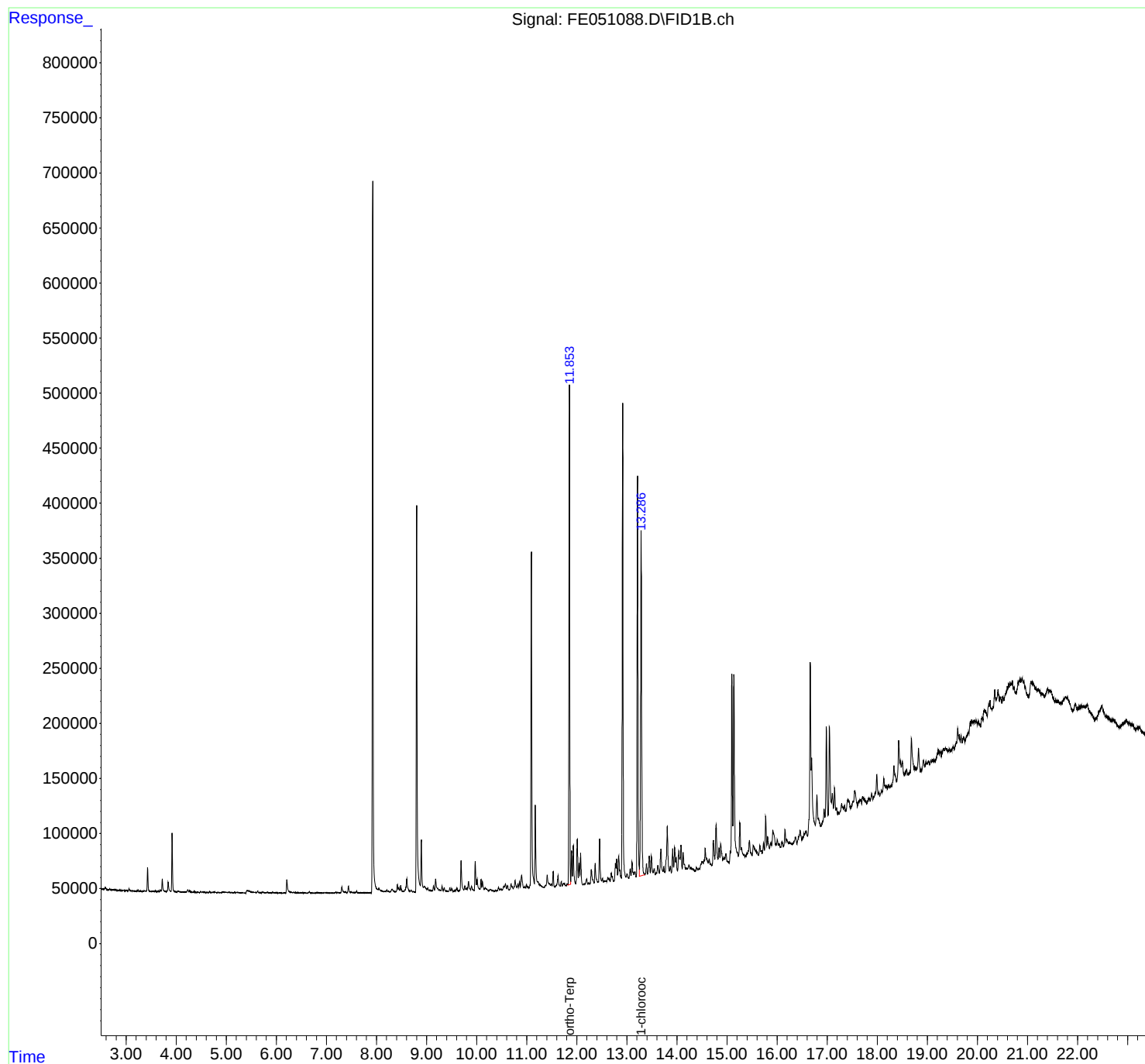
Instrument :
FID_E
ClientSampleId :
WC-2(0-6)

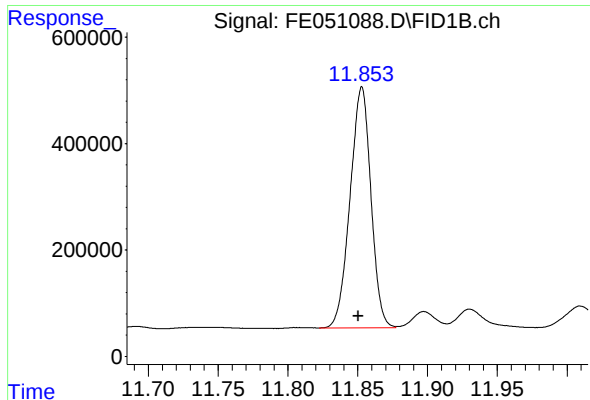
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
Quant Time: Nov 08 02:03:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





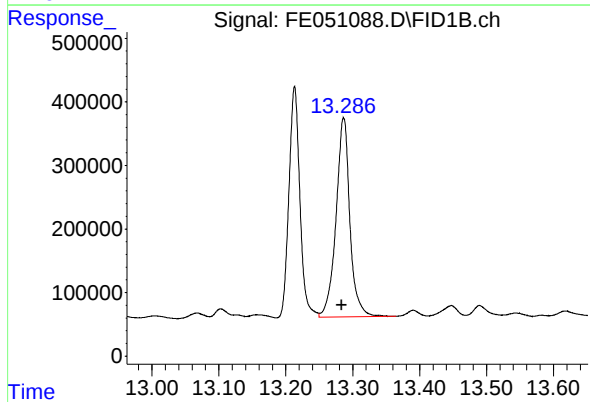
#9 ortho-Terphenyl (SURR)

R.T.: 11.853 min
Delta R.T.: 0.002 min
Response: 4714414
Conc: 31.41 ug/ml

Instrument :
FID_E
ClientSampleId :
WC-2(0-6)

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.286 min
Delta R.T.: 0.003 min
Response: 4513924
Conc: 39.76 ug/ml

rteres

Instrument :

FID_E

ClientSampleId :

WC-2(0-6)

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11082
Data File : FE051088.D
Signal(s) : FID1B.ch
Acq On : 07 Nov 2024 17:10
Sample : P4722-08
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.205	3.319	BV	828	20843	0.20%	0.007%
2	3.379	3.319	3.397	PV	421	12361	0.12%	0.004%
3	3.428	3.397	3.497	VV	21834	238830	2.26%	0.083%
4	3.515	3.497	3.531	VV	304	4764	0.05%	0.002%
5	3.548	3.531	3.560	VV	405	5178	0.05%	0.002%
6	3.582	3.560	3.621	VV	505	12756	0.12%	0.004%
7	3.641	3.621	3.656	VV	724	8715	0.08%	0.003%
8	3.685	3.656	3.700	VV	1436	23253	0.22%	0.008%
9	3.722	3.700	3.798	VV	11678	154373	1.46%	0.054%
10	3.839	3.798	3.892	VV	9050	133894	1.27%	0.046%
11	3.918	3.892	4.013	VV	53103	556613	5.27%	0.193%
12	4.032	4.013	4.055	VV	601	11332	0.11%	0.004%
13	4.064	4.055	4.118	VV	554	9377	0.09%	0.003%
14	4.142	4.118	4.163	VV	209	3576	0.03%	0.001%
15	4.173	4.163	4.200	VV	168	2576	0.02%	0.001%
16	4.230	4.200	4.252	VV	2268	36448	0.34%	0.013%
17	4.268	4.252	4.342	VV	1617	30503	0.29%	0.011%
18	4.363	4.342	4.404	VV	688	10163	0.10%	0.004%
19	4.427	4.404	4.470	VV	193	3575	0.03%	0.001%
20	4.490	4.470	4.510	PV	922	10359	0.10%	0.004%
21	4.531	4.510	4.601	VV	776	13864	0.13%	0.005%
22	4.611	4.601	4.636	PV	187	1403	0.01%	0.000%
23	4.663	4.636	4.715	VV	894	16738	0.16%	0.006%
24	4.737	4.715	4.755	VV	477	7548	0.07%	0.003%
25	4.772	4.755	4.833	VV	557	13638	0.13%	0.005%
26	4.844	4.833	4.872	VV	236	2998	0.03%	0.001%
27	4.938	4.872	4.980	PV	679	24142	0.23%	0.008%
28	4.996	4.980	5.020	VV	602	10629	0.10%	0.004%
29	5.038	5.020	5.061	VV	579	10348	0.10%	0.004%
30	5.074	5.061	5.094	VV	401	5822	0.06%	0.002%
31	5.117	5.094	5.141	VV	272	4715	0.04%	0.002%
32	5.167	5.141	5.185	VV	520	7129	0.07%	0.002%
33	5.202	5.185	5.215	VV	502	6582	0.06%	0.002%
34	5.218	5.215	5.351	VV	489	15949	0.15%	0.006%
35	5.358	5.351	5.384	PV	72	538	0.01%	0.000%
36	5.413	5.384	5.589	PV	2039	130624	1.24%	0.045%

					rters			
37	5.628	5.589	5.698	VV	1752	39851	0.38%	0.014%
38	5.722	5.698	5.787	VV	983	27212		
39	5.822	5.787	5.871	VV	449	15110		
40	5.925	5.871	5.968	VV	673	19373		
41	5.983	5.968	6.081	VV	357	13506		
42	6.104	6.081	6.137	VV	240	3352		
43	6.155	6.137	6.178	PV	257	3419	0.03%	0.001%
44	6.210	6.178	6.348	VV	11945	226911	2.15%	0.079%
45	6.368	6.348	6.410	VV	635	15710	0.15%	0.005%
46	6.428	6.410	6.453	VV	328	7499	0.07%	0.003%
47	6.460	6.453	6.501	VV	308	5763	0.05%	0.002%
48	6.551	6.501	6.593	VV	396	11903	0.11%	0.004%
49	6.602	6.593	6.611	VV	217	2050	0.02%	0.001%
50	6.619	6.611	6.633	VV	180	2005	0.02%	0.001%
51	6.658	6.633	6.713	VV	1511	20951	0.20%	0.007%
52	6.736	6.713	6.752	VV	245	3556	0.03%	0.001%
53	6.762	6.752	6.771	VV	170	1769	0.02%	0.001%
54	6.779	6.771	6.790	VV	270	2341	0.02%	0.001%
55	6.810	6.790	6.828	VV	601	7962	0.08%	0.003%
56	6.839	6.828	6.875	VV	397	6918	0.07%	0.002%
57	6.915	6.875	6.929	VV	138	2158	0.02%	0.001%
58	6.942	6.929	6.955	PV	258	2214	0.02%	0.001%
59	6.969	6.955	6.995	VV	448	6033	0.06%	0.002%
60	7.006	6.995	7.032	VV	351	4190	0.04%	0.001%
61	7.067	7.032	7.097	VV	257	4908	0.05%	0.002%
62	7.114	7.097	7.145	VV	149	2584	0.02%	0.001%
63	7.185	7.145	7.202	PV	752	12902	0.12%	0.004%
64	7.233	7.202	7.263	VV	515	13255	0.13%	0.005%
65	7.308	7.263	7.365	VV	5311	102086	0.97%	0.035%
66	7.376	7.365	7.414	VV	1120	20388	0.19%	0.007%
67	7.440	7.414	7.528	VV	6385	109076	1.03%	0.038%
68	7.548	7.528	7.568	VV	478	9594	0.09%	0.003%
69	7.604	7.568	7.664	VV	1396	28698	0.27%	0.010%
70	7.672	7.664	7.757	VV	261	8289	0.08%	0.003%
71	7.780	7.757	7.815	VV	297	4601	0.04%	0.002%
72	7.835	7.815	7.861	VV	177	2486	0.02%	0.001%
73	8.047	8.026	8.156	VV	4002	161917	1.53%	0.056%
74	8.205	8.156	8.265	VV	2384	84653	0.80%	0.029%
75	8.306	8.265	8.367	VV	2972	94541	0.89%	0.033%
76	8.417	8.367	8.434	VV	7172	109380	1.04%	0.038%
77	8.446	8.434	8.465	VV	4550	60800	0.58%	0.021%
78	8.484	8.465	8.544	VV	6324	110195	1.04%	0.038%
79	8.605	8.544	8.675	VV	12273	292574	2.77%	0.102%
80	8.693	8.675	8.720	VV	2205	34364	0.33%	0.012%
81	8.734	8.720	8.774	VV	646	10716	0.10%	0.004%
82	8.896	8.874	8.937	VV	47429	641318	6.07%	0.223%
83	8.952	8.937	9.008	VV	5231	168287	1.59%	0.058%
84	9.022	9.008	9.112	VV	3361	112801	1.07%	0.039%
85	9.140	9.112	9.160	VV	5561	83500	0.79%	0.029%
86	9.182	9.160	9.253	VV	11689	247304	2.34%	0.086%
87	9.266	9.253	9.291	VV	1787	34858	0.33%	0.012%
88	9.310	9.291	9.334	VV	5194	72389	0.69%	0.025%
89	9.353	9.334	9.441	VV	3501	72394	0.69%	0.025%

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90	9.466	9.441	9.486	VV	3449	45294	0.43%	0.016%
91	9.504	9.486	9.537	VV	3013	44838		
92	9.561	9.537	9.571	VV	1052	14870		
93	9.603	9.571	9.632	VV	3262	60479		
94	9.690	9.632	9.743	VV	28115	428443		
95	9.766	9.743	9.791	VV	5166	86464		
96	9.809	9.791	9.820	VV	3540	45952	0.43%	0.016%
97	9.839	9.820	9.879	VV	9064	155574	1.47%	0.054%
98	9.899	9.879	9.942	VV	4584	91344	0.86%	0.032%
99	9.973	9.942	9.997	VV	27461	358371	3.39%	0.124%
100	10.011	9.997	10.066	VV	10777	203584	1.93%	0.071%
101	10.088	10.066	10.103	VV	10800	134155	1.27%	0.047%
102	10.118	10.103	10.153	VV	8585	144179	1.36%	0.050%
103	10.175	10.153	10.191	VV	2859	52697	0.50%	0.018%
104	10.201	10.191	10.235	VV	2001	33721	0.32%	0.012%
105	10.278	10.235	10.342	VV	1470	42773	0.40%	0.015%
106	10.393	10.342	10.398	PV	156	3922	0.04%	0.001%
107	10.437	10.398	10.462	VV	3010	45812	0.43%	0.016%
108	10.481	10.462	10.515	VV	1329	28208	0.27%	0.010%
109	10.541	10.515	10.552	VV	3282	47101	0.45%	0.016%
110	10.577	10.552	10.599	VV	5763	106890	1.01%	0.037%
111	10.616	10.599	10.652	VV	4331	63826	0.60%	0.022%
112	10.689	10.652	10.731	PV	5509	110495	1.05%	0.038%
113	10.768	10.731	10.805	VV	8337	175438	1.66%	0.061%
114	10.825	10.805	10.840	VV	4983	68824	0.65%	0.024%
115	10.858	10.840	10.874	VV	7132	89927	0.85%	0.031%
116	10.899	10.874	10.945	VV	12499	265132	2.51%	0.092%
117	10.962	10.945	10.978	VV	1816	28761	0.27%	0.010%
118	10.995	10.978	11.013	VV	3862	47318	0.45%	0.016%
119	11.024	11.013	11.044	VV	1601	23692	0.22%	0.008%
120	11.093	11.044	11.150	VV	305773	3675751	34.79%	1.275%
121	11.172	11.150	11.215	VV	75198	1012796	9.59%	0.351%
122	11.224	11.215	11.252	VV	5919	101343	0.96%	0.035%
123	11.264	11.252	11.335	VV	3029	79576	0.75%	0.028%
124	11.411	11.335	11.448	VV	10986	234833	2.22%	0.081%
125	11.459	11.448	11.476	VV	3381	44260	0.42%	0.015%
126	11.491	11.476	11.507	VV	2756	38776	0.37%	0.013%
127	11.529	11.507	11.555	VV	14118	163482	1.55%	0.057%
128	11.625	11.555	11.671	PV	9868	180289	1.71%	0.063%
129	11.691	11.671	11.711	VV	4526	50491	0.48%	0.018%
130	11.734	11.711	11.788	VV	2444	66802	0.63%	0.023%
131	11.808	11.788	11.820	VV	1925	24237	0.23%	0.008%
132	11.853	11.820	11.879	VV	449766	4756500	45.02%	1.651%
133	11.898	11.879	11.914	VV	31837	372887	3.53%	0.129%
134	11.930	11.914	11.977	VV	36163	519877	4.92%	0.180%
135	12.009	11.977	12.032	VV	41773	618088	5.85%	0.214%
136	12.047	12.032	12.061	VV	19947	238649	2.26%	0.083%
137	12.077	12.061	12.122	VV	28930	395592	3.74%	0.137%
138	12.147	12.122	12.164	PV	1156	16141	0.15%	0.006%
139	12.196	12.164	12.221	VV	5061	81274	0.77%	0.028%
140	12.238	12.221	12.256	VV	1449	16513	0.16%	0.006%
141	12.291	12.256	12.344	VV	13090	253110	2.40%	0.088%

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142	12.369	12.344	12.418	VV	18251	269620	2.55%	0.094%
143	12.456	12.418	12.496	VV	40000	514433		
144	12.513	12.496	12.537	VV	4071	56026		
145	12.555	12.537	12.568	VV	1253	17599		
146	12.572	12.568	12.585	VV	1075	9248		
147	12.619	12.585	12.633	VV	4223	62154		
148	12.644	12.633	12.668	VV	3347	44540	0.42%	0.015%
149	12.689	12.668	12.740	VV	7738	137985	1.31%	0.048%
150	12.772	12.740	12.782	PV	15910	175002	1.66%	0.061%
151	12.796	12.782	12.815	VV	20122	272494	2.58%	0.095%
152	12.837	12.815	12.887	VV	22378	440683	4.17%	0.153%
153	12.916	12.887	12.985	VV	426013	5105440	48.32%	1.772%
154	13.005	12.985	13.038	VV	5156	104870	0.99%	0.036%
155	13.067	13.038	13.086	VV	9481	146977	1.39%	0.051%
156	13.103	13.086	13.141	VV	15579	270038	2.56%	0.094%
157	13.158	13.141	13.185	VV	5978	116136	1.10%	0.040%
158	13.213	13.185	13.250	VV	365172	4192665	39.68%	1.455%
159	13.286	13.250	13.365	VV	317357	4660813	44.11%	1.617%
160	13.391	13.365	13.413	VV	11942	182658	1.73%	0.063%
161	13.447	13.413	13.469	VV	19102	331956	3.14%	0.115%
162	13.490	13.469	13.525	VV	18569	307188	2.91%	0.107%
163	13.544	13.525	13.569	VV	6639	119263	1.13%	0.041%
164	13.583	13.569	13.593	VV	3049	32788	0.31%	0.011%
165	13.618	13.593	13.651	VV	9363	185269	1.75%	0.064%
166	13.679	13.651	13.721	VV	23857	454671	4.30%	0.158%
167	13.738	13.721	13.759	VV	7858	107351	1.02%	0.037%
168	13.807	13.759	13.849	VV	43617	834786	7.90%	0.290%
169	13.867	13.849	13.887	VV	7337	102518	0.97%	0.036%
170	13.914	13.887	13.934	VV	22965	302483	2.86%	0.105%
171	13.953	13.934	13.973	VV	23548	364255	3.45%	0.126%
172	13.985	13.973	14.009	VV	14132	191218	1.81%	0.066%
173	14.036	14.009	14.065	VV	20128	423612	4.01%	0.147%
174	14.080	14.065	14.104	VV	25291	357301	3.38%	0.124%
175	14.124	14.104	14.193	VV	18087	398807	3.77%	0.138%
176	14.240	14.193	14.265	VV	6436	181956	1.72%	0.063%
177	14.280	14.265	14.296	VV	3861	56632	0.54%	0.020%
178	14.308	14.296	14.325	VV	2756	37609	0.36%	0.013%
179	14.334	14.325	14.365	VV	1744	21238	0.20%	0.007%
180	14.392	14.365	14.416	PV	3285	50763	0.48%	0.018%
181	14.443	14.416	14.455	VV	1915	32093	0.30%	0.011%
182	14.504	14.455	14.524	VV	7433	221789	2.10%	0.077%
183	14.563	14.524	14.624	VV	19106	564473	5.34%	0.196%
184	14.645	14.624	14.693	VV	8284	205880	1.95%	0.071%
185	14.727	14.693	14.755	VV	24975	447291	4.23%	0.155%
186	14.782	14.755	14.821	VV	37988	786367	7.44%	0.273%
187	14.839	14.821	14.858	VV	16898	277391	2.63%	0.096%
188	14.874	14.858	14.917	VV	20070	425796	4.03%	0.148%
189	14.941	14.917	14.956	VV	7011	145654	1.38%	0.051%
190	14.977	14.956	15.045	VV	10320	261094	2.47%	0.091%
191	15.096	15.045	15.116	VV	170886	2247000	21.27%	0.780%
192	15.136	15.116	15.225	VV	171813	2897768	27.43%	1.006%
193	15.255	15.225	15.278	VV	36241	589556	5.58%	0.205%
194	15.288	15.278	15.358	VV	13184	384962	3.64%	0.134%

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195	15.446	15.358	15.499	VV	18382	691149	6.54%	0.240%
196	15.523	15.499	15.626	VV	13083	610121		
197	15.655	15.626	15.674	VV	11785	220682		
198	15.684	15.674	15.700	VV	7112	92258		
199	15.727	15.700	15.745	VV	13926	237373		
200	15.771	15.745	15.793	VV	37194	583219		
201	15.810	15.793	15.848	VV	18314	411248	3.89%	0.143%
202	15.875	15.848	15.892	VV	12157	284739	2.70%	0.099%
203	15.915	15.892	15.981	VV	23133	842514	7.97%	0.292%
204	16.002	15.981	16.028	VV	14140	316873	3.00%	0.110%
205	16.038	16.028	16.075	VV	9429	226715	2.15%	0.079%
206	16.095	16.075	16.128	VV	11469	296509	2.81%	0.103%
207	16.157	16.128	16.176	VV	21704	393529	3.72%	0.137%
208	16.191	16.176	16.227	VV	12673	335508	3.18%	0.116%
209	16.247	16.227	16.260	VV	9715	178639	1.69%	0.062%
210	16.273	16.260	16.292	VV	8605	153153	1.45%	0.053%
211	16.366	16.292	16.394	VV	13253	571649	5.41%	0.198%
212	16.459	16.394	16.492	VV	18467	747043	7.07%	0.259%
213	16.580	16.492	16.607	VV	16970	922046	8.73%	0.320%
214	16.661	16.607	16.679	VV	169494	2882079	27.28%	1.000%
215	16.687	16.679	16.760	VV	82350	1954368	18.50%	0.678%
216	16.794	16.760	16.879	VV	47866	1931847	18.28%	0.670%
217	16.937	16.879	16.955	VV	33507	1125461	10.65%	0.391%
218	16.983	16.955	17.018	VV	107391	2075883	19.65%	0.720%
219	17.044	17.018	17.083	VV	106957	2350094	22.24%	0.815%
220	17.101	17.083	17.128	VV	46152	1075223	10.18%	0.373%
221	17.146	17.128	17.173	VV	51095	1064952	10.08%	0.370%
222	17.188	17.173	17.207	VV	32444	631929	5.98%	0.219%
223	17.222	17.207	17.238	VV	27764	498429	4.72%	0.173%
224	17.288	17.238	17.326	VV	35495	1631346	15.44%	0.566%
225	17.347	17.326	17.371	VV	33172	824484	7.80%	0.286%
226	17.409	17.371	17.426	VV	37536	1114305	10.55%	0.387%
227	17.435	17.426	17.467	VV	36708	820867	7.77%	0.285%
228	17.515	17.467	17.523	VV	35460	1110437	10.51%	0.385%
229	17.552	17.523	17.602	VV	44441	1804294	17.08%	0.626%
230	17.667	17.602	17.687	VV	35900	1735613	16.43%	0.602%
231	17.709	17.687	17.790	VV	37987	2122731	20.09%	0.737%
232	17.838	17.790	17.859	VV	35775	1387454	13.13%	0.481%
233	17.887	17.859	17.914	VV	38605	1184081	11.21%	0.411%
234	17.990	17.914	18.017	VV	55568	2540197	24.04%	0.881%
235	18.031	18.017	18.051	VV	38715	773837	7.32%	0.269%
236	18.085	18.051	18.097	VV	39563	1057208	10.01%	0.367%
237	18.131	18.097	18.174	VV	50862	2024415	19.16%	0.702%
238	18.190	18.174	18.205	VV	43141	785363	7.43%	0.273%
239	18.227	18.205	18.259	VV	43704	1379064	13.05%	0.479%
240	18.278	18.259	18.288	VV	43113	746740	7.07%	0.259%
241	18.332	18.288	18.389	VV	60396	3036582	28.74%	1.054%
242	18.427	18.389	18.479	VV	81909	3392444	32.11%	1.177%
243	18.498	18.479	18.548	VV	62986	2312350	21.89%	0.802%
244	18.585	18.548	18.627	VV	54048	2467068	23.35%	0.856%
245	18.682	18.627	18.738	VV	82400	4017512	38.03%	1.394%
246	18.747	18.738	18.768	VV	55928	984147	9.31%	0.342%

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rteres								
247	18.782	18.768	18.792	VV	54893	764928	7.24%	0.265%
248	18.824	18.792	18.861	VV	72153	2467899	23.75%	0.755%
249	18.874	18.861	18.886	VV	52206	765326	7.24%	0.265%
250	18.921	18.886	18.950	VV	60208	2147349	20.00%	0.667%
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251	18.972	18.950	18.999	VV	58719	1671886	15.59%	0.572%
252	19.020	18.999	19.051	VV	58840	1791003	16.59%	0.619%
253	19.072	19.051	19.088	VV	59101	1267546	12.00%	0.440%
254	19.104	19.088	19.141	VV	59322	1853253	17.54%	0.643%
255	19.152	19.141	19.162	VV	58690	739520	7.00%	0.257%
256	19.217	19.162	19.235	VV	67105	2722091	25.76%	0.945%
257	19.251	19.235	19.277	VV	65651	1636051	15.49%	0.568%
258	19.292	19.277	19.300	VV	65039	867655	8.21%	0.301%
259	19.324	19.300	19.340	VV	67563	1552849	14.70%	0.539%
260	19.363	19.340	19.412	VV	67275	2865082	27.12%	0.994%
261	19.439	19.412	19.460	VV	66259	1855809	17.57%	0.644%
262	19.515	19.460	19.536	VV	67642	2998424	28.38%	1.040%
263	19.606	19.536	19.628	VV	82918	3953434	37.42%	1.372%
264	19.638	19.628	19.656	VV	77395	1270509	12.03%	0.441%
265	19.674	19.656	19.696	VV	76224	1749672	16.56%	0.607%
266	19.724	19.696	19.748	VV	74181	2235953	21.16%	0.776%
267	19.821	19.748	19.830	VV	77969	3653248	34.58%	1.268%
268	19.852	19.830	19.861	VV	86111	1527087	14.45%	0.530%
269	19.869	19.861	19.874	VV	87044	673356	6.37%	0.234%
270	19.884	19.874	19.901	VV	88027	1415641	13.40%	0.491%
271	19.914	19.901	19.933	VV	87064	1647229	15.59%	0.572%
272	19.947	19.933	19.965	VV	87617	1647477	15.59%	0.572%
273	19.978	19.965	19.998	VV	87483	1678869	15.89%	0.583%
274	20.021	19.998	20.033	VV	86006	1797678	17.01%	0.624%
275	20.047	20.033	20.064	VV	83846	1498694	14.19%	0.520%
276	20.095	20.064	20.108	VV	88078	2301047	21.78%	0.798%
277	20.145	20.108	20.156	VV	95207	2666604	25.24%	0.925%
278	20.164	20.156	20.197	VV	94540	2242255	21.22%	0.778%
279	20.226	20.197	20.233	VV	99095	2093265	19.81%	0.726%
280	20.252	20.233	20.292	VV	102664	3464830	32.79%	1.202%
281	20.346	20.292	20.365	VV	111854	4404150	41.68%	1.528%
282	20.411	20.365	20.440	VV	110833	4718847	44.66%	1.637%
283	20.461	20.440	20.486	VV	104119	2832349	26.81%	0.983%
284	20.502	20.486	20.531	VV	104107	2751359	26.04%	0.955%
285	20.595	20.531	20.607	VV	112724	4893033	46.31%	1.698%
286	20.623	20.607	20.635	VV	114968	1859697	17.60%	0.645%
287	20.652	20.635	20.681	VV	116055	3173876	30.04%	1.101%
288	20.700	20.681	20.721	VV	117256	2707099	25.62%	0.939%
289	20.730	20.721	20.775	VV	110873	3489363	33.03%	1.211%
290	20.852	20.775	20.865	VV	117571	6017794	56.96%	2.088%
291	20.894	20.865	21.027	VV	117010	10565342	100.00%	3.666%
292	21.069	21.027	21.094	VV	112587	4367060	41.33%	1.515%
293	21.105	21.094	21.208	VV	110969	7279210	68.90%	2.526%
294	21.220	21.208	21.280	VV	104656	4388588	41.54%	1.523%
295	21.290	21.280	21.335	VV	100590	3251279	30.77%	1.128%
296	21.389	21.335	21.451	VV	103067	6970168	65.97%	2.419%
297	21.461	21.451	21.548	VV	101010	5599285	53.00%	1.943%
298	21.560	21.548	21.583	VV	91057	1922115	18.19%	0.667%
299	21.600	21.583	21.651	VV	90299	3606843	34.14%	1.252%

							Instrument : FID_E	
							ClientSampleId : WC-2(0-6)	
rteres								
300	21.661	21.651	21.673	VV	88890	1199848	11.36%	0.416%
301	21.686	21.673	21.693	VV	88366	1013007	Manual IntegrationsAPPROVED	
302	21.759	21.693	21.788	VV	93088	5200923		
303	21.794	21.788	21.888	VV	91270	5178807		
304	21.961	21.888	21.989	VV	84482	4906115		
305	22.000	21.989	22.011	VV	80084	1071413		
306	22.036	22.011	22.048	VV	80937	1767506	16.73%	0.613%
307	22.074	22.048	22.101	VBA	81966	2762728	26.15%	0.959%
Sum of corrected areas:							288181381	

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Aliphatic EPH 110724.M Fri Nov 08 02:34:57 2024

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-2(0-6)DL	SDG No.:	P4722
Lab Sample ID:	P4722-08DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
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
FE051108.D	5	11/07/24	11/08/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	33.2		9.54	22.2	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	126		9.99	11.1	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	9.03		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	7.22		40 - 140	72%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-08DL	Acq On:	08 Nov 2024 08:36
Client Sample ID:	WC-2(0-6)DL	Operator:	YP\AJ
Data file:	FE051108.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.758	459729	3.286	300	ug/ml
Aliphatic C12-C16	6.759	10.191	1357176	9.65	200	ug/ml
Aliphatic C16-C21	10.192	13.550	5012148	36.381	300	ug/ml
Aliphatic C21-C28	13.551	17.206	5389534	40.235	400	ug/ml
Aliphatic C28-C40	17.207	22.053	44149517	342.913	600	ug/ml
Aliphatic EPH	3.140	22.053	56368104	432.465		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	1083517	7.22		ug/ml
1-chlorooctadecane (SURR)	13.285	13.285	1025230	9.03		ug/ml
Aliphatic C9-C28	3.140	17.206	12218587	89.552	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
 Data File : FE051108.D
 Signal(s) : FID1B.ch
 Acq On : 08 Nov 2024 08:36
 Operator : YP\AJ
 Sample : P4722-08DL 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 WC-2(0-6)DL

Integration File: sample.E
 Quant Time: Nov 09 00:41:08 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.853	1083517	7.219 ug/ml
Spiked Amount 50.000		Recovery =	14.44%
12) S 1-chlorooctadecane (S...	13.285	1025230	9.030 ug/ml
Spiked Amount 50.000		Recovery =	18.06%

Target Compounds

(f)=RT Delta > 1/2 Window

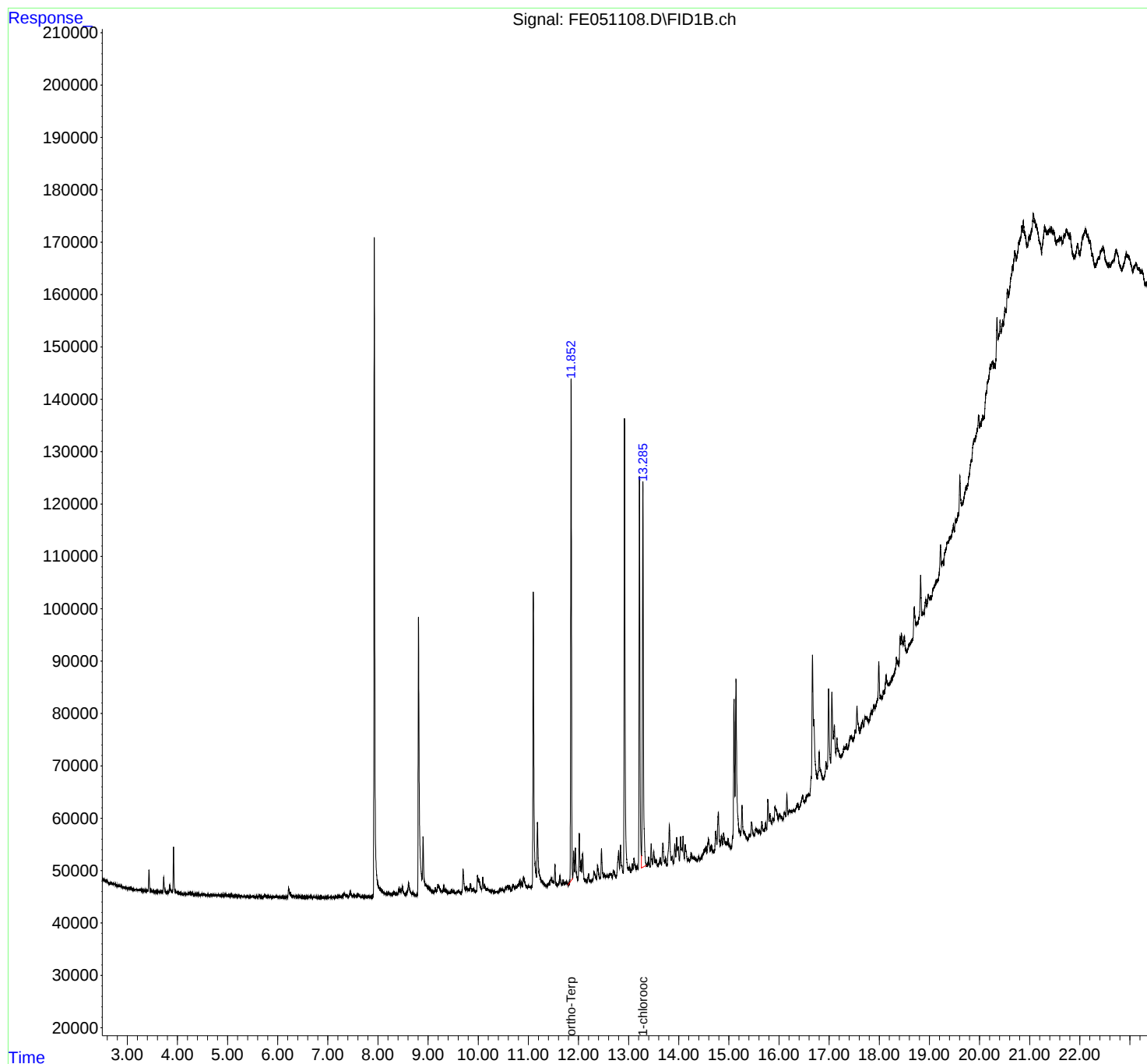
(m)=manual int.

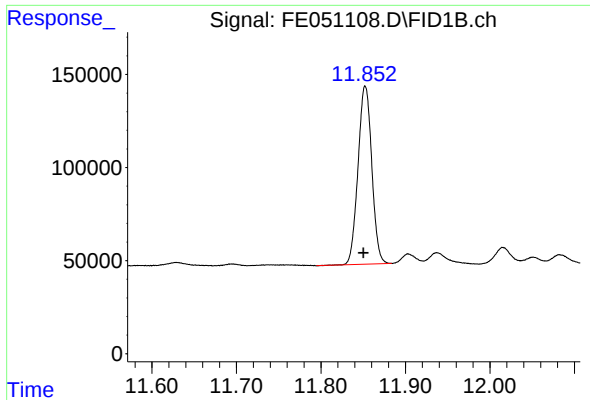
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
Data File : FE051108.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 08:36
Operator : YP\AJ
Sample : P4722-08DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WC-2(0-6)DL

Integration File: sample.E
Quant Time: Nov 09 00:41:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

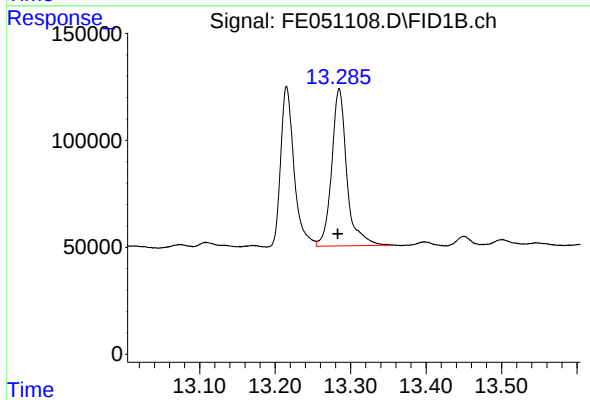




#9 ortho-Terphenyl (SURR)

R.T.: 11.853 min
Delta R.T.: 0.002 min
Response: 1083517
Conc: 7.22 ug/ml

Instrument :
FID_E
ClientSampleId :
WC-2(0-6)DL



#12 1-chlorooctadecane (SURR)

R.T.: 13.285 min
Delta R.T.: 0.002 min
Response: 1025230
Conc: 9.03 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
 Data File : FE051108.D
 Signal(s) : FID1B.ch
 Acq On : 08 Nov 2024 08:36
 Sample : P4722-08DL 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.241	3.204	3.318	BV	116	2218	0.07%	0.004%
2	3.367	3.318	3.405	PV	156	4385	0.13%	0.007%
3	3.433	3.405	3.535	VV	4096	49802	1.46%	0.082%
4	3.554	3.535	3.638	VV	150	5098	0.15%	0.008%
5	3.647	3.638	3.663	VV	116	777	0.02%	0.001%
6	3.685	3.663	3.703	PV	205	3365	0.10%	0.006%
7	3.726	3.703	3.815	VV	2974	41322	1.21%	0.068%
8	3.846	3.815	3.901	VV	1539	27543	0.81%	0.045%
9	3.923	3.901	4.027	VV	8847	105701	3.11%	0.174%
10	4.043	4.027	4.091	VV	218	5101	0.15%	0.008%
11	4.097	4.091	4.129	VV	86	931	0.03%	0.002%
12	4.138	4.129	4.160	VV	75	955	0.03%	0.002%
13	4.232	4.160	4.258	PV	326	8037	0.24%	0.013%
14	4.270	4.258	4.304	VV	221	4424	0.13%	0.007%
15	4.314	4.304	4.340	VV	112	1801	0.05%	0.003%
16	4.366	4.340	4.405	VV	186	3511	0.10%	0.006%
17	4.421	4.405	4.465	VV	114	1618	0.05%	0.003%
18	4.491	4.465	4.515	VV	245	3323	0.10%	0.005%
19	4.529	4.515	4.588	VV	171	4001	0.12%	0.007%
20	4.599	4.588	4.647	VV	113	2172	0.06%	0.004%
21	4.662	4.647	4.694	VV	202	3220	0.09%	0.005%
22	4.700	4.694	4.728	VV	79	790	0.02%	0.001%
23	4.742	4.728	4.751	VV	130	971	0.03%	0.002%
24	4.769	4.751	4.790	VV	138	2266	0.07%	0.004%
25	4.805	4.790	4.844	VV	118	2592	0.08%	0.004%
26	4.852	4.844	4.878	VV	99	1393	0.04%	0.002%
27	4.925	4.878	4.980	VV	178	7194	0.21%	0.012%
28	4.992	4.980	5.036	VV	251	4063	0.12%	0.007%
29	5.077	5.036	5.116	VV	141	4020	0.12%	0.007%
30	5.128	5.116	5.148	VV	81	865	0.03%	0.001%
31	5.168	5.148	5.191	PV	169	2264	0.07%	0.004%
32	5.198	5.191	5.206	VV	121	705	0.02%	0.001%
33	5.222	5.206	5.259	VV	152	3887	0.11%	0.006%
34	5.273	5.259	5.318	VV	124	3012	0.09%	0.005%
35	5.335	5.318	5.422	VV	64	4035	0.12%	0.007%
36	5.469	5.422	5.540	VV	133	6263	0.18%	0.010%

					rteres			
37	5.568	5.540	5.598	VV	145	2548	0.07%	0.004%
38	5.629	5.598	5.704	VV	374	9193	0.27%	0.015%
39	5.726	5.704	5.779	VV	212	5872	0.17%	0.010%
40	5.786	5.779	5.816	VV	155	2842	0.08%	0.005%
41	5.830	5.816	5.847	VV	143	2132	0.06%	0.004%
42	5.868	5.847	5.909	VV	134	3096	0.09%	0.005%
43	5.934	5.909	5.969	VV	189	4714	0.14%	0.008%
44	5.979	5.969	6.085	VV	159	7658	0.23%	0.013%
45	6.101	6.085	6.186	PV	104	4302	0.13%	0.007%
46	6.219	6.186	6.364	VV	1747	58049	1.71%	0.096%
47	6.368	6.364	6.423	VV	330	7133	0.21%	0.012%
48	6.436	6.423	6.471	VV	297	5822	0.17%	0.010%
49	6.477	6.471	6.536	VV	179	4958	0.15%	0.008%
50	6.554	6.536	6.593	VV	192	4202	0.12%	0.007%
51	6.605	6.593	6.636	VV	171	2775	0.08%	0.005%
52	6.659	6.636	6.688	VV	441	6725	0.20%	0.011%
53	6.693	6.688	6.722	VV	118	1943	0.06%	0.003%
54	6.750	6.722	6.764	VV	133	2140	0.06%	0.004%
55	6.776	6.764	6.798	VV	108	1511	0.04%	0.002%
56	6.809	6.798	6.836	VV	145	1991	0.06%	0.003%
57	6.868	6.836	6.908	VV	189	2916	0.09%	0.005%
58	6.949	6.908	6.968	PV	101	2412	0.07%	0.004%
59	6.977	6.968	6.998	VV	139	1744	0.05%	0.003%
60	7.002	6.998	7.021	VV	181	1328	0.04%	0.002%
61	7.035	7.021	7.055	VV	134	1491	0.04%	0.002%
62	7.066	7.055	7.093	VV	152	1799	0.05%	0.003%
63	7.106	7.093	7.127	VV	104	1457	0.04%	0.002%
64	7.240	7.127	7.260	VV	237	10965	0.32%	0.018%
65	7.319	7.260	7.364	VV	823	25032	0.74%	0.041%
66	7.375	7.364	7.415	VV	479	9815	0.29%	0.016%
67	7.445	7.415	7.508	VV	1294	29692	0.87%	0.049%
68	7.512	7.508	7.527	VV	416	3856	0.11%	0.006%
69	7.548	7.527	7.581	VV	380	9593	0.28%	0.016%
70	7.603	7.581	7.671	VV	523	14768	0.43%	0.024%
71	7.684	7.671	7.758	VV	143	4211	0.12%	0.007%
72	7.778	7.758	7.821	VV	155	2647	0.08%	0.004%
73	7.844	7.821	7.858	VV	64	990	0.03%	0.002%
74	7.862	7.858	7.897	PV	111	1597	0.05%	0.003%
75	8.051	8.037	8.165	VV	1571	75106	2.21%	0.124%
76	8.174	8.165	8.188	VV	588	7367	0.22%	0.012%
77	8.207	8.188	8.279	VV	721	27560	0.81%	0.045%
78	8.324	8.279	8.368	VV	753	29176	0.86%	0.048%
79	8.421	8.368	8.438	VV	1738	34785	1.02%	0.057%
80	8.451	8.438	8.466	VV	1205	17136	0.50%	0.028%
81	8.485	8.466	8.551	VV	1870	42255	1.24%	0.070%
82	8.610	8.551	8.684	VV	2483	75048	2.21%	0.124%
83	8.696	8.684	8.784	VV	565	12698	0.37%	0.021%
84	8.899	8.881	8.947	VV	11105	190196	5.59%	0.313%
85	8.958	8.947	9.112	VV	1944	114671	3.37%	0.189%
86	9.143	9.112	9.164	VV	1381	26209	0.77%	0.043%
87	9.194	9.164	9.291	VV	1872	78625	2.31%	0.130%
88	9.312	9.291	9.340	VV	1624	28617	0.84%	0.047%
89	9.356	9.340	9.446	VV	893	24223	0.71%	0.040%

					rteres			
90	9.469	9.446	9.489	VV	921	12712	0.37%	0.021%
91	9.509	9.489	9.546	VV	666	12918	0.38%	0.021%
92	9.567	9.546	9.577	VV	285	4220	0.12%	0.007%
93	9.606	9.577	9.635	VV	686	14806	0.44%	0.024%
94	9.699	9.635	9.751	VV	4589	91948	2.70%	0.152%
95	9.769	9.751	9.798	VV	1296	24564	0.72%	0.040%
96	9.813	9.798	9.824	VV	927	11184	0.33%	0.018%
97	9.843	9.824	9.883	VV	1821	37283	1.10%	0.061%
98	9.903	9.883	9.944	VV	849	20397	0.60%	0.034%
99	9.986	9.944	10.004	VV	3264	55459	1.63%	0.091%
100	10.016	10.004	10.066	VV	2565	58297	1.71%	0.096%
101	10.091	10.066	10.111	VV	2993	44035	1.29%	0.073%
102	10.128	10.111	10.167	VV	1475	33041	0.97%	0.054%
103	10.181	10.167	10.244	VV	722	22825	0.67%	0.038%
104	10.280	10.244	10.345	VV	351	12319	0.36%	0.020%
105	10.377	10.345	10.391	PV	108	1623	0.05%	0.003%
106	10.442	10.391	10.461	PV	584	9579	0.28%	0.016%
107	10.484	10.461	10.518	VV	392	8948	0.26%	0.015%
108	10.584	10.518	10.604	VV	1009	32524	0.96%	0.054%
109	10.622	10.604	10.657	VV	915	15240	0.45%	0.025%
110	10.693	10.657	10.734	VV	1131	25872	0.76%	0.043%
111	10.753	10.734	10.770	VV	773	12234	0.36%	0.020%
112	10.791	10.770	10.808	VV	944	17970	0.53%	0.030%
113	10.828	10.808	10.846	VV	1801	27447	0.81%	0.045%
114	10.862	10.846	10.879	VV	1553	21180	0.62%	0.035%
115	10.908	10.879	10.983	VV	2127	69371	2.04%	0.114%
116	11.001	10.983	11.034	VV	691	12759	0.37%	0.021%
117	11.048	11.034	11.061	VV	395	5172	0.15%	0.009%
118	11.098	11.061	11.160	VV	56504	787090	23.13%	1.297%
119	11.181	11.160	11.381	VV	12491	306993	9.02%	0.506%
120	11.461	11.381	11.481	VV	1521	52636	1.55%	0.087%
121	11.495	11.481	11.511	VV	905	14201	0.42%	0.023%
122	11.531	11.511	11.567	VV	4095	51272	1.51%	0.084%
123	11.585	11.567	11.595	VV	282	3738	0.11%	0.006%
124	11.629	11.595	11.673	VV	1896	35093	1.03%	0.058%
125	11.695	11.673	11.714	VV	986	11946	0.35%	0.020%
126	11.741	11.714	11.758	VV	479	9518	0.28%	0.016%
127	11.761	11.758	11.795	VV	473	5565	0.16%	0.009%
128	11.853	11.795	11.884	PV	96631	1113115	32.71%	1.834%
129	11.904	11.884	11.921	VV	6054	81014	2.38%	0.134%
130	11.938	11.921	11.988	VV	6735	117900	3.46%	0.194%
131	12.016	11.988	12.037	VV	9523	135050	3.97%	0.223%
132	12.051	12.037	12.066	VV	4192	55048	1.62%	0.091%
133	12.083	12.066	12.122	VV	5357	89705	2.64%	0.148%
134	12.135	12.122	12.161	VV	498	7503	0.22%	0.012%
135	12.199	12.161	12.227	VV	1467	22212	0.65%	0.037%
136	12.238	12.227	12.263	VV	198	2238	0.07%	0.004%
137	12.309	12.263	12.358	PV	1685	41229	1.21%	0.068%
138	12.381	12.358	12.433	VV	2774	57135	1.68%	0.094%
139	12.458	12.433	12.501	VV	5812	90389	2.66%	0.149%
140	12.518	12.501	12.543	VV	980	16766	0.49%	0.028%
141	12.556	12.543	12.562	VV	491	4580	0.13%	0.008%

					rteres			
142	12.570	12.562	12.604	VV	468	9249	0.27%	0.015%
143	12.627	12.604	12.638	VV	779	10988	0.32%	0.018%
144	12.648	12.638	12.673	VV	745	10547	0.31%	0.017%
145	12.695	12.673	12.744	VV	1382	26805	0.79%	0.044%
146	12.800	12.744	12.819	PV	4969	96172	2.83%	0.158%
147	12.838	12.819	12.890	VV	5904	109507	3.22%	0.180%
148	12.918	12.890	12.994	VV	86650	1156201	33.98%	1.905%
149	13.013	12.994	13.045	VV	1365	29489	0.87%	0.049%
150	13.074	13.045	13.091	VV	1850	31604	0.93%	0.052%
151	13.109	13.091	13.151	VV	2834	59576	1.75%	0.098%
152	13.171	13.151	13.187	VV	1282	20602	0.61%	0.034%
153	13.215	13.187	13.254	VV	75582	946441	27.81%	1.560%
154	13.285	13.254	13.367	VV	74197	1089668	32.02%	1.796%
155	13.398	13.367	13.425	VV	2507	51136	1.50%	0.084%
156	13.450	13.425	13.474	VV	5029	74866	2.20%	0.123%
157	13.501	13.474	13.528	VV	3359	67626	1.99%	0.111%
158	13.547	13.528	13.583	VV	1761	40280	1.18%	0.066%
159	13.628	13.583	13.655	VV	1948	49614	1.46%	0.082%
160	13.684	13.655	13.724	VV	4592	95788	2.82%	0.158%
161	13.739	13.724	13.758	VV	1654	22098	0.65%	0.036%
162	13.813	13.758	13.854	VV	7854	179032	5.26%	0.295%
163	13.869	13.854	13.892	VV	1709	26544	0.78%	0.044%
164	13.921	13.892	13.940	VV	4004	62227	1.83%	0.103%
165	13.960	13.940	13.978	VV	5200	79926	2.35%	0.132%
166	13.989	13.978	14.012	VV	3397	48656	1.43%	0.080%
167	14.036	14.012	14.055	VV	5218	80259	2.36%	0.132%
168	14.086	14.055	14.110	VV	5144	104615	3.07%	0.172%
169	14.130	14.110	14.174	VV	3542	75714	2.23%	0.125%
170	14.189	14.174	14.224	VV	727	16121	0.47%	0.027%
171	14.248	14.224	14.271	VV	1650	28290	0.83%	0.047%
172	14.285	14.271	14.305	VV	716	13281	0.39%	0.022%
173	14.315	14.305	14.370	VV	636	12916	0.38%	0.021%
174	14.399	14.370	14.428	PV	827	12356	0.36%	0.020%
175	14.509	14.428	14.528	PV	1695	51611	1.52%	0.085%
176	14.544	14.528	14.560	VV	2130	31571	0.93%	0.052%
177	14.596	14.560	14.631	VV	3356	94072	2.76%	0.155%
178	14.652	14.631	14.697	VV	1968	45759	1.34%	0.075%
179	14.739	14.697	14.761	VV	4274	84520	2.48%	0.139%
180	14.788	14.761	14.828	VV	7793	168182	4.94%	0.277%
181	14.851	14.828	14.873	VV	3015	58019	1.71%	0.096%
182	14.895	14.873	14.928	VV	3394	74329	2.18%	0.122%
183	14.942	14.928	14.958	VV	1642	25489	0.75%	0.042%
184	14.982	14.958	15.048	VV	2019	48071	1.41%	0.079%
185	15.102	15.048	15.122	PV	28088	411097	12.08%	0.677%
186	15.142	15.122	15.231	VV	31968	661360	19.44%	1.090%
187	15.261	15.231	15.380	VV	7099	191050	5.61%	0.315%
188	15.404	15.380	15.421	VV	819	12512	0.37%	0.021%
189	15.452	15.421	15.514	VV	3036	70641	2.08%	0.116%
190	15.540	15.514	15.588	VV	1341	42501	1.25%	0.070%
191	15.604	15.588	15.631	VV	682	12085	0.36%	0.020%
192	15.658	15.631	15.678	PV	2185	28524	0.84%	0.047%
193	15.688	15.678	15.705	VV	468	5099	0.15%	0.008%
194	15.731	15.705	15.754	VV	1467	19677	0.58%	0.032%

					rteres			
195	15.778	15.754	15.802	VV	5521	82594	2.43%	0.136%
196	15.818	15.802	15.853	VV	2765	50736	1.49%	0.084%
197	15.876	15.853	15.898	VV	1458	28326	0.83%	0.047%
198	15.921	15.898	15.985	VV	3417	111251	3.27%	0.183%
199	16.007	15.985	16.034	VV	1359	31077	0.91%	0.051%
200	16.046	16.034	16.078	VV	646	11484	0.34%	0.019%
201	16.110	16.078	16.133	VV	1163	22712	0.67%	0.037%
202	16.157	16.133	16.181	VV	4265	57353	1.69%	0.095%
203	16.225	16.181	16.259	VV	784	30935	0.91%	0.051%
204	16.278	16.259	16.308	VV	598	11628	0.34%	0.019%
205	16.369	16.308	16.401	VV	1208	35002	1.03%	0.058%
206	16.474	16.401	16.506	PV	1880	54299	1.60%	0.089%
207	16.593	16.506	16.611	VV	677	30390	0.89%	0.050%
208	16.667	16.611	16.765	VV	26179	742532	21.82%	1.224%
209	16.802	16.765	16.894	VV	6252	174925	5.14%	0.288%
210	16.937	16.894	16.957	PV	2548	49759	1.46%	0.082%
211	16.989	16.957	17.030	VV	16148	272677	8.01%	0.449%
212	17.055	17.030	17.084	VV	14661	266949	7.85%	0.440%
213	17.104	17.084	17.134	VV	7838	158197	4.65%	0.261%
214	17.155	17.134	17.250	VV	4671	123102	3.62%	0.203%
215	17.295	17.250	17.311	VV	1233	26468	0.78%	0.044%
216	17.324	17.311	17.333	VV	1014	11755	0.35%	0.019%
217	17.349	17.333	17.368	VV	1303	17081	0.50%	0.028%
218	17.417	17.368	17.427	PV	1981	32805	0.96%	0.054%
219	17.446	17.427	17.474	VV	1578	32940	0.97%	0.054%
220	17.519	17.474	17.530	VV	1694	34082	1.00%	0.056%
221	17.556	17.530	17.610	VV	5870	124252	3.65%	0.205%
222	17.669	17.610	17.694	VV	1796	50453	1.48%	0.083%
223	17.717	17.694	17.783	VV	1849	62124	1.83%	0.102%
224	17.792	17.783	17.799	VV	224	1607	0.05%	0.003%
225	17.844	17.799	17.861	PV	1259	26452	0.78%	0.044%
226	17.892	17.861	17.913	VV	1540	31289	0.92%	0.052%
227	17.991	17.913	18.018	VV	7985	150578	4.43%	0.248%
228	18.033	18.018	18.053	VV	878	12425	0.37%	0.020%
229	18.088	18.053	18.099	VV	872	12292	0.36%	0.020%
230	18.135	18.099	18.187	VV	3119	72388	2.13%	0.119%
231	18.343	18.187	18.389	VV	2896	104159	3.06%	0.172%
232	18.416	18.389	18.427	VV	5531	77675	2.28%	0.128%
233	18.443	18.427	18.466	VV	5794	109076	3.21%	0.180%
234	18.474	18.466	18.482	VV	3662	35734	1.05%	0.059%
235	18.499	18.482	18.555	VV	4320	94274	2.77%	0.155%
236	18.697	18.555	18.738	VV	6120	216449	6.36%	0.357%
237	18.752	18.738	18.761	VV	2668	35013	1.03%	0.058%
238	18.824	18.761	18.851	VV	10385	237009	6.97%	0.391%
239	18.870	18.851	18.881	VV	2619	43659	1.28%	0.072%
240	18.925	18.881	18.950	VV	3914	117972	3.47%	0.194%
241	18.973	18.950	19.001	VV	4135	100936	2.97%	0.166%
242	19.017	19.001	19.028	VV	3178	46887	1.38%	0.077%
243	19.152	19.028	19.164	VV	3976	277315	8.15%	0.457%
244	19.221	19.164	19.244	VV	9320	269887	7.93%	0.445%
245	19.273	19.244	19.283	VV	5468	125415	3.69%	0.207%
246	19.365	19.283	19.375	VV	7528	366163	10.76%	0.603%

					rteres			
247	19.415	19.375	19.425	VV	7703	226949	6.67%	0.374%
248	19.479	19.425	19.498	VV	8986	342481	10.06%	0.564%
249	19.521	19.498	19.531	VV	9000	166019	4.88%	0.274%
250	19.607	19.531	19.658	VV	15948	801374	23.55%	1.321%
251	19.732	19.658	19.746	VV	11850	572316	16.82%	0.943%
252	19.949	19.746	19.956	VV	19036	1960140	57.61%	3.230%
253	19.983	19.956	20.000	VV	21135	527400	15.50%	0.869%
254	20.021	20.000	20.033	VV	19303	367352	10.80%	0.605%
255	20.060	20.033	20.072	VV	19785	452810	13.31%	0.746%
256	20.218	20.072	20.227	VV	26743	2147500	63.11%	3.539%
257	20.259	20.227	20.274	VV	26803	750582	22.06%	1.237%
258	20.284	20.274	20.315	VV	26009	611828	17.98%	1.008%
259	20.348	20.315	20.368	VV	33446	932481	27.40%	1.537%
260	20.410	20.368	20.428	VV	32011	1093868	32.15%	1.803%
261	20.462	20.428	20.474	VV	31086	830624	24.41%	1.369%
262	20.505	20.474	20.528	VV	32770	1006836	29.59%	1.659%
263	20.556	20.528	20.575	VV	35283	955045	28.07%	1.574%
264	20.586	20.575	20.591	VV	34372	326831	9.61%	0.539%
265	20.702	20.591	20.742	VV	40187	3402715	100.00%	5.608%
266	20.842	20.742	20.857	VV	42620	2794615	82.13%	4.605%
267	20.872	20.857	20.942	VV	43037	2059719	60.53%	3.394%
268	20.994	20.942	21.006	VV	38317	1427039	41.94%	2.352%
269	21.073	21.006	21.095	VV	40895	2080731	61.15%	3.429%
270	21.103	21.095	21.121	VV	39273	617561	18.15%	1.018%
271	21.137	21.121	21.237	VV	37909	2420987	71.15%	3.990%
272	21.299	21.237	21.334	VV	34809	1935559	56.88%	3.190%
273	21.387	21.334	21.410	VV	32602	1479616	43.48%	2.438%
274	21.434	21.410	21.463	VV	32140	1008569	29.64%	1.662%
275	21.473	21.463	21.528	VV	30853	1147383	33.72%	1.891%
276	21.596	21.528	21.604	VV	27702	1257045	36.94%	2.072%
277	21.620	21.604	21.662	VV	27166	906374	26.64%	1.494%
278	21.688	21.662	21.702	VV	26550	625495	18.38%	1.031%
279	21.738	21.702	21.903	VV	26569	2801887	82.34%	4.617%
280	21.956	21.903	22.005	VV	20124	1155172	33.95%	1.904%
281	22.110	22.005	22.191	VV	20428	2110585	62.03%	3.478%
Sum of corrected areas:						60681470		

Aliphatic EPH 110724.M Mon Nov 11 00:02:18 2024

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-13	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/08/24 9:06	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	100		5	10.4	11.5	mg/kg FE051109.D
Aliphatic C9-C28	Aliphatic C9-C28	21.4		1	1.98	4.61	mg/kg FE051089.D
Total AliphaticEPH	Total AliphaticEPH	121			12.4	16.1	mg/kg
Total EPH	Total EPH	121			12.4	16.1	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:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)	SDG No.:	P4722
Lab Sample ID:	P4722-13	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.09 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
FE051089.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	21.4		1.98	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	91.5	E	2.07	2.30	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.1		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.8		40 - 140	50%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-13	Acq On:	07 Nov 2024 17:40
Client Sample ID:	WC-3(0-6)	Operator:	YP\AJ
Data file:	FE051089.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.757	1512583	10.811	300	ug/ml
Aliphatic C12-C16	6.758	10.189	4667226	33.187	200	ug/ml
Aliphatic C16-C21	10.190	13.548	8166826	59.28	300	ug/ml
Aliphatic C21-C28	13.549	17.202	23630833	176.413	400	ug/ml
Aliphatic C28-C40	17.203	22.047	153532035	1190	600	ug/ml
Aliphatic EPH	3.140	22.047	191509503	1470		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	3722547	24.8		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	3191438	28.11		ug/ml
Aliphatic C9-C28	3.140	17.202	37977468	279.691	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
 Data File : FE051089.D
 Signal(s) : FID1B.ch
 Acq On : 07 Nov 2024 17:40
 Operator : YP\AJ
 Sample : P4722-13
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 WC-3(0-6)

Integration File: autoint1.e
 Quant Time: Nov 08 02:03:11 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.852	3722547	24.801 ug/ml
Spiked Amount	50.000	Recovery	= 49.60%
12) S 1-chlorooctadecane (S...	13.286	3191438	28.111 ug/ml
Spiked Amount	50.000	Recovery	= 56.22%

Target Compounds

(f)=RT Delta > 1/2 Window

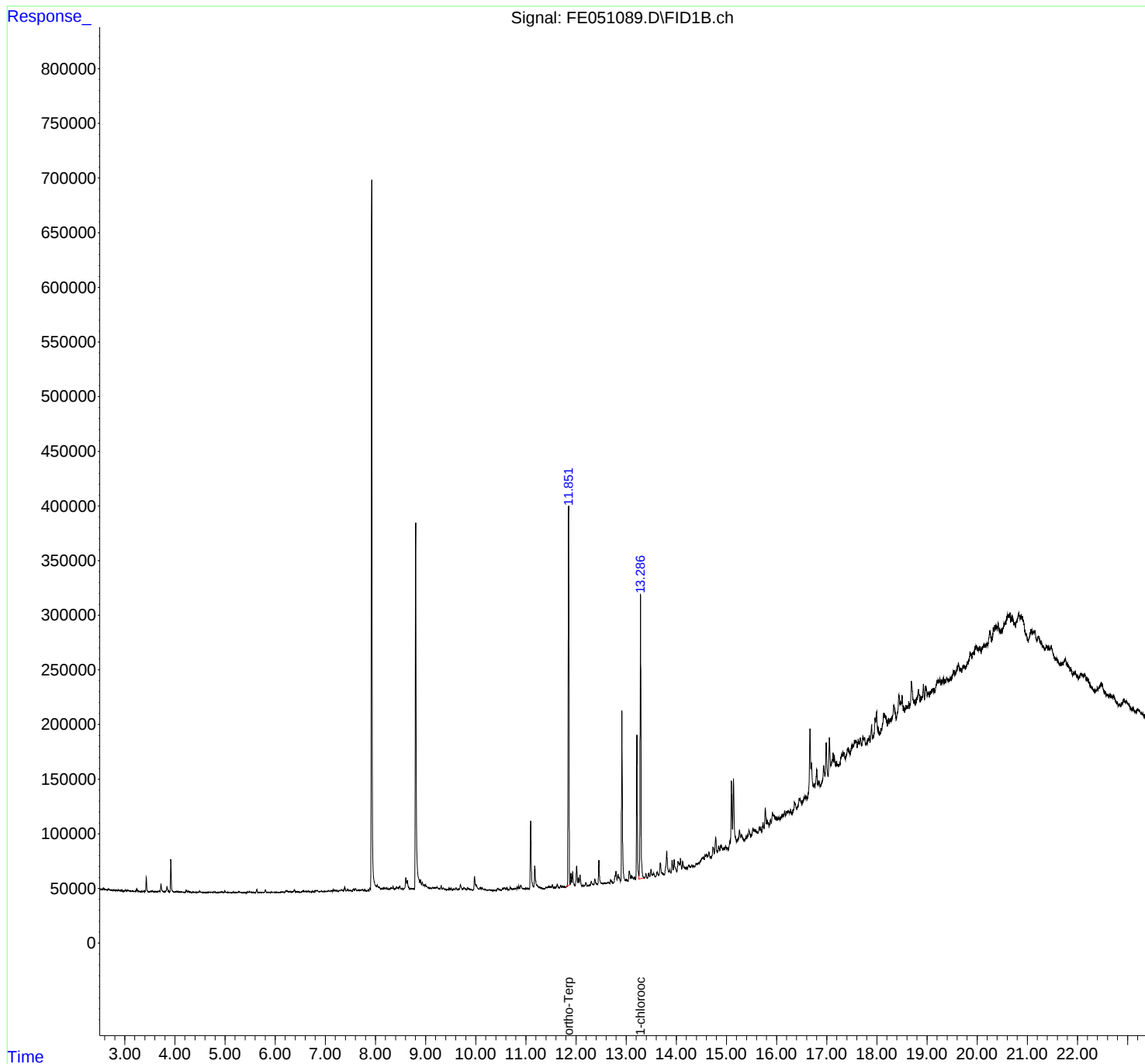
(m)=manual int.

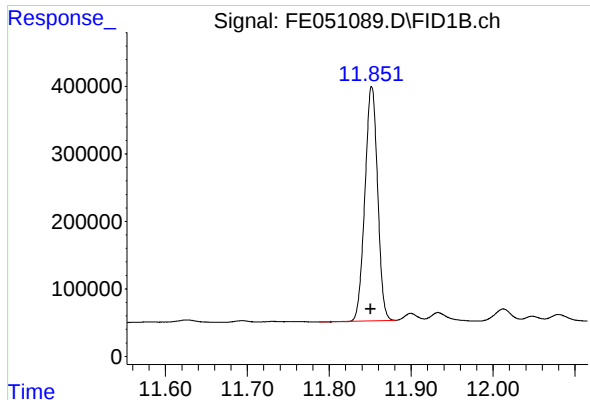
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
Data File : FE051089.D
Signal(s) : FID1B.ch
Acq On : 07 Nov 2024 17:40
Operator : YP\AJ
Sample : P4722-13
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WC-3(0-6)

Integration File: autoint1.e
Quant Time: Nov 08 02:03:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

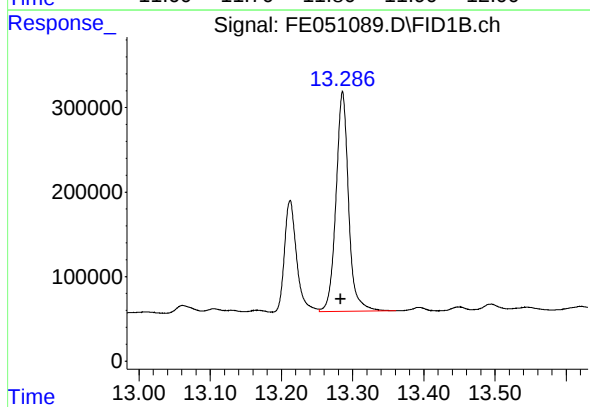




#9 ortho-Terphenyl (SURR)

R.T.: 11.852 min
Delta R.T.: 0.001 min
Response: 3722547
Conc: 24.80 ug/ml

Instrument :
FID_E
ClientSampleId :
WC-3(0-6)



#12 1-chlorooctadecane (SURR)

R.T.: 13.286 min
Delta R.T.: 0.003 min
Response: 3191438
Conc: 28.11 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
Data File : FE051089.D
Signal(s) : FID1B.ch
Acq On : 07 Nov 2024 17:40
Sample : P4722-13
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.238	3.204	3.327	BV	1969	33825	0.66%	0.017%
2	3.346	3.327	3.360	PV	210	3042	0.06%	0.002%
3	3.377	3.360	3.395	VV	451	6009	0.12%	0.003%
4	3.429	3.395	3.498	VV	13052	143923	2.80%	0.072%
5	3.517	3.498	3.533	VV	390	4595	0.09%	0.002%
6	3.549	3.533	3.594	VV	458	8973	0.17%	0.005%
7	3.605	3.594	3.615	VV	196	1970	0.04%	0.001%
8	3.639	3.615	3.658	VV	395	5564	0.11%	0.003%
9	3.686	3.658	3.704	VV	818	13563	0.26%	0.007%
10	3.722	3.704	3.802	VV	7361	99785	1.94%	0.050%
11	3.841	3.802	3.893	VV	4874	82552	1.61%	0.042%
12	3.919	3.893	3.985	VV	30138	317854	6.19%	0.160%
13	4.037	3.985	4.121	VV	671	22653	0.44%	0.011%
14	4.137	4.121	4.158	PV	197	2675	0.05%	0.001%
15	4.175	4.158	4.194	VV	155	1816	0.04%	0.001%
16	4.227	4.194	4.252	VV	1557	27649	0.54%	0.014%
17	4.268	4.252	4.338	VV	925	21726	0.42%	0.011%
18	4.363	4.338	4.411	VV	371	7414	0.14%	0.004%
19	4.427	4.411	4.457	VV	192	3293	0.06%	0.002%
20	4.490	4.457	4.513	VV	1276	14957	0.29%	0.008%
21	4.531	4.513	4.593	VV	391	11029	0.21%	0.006%
22	4.611	4.593	4.641	VV	158	1724	0.03%	0.001%
23	4.663	4.641	4.681	PV	443	6215	0.12%	0.003%
24	4.698	4.681	4.715	VV	442	5998	0.12%	0.003%
25	4.737	4.715	4.758	VV	387	6569	0.13%	0.003%
26	4.771	4.758	4.828	VV	541	12398	0.24%	0.006%
27	4.849	4.828	4.868	VV	292	4246	0.08%	0.002%
28	4.888	4.868	4.901	VV	397	4323	0.08%	0.002%
29	4.922	4.901	4.939	VV	681	11161	0.22%	0.006%
30	4.956	4.939	4.977	VV	618	10418	0.20%	0.005%
31	4.996	4.977	5.031	VV	1251	19620	0.38%	0.010%
32	5.045	5.031	5.060	VV	403	4891	0.10%	0.002%
33	5.073	5.060	5.091	VV	454	5308	0.10%	0.003%
34	5.101	5.091	5.121	VV	192	1882	0.04%	0.001%
35	5.167	5.121	5.184	VV	707	10836	0.21%	0.005%
36	5.199	5.184	5.224	VV	407	6865	0.13%	0.003%

					rteres			
37	5.242	5.224	5.251	VV	434	5482	0.11%	0.003%
38	5.284	5.251	5.301	VV	789	18044	0.35%	0.009%
39	5.309	5.301	5.343	VV	473	6917	0.13%	0.003%
40	5.376	5.343	5.385	PV	268	4422	0.09%	0.002%
41	5.397	5.385	5.417	VV	339	4429	0.09%	0.002%
42	5.487	5.417	5.581	VV	843	49099	0.96%	0.025%
43	5.594	5.581	5.606	VV	323	3541	0.07%	0.002%
44	5.634	5.606	5.659	VV	2940	42865	0.84%	0.022%
45	5.667	5.659	5.688	VV	592	7382	0.14%	0.004%
46	5.699	5.688	5.738	VV	356	7862	0.15%	0.004%
47	5.750	5.738	5.765	VV	500	6007	0.12%	0.003%
48	5.774	5.765	5.783	VV	293	3062	0.06%	0.002%
49	5.805	5.783	5.839	VV	2842	36453	0.71%	0.018%
50	5.859	5.839	5.877	VV	559	9530	0.19%	0.005%
51	5.889	5.877	5.904	VV	568	6083	0.12%	0.003%
52	5.923	5.904	5.974	VV	614	17920	0.35%	0.009%
53	5.996	5.974	6.044	VV	576	17189	0.33%	0.009%
54	6.054	6.044	6.087	VV	500	5824	0.11%	0.003%
55	6.106	6.087	6.121	PV	640	7387	0.14%	0.004%
56	6.132	6.121	6.141	VV	545	4911	0.10%	0.002%
57	6.153	6.141	6.188	VV	716	13084	0.25%	0.007%
58	6.217	6.188	6.271	VV	1801	52814	1.03%	0.027%
59	6.295	6.271	6.324	VV	1162	25192	0.49%	0.013%
60	6.342	6.324	6.350	VV	756	9787	0.19%	0.005%
61	6.381	6.350	6.417	VV	1848	47804	0.93%	0.024%
62	6.443	6.417	6.499	VV	781	26814	0.52%	0.014%
63	6.563	6.499	6.584	VV	1412	41828	0.82%	0.021%
64	6.613	6.584	6.640	VV	1025	28274	0.55%	0.014%
65	6.658	6.640	6.681	VV	1471	22289	0.43%	0.011%
66	6.691	6.681	6.714	VV	910	11999	0.23%	0.006%
67	6.742	6.714	6.769	VV	953	20968	0.41%	0.011%
68	6.782	6.769	6.793	VV	1047	10962	0.21%	0.006%
69	6.811	6.793	6.828	VV	1836	28111	0.55%	0.014%
70	6.842	6.828	6.870	VV	1802	29409	0.57%	0.015%
71	6.919	6.870	6.960	VV	1320	37798	0.74%	0.019%
72	6.990	6.960	7.006	VV	908	21499	0.42%	0.011%
73	7.017	7.006	7.031	VV	869	10252	0.20%	0.005%
74	7.064	7.031	7.099	VV	1441	40219	0.78%	0.020%
75	7.118	7.099	7.137	VV	1567	25152	0.49%	0.013%
76	7.157	7.137	7.174	VV	2450	34129	0.67%	0.017%
77	7.188	7.174	7.207	VV	1875	28423	0.55%	0.014%
78	7.223	7.207	7.248	VV	1600	31060	0.61%	0.016%
79	7.279	7.248	7.295	VV	1749	34521	0.67%	0.017%
80	7.316	7.295	7.355	VV	2400	60866	1.19%	0.031%
81	7.388	7.355	7.413	VV	4855	85826	1.67%	0.043%
82	7.444	7.413	7.464	VV	2386	50201	0.98%	0.025%
83	7.476	7.464	7.492	VV	1829	27445	0.53%	0.014%
84	7.501	7.492	7.526	VV	1525	25859	0.50%	0.013%
85	7.569	7.526	7.586	VV	2499	62406	1.22%	0.031%
86	7.604	7.586	7.629	VV	3109	55062	1.07%	0.028%
87	7.663	7.629	7.678	VV	1469	39050	0.76%	0.020%
88	7.689	7.678	7.702	VV	1662	21487	0.42%	0.011%
89	7.734	7.702	7.762	VV	2215	56822	1.11%	0.029%

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90	7.784	7.762	7.821	VV	1959	47588	0.93%	0.024%
91	7.827	7.821	7.835	VV	993	8518	0.17%	0.004%
92	7.856	7.835	7.869	VV	1661	26552	0.52%	0.013%
93	8.034	8.021	8.115	VV	5842	228102	4.45%	0.115%
94	8.138	8.115	8.151	VV	2894	59027	1.15%	0.030%
95	8.172	8.151	8.191	VV	3353	69536	1.36%	0.035%
96	8.211	8.191	8.231	VV	3734	73877	1.44%	0.037%
97	8.241	8.231	8.261	VV	2940	46432	0.90%	0.023%
98	8.277	8.261	8.291	VV	2560	41060	0.80%	0.021%
99	8.318	8.291	8.333	VV	3206	74908	1.46%	0.038%
100	8.353	8.333	8.378	VV	4335	85041	1.66%	0.043%
101	8.420	8.378	8.436	VV	4359	108946	2.12%	0.055%
102	8.449	8.436	8.464	VV	3481	53669	1.05%	0.027%
103	8.484	8.464	8.554	VV	5043	160877	3.14%	0.081%
104	8.607	8.554	8.624	VV	12433	239797	4.67%	0.121%
105	8.637	8.624	8.683	VV	9874	192530	3.75%	0.097%
106	8.704	8.683	8.718	VV	2638	51754	1.01%	0.026%
107	8.740	8.718	8.777	VV	2693	81990	1.60%	0.041%
108	8.898	8.885	8.920	VV	10457	178750	3.48%	0.090%
109	8.936	8.920	8.960	VV	8388	160321	3.12%	0.081%
110	8.973	8.960	8.989	VV	5848	93650	1.83%	0.047%
111	9.001	8.989	9.087	VV	5610	226543	4.41%	0.114%
112	9.104	9.087	9.121	VV	2999	56682	1.10%	0.029%
113	9.142	9.121	9.162	VV	3420	71423	1.39%	0.036%
114	9.188	9.162	9.209	VV	3229	83687	1.63%	0.042%
115	9.226	9.209	9.289	VV	3625	125027	2.44%	0.063%
116	9.311	9.289	9.336	VV	4940	86786	1.69%	0.044%
117	9.354	9.336	9.381	VV	3079	60291	1.17%	0.030%
118	9.397	9.381	9.419	VV	1841	34947	0.68%	0.018%
119	9.468	9.419	9.488	VV	2909	66804	1.30%	0.034%
120	9.507	9.488	9.534	VV	2442	48918	0.95%	0.025%
121	9.560	9.534	9.583	VV	1744	42199	0.82%	0.021%
122	9.608	9.583	9.634	VV	2981	60976	1.19%	0.031%
123	9.665	9.634	9.673	VV	1736	33994	0.66%	0.017%
124	9.696	9.673	9.744	VV	5706	126326	2.46%	0.064%
125	9.768	9.744	9.798	VV	3022	66412	1.29%	0.033%
126	9.809	9.798	9.821	VV	1519	19747	0.38%	0.010%
127	9.842	9.821	9.888	VV	2553	68078	1.33%	0.034%
128	9.897	9.888	9.942	VV	1265	32528	0.63%	0.016%
129	9.977	9.942	10.002	VV	12979	199419	3.89%	0.100%
130	10.012	10.002	10.070	VV	5382	120277	2.34%	0.061%
131	10.091	10.070	10.106	VV	3194	46553	0.91%	0.023%
132	10.123	10.106	10.161	VV	2569	54786	1.07%	0.028%
133	10.180	10.161	10.237	VV	1151	35339	0.69%	0.018%
134	10.268	10.237	10.344	VV	707	19724	0.38%	0.010%
135	10.363	10.344	10.398	PV	181	1878	0.04%	0.001%
136	10.440	10.398	10.464	PV	1929	34329	0.67%	0.017%
137	10.474	10.464	10.504	VV	967	13241	0.26%	0.007%
138	10.540	10.504	10.555	VV	1895	31189	0.61%	0.016%
139	10.578	10.555	10.601	VV	2202	45258	0.88%	0.023%
140	10.621	10.601	10.651	VV	2221	32507	0.63%	0.016%
141	10.691	10.651	10.731	VV	2439	46314	0.90%	0.023%

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142	10.752	10.731	10.768	VV	1254	18705	0.36%	0.009%
143	10.788	10.768	10.806	VV	1272	23208	0.45%	0.012%
144	10.827	10.806	10.843	VV	3052	41862	0.82%	0.021%
145	10.860	10.843	10.876	VV	3268	39668	0.77%	0.020%
146	10.898	10.876	10.938	VV	4002	81275	1.58%	0.041%
147	10.956	10.938	10.980	VV	855	18138	0.35%	0.009%
148	10.998	10.980	11.040	VV	1611	29875	0.58%	0.015%
149	11.051	11.040	11.069	VV	617	9577	0.19%	0.005%
150	11.096	11.069	11.158	VV	61757	832725	16.23%	0.419%
151	11.177	11.158	11.368	VV	21154	456582	8.90%	0.230%
152	11.404	11.368	11.421	PV	1363	21715	0.42%	0.011%
153	11.462	11.421	11.478	VV	2095	46304	0.90%	0.023%
154	11.494	11.478	11.510	VV	1877	25647	0.50%	0.013%
155	11.530	11.510	11.553	VV	3314	43819	0.85%	0.022%
156	11.582	11.553	11.594	VV	847	12437	0.24%	0.006%
157	11.626	11.594	11.666	VV	3685	59878	1.17%	0.030%
158	11.694	11.666	11.712	PV	2361	27330	0.53%	0.014%
159	11.731	11.712	11.748	VV	1171	16284	0.32%	0.008%
160	11.757	11.748	11.791	VV	671	11227	0.22%	0.006%
161	11.852	11.791	11.881	VV	349298	3794758	73.95%	1.911%
162	11.900	11.881	11.916	VV	12419	155675	3.03%	0.078%
163	11.933	11.916	11.979	VV	13587	214633	4.18%	0.108%
164	12.013	11.979	12.034	VV	18663	276318	5.38%	0.139%
165	12.048	12.034	12.063	VV	7802	97854	1.91%	0.049%
166	12.080	12.063	12.121	VV	10099	158820	3.10%	0.080%
167	12.140	12.121	12.156	VV	706	8726	0.17%	0.004%
168	12.198	12.156	12.227	VV	3195	47798	0.93%	0.024%
169	12.238	12.227	12.251	PV	185	1619	0.03%	0.001%
170	12.304	12.251	12.347	VV	3610	73035	1.42%	0.037%
171	12.374	12.347	12.421	VV	5491	97944	1.91%	0.049%
172	12.456	12.421	12.501	VV	21979	304006	5.92%	0.153%
173	12.517	12.501	12.536	VV	1259	20423	0.40%	0.010%
174	12.567	12.536	12.585	VV	1077	20878	0.41%	0.011%
175	12.594	12.585	12.602	VV	652	6054	0.12%	0.003%
176	12.622	12.602	12.630	VV	967	13212	0.26%	0.007%
177	12.645	12.630	12.669	VV	1576	21341	0.42%	0.011%
178	12.691	12.669	12.740	VV	3506	65597	1.28%	0.033%
179	12.796	12.740	12.817	PV	10582	218195	4.25%	0.110%
180	12.837	12.817	12.891	VV	7366	177527	3.46%	0.089%
181	12.915	12.891	12.984	VV	156419	1952650	38.05%	0.983%
182	13.009	12.984	13.038	VV	1724	30623	0.60%	0.015%
183	13.062	13.038	13.089	PV	8934	142588	2.78%	0.072%
184	13.105	13.089	13.122	VV	4855	68176	1.33%	0.034%
185	13.130	13.122	13.151	VV	2747	33409	0.65%	0.017%
186	13.166	13.151	13.185	VV	2566	34023	0.66%	0.017%
187	13.212	13.185	13.253	VV	131811	1569575	30.59%	0.790%
188	13.286	13.253	13.366	VV	258149	3232109	62.99%	1.628%
189	13.393	13.366	13.420	VV	4282	60524	1.18%	0.030%
190	13.449	13.420	13.469	VV	4436	62189	1.21%	0.031%
191	13.494	13.469	13.520	VV	7598	121122	2.36%	0.061%
192	13.545	13.520	13.579	VV	3640	71596	1.40%	0.036%
193	13.621	13.579	13.652	PV	3825	74877	1.46%	0.038%
194	13.682	13.652	13.726	VV	11769	221397	4.31%	0.111%

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195	13.736	13.726	13.760	VV	1178	14618	0.28%	0.007%
196	13.808	13.760	13.851	VV	21439	406631	7.92%	0.205%
197	13.868	13.851	13.891	VV	3170	42327	0.82%	0.021%
198	13.916	13.891	13.937	PV	11301	151143	2.95%	0.076%
199	13.956	13.937	14.008	VV	11406	205211	4.00%	0.103%
200	14.036	14.008	14.064	VV	8905	179341	3.49%	0.090%
201	14.082	14.064	14.107	VV	11057	165517	3.23%	0.083%
202	14.127	14.107	14.167	VV	7607	128251	2.50%	0.065%
203	14.183	14.167	14.200	VV	1346	21022	0.41%	0.011%
204	14.210	14.200	14.221	VV	871	8249	0.16%	0.004%
205	14.247	14.221	14.288	VV	2982	69125	1.35%	0.035%
206	14.308	14.288	14.328	VV	1978	31069	0.61%	0.016%
207	14.338	14.328	14.368	VV	1063	16344	0.32%	0.008%
208	14.392	14.368	14.418	PV	2238	42057	0.82%	0.021%
209	14.447	14.418	14.459	VV	2435	39783	0.78%	0.020%
210	14.540	14.459	14.555	VV	5318	203802	3.97%	0.103%
211	14.572	14.555	14.582	VV	5960	75258	1.47%	0.038%
212	14.598	14.582	14.625	VV	6552	134288	2.62%	0.068%
213	14.649	14.625	14.698	VV	7095	160327	3.12%	0.081%
214	14.733	14.698	14.757	VV	9428	191525	3.73%	0.096%
215	14.785	14.757	14.824	VV	17513	353844	6.90%	0.178%
216	14.845	14.824	14.866	VV	8135	141245	2.75%	0.071%
217	14.896	14.866	14.929	VV	7354	207061	4.04%	0.104%
218	14.945	14.929	14.962	VV	4552	71616	1.40%	0.036%
219	14.984	14.962	15.006	VV	4513	89509	1.74%	0.045%
220	15.021	15.006	15.037	VV	2976	38567	0.75%	0.019%
221	15.068	15.037	15.076	VV	8030	107946	2.10%	0.054%
222	15.098	15.076	15.119	VV	61858	829166	16.16%	0.418%
223	15.139	15.119	15.201	VV	63419	1164392	22.69%	0.586%
224	15.258	15.201	15.281	VV	13378	358469	6.99%	0.181%
225	15.296	15.281	15.358	VV	8425	238164	4.64%	0.120%
226	15.400	15.358	15.414	VV	4384	109380	2.13%	0.055%
227	15.448	15.414	15.481	VV	9389	231066	4.50%	0.116%
228	15.525	15.481	15.544	VV	9029	208498	4.06%	0.105%
229	15.560	15.544	15.582	VV	7103	149852	2.92%	0.075%
230	15.590	15.582	15.627	VV	5264	109223	2.13%	0.055%
231	15.654	15.627	15.668	VV	7988	125609	2.45%	0.063%
232	15.683	15.668	15.704	VV	6796	94765	1.85%	0.048%
233	15.728	15.704	15.746	VV	9663	150462	2.93%	0.076%
234	15.774	15.746	15.799	VV	21582	389952	7.60%	0.196%
235	15.813	15.799	15.854	VV	10107	240133	4.68%	0.121%
236	15.878	15.854	15.893	VV	9350	169676	3.31%	0.085%
237	15.918	15.893	15.988	VV	14515	578741	11.28%	0.291%
238	16.000	15.988	16.028	VV	9154	181177	3.53%	0.091%
239	16.043	16.028	16.055	VV	7492	109371	2.13%	0.055%
240	16.062	16.055	16.083	VV	6597	99431	1.94%	0.050%
241	16.105	16.083	16.114	VV	8564	134339	2.62%	0.068%
242	16.125	16.114	16.142	VV	8911	132002	2.57%	0.066%
243	16.161	16.142	16.182	VV	10723	204719	3.99%	0.103%
244	16.201	16.182	16.210	VV	9462	135318	2.64%	0.068%
245	16.225	16.210	16.259	VV	9392	242838	4.73%	0.122%
246	16.278	16.259	16.301	VV	8793	184685	3.60%	0.093%

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247	16.358	16.301	16.401	VV	13616	535533	10.44%	0.270%
248	16.462	16.401	16.505	VV	15121	713458	13.90%	0.359%
249	16.565	16.505	16.581	VV	14689	558714	10.89%	0.281%
250	16.594	16.581	16.608	VV	13900	212138	4.13%	0.107%
251	16.665	16.608	16.685	VV	74463	1561993	30.44%	0.787%
252	16.695	16.685	16.735	VV	42594	902359	17.59%	0.454%
253	16.751	16.735	16.763	VV	22433	356158	6.94%	0.179%
254	16.800	16.763	16.821	VV	34361	894683	17.44%	0.451%
255	16.836	16.821	16.881	VV	23204	718566	14.00%	0.362%
256	16.938	16.881	16.963	VV	34580	1209186	23.56%	0.609%
257	16.988	16.963	17.026	VV	54005	1336741	26.05%	0.673%
258	17.052	17.026	17.091	VV	57060	1502512	29.28%	0.757%
259	17.126	17.091	17.140	VV	42292	1070710	20.87%	0.539%
260	17.152	17.140	17.184	VV	39446	887654	17.30%	0.447%
261	17.192	17.184	17.241	VV	32730	1007050	19.63%	0.507%
262	17.299	17.241	17.317	VV	37226	1485933	28.96%	0.748%
263	17.328	17.317	17.337	VV	37210	434866	8.47%	0.219%
264	17.348	17.337	17.370	VV	36506	699037	13.62%	0.352%
265	17.420	17.370	17.467	VV	39615	2078008	40.50%	1.046%
266	17.507	17.467	17.519	VV	41170	1188542	23.16%	0.599%
267	17.551	17.519	17.568	VV	44183	1189567	23.18%	0.599%
268	17.585	17.568	17.608	VV	43578	980426	19.11%	0.494%
269	17.629	17.608	17.645	VV	43179	893922	17.42%	0.450%
270	17.669	17.645	17.694	VV	44116	1184903	23.09%	0.597%
271	17.722	17.694	17.740	VV	43996	1114007	21.71%	0.561%
272	17.756	17.740	17.781	VV	41837	948216	18.48%	0.477%
273	17.850	17.781	17.864	VV	41789	1872671	36.49%	0.943%
274	17.894	17.864	17.927	VV	50193	1569824	30.59%	0.791%
275	17.993	17.927	18.018	VV	60612	2664468	51.92%	1.342%
276	18.029	18.018	18.053	VV	44912	871912	16.99%	0.439%
277	18.135	18.053	18.143	VV	55717	2410173	46.97%	1.214%
278	18.155	18.143	18.209	VV	54608	1995725	38.89%	1.005%
279	18.233	18.209	18.263	VV	48905	1478115	28.81%	0.744%
280	18.274	18.263	18.291	VV	47410	772530	15.05%	0.389%
281	18.341	18.291	18.387	VV	58192	2941765	57.33%	1.481%
282	18.438	18.387	18.479	VV	65243	3080847	60.04%	1.551%
283	18.502	18.479	18.524	VV	63475	1574971	30.69%	0.793%
284	18.538	18.524	18.558	VV	52699	1003081	19.55%	0.505%
285	18.580	18.558	18.599	VV	53377	1275998	24.87%	0.643%
286	18.636	18.599	18.654	VV	54211	1686710	32.87%	0.849%
287	18.690	18.654	18.734	VV	72142	2844005	55.42%	1.432%
288	18.744	18.734	18.772	VV	54208	1178029	22.96%	0.593%
289	18.828	18.772	18.867	VV	61375	3130334	61.00%	1.576%
290	18.928	18.867	18.951	VV	63957	2739624	53.39%	1.380%
291	18.973	18.951	19.002	VV	61188	1744155	33.99%	0.878%
292	19.020	19.002	19.046	VV	54243	1415033	27.58%	0.713%
293	19.120	19.046	19.133	VV	56293	2815759	54.87%	1.418%
294	19.143	19.133	19.154	VV	55915	664131	12.94%	0.334%
295	19.223	19.154	19.244	VV	61808	3166817	61.71%	1.595%
296	19.255	19.244	19.273	VV	62314	1030724	20.09%	0.519%
297	19.293	19.273	19.306	VV	60067	1151296	22.44%	0.580%
298	19.325	19.306	19.342	VV	61353	1284761	25.04%	0.647%
299	19.356	19.342	19.378	VV	58254	1213257	23.64%	0.611%

rteres								
300	19.402	19.378	19.451	VV	58601	2522884	49.17%	1.270%
301	19.474	19.451	19.483	VV	58358	1095965	21.36%	0.552%
302	19.538	19.483	19.565	VV	62188	2934162	57.18%	1.478%
303	19.625	19.565	19.663	VV	68097	3740660	72.90%	1.884%
304	19.673	19.663	19.692	VV	61840	1046634	20.40%	0.527%
305	19.729	19.692	19.767	VV	64312	2751721	53.63%	1.386%
306	19.801	19.767	19.817	VV	64714	1892694	36.88%	0.953%
307	19.863	19.817	19.891	VV	72107	3015170	58.76%	1.518%
308	19.935	19.891	19.944	VV	70834	2214441	43.15%	1.115%
309	19.984	19.944	20.020	VV	76068	3343859	65.16%	1.684%
310	20.032	20.020	20.047	VV	72552	1163464	22.67%	0.586%
311	20.056	20.047	20.078	VV	73110	1305430	25.44%	0.657%
312	20.135	20.078	20.157	VV	74035	3388965	66.04%	1.707%
313	20.195	20.157	20.209	VV	73005	2238308	43.62%	1.127%
314	20.254	20.209	20.287	VV	83315	3658439	71.30%	1.842%
315	20.327	20.287	20.338	VV	84671	2379960	46.38%	1.198%
316	20.349	20.338	20.369	VV	85781	1593126	31.05%	0.802%
317	20.384	20.369	20.398	VV	85037	1419694	27.67%	0.715%
318	20.421	20.398	20.468	VV	86599	3427275	66.79%	1.726%
319	20.563	20.468	20.574	VV	84999	5131389	100.00%	2.584%
320	20.622	20.574	20.631	VV	89710	3002199	58.51%	1.512%
321	20.639	20.631	20.648	VV	89179	871402	16.98%	0.439%
322	20.656	20.648	20.669	VV	90856	1100404	21.44%	0.554%
323	20.679	20.669	20.687	VV	85266	932370	18.17%	0.470%
324	20.698	20.687	20.762	VV	87384	3683859	71.79%	1.855%
325	20.828	20.762	20.866	VV	86511	5092239	99.24%	2.564%
326	20.877	20.866	20.898	VV	83959	1538482	29.98%	0.775%
327	20.904	20.898	21.021	VV	81487	5023552	97.90%	2.530%
328	21.076	21.021	21.134	VV	66218	4251759	82.86%	2.141%
329	21.156	21.134	21.192	VV	63226	2026277	39.49%	1.020%
330	21.228	21.192	21.261	VV	56400	2269718	44.23%	1.143%
331	21.271	21.261	21.361	VV	51610	2734279	53.29%	1.377%
332	21.393	21.361	21.415	VV	44027	1381151	26.92%	0.696%
333	21.428	21.415	21.455	VV	42767	975880	19.02%	0.491%
334	21.475	21.455	21.551	VV	41790	2070572	40.35%	1.043%
335	21.554	21.551	21.574	VV	29699	395622	7.71%	0.199%
336	21.591	21.574	21.634	VV	28135	918512	17.90%	0.463%
337	21.645	21.634	21.658	VV	21997	299738	5.84%	0.151%
338	21.664	21.658	21.671	VV	21848	175009	3.41%	0.088%
339	21.689	21.671	21.717	VV	21803	576262	11.23%	0.290%
340	21.760	21.717	21.860	VV	23844	1578261	30.76%	0.795%
341	21.870	21.860	21.903	VV	13557	260579	5.08%	0.131%
342	21.920	21.903	21.934	VV	7248	120322	2.34%	0.061%
343	21.957	21.934	22.004	VV	7903	202517	3.95%	0.102%
344	22.008	22.004	22.020	VV	2095	12688	0.25%	0.006%
345	22.067	22.020	22.092	PV	2580	44611	0.87%	0.022%

Sum of corrected areas: 198580988

Aliphatic EPH 110724.M Fri Nov 08 02:35:24 2024

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	11/05/24
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	11/05/24
Client Sample ID:	WC-3(0-6)DL	SDG No.:	P4722
Lab Sample ID:	P4722-13DL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.09 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
FE051109.D	5	11/07/24	11/08/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	15.7	J	9.91	23.0	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	100		10.4	11.5	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	6.02		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	5.52		40 - 140	55%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4722-13DL	Acq On:	08 Nov 2024 09:06
Client Sample ID:	WC-3(0-6)DL	Operator:	YP\AJ
Data file:	FE051109.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.140	6.758	347187	2.481	300	ug/ml
Aliphatic C12-C16	6.759	10.191	1099349	7.817	200	ug/ml
Aliphatic C16-C21	10.192	13.550	1812358	13.155	300	ug/ml
Aliphatic C21-C28	13.551	17.206	2653593	19.81	400	ug/ml
Aliphatic C28-C40	17.207	22.053	33665606	261.484	600	ug/ml
Aliphatic EPH	3.140	22.053	39578093	304.747		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	828088	5.52		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	683995	6.02		ug/ml
Aliphatic C9-C28	3.140	17.206	5912487	43.263	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
 Data File : FE051109.D
 Signal(s) : FID1B.ch
 Acq On : 08 Nov 2024 09:06
 Operator : YP\AJ
 Sample : P4722-13DL 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 WC-3(0-6)DL

Integration File: sample.E
 Quant Time: Nov 09 00:41:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.852	828088	5.517 ug/ml
Spiked Amount 50.000		Recovery =	11.03%
12) S 1-chlorooctadecane (S...	13.286	683995	6.025 ug/ml
Spiked Amount 50.000		Recovery =	12.05%

Target Compounds

(f)=RT Delta > 1/2 Window

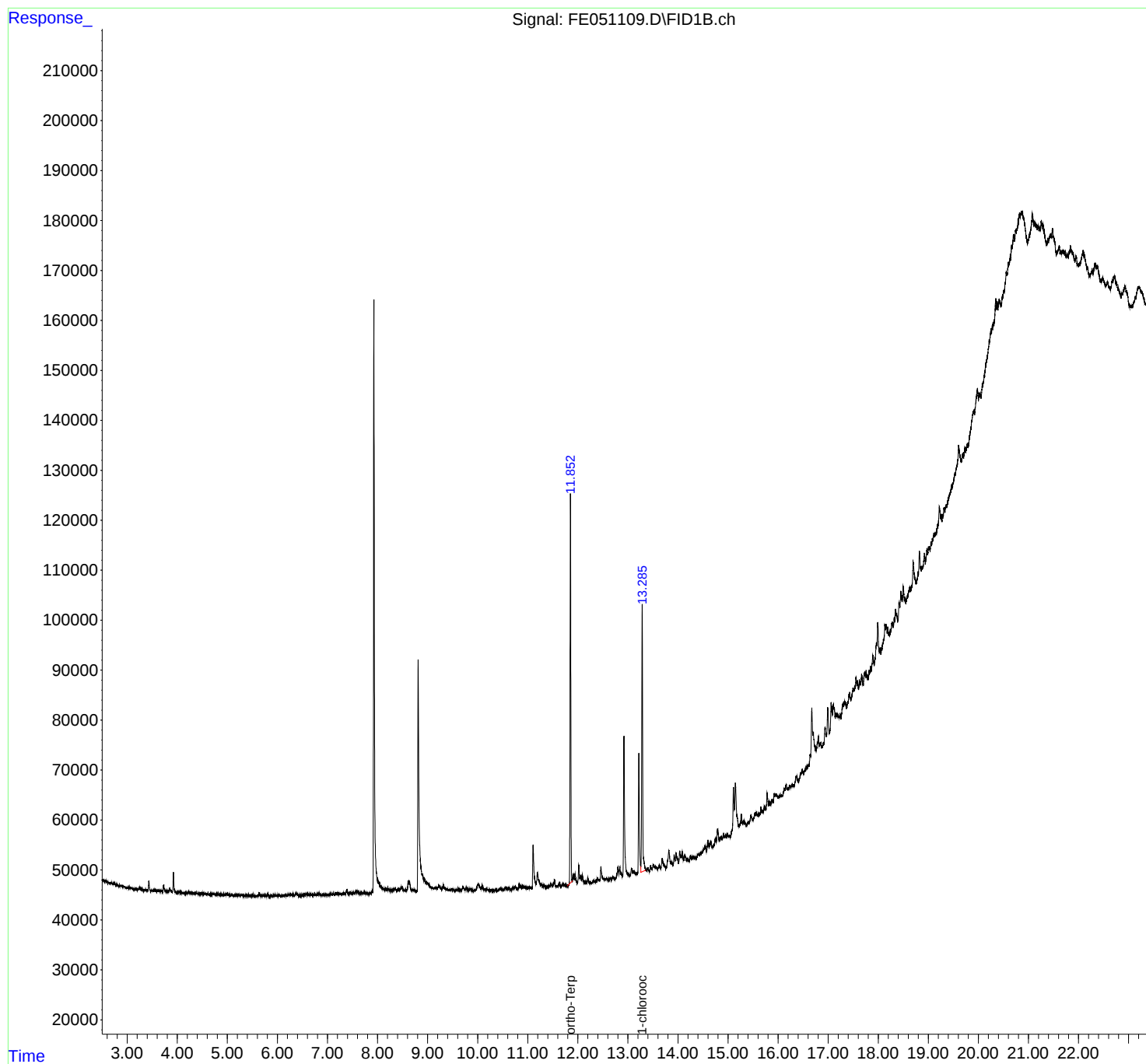
(m)=manual int.

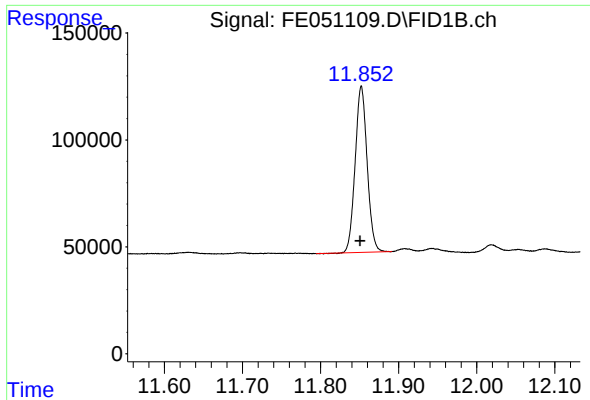
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
Data File : FE051109.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 09:06
Operator : YP\AJ
Sample : P4722-13DL 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WC-3(0-6)DL

Integration File: sample.E
Quant Time: Nov 09 00:41:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

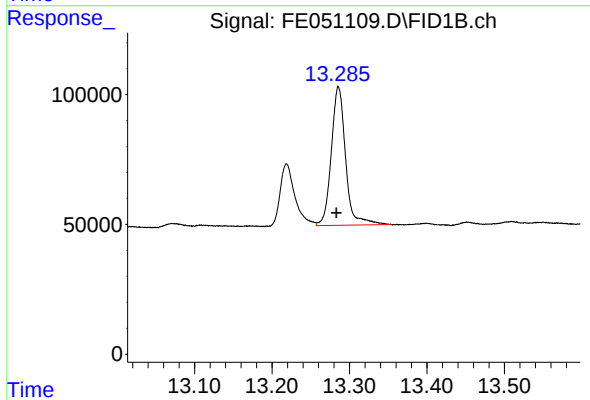




#9 ortho-Terphenyl (SURR)

R.T.: 11.852 min
Delta R.T.: 0.002 min
Response: 828088
Conc: 5.52 ug/ml

Instrument :
FID_E
ClientSampleId :
WC-3(0-6)DL



#12 1-chlorooctadecane (SURR)

R.T.: 13.286 min
Delta R.T.: 0.003 min
Response: 683995
Conc: 6.02 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
 Data File : FE051109.D
 Signal(s) : FID1B.ch
 Acq On : 08 Nov 2024 09:06
 Sample : P4722-13DL 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.242	3.204	3.281	BV	506	7210	0.28%	0.018%
2	3.290	3.281	3.304	VV	60	492	0.02%	0.001%
3	3.312	3.304	3.334	PV	27	316	0.01%	0.001%
4	3.344	3.334	3.401	VV	90	2511	0.10%	0.006%
5	3.433	3.401	3.507	VV	1944	24535	0.95%	0.060%
6	3.516	3.507	3.536	VV	105	1082	0.04%	0.003%
7	3.553	3.536	3.580	PV	152	1906	0.07%	0.005%
8	3.599	3.580	3.651	VV	78	2400	0.09%	0.006%
9	3.685	3.651	3.711	PV	169	3447	0.13%	0.008%
10	3.728	3.711	3.805	VV	1344	20443	0.79%	0.050%
11	3.849	3.805	3.900	VV	703	14907	0.58%	0.036%
12	3.924	3.900	3.998	VV	3988	48368	1.87%	0.118%
13	4.008	3.998	4.021	VV	119	1352	0.05%	0.003%
14	4.036	4.021	4.130	VV	214	5778	0.22%	0.014%
15	4.143	4.130	4.193	VV	95	2782	0.11%	0.007%
16	4.225	4.193	4.251	VV	319	5508	0.21%	0.013%
17	4.258	4.251	4.293	VV	206	3799	0.15%	0.009%
18	4.306	4.293	4.341	VV	136	2997	0.12%	0.007%
19	4.368	4.341	4.398	PV	151	3589	0.14%	0.009%
20	4.409	4.398	4.455	VV	138	2886	0.11%	0.007%
21	4.492	4.455	4.518	VV	386	5704	0.22%	0.014%
22	4.524	4.518	4.598	VV	118	5447	0.21%	0.013%
23	4.613	4.598	4.641	VV	272	3040	0.12%	0.007%
24	4.662	4.641	4.698	VV	174	3816	0.15%	0.009%
25	4.704	4.698	4.724	VV	173	2180	0.08%	0.005%
26	4.738	4.724	4.756	VV	174	2172	0.08%	0.005%
27	4.780	4.756	4.871	PV	243	7256	0.28%	0.018%
28	4.886	4.871	4.908	VV	122	2422	0.09%	0.006%
29	4.927	4.908	4.944	VV	235	4177	0.16%	0.010%
30	4.951	4.944	4.981	VV	211	3639	0.14%	0.009%
31	4.998	4.981	5.044	VV	315	6677	0.26%	0.016%
32	5.049	5.044	5.150	VV	170	5392	0.21%	0.013%
33	5.170	5.150	5.191	PV	243	3440	0.13%	0.008%
34	5.195	5.191	5.254	VV	186	4253	0.16%	0.010%
35	5.290	5.254	5.307	VV	234	4847	0.19%	0.012%
36	5.318	5.307	5.342	VV	198	2044	0.08%	0.005%

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37	5.370	5.342	5.381	PV	127	2030	0.08%	0.005%
38	5.389	5.381	5.451	VV	137	3990	0.15%	0.010%
39	5.490	5.451	5.509	VV	207	4159	0.16%	0.010%
40	5.519	5.509	5.564	VV	182	2829	0.11%	0.007%
41	5.571	5.564	5.582	VV	118	794	0.03%	0.002%
42	5.591	5.582	5.607	VV	115	787	0.03%	0.002%
43	5.636	5.607	5.661	PV	672	9810	0.38%	0.024%
44	5.666	5.661	5.688	VV	132	1722	0.07%	0.004%
45	5.751	5.688	5.786	VV	163	6000	0.23%	0.015%
46	5.806	5.786	5.845	VV	662	8674	0.34%	0.021%
47	5.866	5.845	5.907	PV	151	3911	0.15%	0.010%
48	5.924	5.907	5.984	VV	207	4692	0.18%	0.011%
49	5.997	5.984	6.030	VV	147	2679	0.10%	0.007%
50	6.040	6.030	6.090	VV	176	2290	0.09%	0.006%
51	6.103	6.090	6.139	VV	158	2602	0.10%	0.006%
52	6.156	6.139	6.175	VV	159	2385	0.09%	0.006%
53	6.184	6.175	6.193	VV	76	672	0.03%	0.002%
54	6.226	6.193	6.270	VV	306	9456	0.37%	0.023%
55	6.299	6.270	6.334	VV	279	6809	0.26%	0.017%
56	6.386	6.334	6.419	VV	433	12242	0.47%	0.030%
57	6.446	6.419	6.504	VV	256	6167	0.24%	0.015%
58	6.568	6.504	6.589	VV	326	9928	0.38%	0.024%
59	6.615	6.589	6.643	VV	283	6827	0.26%	0.017%
60	6.659	6.643	6.678	VV	360	4949	0.19%	0.012%
61	6.693	6.678	6.724	VV	239	3262	0.13%	0.008%
62	6.742	6.724	6.775	VV	248	4707	0.18%	0.011%
63	6.784	6.775	6.794	VV	181	1678	0.06%	0.004%
64	6.814	6.794	6.824	VV	392	4595	0.18%	0.011%
65	6.844	6.824	6.868	VV	418	5997	0.23%	0.015%
66	6.881	6.868	6.891	PV	126	1036	0.04%	0.003%
67	6.919	6.891	6.966	VV	245	5724	0.22%	0.014%
68	6.987	6.966	7.008	VV	141	2416	0.09%	0.006%
69	7.018	7.008	7.033	VV	116	1077	0.04%	0.003%
70	7.067	7.033	7.101	VV	269	5544	0.21%	0.013%
71	7.120	7.101	7.139	VV	273	3518	0.14%	0.009%
72	7.160	7.139	7.176	VV	417	5759	0.22%	0.014%
73	7.189	7.176	7.205	VV	362	4445	0.17%	0.011%
74	7.225	7.205	7.247	VV	398	6149	0.24%	0.015%
75	7.278	7.247	7.304	VV	335	7444	0.29%	0.018%
76	7.318	7.304	7.361	VV	373	10114	0.39%	0.025%
77	7.389	7.361	7.428	VV	1066	19799	0.77%	0.048%
78	7.450	7.428	7.494	VV	482	14329	0.55%	0.035%
79	7.508	7.494	7.531	VV	314	6468	0.25%	0.016%
80	7.568	7.531	7.588	VV	562	14652	0.57%	0.036%
81	7.605	7.588	7.631	VV	634	12029	0.46%	0.029%
82	7.640	7.631	7.652	VV	328	3501	0.14%	0.009%
83	7.662	7.652	7.672	VV	268	2969	0.11%	0.007%
84	7.689	7.672	7.704	VV	318	4690	0.18%	0.011%
85	7.735	7.704	7.766	VV	380	9953	0.38%	0.024%
86	7.784	7.766	7.839	VV	381	7774	0.30%	0.019%
87	7.859	7.839	7.874	VV	274	3582	0.14%	0.009%
88	7.891	7.874	7.904	VV	663	8175	0.32%	0.020%
89	8.135	8.125	8.164	VV	964	21425	0.83%	0.052%

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90	8.174	8.164	8.194	VV	940	15311	0.59%	0.037%
91	8.213	8.194	8.261	VV	978	31119	1.20%	0.076%
92	8.278	8.261	8.292	VV	685	11883	0.46%	0.029%
93	8.321	8.292	8.336	VV	871	19290	0.75%	0.047%
94	8.353	8.336	8.381	VV	1035	22654	0.88%	0.055%
95	8.424	8.381	8.444	VV	1000	30066	1.16%	0.073%
96	8.455	8.444	8.466	VV	934	11306	0.44%	0.027%
97	8.486	8.466	8.556	VV	1395	43256	1.67%	0.105%
98	8.614	8.556	8.626	VV	2379	48545	1.88%	0.118%
99	8.638	8.626	8.691	VV	2416	50327	1.94%	0.122%
100	8.703	8.691	8.728	VV	629	12635	0.49%	0.031%
101	8.738	8.728	8.788	VV	634	17298	0.67%	0.042%
102	8.936	8.923	8.960	VV	2938	53959	2.08%	0.131%
103	8.972	8.960	9.059	VV	2111	99736	3.85%	0.242%
104	9.067	9.059	9.124	VV	1112	38638	1.49%	0.094%
105	9.149	9.124	9.188	VV	1015	33874	1.31%	0.082%
106	9.226	9.188	9.283	VV	1414	55753	2.15%	0.136%
107	9.314	9.283	9.341	VV	1491	34496	1.33%	0.084%
108	9.355	9.341	9.381	VV	845	16278	0.63%	0.040%
109	9.392	9.381	9.445	VV	617	16999	0.66%	0.041%
110	9.470	9.445	9.493	VV	677	14677	0.57%	0.036%
111	9.511	9.493	9.541	VV	609	13037	0.50%	0.032%
112	9.567	9.541	9.584	VV	444	9199	0.36%	0.022%
113	9.609	9.584	9.636	VV	692	15308	0.59%	0.037%
114	9.705	9.636	9.751	VV	1020	37651	1.45%	0.092%
115	9.771	9.751	9.826	VV	811	22600	0.87%	0.055%
116	9.849	9.826	9.921	VV	547	19848	0.77%	0.048%
117	9.930	9.921	9.944	VV	328	3353	0.13%	0.008%
118	10.016	9.944	10.068	VV	1458	59976	2.32%	0.146%
119	10.091	10.068	10.121	VV	1191	24247	0.94%	0.059%
120	10.135	10.121	10.174	VV	520	12148	0.47%	0.030%
121	10.188	10.174	10.250	VV	332	9040	0.35%	0.022%
122	10.269	10.250	10.348	VV	236	6298	0.24%	0.015%
123	10.363	10.348	10.401	VV	126	2334	0.09%	0.006%
124	10.446	10.401	10.463	PV	433	8292	0.32%	0.020%
125	10.478	10.463	10.520	VV	332	7184	0.28%	0.017%
126	10.572	10.520	10.605	VV	528	19458	0.75%	0.047%
127	10.624	10.605	10.664	VV	530	8781	0.34%	0.021%
128	10.705	10.664	10.728	VV	514	11884	0.46%	0.029%
129	10.757	10.728	10.781	VV	616	11279	0.44%	0.027%
130	10.829	10.781	10.848	VV	1178	19934	0.77%	0.048%
131	10.864	10.848	10.881	VV	681	9330	0.36%	0.023%
132	10.901	10.881	10.944	VV	732	18143	0.70%	0.044%
133	10.961	10.944	10.993	VV	374	7390	0.29%	0.018%
134	11.008	10.993	11.034	VV	294	4909	0.19%	0.012%
135	11.052	11.034	11.081	VV	305	4492	0.17%	0.011%
136	11.107	11.081	11.168	VV	8654	156500	6.05%	0.380%
137	11.192	11.168	11.380	VV	3093	113250	4.38%	0.275%
138	11.414	11.380	11.429	PV	369	4578	0.18%	0.011%
139	11.464	11.429	11.483	VV	791	12719	0.49%	0.031%
140	11.501	11.483	11.511	VV	540	7180	0.28%	0.017%
141	11.532	11.511	11.567	VV	1440	20909	0.81%	0.051%

					rteres			
142	11.586	11.567	11.602	VV	214	3225	0.12%	0.008%
143	11.631	11.602	11.671	VV	746	12903	0.50%	0.031%
144	11.697	11.671	11.718	VV	487	6078	0.23%	0.015%
145	11.735	11.718	11.758	VV	236	3707	0.14%	0.009%
146	11.769	11.758	11.794	VV	209	2204	0.09%	0.005%
147	11.852	11.794	11.889	PV	77969	852288	32.93%	2.071%
148	11.909	11.889	11.926	VV	2186	34269	1.32%	0.083%
149	11.943	11.926	11.989	VV	2253	45876	1.77%	0.112%
150	12.019	11.989	12.041	VV	3902	58260	2.25%	0.142%
151	12.053	12.041	12.070	VV	1716	24377	0.94%	0.059%
152	12.088	12.070	12.122	VV	1933	34603	1.34%	0.084%
153	12.137	12.122	12.161	VV	506	8182	0.32%	0.020%
154	12.199	12.161	12.249	VV	1230	19936	0.77%	0.048%
155	12.307	12.249	12.318	PV	378	6632	0.26%	0.016%
156	12.330	12.318	12.361	VV	336	6633	0.26%	0.016%
157	12.393	12.361	12.438	VV	847	20537	0.79%	0.050%
158	12.462	12.438	12.527	VV	2954	58979	2.28%	0.143%
159	12.540	12.527	12.558	VV	485	7815	0.30%	0.019%
160	12.575	12.558	12.618	VV	437	10724	0.41%	0.026%
161	12.652	12.618	12.678	VV	387	8394	0.32%	0.020%
162	12.698	12.678	12.712	VV	567	7764	0.30%	0.019%
163	12.721	12.712	12.744	VV	393	4692	0.18%	0.011%
164	12.802	12.744	12.821	PV	2394	44129	1.71%	0.107%
165	12.839	12.821	12.898	VV	2202	45933	1.77%	0.112%
166	12.921	12.898	13.011	VV	28246	414387	16.01%	1.007%
167	13.019	13.011	13.046	VV	407	4843	0.19%	0.012%
168	13.072	13.046	13.097	PV	1509	25415	0.98%	0.062%
169	13.109	13.097	13.160	VV	830	19105	0.74%	0.046%
170	13.172	13.160	13.188	VV	377	4667	0.18%	0.011%
171	13.219	13.188	13.257	VV	24170	327195	12.64%	0.795%
172	13.286	13.257	13.370	VV	53667	713741	27.58%	1.735%
173	13.399	13.370	13.431	VV	881	18345	0.71%	0.045%
174	13.452	13.431	13.475	PV	1211	17813	0.69%	0.043%
175	13.509	13.475	13.532	VV	1324	28126	1.09%	0.068%
176	13.549	13.532	13.592	VV	909	21766	0.84%	0.053%
177	13.631	13.592	13.654	VV	797	16846	0.65%	0.041%
178	13.686	13.654	13.760	VV	2076	51392	1.99%	0.125%
179	13.819	13.760	13.854	PV	3353	82642	3.19%	0.201%
180	13.869	13.854	13.902	VV	836	16226	0.63%	0.039%
181	13.924	13.902	13.943	VV	1999	28366	1.10%	0.069%
182	13.962	13.943	14.013	VV	2361	53143	2.05%	0.129%
183	14.036	14.013	14.070	VV	2539	49551	1.91%	0.120%
184	14.087	14.070	14.111	VV	2199	35392	1.37%	0.086%
185	14.133	14.111	14.186	VV	1279	31655	1.22%	0.077%
186	14.195	14.186	14.209	VV	370	3398	0.13%	0.008%
187	14.217	14.209	14.227	VV	180	1111	0.04%	0.003%
188	14.248	14.227	14.269	PV	868	11271	0.44%	0.027%
189	14.282	14.269	14.290	VV	353	4250	0.16%	0.010%
190	14.313	14.290	14.325	VV	386	6742	0.26%	0.016%
191	14.338	14.325	14.368	VV	286	4440	0.17%	0.011%
192	14.401	14.368	14.426	PV	589	9732	0.38%	0.024%
193	14.447	14.426	14.457	VV	509	5212	0.20%	0.013%
194	14.545	14.457	14.569	VV	1238	42100	1.63%	0.102%

					rteres			
195	14.598	14.569	14.629	VV	1981	37335	1.44%	0.091%
196	14.656	14.629	14.704	VV	1445	31452	1.22%	0.076%
197	14.751	14.704	14.764	VV	1459	26855	1.04%	0.065%
198	14.792	14.764	14.834	VV	3083	68056	2.63%	0.165%
199	14.855	14.834	14.881	VV	1123	22802	0.88%	0.055%
200	14.907	14.881	14.933	VV	1327	26588	1.03%	0.065%
201	14.948	14.933	14.965	VV	835	12331	0.48%	0.030%
202	14.988	14.965	15.042	VV	830	19256	0.74%	0.047%
203	15.108	15.042	15.126	PV	9293	148897	5.75%	0.362%
204	15.146	15.126	15.223	VV	10011	254997	9.85%	0.620%
205	15.265	15.223	15.291	VV	2819	62442	2.41%	0.152%
206	15.316	15.291	15.371	VV	1204	32483	1.26%	0.079%
207	15.405	15.371	15.421	PV	497	6636	0.26%	0.016%
208	15.458	15.421	15.488	PV	1266	25935	1.00%	0.063%
209	15.539	15.488	15.550	VV	1152	19727	0.76%	0.048%
210	15.566	15.550	15.591	VV	963	15335	0.59%	0.037%
211	15.610	15.591	15.630	VV	419	6257	0.24%	0.015%
212	15.658	15.630	15.681	VV	1326	18007	0.70%	0.044%
213	15.727	15.681	15.755	VV	886	16090	0.62%	0.039%
214	15.781	15.755	15.806	PV	3209	46465	1.80%	0.113%
215	15.822	15.806	15.853	VV	1154	20333	0.79%	0.049%
216	15.878	15.853	15.900	VV	1069	17451	0.67%	0.042%
217	15.922	15.900	15.944	VV	1827	33663	1.30%	0.082%
218	15.964	15.944	16.005	VV	1368	36763	1.42%	0.089%
219	16.047	16.005	16.059	VV	472	12733	0.49%	0.031%
220	16.070	16.059	16.082	VV	329	3207	0.12%	0.008%
221	16.124	16.082	16.134	VV	1273	20240	0.78%	0.049%
222	16.162	16.134	16.194	VV	1622	35208	1.36%	0.086%
223	16.231	16.194	16.248	VV	858	19546	0.76%	0.048%
224	16.252	16.248	16.259	VV	643	3505	0.14%	0.009%
225	16.294	16.259	16.314	VV	573	14251	0.55%	0.035%
226	16.361	16.314	16.400	PV	1528	39069	1.51%	0.095%
227	16.451	16.400	16.461	PV	1122	18483	0.71%	0.045%
228	16.481	16.461	16.507	VV	1416	23609	0.91%	0.057%
229	16.602	16.507	16.611	VV	528	25521	0.99%	0.062%
230	16.673	16.611	16.698	VV	10795	214666	8.29%	0.522%
231	16.703	16.698	16.748	VV	5720	100030	3.87%	0.243%
232	16.755	16.748	16.763	VV	2023	15022	0.58%	0.037%
233	16.805	16.763	16.824	VV	3427	80789	3.12%	0.196%
234	16.853	16.824	16.886	VV	1515	33404	1.29%	0.081%
235	16.939	16.886	16.961	PV	3216	58909	2.28%	0.143%
236	16.993	16.961	17.024	VV	6289	114578	4.43%	0.278%
237	17.060	17.024	17.084	VV	5991	124327	4.80%	0.302%
238	17.102	17.084	17.142	VV	5229	138545	5.35%	0.337%
239	17.155	17.142	17.166	VV	2782	35447	1.37%	0.086%
240	17.171	17.166	17.181	VV	2308	20050	0.77%	0.049%
241	17.194	17.181	17.228	VV	2069	42829	1.65%	0.104%
242	17.237	17.228	17.255	VV	1409	15917	0.62%	0.039%
243	17.322	17.255	17.334	VV	2544	91049	3.52%	0.221%
244	17.341	17.334	17.364	VV	2285	31544	1.22%	0.077%
245	17.430	17.364	17.453	VV	2808	90455	3.50%	0.220%
246	17.495	17.453	17.517	VV	2717	71885	2.78%	0.175%

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247	17.557	17.517	17.573	VV	3894	89981	3.48%	0.219%
248	17.587	17.573	17.607	VV	2756	42310	1.63%	0.103%
249	17.625	17.607	17.641	VV	2444	34770	1.34%	0.085%
250	17.669	17.641	17.701	VV	2930	58280	2.25%	0.142%
251	17.733	17.701	17.743	VV	2385	45145	1.74%	0.110%
252	17.758	17.743	17.800	VV	2201	37580	1.45%	0.091%
253	17.847	17.800	17.860	PV	1763	33343	1.29%	0.081%
254	17.891	17.860	17.919	VV	3038	60737	2.35%	0.148%
255	17.991	17.919	18.021	VV	7647	213634	8.25%	0.519%
256	18.036	18.021	18.052	VV	1807	27011	1.04%	0.066%
257	18.132	18.052	18.141	VV	4723	118122	4.56%	0.287%
258	18.156	18.141	18.179	VV	4321	84372	3.26%	0.205%
259	18.190	18.179	18.207	VV	3143	39640	1.53%	0.096%
260	18.220	18.207	18.230	VV	1611	19949	0.77%	0.048%
261	18.283	18.230	18.298	VV	2424	75157	2.90%	0.183%
262	18.347	18.298	18.388	VV	3979	132515	5.12%	0.322%
263	18.415	18.388	18.430	VV	3797	66825	2.58%	0.162%
264	18.451	18.430	18.474	VV	5547	112759	4.36%	0.274%
265	18.499	18.474	18.528	VV	5786	131254	5.07%	0.319%
266	18.537	18.528	18.551	VV	2823	33246	1.28%	0.081%
267	18.628	18.551	18.642	VV	2902	129642	5.01%	0.315%
268	18.698	18.642	18.754	VV	6976	244736	9.46%	0.595%
269	18.823	18.754	18.860	VV	6827	215626	8.33%	0.524%
270	18.872	18.860	18.880	VV	2826	31292	1.21%	0.076%
271	18.921	18.880	18.941	VV	4690	117046	4.52%	0.284%
272	18.971	18.941	18.983	VV	4691	90379	3.49%	0.220%
273	19.017	18.983	19.036	VV	4089	122515	4.73%	0.298%
274	19.052	19.036	19.061	VV	4267	58954	2.28%	0.143%
275	19.111	19.061	19.121	VV	5166	165618	6.40%	0.403%
276	19.221	19.121	19.249	VV	8332	431565	16.68%	1.049%
277	19.259	19.249	19.272	VV	6219	78811	3.05%	0.192%
278	19.282	19.272	19.288	VV	5561	50953	1.97%	0.124%
279	19.320	19.288	19.334	VV	6494	163070	6.30%	0.396%
280	19.465	19.334	19.473	VV	8416	572106	22.11%	1.390%
281	19.605	19.473	19.663	VV	13837	1155017	44.63%	2.807%
282	19.690	19.663	19.702	VV	10619	237575	9.18%	0.577%
283	19.734	19.702	19.746	VV	11026	273442	10.57%	0.665%
284	19.779	19.746	19.794	VV	10941	300776	11.62%	0.731%
285	19.914	19.794	19.924	VV	15230	1022020	39.49%	2.484%
286	19.981	19.924	20.002	VV	18214	770107	29.76%	1.872%
287	20.031	20.002	20.052	VV	16490	480323	18.56%	1.167%
288	20.255	20.052	20.264	VV	25232	2588018	100.00%	6.290%
289	20.350	20.264	20.365	VV	29198	1609056	62.17%	3.911%
290	20.379	20.365	20.391	VV	28106	427639	16.52%	1.039%
291	20.412	20.391	20.448	VV	28130	932876	36.05%	2.267%
292	20.557	20.448	20.570	VV	31138	2078989	80.33%	5.053%
293	20.662	20.570	20.670	VV	34426	1943289	75.09%	4.723%
294	20.699	20.670	20.720	VV	35829	1038766	40.14%	2.525%
295	20.745	20.720	20.761	VV	36052	866655	33.49%	2.106%
296	20.823	20.761	20.834	VV	38121	1623129	62.72%	3.945%
297	20.864	20.834	20.875	VV	37536	924595	35.73%	2.247%
298	20.882	20.875	20.988	VV	37229	2238138	86.48%	5.440%
299	21.075	20.988	21.108	VV	33128	2241749	86.62%	5.449%

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300	21.120	21.108	21.155	VV	30896	835190	32.27%	2.030%
301	21.161	21.155	21.176	VV	29462	370852	14.33%	0.901%
302	21.194	21.176	21.234	VV	28734	979824	37.86%	2.381%
303	21.256	21.234	21.272	VV	28513	638912	24.69%	1.553%
304	21.286	21.272	21.374	VV	27331	1511300	58.40%	3.673%
305	21.390	21.374	21.400	VV	22501	348251	13.46%	0.846%
306	21.444	21.400	21.464	VV	22409	850168	32.85%	2.066%
307	21.481	21.464	21.560	VV	22921	1149157	44.40%	2.793%
					Sum of corrected areas:	41144129		

Aliphatic EPH 110724.M Mon Nov 11 00:05:32 2024



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC102324AL

AreaCount

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	39022992.000	19933185.000	8061570.000	4198329.000	2101198.000	
Aliphatic C12-C16	25467967.000	12990634.000	5208245.000	2702045.000	1358541.000	
Aliphatic C16-C21	36713606.000	18782701.000	7526010.000	3934678.000	1979840.000	
Aliphatic C21-C28	45946180.000	23609090.000	9458827.000	4951672.000	2510279.000	
Aliphatic C28-C40	56250650.000	29316600.000	11954663.000	6283522.000	3289360.000	
Aliphatic EPH	203401395.000	104632210.000	42209315.000	22070246.000	11239218.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	135469.6413332	3.265				
Aliphatic C12-C16	131681.73	2.772				
Aliphatic C16-C21	127235.0919996	3.261				
Aliphatic C21-C28	120090.3975	3.678				
Aliphatic C28-C40	101093.1949996	6.133				
Aliphatic EPH	118799.912222	4.081				

Concentration

Parameter Range	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.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	FC067506.D	FC067507.D	FC067508.D	FC067509.D	FC067510.D	
Aliphatic C9-C12	130076.640000	132887.900000	134359.500000	139944.300000	140079.866666	
Aliphatic C12-C16	127339.835000	129906.340000	130206.125000	135102.250000	135854.100000	
Aliphatic C16-C21	122378.686666	125218.006666	125433.500000	131155.933333	131989.333333	

Initial Calibration Report for SequenceID : FC102324AL

Aliphatic C21-C28	114865.450000	118045.450000	118235.337500	123791.800000	125513.950000	
Aliphatic C28-C40	93751.083333	97722.000000	99622.191666	104725.366666	109645.333333	
Aliphatic EPH	113000.775000	116258.011111	117248.097222	122612.477777	124880.200000	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F102324AL\
 Data File : FC067506.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 15:12
 Operator : YP/AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 23 17:19:34 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:19:01 2024
 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)	11.506	14037783	98.632 ug/ml
Spiked Amount 50.000		Recovery =	197.26%
12) S 1-chlorooctadecane (S...	12.941	10490435	99.221 ug/ml
Spiked Amount 50.000		Recovery =	198.44%
Target Compounds			
1) T n-Nonane (C9)	3.278	12920314	98.296 ug/ml
2) T n-Decane (C10)	4.343	13085907	98.393 ug/ml
3) T A~Naphthalene (C11.7)	5.922	14394132	98.923 ug/ml
4) T n-Dodecane (C12)	6.360	13016771	98.452 ug/ml
5) T A~2-methylnaphthalene...	6.979	13836866	99.334 ug/ml
6) T n-Tetradecane (C14)	8.152	12659193	98.737 ug/ml
7) T n-Hexadecane (C16)	9.751	12808774	99.036 ug/ml
8) T n-Octadecane (C18)	11.193	12738874	98.786 ug/ml
10) T n-Eicosane (C20)	12.499	12105735	98.678 ug/ml
11) T n-Heneicosane (C21)	13.110	11868997	98.838 ug/ml
13) T n-Docosane (C22)	13.695	11751176	98.736 ug/ml
14) T n-Tetracosane (C24)	14.797	11637443	98.776 ug/ml
15) T n-Hexacosane (C26)	15.816	11410589	98.652 ug/ml
16) T n-Octacosane (C28)	16.765	11146972	98.035 ug/ml
17) T n-Tricontane (C30)	17.651	11224678	97.103 ug/ml
18) T n-Dotriacontane (C32)	18.483	10806351	96.387 ug/ml
19) T n-Tetratriacontane (C34)	19.263	9619727	96.453 ug/ml
20) T n-Hexatriacontane (C36)	20.002	8494635	97.259 ug/ml
21) T n-Octatriacontane (C38)	20.726	8112623	97.297 ug/ml
22) T n-Tetracontane (C40)	21.614	7992636	97.524 ug/ml

(f)=RT Delta > 1/2 Window

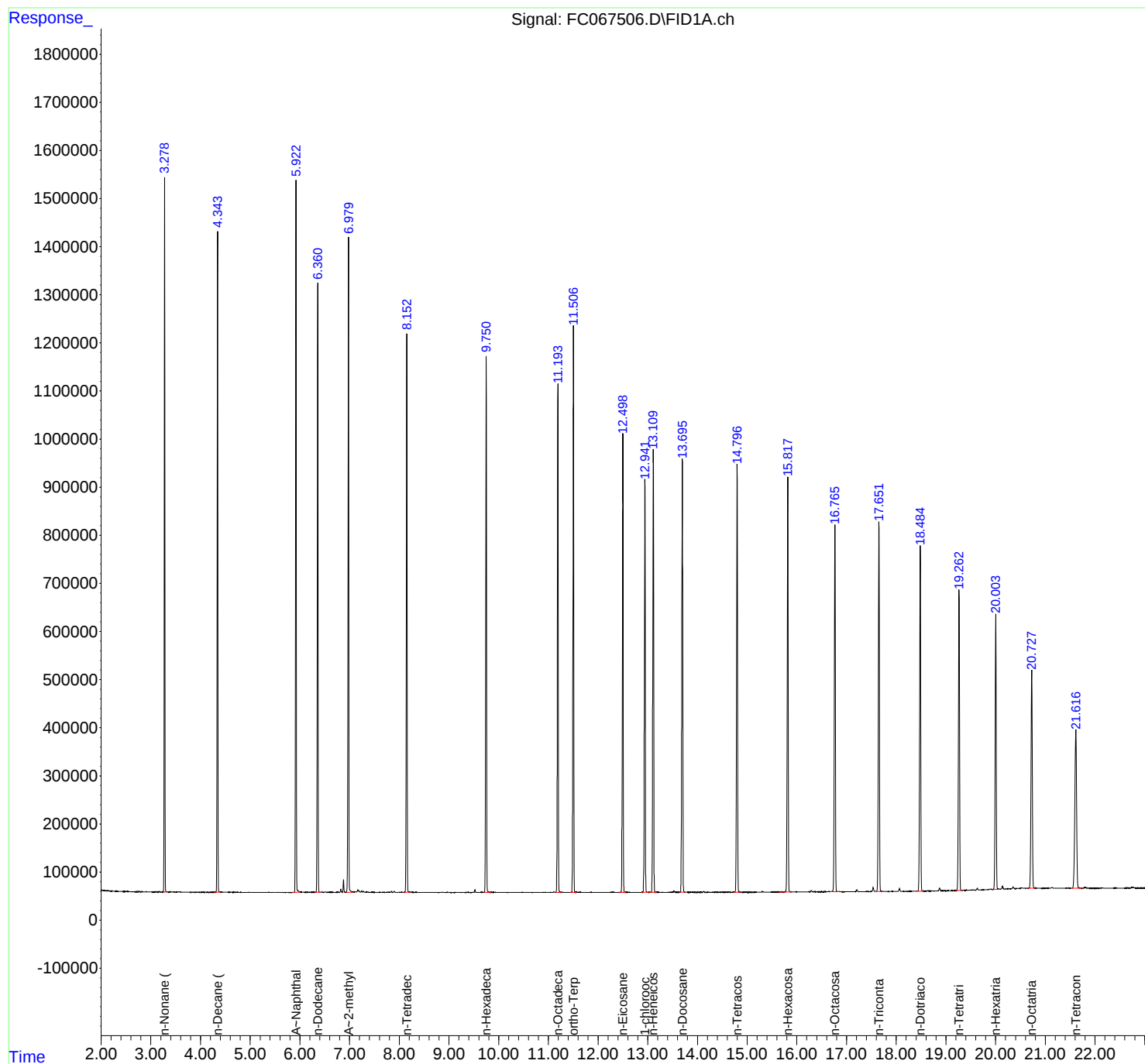
(m)=manual int.

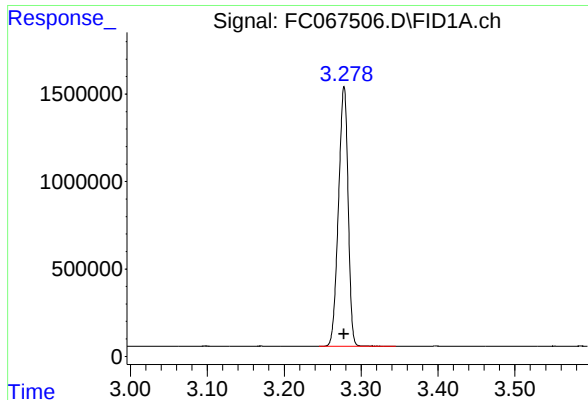
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067506.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 23 17:19:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:19:01 2024
Response via : Initial Calibration
Integrator: ChemStation

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

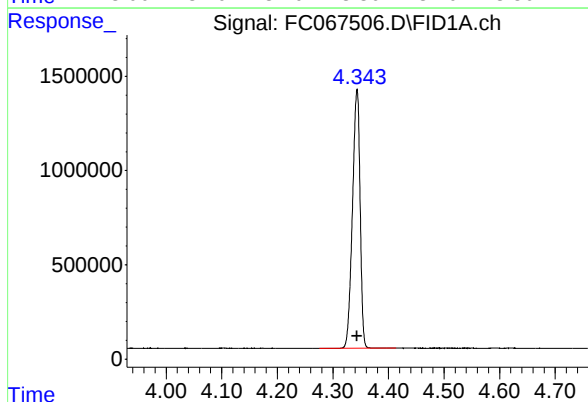




#1 n-Nonane (C9)

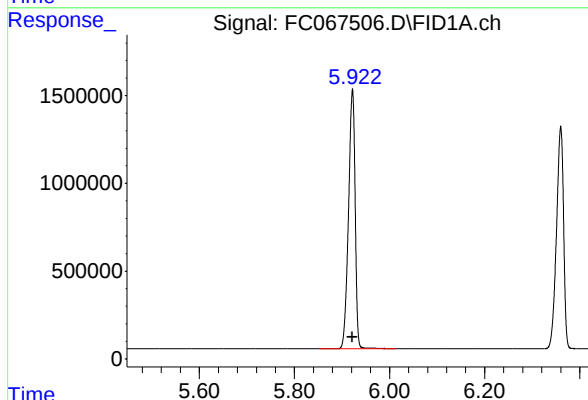
R.T.: 3.278 min
Delta R.T.: 0.000 min
Response: 12920314
Conc: 98.30 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



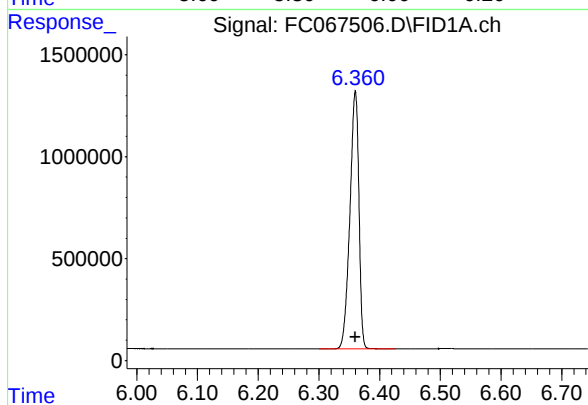
#2 n-Decane (C10)

R.T.: 4.343 min
Delta R.T.: 0.000 min
Response: 13085907
Conc: 98.39 ug/ml



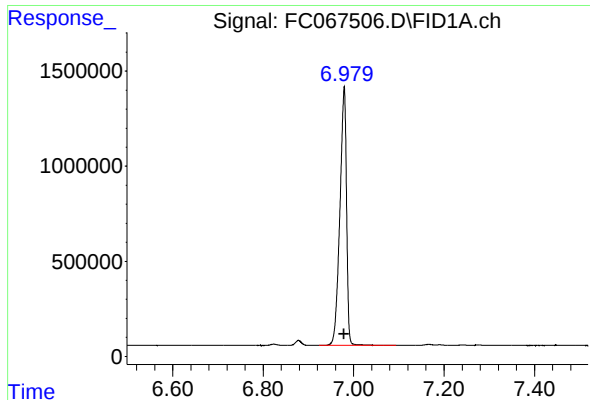
#3 A~Naphthalene (C11.7)

R.T.: 5.922 min
Delta R.T.: 0.000 min
Response: 14394132
Conc: 98.92 ug/ml



#4 n-Dodecane (C12)

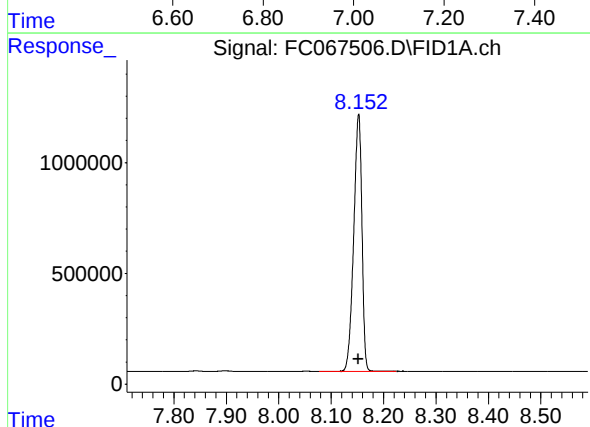
R.T.: 6.360 min
Delta R.T.: 0.000 min
Response: 13016771
Conc: 98.45 ug/ml



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

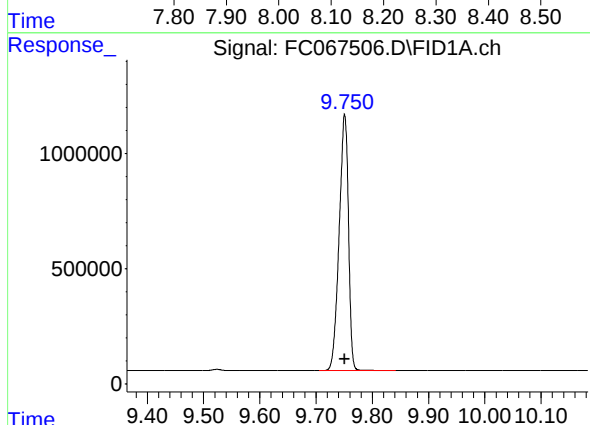
R.T.: 6.979 min
Delta R.T.: 0.000 min
Response: 13836866
Conc: 99.33 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



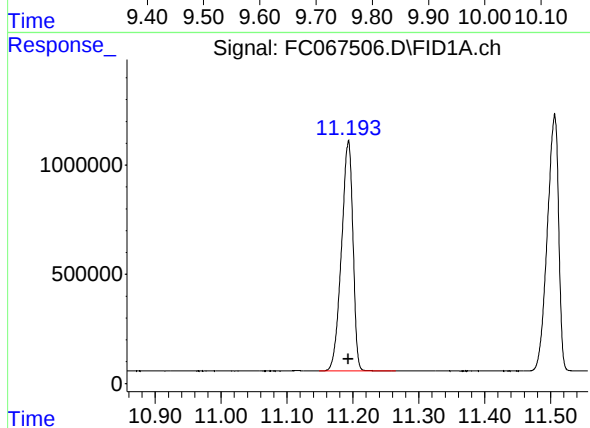
#6 n-Tetradecane (C14)

R.T.: 8.152 min
Delta R.T.: 0.000 min
Response: 12659193
Conc: 98.74 ug/ml



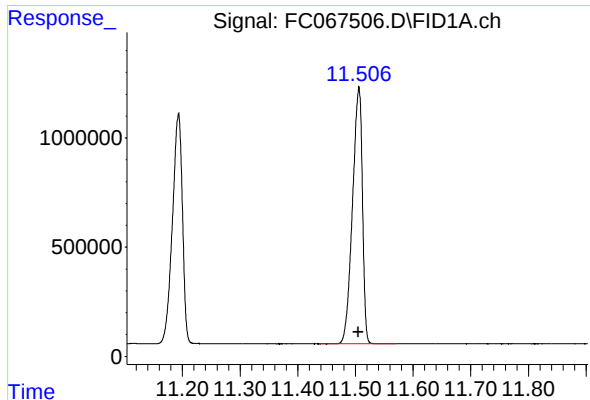
#7 n-Hexadecane (C16)

R.T.: 9.751 min
Delta R.T.: 0.000 min
Response: 12808774
Conc: 99.04 ug/ml



#8 n-Octadecane (C18)

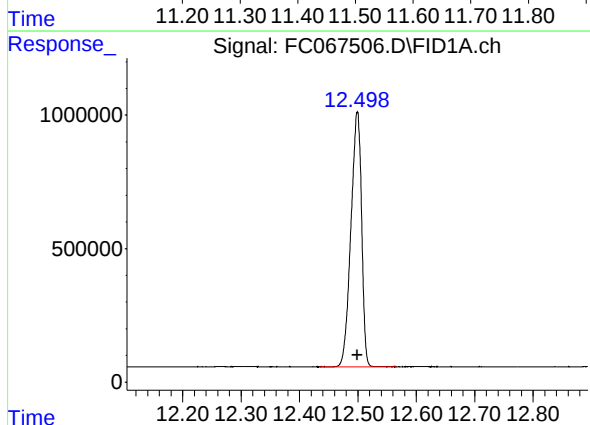
R.T.: 11.193 min
Delta R.T.: 0.000 min
Response: 12738874
Conc: 98.79 ug/ml



#9 ortho-Terphenyl (SURR)

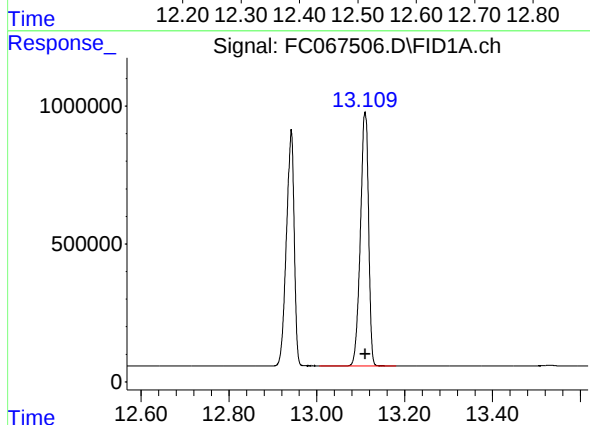
R.T.: 11.506 min
Delta R.T.: 0.000 min
Response: 14037783
Conc: 98.63 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



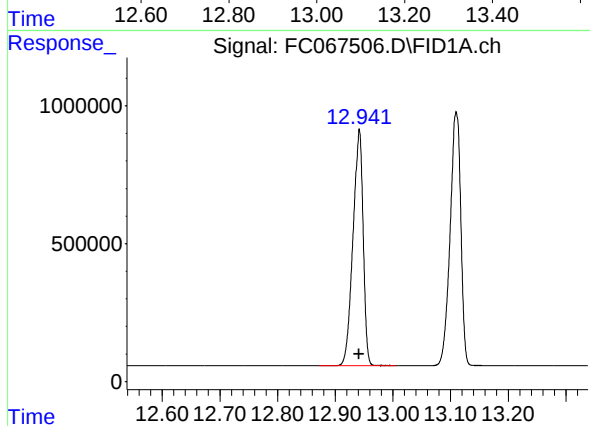
#10 n-Eicosane (C20)

R.T.: 12.499 min
Delta R.T.: 0.000 min
Response: 12105735
Conc: 98.68 ug/ml



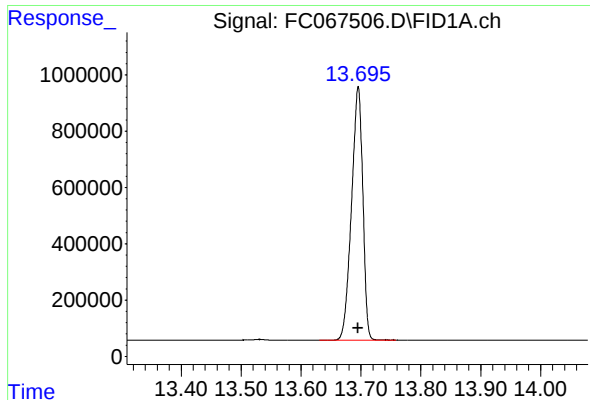
#11 n-Heneicosane (C21)

R.T.: 13.110 min
Delta R.T.: 0.000 min
Response: 11868997
Conc: 98.84 ug/ml



#12 1-chlorooctadecane (SURR)

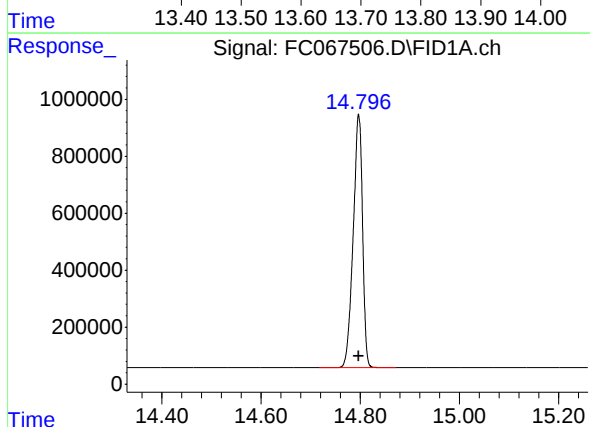
R.T.: 12.941 min
Delta R.T.: 0.000 min
Response: 10490435
Conc: 99.22 ug/ml



#13 n-Docosane (C22)

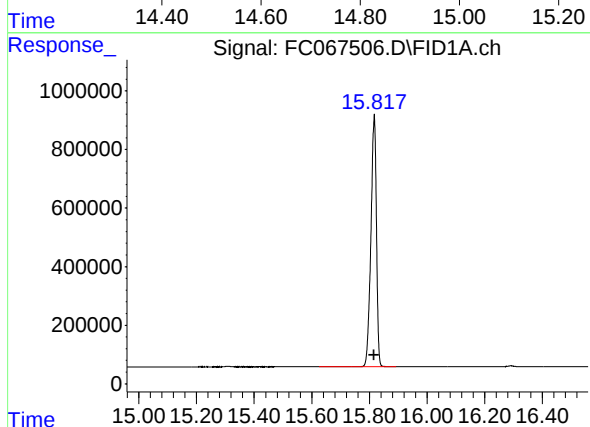
R.T.: 13.695 min
Delta R.T.: 0.000 min
Response: 11751176
Conc: 98.74 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



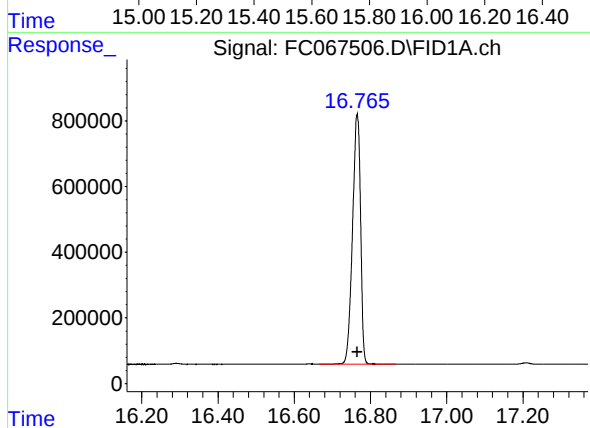
#14 n-Tetracosane (C24)

R.T.: 14.797 min
Delta R.T.: 0.000 min
Response: 11637443
Conc: 98.78 ug/ml



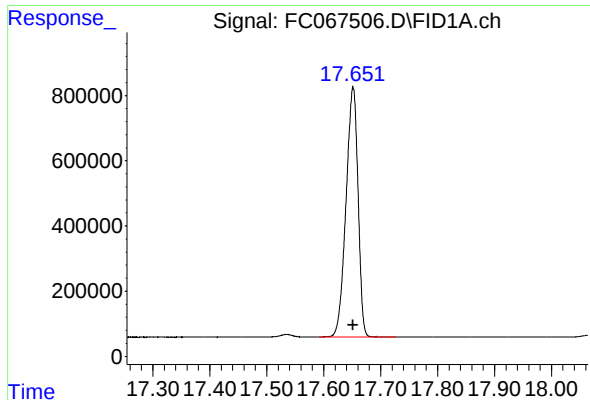
#15 n-Hexacosane (C26)

R.T.: 15.816 min
Delta R.T.: 0.000 min
Response: 11410589
Conc: 98.65 ug/ml



#16 n-Octacosane (C28)

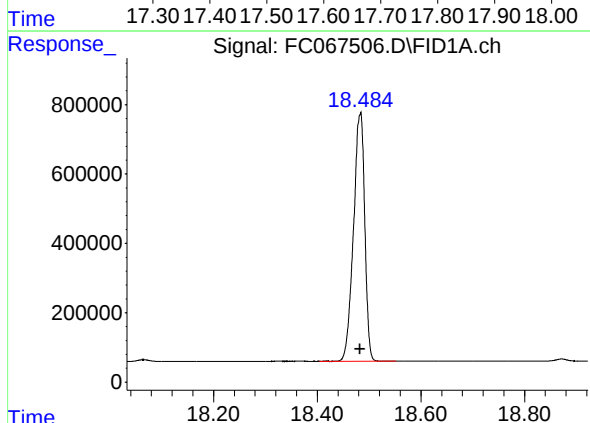
R.T.: 16.765 min
Delta R.T.: 0.000 min
Response: 11146972
Conc: 98.03 ug/ml



#17 n-Tricontane (C30)

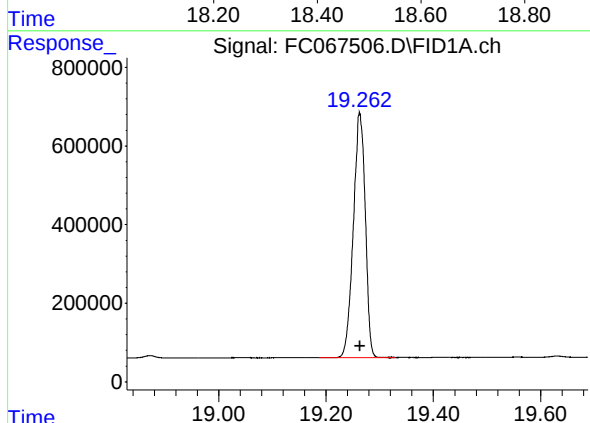
R.T.: 17.651 min
Delta R.T.: 0.000 min
Response: 11224678
Conc: 97.10 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



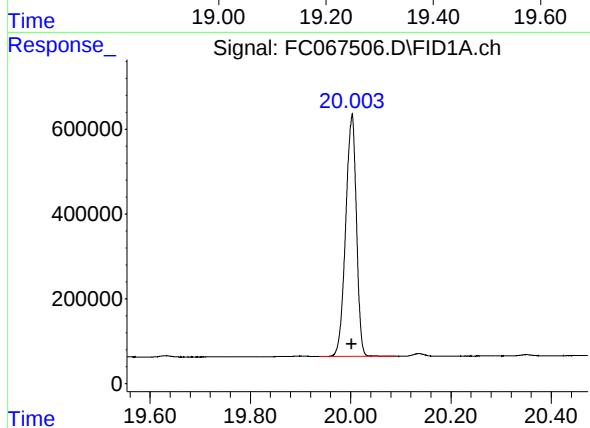
#18 n-Dotriacontane (C32)

R.T.: 18.483 min
Delta R.T.: 0.000 min
Response: 10806351
Conc: 96.39 ug/ml



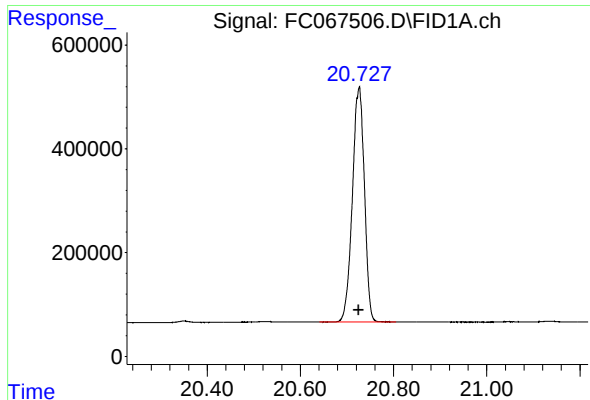
#19 n-Tetatriacontane (C34)

R.T.: 19.263 min
Delta R.T.: 0.000 min
Response: 9619727
Conc: 96.45 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.002 min
Delta R.T.: 0.000 min
Response: 8494635
Conc: 97.26 ug/ml



#21 n-Octatriacontane (C38)

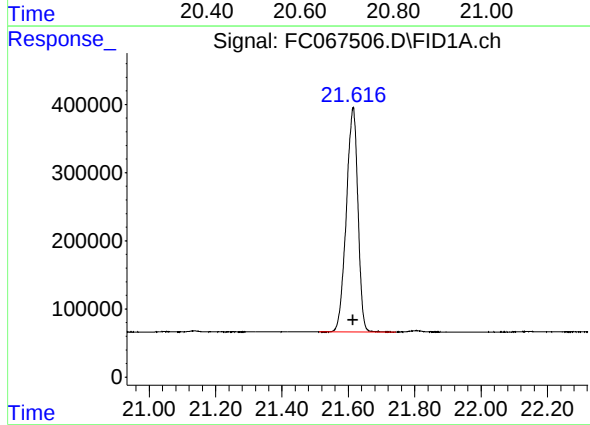
R.T.: 20.726 min
Delta R.T.: 0.000 min
Response: 8112623
Conc: 97.30 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.614 min
Delta R.T.: 0.000 min
Response: 7992636
Conc: 97.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067506.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 15:12
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.278	3.245	3.345	BB	1482982	12920314	89.76%	5.044%
2	4.343	4.275	4.414	BB	1378444	13085907	90.91%	5.108%
3	5.922	5.852	6.014	BB	1478546	14394132	100.00%	5.619%
4	6.360	6.300	6.427	BB	1268307	13016771	90.43%	5.081%
5	6.979	6.924	7.094	BV	1345672	13836866	96.13%	5.402%
6	8.152	8.077	8.224	BB	1158926	12659193	87.95%	4.942%
7	9.751	9.705	9.842	BB	1114390	12808774	88.99%	5.000%
8	11.193	11.149	11.265	BV	1059950	12738874	88.50%	4.973%
9	11.506	11.437	11.570	BB	1165644	14037783	97.52%	5.480%
10	12.499	12.434	12.565	BB	956464	12105735	84.10%	4.726%
11	12.941	12.872	13.005	BB	861029	10490435	72.88%	4.095%
12	13.110	13.005	13.180	BB	919632	11868997	82.46%	4.633%
13	13.695	13.630	13.759	BB	900624	11751176	81.64%	4.587%
14	14.797	14.717	14.872	BB	888415	11637443	80.85%	4.543%
15	15.816	15.625	15.892	BB	863938	11410589	79.27%	4.454%
16	16.765	16.665	16.867	BB	761325	11146972	77.44%	4.352%
17	17.651	17.592	17.727	BB	765890	11224678	77.98%	4.382%
18	18.483	18.404	18.552	BB	712666	10806351	75.07%	4.219%
19	19.263	19.187	19.330	BB	619243	9619727	66.83%	3.755%
20	20.002	19.937	20.090	BB	565569	8494635	59.01%	3.316%
21	20.726	20.640	20.805	BB	451489	8112623	56.36%	3.167%
22	21.614	21.512	21.744	BB	329592	7992636	55.53%	3.120%
Sum of corrected areas:						256160611		

Aliphatic EPH 102324.M Wed Oct 23 18:20:49 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067507.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 15:48
 Operator : YP/AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 23 17:21:14 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:19:01 2024
 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)	11.500	7186867	50.330 ug/ml
Spiked Amount 50.000		Recovery =	100.66%
12) S 1-chlorooctadecane (S...	12.937	5350584	50.403 ug/ml
Spiked Amount 50.000		Recovery =	100.81%
Target Compounds			
1) T n-Nonane (C9)	3.275	6596270	50.122 ug/ml
2) T n-Decane (C10)	4.340	6686022	50.181 ug/ml
3) T A~Naphthalene (C11.7)	5.918	7350672	50.344 ug/ml
4) T n-Dodecane (C12)	6.356	6650893	50.202 ug/ml
5) T A~2-methylnaphthalene...	6.974	7049073	50.402 ug/ml
6) T n-Tetradecane (C14)	8.149	6466785	50.292 ug/ml
7) T n-Hexadecane (C16)	9.747	6523849	50.293 ug/ml
8) T n-Octadecane (C18)	11.188	6511575	50.329 ug/ml
10) T n-Eicosane (C20)	12.495	6199533	50.355 ug/ml
11) T n-Heneicosane (C21)	13.105	6071593	50.372 ug/ml
13) T n-Docosane (C22)	13.691	6022373	50.399 ug/ml
14) T n-Tetracosane (C24)	14.793	5967985	50.435 ug/ml
15) T n-Hexacosane (C26)	15.812	5860085	50.441 ug/ml
16) T n-Octacosane (C28)	16.761	5758647	50.429 ug/ml
17) T n-Tricontane (C30)	17.647	5830292	50.290 ug/ml
18) T n-Dotriacontane (C32)	18.477	5634053	50.168 ug/ml
19) T n-Tetratriacontane (C34)	19.260	5024380	50.251 ug/ml
20) T n-Hexatriacontane (C36)	19.998	4430530	50.483 ug/ml
21) T n-Octatriacontane (C38)	20.720	4230730	50.491 ug/ml
22) T n-Tetracontane (C40)	21.606	4166615	50.557 ug/ml

(f)=RT Delta > 1/2 Window

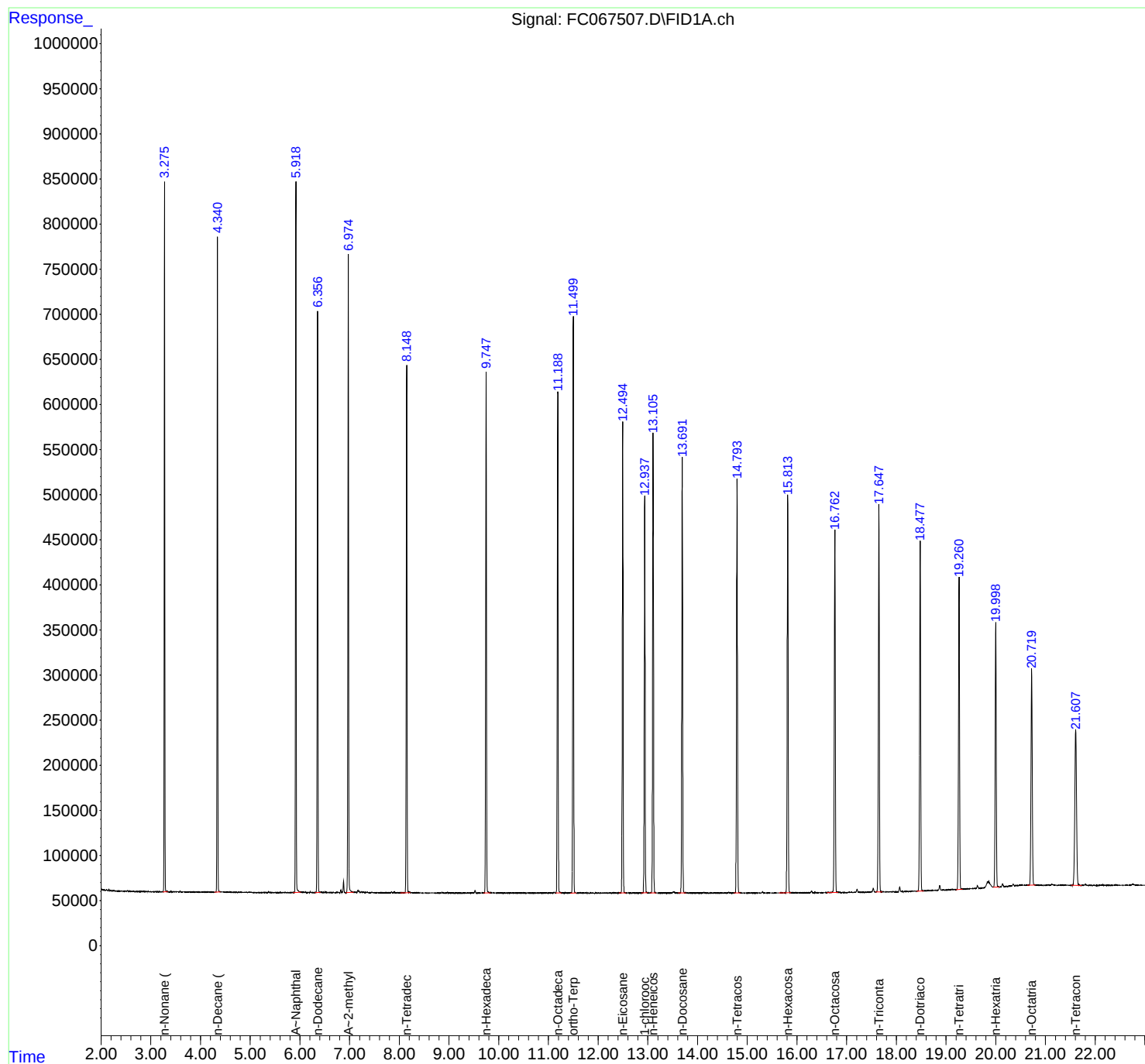
(m)=manual int.

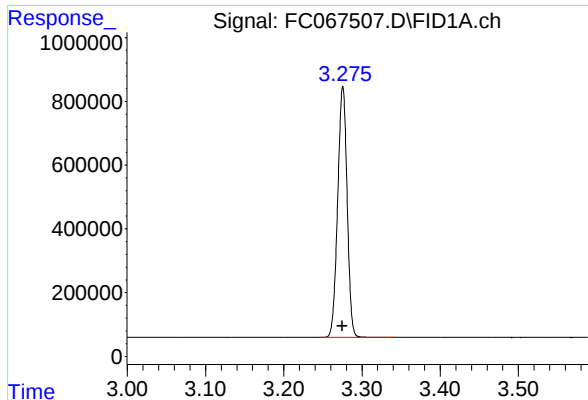
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067507.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 23 17:21:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:19:01 2024
Response via : Initial Calibration
Integrator: ChemStation

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

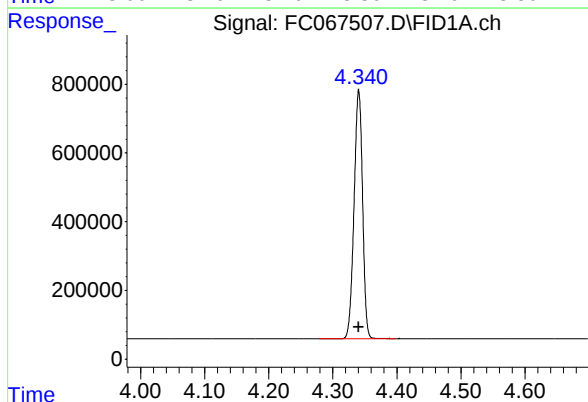




#1 n-Nonane (C9)

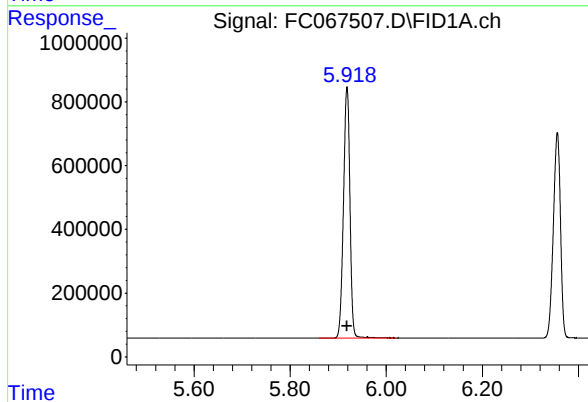
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 6596270
Conc: 50.12 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



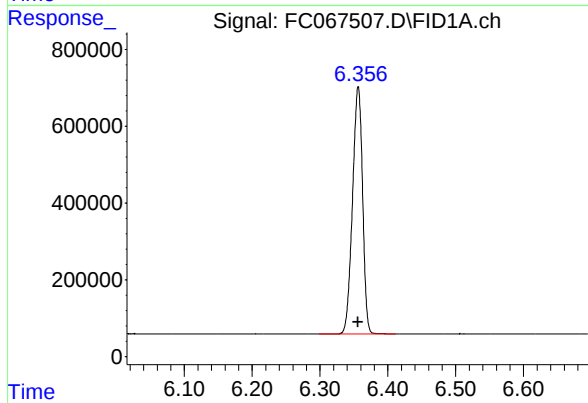
#2 n-Decane (C10)

R.T.: 4.340 min
Delta R.T.: 0.000 min
Response: 6686022
Conc: 50.18 ug/ml



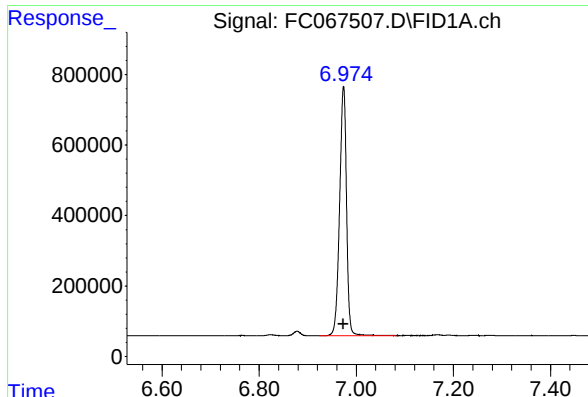
#3 A~Naphthalene (C11.7)

R.T.: 5.918 min
Delta R.T.: 0.000 min
Response: 7350672
Conc: 50.34 ug/ml



#4 n-Dodecane (C12)

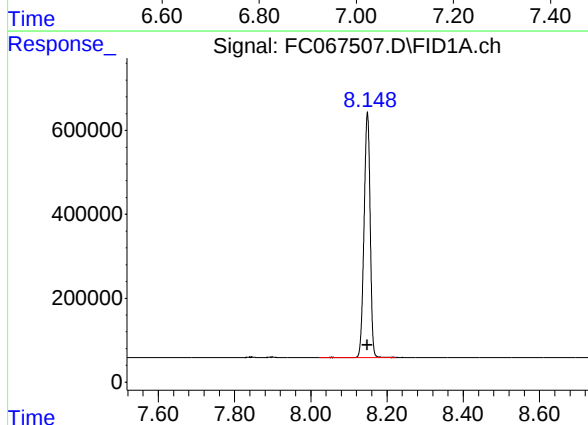
R.T.: 6.356 min
Delta R.T.: 0.000 min
Response: 6650893
Conc: 50.20 ug/ml



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

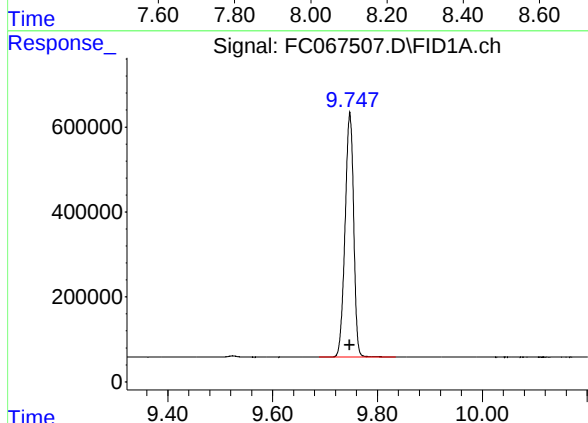
R.T.: 6.974 min
Delta R.T.: 0.000 min
Response: 7049073
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



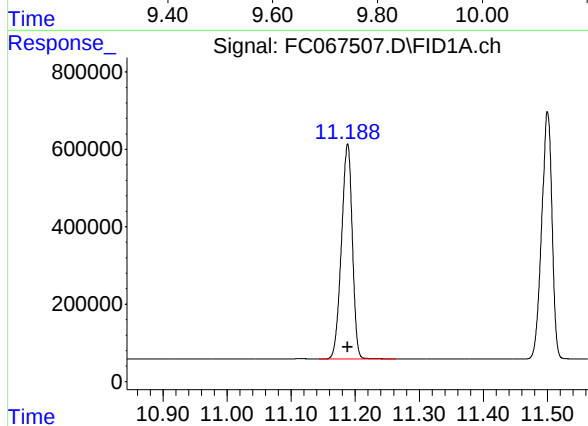
#6 n-Tetradecane (C14)

R.T.: 8.149 min
Delta R.T.: 0.000 min
Response: 6466785
Conc: 50.29 ug/ml



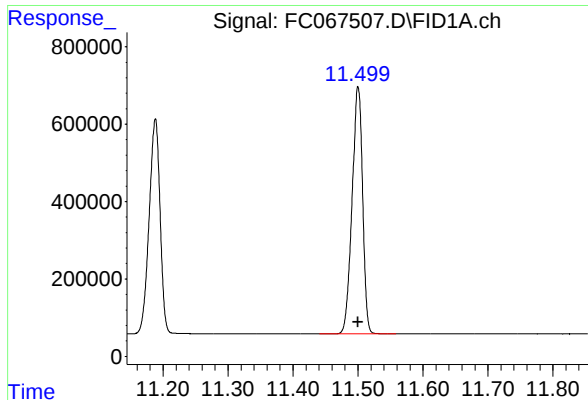
#7 n-Hexadecane (C16)

R.T.: 9.747 min
Delta R.T.: 0.000 min
Response: 6523849
Conc: 50.29 ug/ml



#8 n-Octadecane (C18)

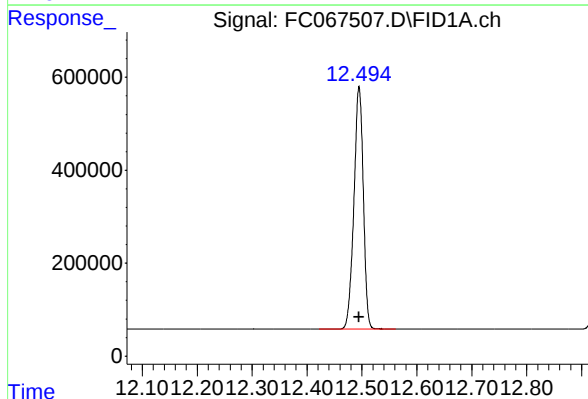
R.T.: 11.188 min
Delta R.T.: 0.000 min
Response: 6511575
Conc: 50.33 ug/ml



#9 ortho-Terphenyl (SURR)

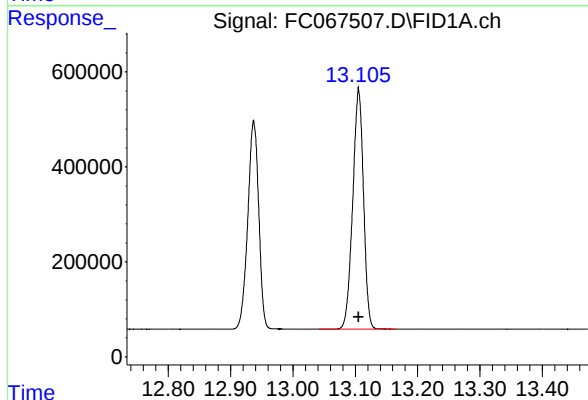
R.T.: 11.500 min
Delta R.T.: 0.000 min
Response: 7186867
Conc: 50.33 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



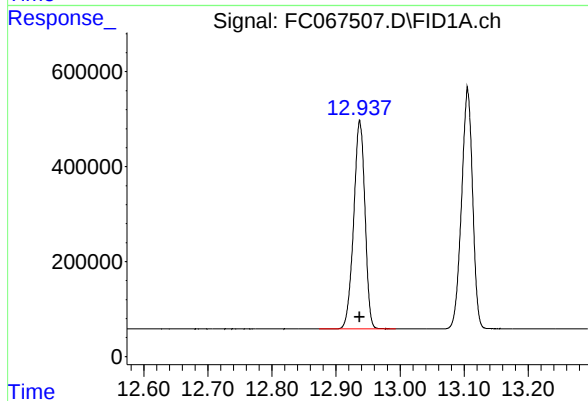
#10 n-Eicosane (C20)

R.T.: 12.495 min
Delta R.T.: 0.000 min
Response: 6199533
Conc: 50.36 ug/ml



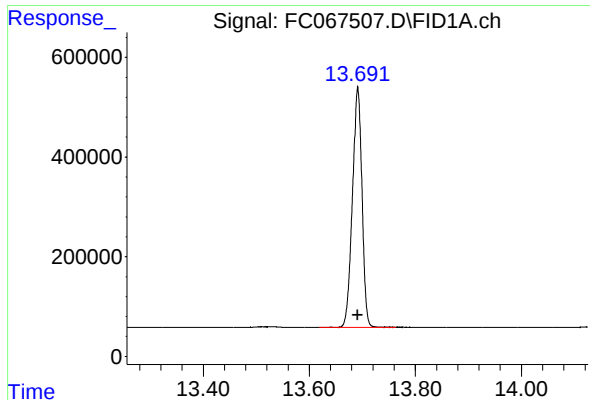
#11 n-Heneicosane (C21)

R.T.: 13.105 min
Delta R.T.: 0.000 min
Response: 6071593
Conc: 50.37 ug/ml



#12 1-chlorooctadecane (SURR)

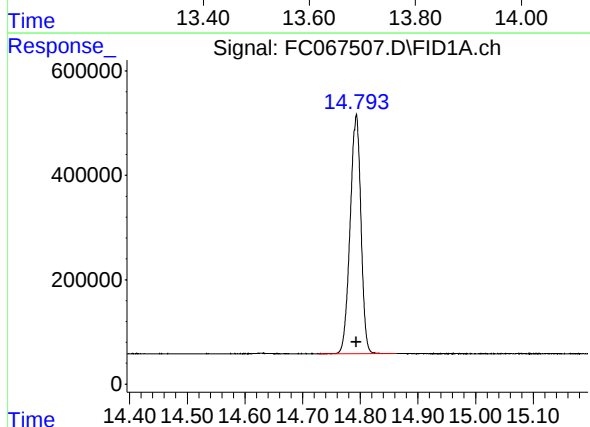
R.T.: 12.937 min
Delta R.T.: 0.000 min
Response: 5350584
Conc: 50.40 ug/ml



#13 n-Docosane (C22)

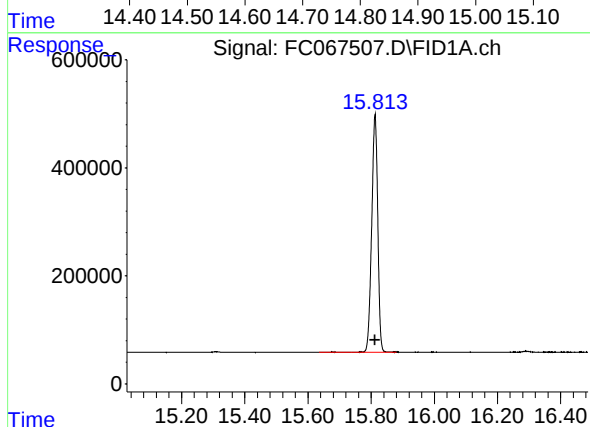
R.T.: 13.691 min
Delta R.T.: 0.000 min
Response: 6022373
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



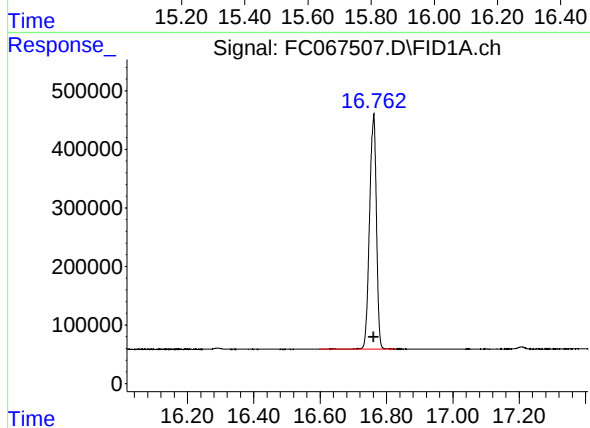
#14 n-Tetracosane (C24)

R.T.: 14.793 min
Delta R.T.: 0.000 min
Response: 5967985
Conc: 50.43 ug/ml



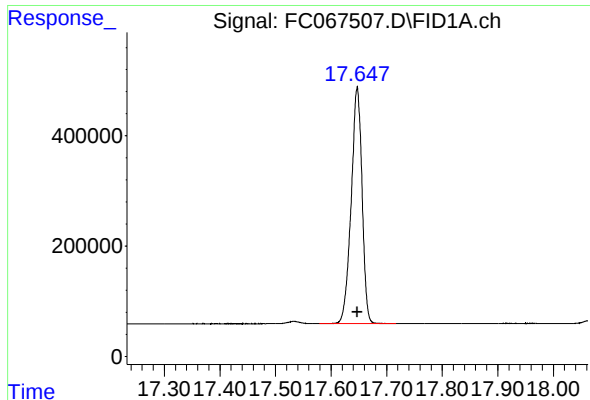
#15 n-Hexacosane (C26)

R.T.: 15.812 min
Delta R.T.: 0.000 min
Response: 5860085
Conc: 50.44 ug/ml



#16 n-Octacosane (C28)

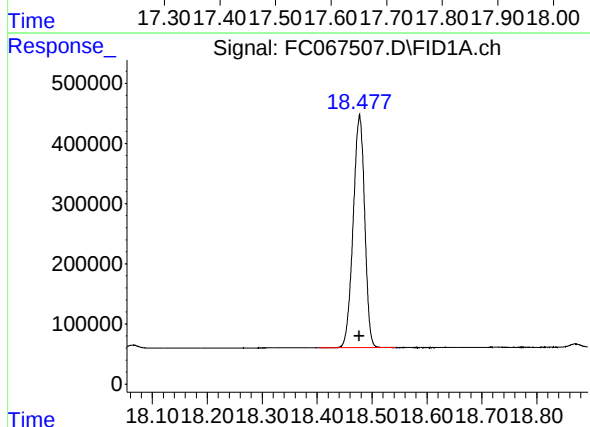
R.T.: 16.761 min
Delta R.T.: 0.000 min
Response: 5758647
Conc: 50.43 ug/ml



#17 n-Tricontane (C30)

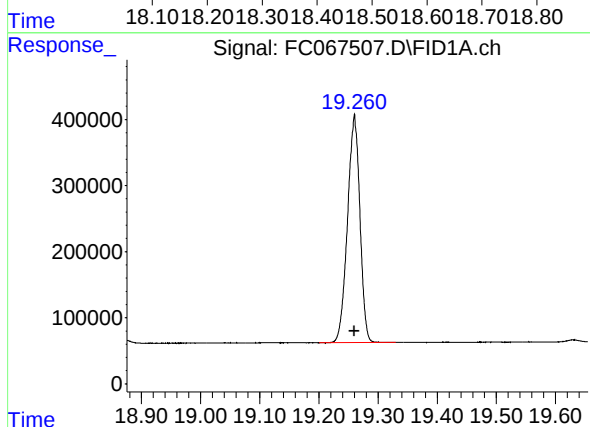
R.T.: 17.647 min
Delta R.T.: 0.000 min
Response: 5830292
Conc: 50.29 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



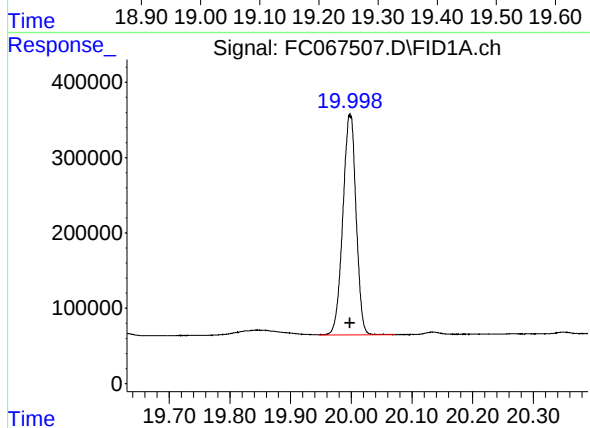
#18 n-Dotriacontane (C32)

R.T.: 18.477 min
Delta R.T.: 0.000 min
Response: 5634053
Conc: 50.17 ug/ml



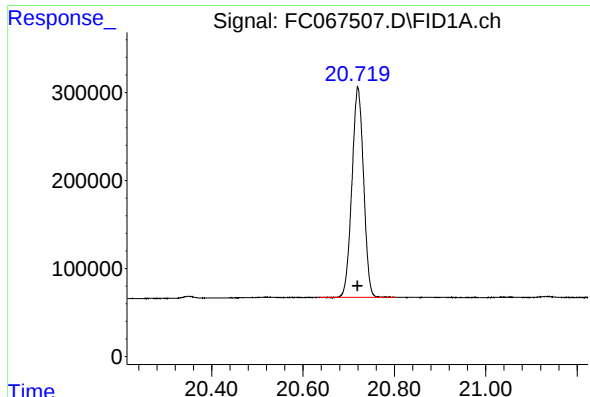
#19 n-Tetratriacontane (C34)

R.T.: 19.260 min
Delta R.T.: 0.000 min
Response: 5024380
Conc: 50.25 ug/ml



#20 n-Hexatriacontane (C36)

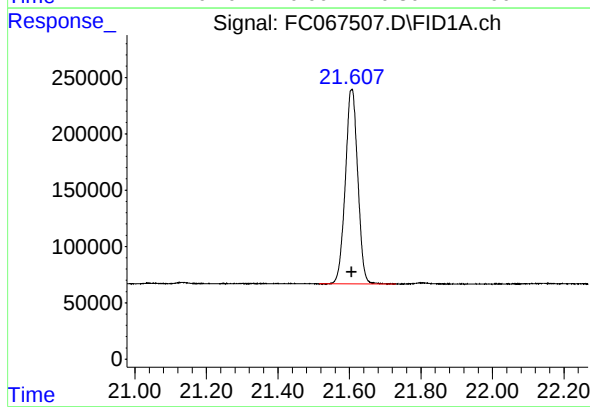
R.T.: 19.998 min
Delta R.T.: 0.000 min
Response: 4430530
Conc: 50.48 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.720 min
Delta R.T.: 0.000 min
Response: 4230730
Conc: 50.49 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.606 min
Delta R.T.: 0.000 min
Response: 4166615
Conc: 50.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067507.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:48
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.343	BB	787475	6596270	89.74%	5.014%
2	4.340	4.278	4.398	BB	725048	6686022	90.96%	5.082%
3	5.918	5.860	6.020	BB	788107	7350672	100.00%	5.587%
4	6.356	6.298	6.412	BB	647440	6650893	90.48%	5.055%
5	6.974	6.923	7.082	BB	708667	7049073	95.90%	5.358%
6	8.149	8.022	8.223	BB	584678	6466785	87.98%	4.915%
7	9.747	9.688	9.835	BB	574143	6523849	88.75%	4.958%
8	11.188	11.143	11.263	BB	557552	6511575	88.58%	4.949%
9	11.500	11.440	11.558	BB	638489	7186867	97.77%	5.462%
10	12.495	12.422	12.562	BB	521546	6199533	84.34%	4.712%
11	12.937	12.873	12.993	BB	438883	5350584	72.79%	4.067%
12	13.105	13.042	13.165	BB	507791	6071593	82.60%	4.615%
13	13.691	13.618	13.763	BB	482823	6022373	81.93%	4.577%
14	14.793	14.728	14.862	BB	460497	5967985	81.19%	4.536%
15	15.812	15.635	15.878	BB	438034	5860085	79.72%	4.454%
16	16.761	16.597	16.828	BB	395517	5758647	78.34%	4.377%
17	17.647	17.578	17.717	BB	427620	5830292	79.32%	4.431%
18	18.477	18.403	18.543	BB	385150	5634053	76.65%	4.282%
19	19.260	19.200	19.330	BB	345032	5024380	68.35%	3.819%
20	19.998	19.947	20.073	VB	291698	4430530	60.27%	3.367%
21	20.720	20.635	20.803	BB	239127	4230730	57.56%	3.216%
22	21.606	21.515	21.730	BB	172709	4166615	56.68%	3.167%

Sum of corrected areas: 131569405

Aliphatic EPH 102324.M Wed Oct 23 18:21:16 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067508.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 16:25
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 23 17:17:15 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:16:59 2024
 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)	11.496	2885453	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	12.935	2131037	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.275	2673666	20.000 ug/ml
2) T n-Decane (C10)	4.339	2702691	20.000 ug/ml
3) T A~Naphthalene (C11.7)	5.916	2941492	20.000 ug/ml
4) T n-Dodecane (C12)	6.354	2685213	20.000 ug/ml
5) T A~2-methylnaphthalene...	6.971	2804469	20.000 ug/ml
6) T n-Tetradecane (C14)	8.146	2596600	20.000 ug/ml
7) T n-Hexadecane (C16)	9.745	2611645	20.000 ug/ml
8) T n-Octadecane (C18)	11.185	2610385	20.000 ug/ml
10) T n-Eicosane (C20)	12.492	2486010	20.000 ug/ml
11) T n-Heneicosane (C21)	13.103	2429615	20.000 ug/ml
13) T n-Docosane (C22)	13.688	2410406	20.000 ug/ml
14) T n-Tetracosane (C24)	14.790	2385181	20.000 ug/ml
15) T n-Hexacosane (C26)	15.809	2344463	20.000 ug/ml
16) T n-Octacosane (C28)	16.757	2318777	20.000 ug/ml
17) T n-Tricontane (C30)	17.644	2378909	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.475	2323289	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.258	2065430	20.000 ug/ml
20) T n-Hexatriacontane (C36)	19.995	1794670	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.718	1712685	20.000 ug/ml
22) T n-Tetracontane (C40)	21.604	1679680	20.000 ug/ml

(f)=RT Delta > 1/2 Window

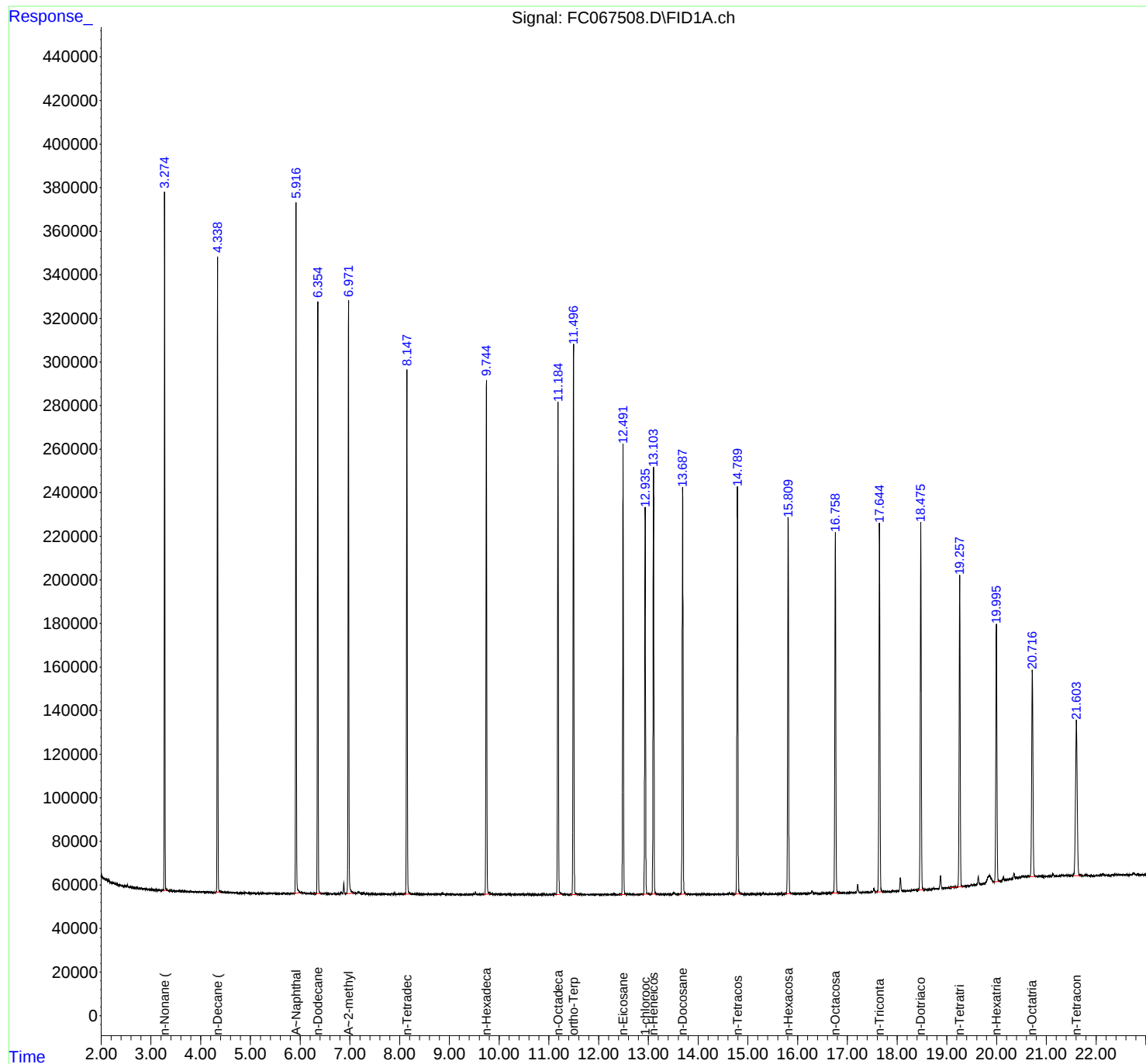
(m)=manual int.

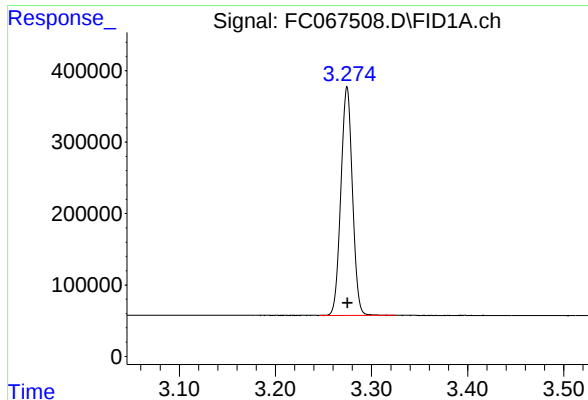
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067508.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 23 17:17:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:16:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

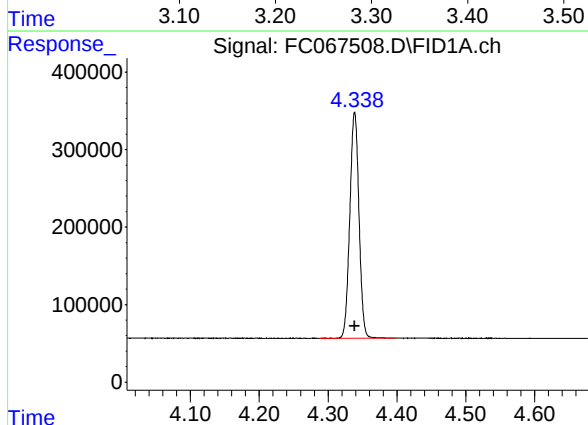




#1 n-Nonane (C9)

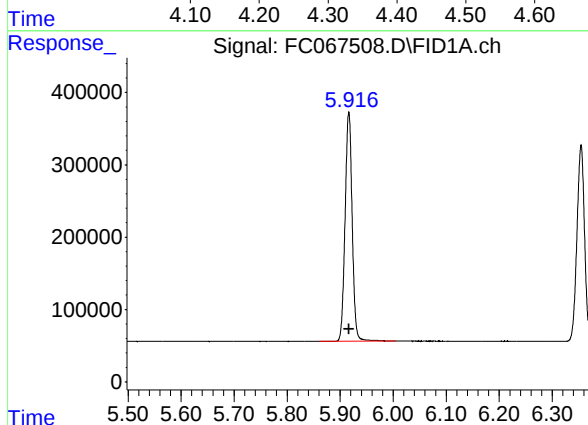
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 2673666
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



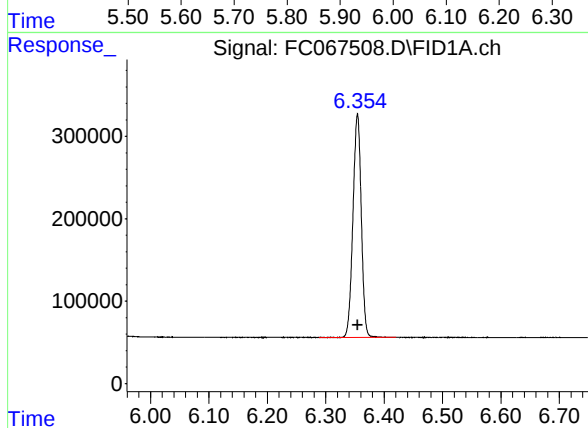
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 2702691
Conc: 20.00 ug/ml



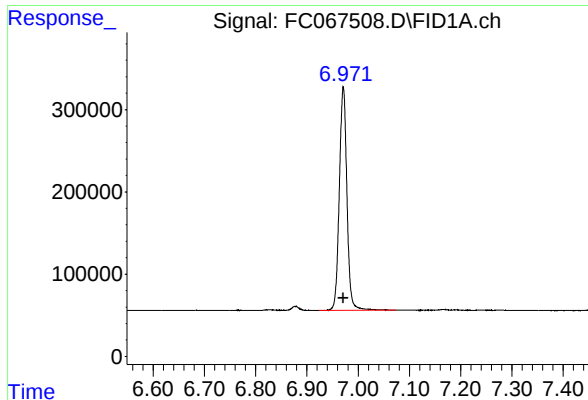
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 2941492
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

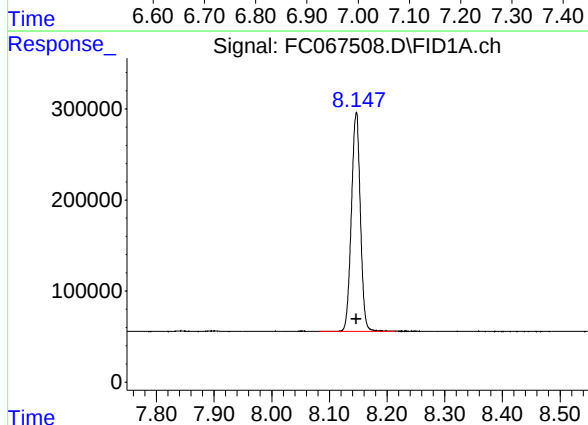
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2685213
Conc: 20.00 ug/ml



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

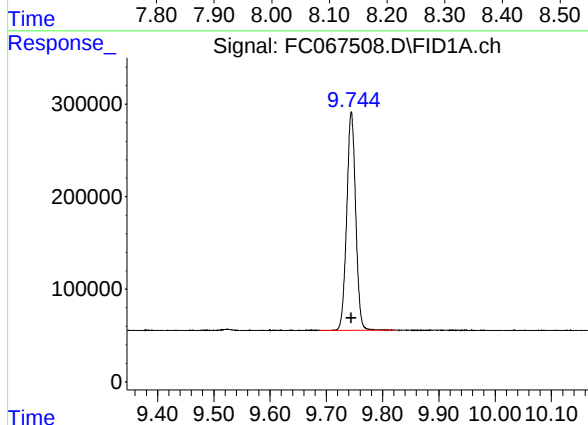
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2804469
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



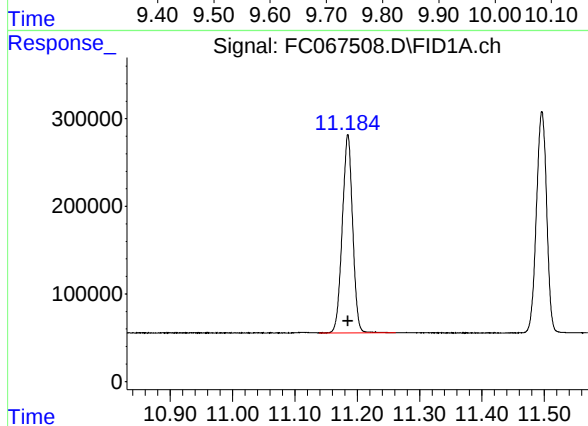
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 2596600
Conc: 20.00 ug/ml



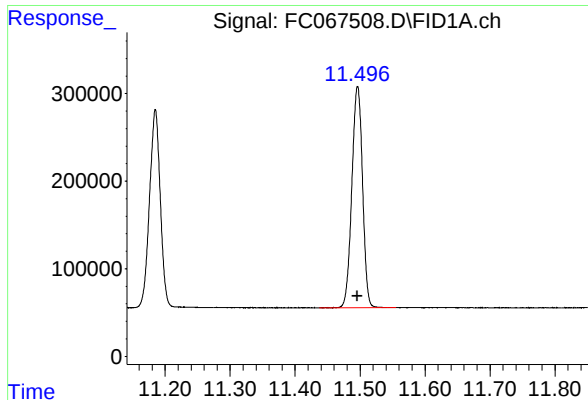
#7 n-Hexadecane (C16)

R.T.: 9.745 min
Delta R.T.: 0.000 min
Response: 2611645
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

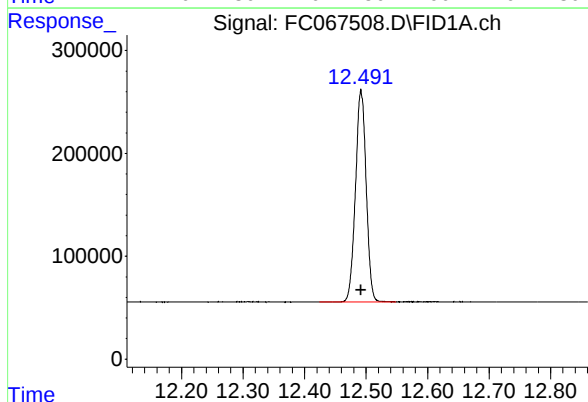
R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2610385
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

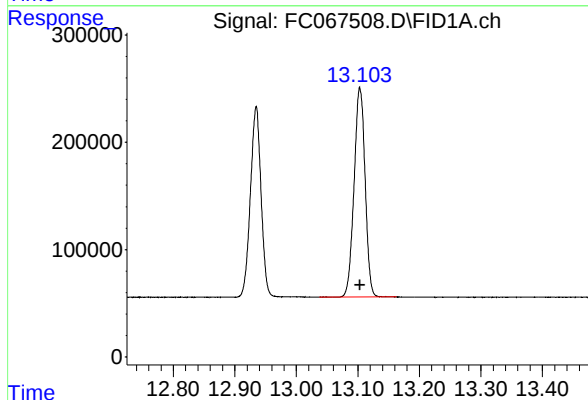
R.T.: 11.496 min
Delta R.T.: 0.000 min
Response: 2885453
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



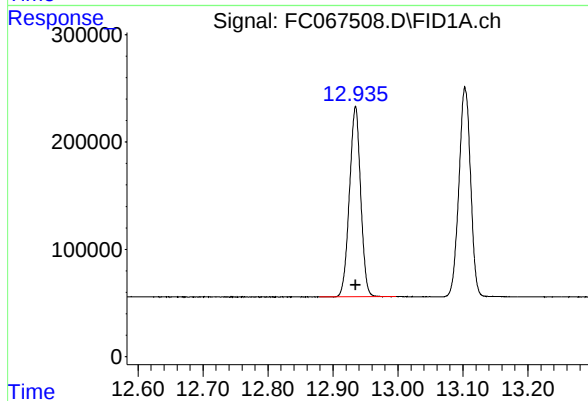
#10 n-Eicosane (C20)

R.T.: 12.492 min
Delta R.T.: 0.000 min
Response: 2486010
Conc: 20.00 ug/ml



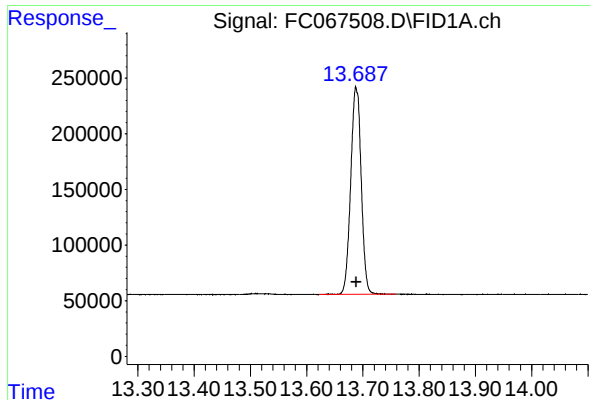
#11 n-Heneicosane (C21)

R.T.: 13.103 min
Delta R.T.: 0.000 min
Response: 2429615
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

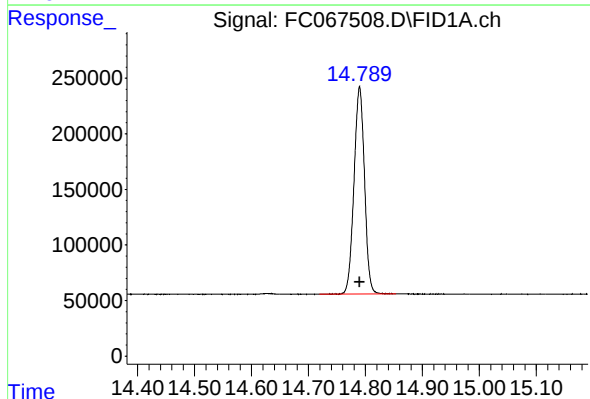
R.T.: 12.935 min
Delta R.T.: 0.000 min
Response: 2131037
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

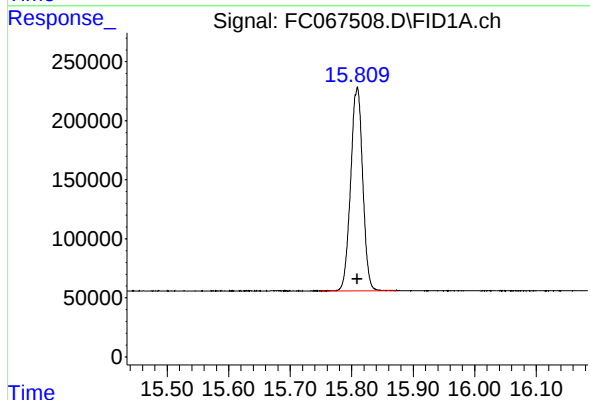
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2410406
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



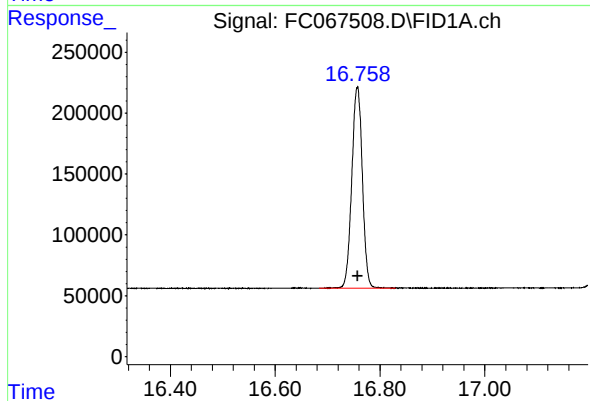
#14 n-Tetracosane (C24)

R.T.: 14.790 min
Delta R.T.: 0.000 min
Response: 2385181
Conc: 20.00 ug/ml



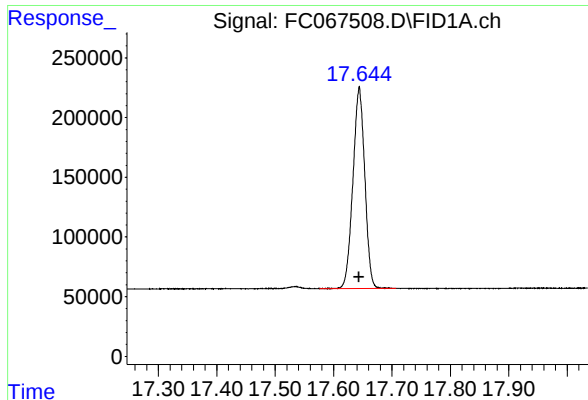
#15 n-Hexacosane (C26)

R.T.: 15.809 min
Delta R.T.: 0.000 min
Response: 2344463
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

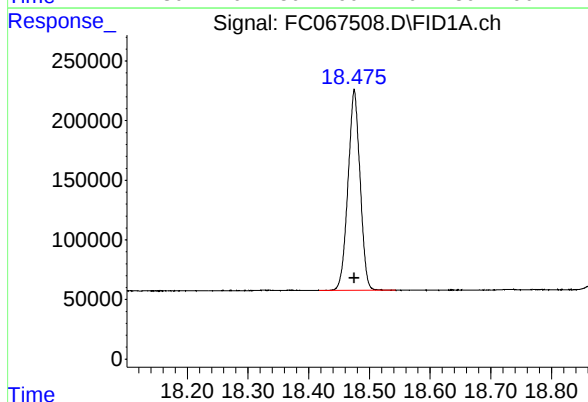
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2318777
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

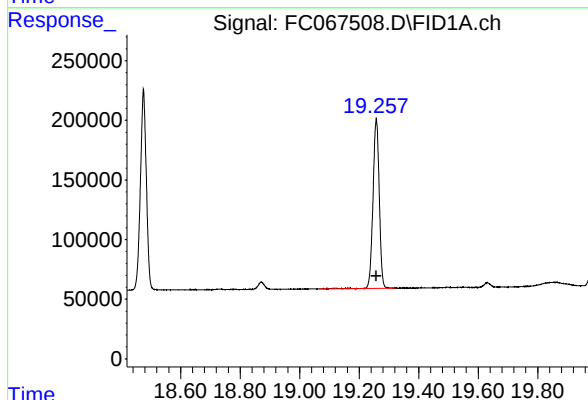
R.T.: 17.644 min
Delta R.T.: 0.000 min
Response: 2378909
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



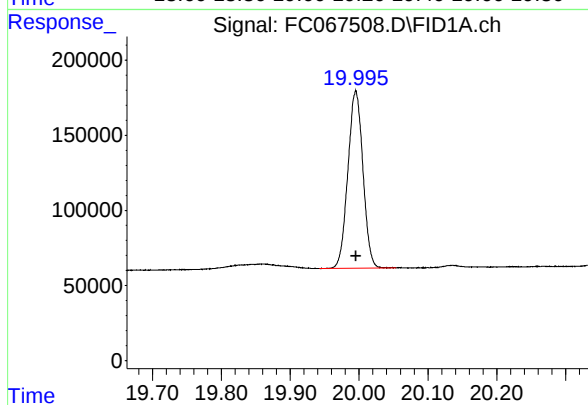
#18 n-Dotriacontane (C32)

R.T.: 18.475 min
Delta R.T.: 0.000 min
Response: 2323289
Conc: 20.00 ug/ml



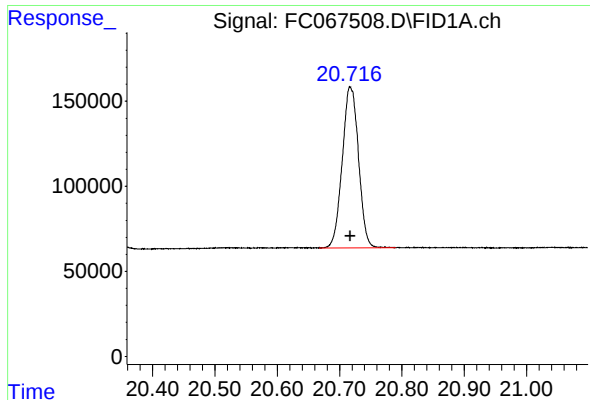
#19 n-Tetatriacontane (C34)

R.T.: 19.258 min
Delta R.T.: 0.000 min
Response: 2065430
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

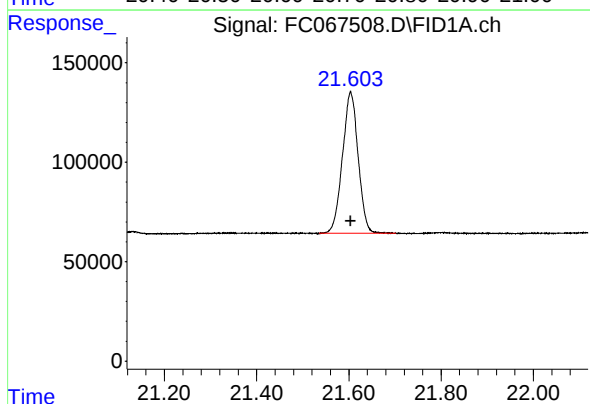
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 1794670
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.718 min
Delta R.T.: 0.000 min
Response: 1712685
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.604 min
Delta R.T.: 0.000 min
Response: 1679680
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067508.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 16:25
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.325	BB	321230	2673666	90.89%	5.047%
2	4.339	4.287	4.399	BB	291890	2702691	91.88%	5.102%
3	5.916	5.860	6.005	BB	318035	2941492	100.00%	5.553%
4	6.354	6.289	6.420	BB	270407	2685213	91.29%	5.069%
5	6.971	6.924	7.074	BB	271627	2804469	95.34%	5.294%
6	8.146	8.082	8.215	BB	241446	2596600	88.27%	4.902%
7	9.745	9.687	9.824	BB	236243	2611645	88.79%	4.930%
8	11.185	11.139	11.262	BB	226739	2610385	88.74%	4.928%
9	11.496	11.437	11.555	BB	253146	2885453	98.09%	5.447%
10	12.492	12.424	12.549	BB	205716	2486010	84.52%	4.693%
11	12.935	12.879	12.997	BB	178352	2131037	72.45%	4.023%
12	13.103	13.037	13.162	BB	194305	2429615	82.60%	4.587%
13	13.688	13.622	13.759	BB	184039	2410406	81.95%	4.550%
14	14.790	14.719	14.854	BB	186782	2385181	81.09%	4.503%
15	15.809	15.747	15.872	BB	171744	2344463	79.70%	4.426%
16	16.757	16.684	16.830	BB	165164	2318777	78.83%	4.377%
17	17.644	17.575	17.707	BB	168160	2378909	80.87%	4.491%
18	18.475	18.417	18.544	BB	168488	2323289	78.98%	4.386%
19	19.258	19.065	19.324	BB	141960	2065430	70.22%	3.899%
20	19.995	19.942	20.054	PB	118336	1794670	61.01%	3.388%
21	20.718	20.667	20.790	BB	94381	1712685	58.23%	3.233%
22	21.604	21.535	21.702	BB	71304	1679680	57.10%	3.171%
Sum of corrected areas:							52971767	

Aliphatic EPH 102324.M Wed Oct 23 18:21:40 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067509.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 17:02
 Operator : YP/AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Oct 23 17:42:18 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 17:42:09 2024
 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)	11.495	1516253	10.457 ug/ml
Spiked Amount 50.000		Recovery =	20.91%
12) S 1-chlorooctadecane (S...	12.934	1104370	10.299 ug/ml
Spiked Amount 50.000		Recovery =	20.60%
Target Compounds			
1) T n-Nonane (C9)	3.274	1392325	10.429 ug/ml
2) T n-Decane (C10)	4.338	1408883	10.425 ug/ml
3) T A~Naphthalene (C11.7)	5.916	1523229	10.321 ug/ml
4) T n-Dodecane (C12)	6.353	1397121	10.404 ug/ml
5) T A~2-methylnaphthalene...	6.971	1445653	10.250 ug/ml
6) T n-Tetradecane (C14)	8.146	1348794	10.363 ug/ml
7) T n-Hexadecane (C16)	9.744	1353251	10.321 ug/ml
8) T n-Octadecane (C18)	11.184	1362847	10.395 ug/ml
10) T n-Eicosane (C20)	12.491	1299257	10.409 ug/ml
11) T n-Heneicosane (C21)	13.102	1272574	10.413 ug/ml
13) T n-Docosane (C22)	13.687	1260218	10.404 ug/ml
14) T n-Tetracosane (C24)	14.789	1251574	10.427 ug/ml
15) T n-Hexacosane (C26)	15.808	1226594	10.413 ug/ml
16) T n-Octacosane (C28)	16.756	1213286	10.461 ug/ml
17) T n-Tricontane (C30)	17.643	1249088	10.570 ug/ml
18) T n-Dotriacontane (C32)	18.474	1225099	10.667 ug/ml
19) T n-Tetratriacontane (C34)	19.257	1087201	10.641 ug/ml
20) T n-Hexatriacontane (C36)	19.995	941330	10.535 ug/ml
21) T n-Octatriacontane (C38)	20.719	898154	10.530 ug/ml
22) T n-Tetracontane (C40)	21.604	882650	10.523 ug/ml

(f)=RT Delta > 1/2 Window

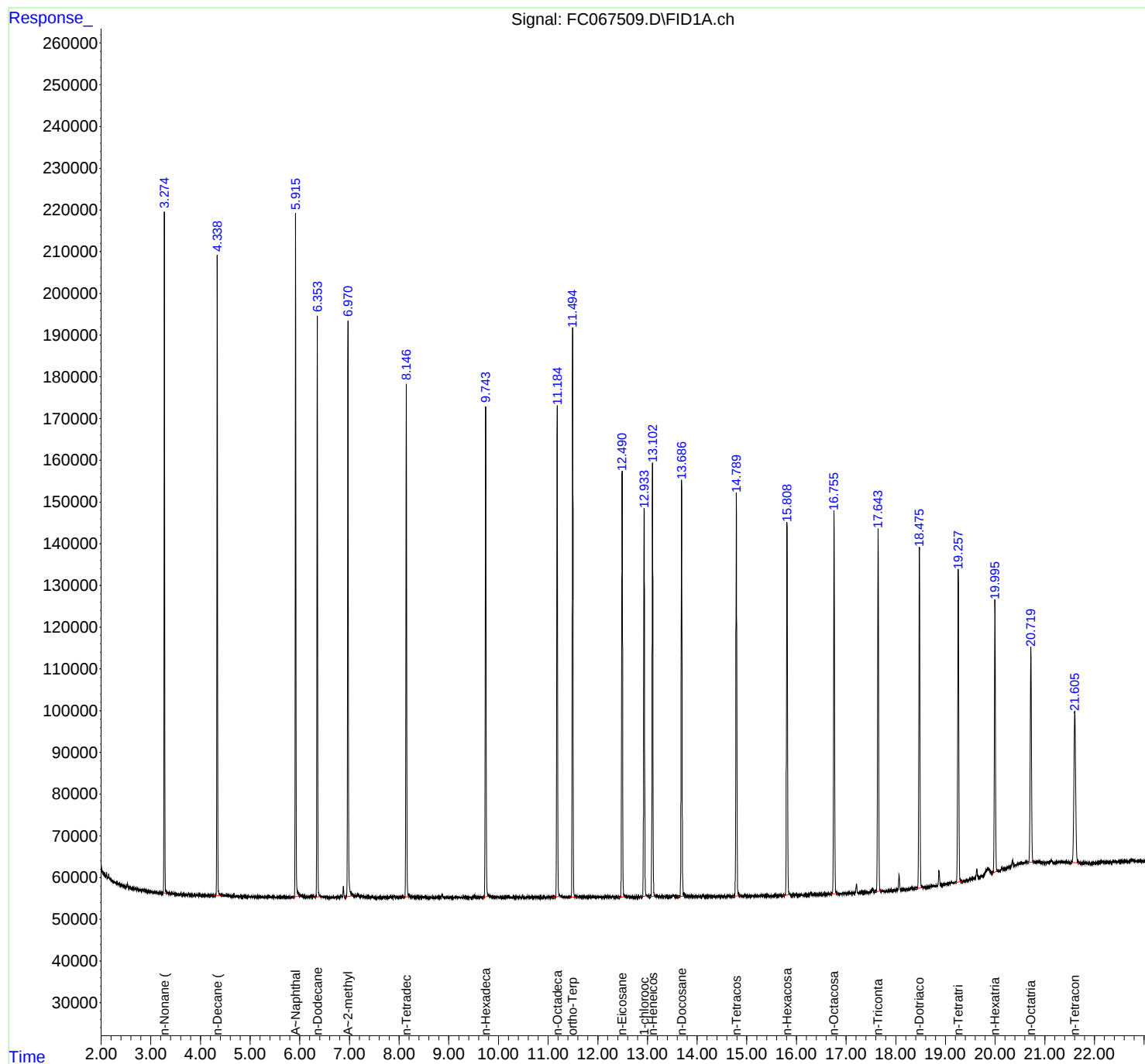
(m)=manual int.

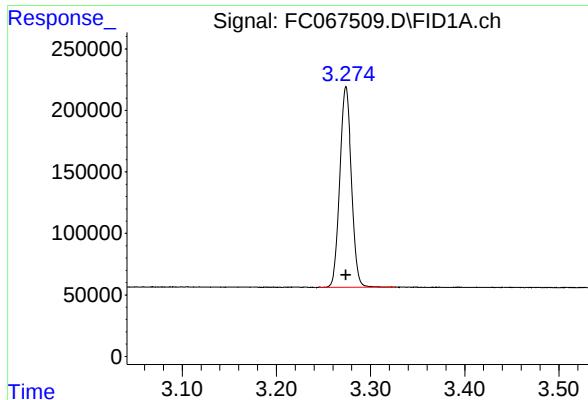
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067509.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 23 17:42:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:42:09 2024
Response via : Initial Calibration
Integrator: ChemStation

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

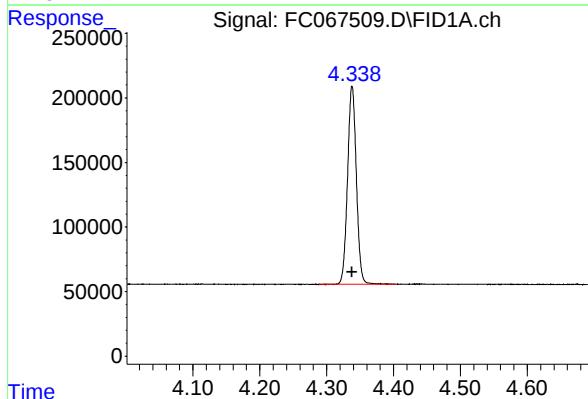




#1 n-Nonane (C9)

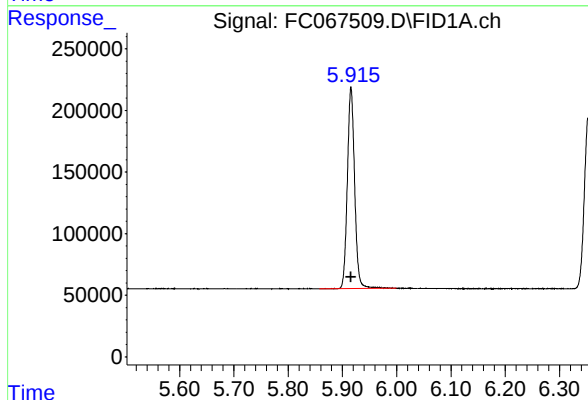
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 1392325
Conc: 10.43 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



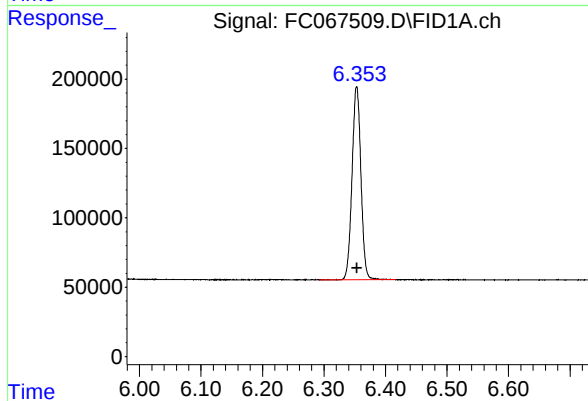
#2 n-Decane (C10)

R.T.: 4.338 min
Delta R.T.: 0.000 min
Response: 1408883
Conc: 10.42 ug/ml



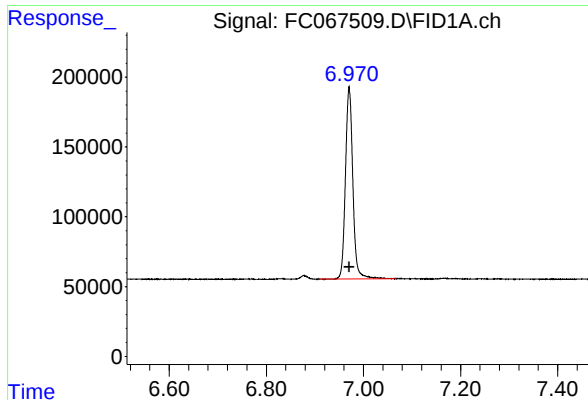
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 1523229
Conc: 10.32 ug/ml



#4 n-Dodecane (C12)

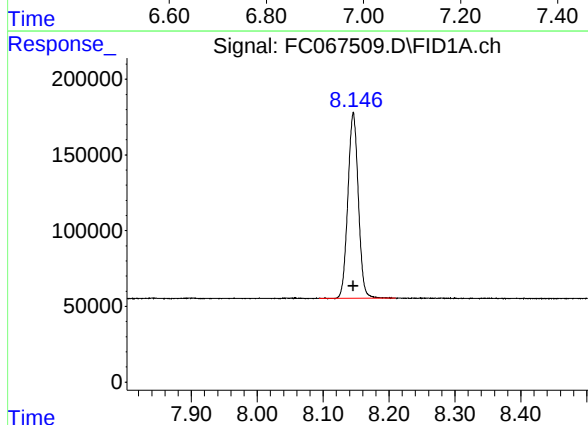
R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 1397121
Conc: 10.40 ug/ml



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

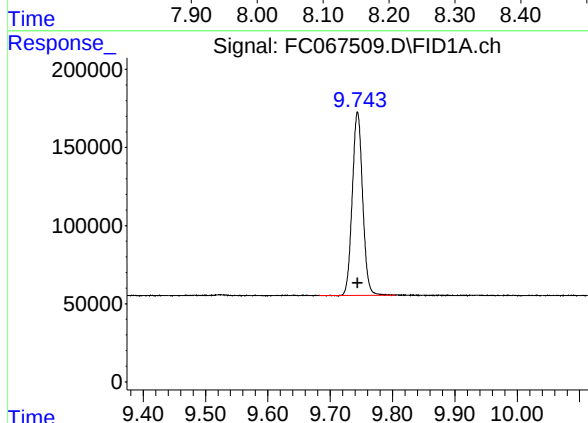
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 1445653
Conc: 10.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



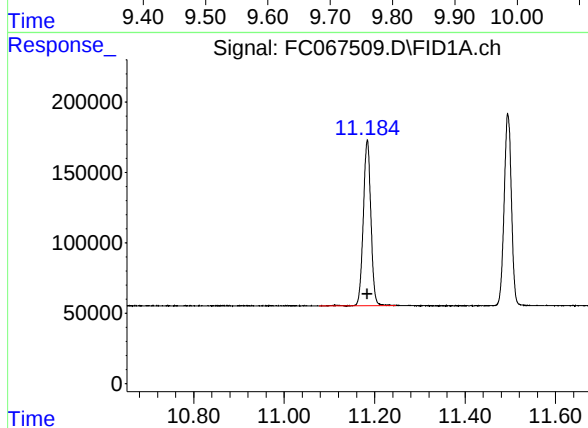
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 1348794
Conc: 10.36 ug/ml



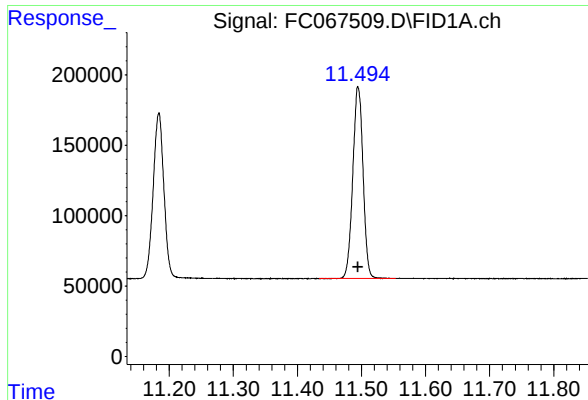
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 1353251
Conc: 10.32 ug/ml



#8 n-Octadecane (C18)

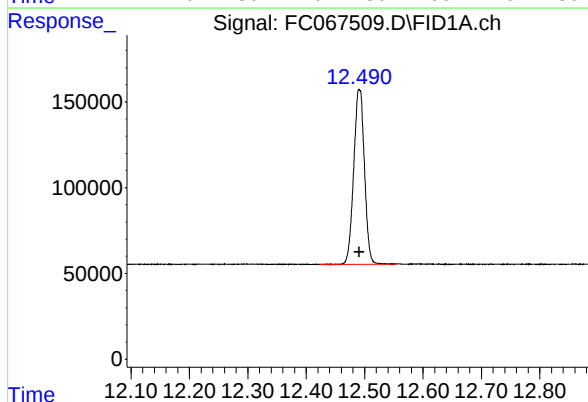
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 1362847
Conc: 10.39 ug/ml



#9 ortho-Terphenyl (SURR)

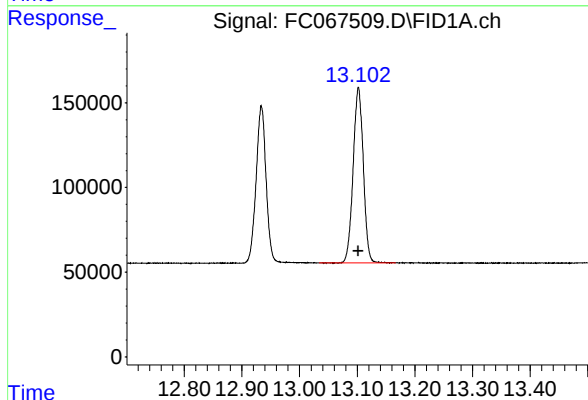
R.T.: 11.495 min
Delta R.T.: 0.000 min
Response: 1516253
Conc: 10.46 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



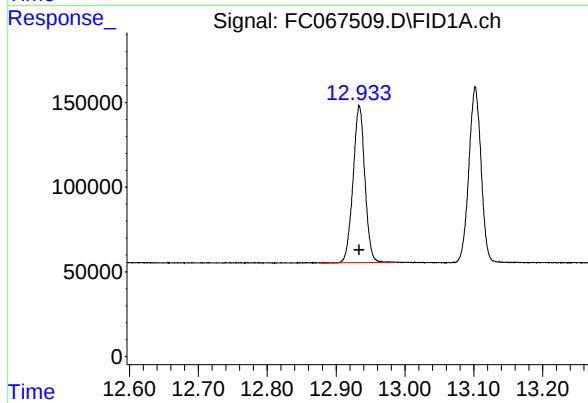
#10 n-Eicosane (C20)

R.T.: 12.491 min
Delta R.T.: 0.000 min
Response: 1299257
Conc: 10.41 ug/ml



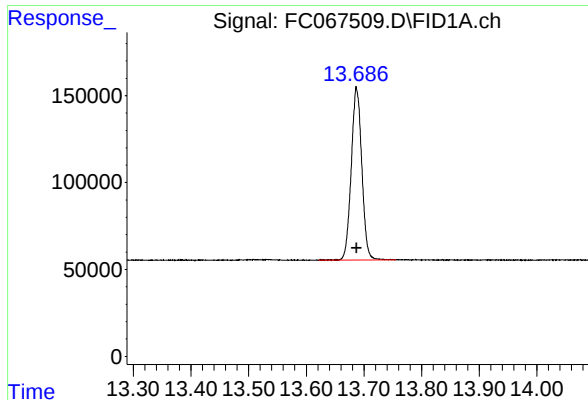
#11 n-Heneicosane (C21)

R.T.: 13.102 min
Delta R.T.: 0.000 min
Response: 1272574
Conc: 10.41 ug/ml



#12 1-chlorooctadecane (SURR)

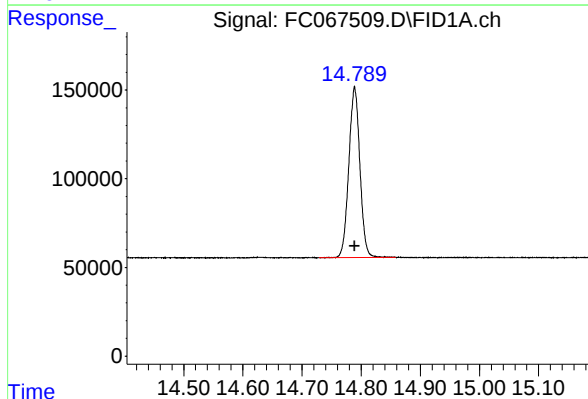
R.T.: 12.934 min
Delta R.T.: 0.000 min
Response: 1104370
Conc: 10.30 ug/ml



#13 n-Docosane (C22)

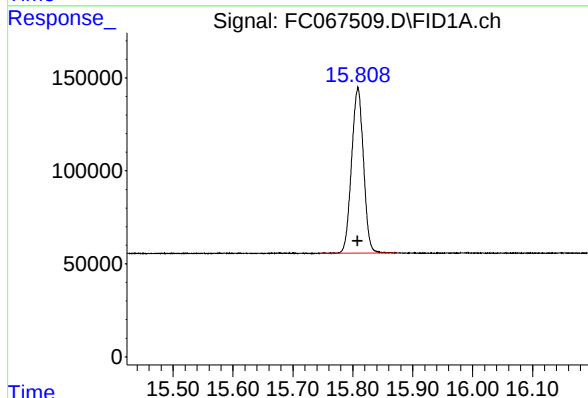
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 1260218
Conc: 10.40 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



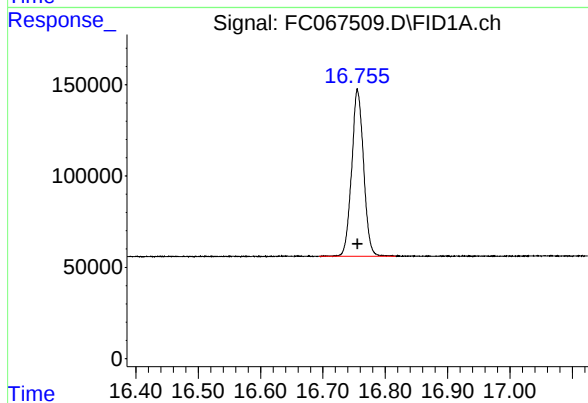
#14 n-Tetracosane (C24)

R.T.: 14.789 min
Delta R.T.: 0.000 min
Response: 1251574
Conc: 10.43 ug/ml



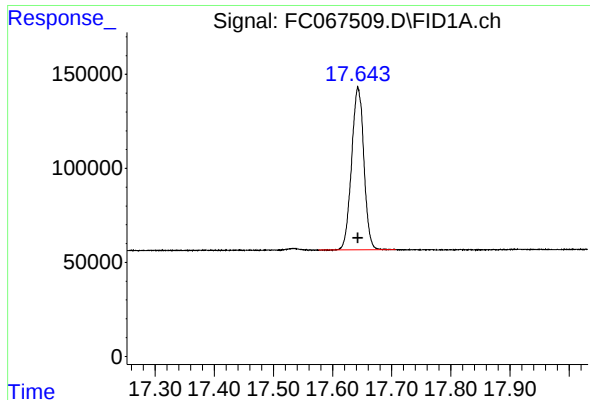
#15 n-Hexacosane (C26)

R.T.: 15.808 min
Delta R.T.: 0.000 min
Response: 1226594
Conc: 10.41 ug/ml



#16 n-Octacosane (C28)

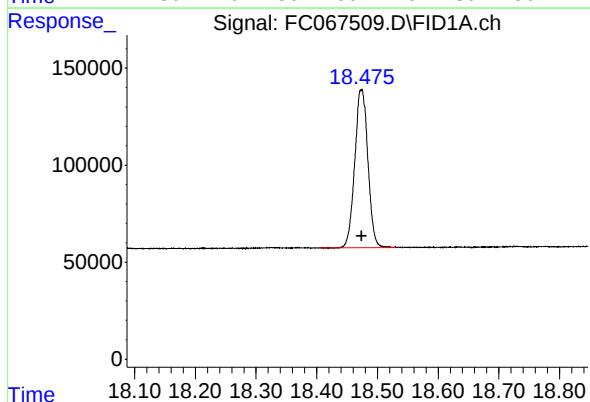
R.T.: 16.756 min
Delta R.T.: 0.000 min
Response: 1213286
Conc: 10.46 ug/ml



#17 n-Tricontane (C30)

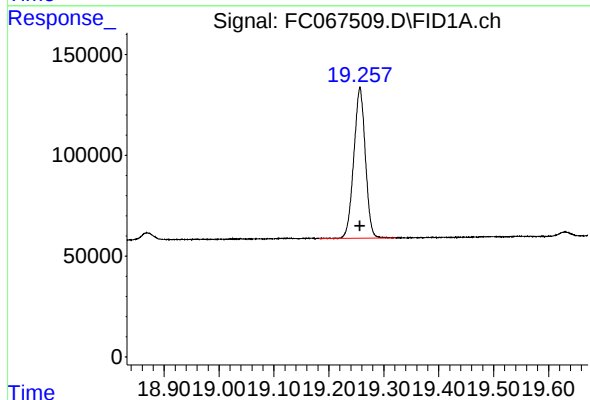
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 1249088
Conc: 10.57 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



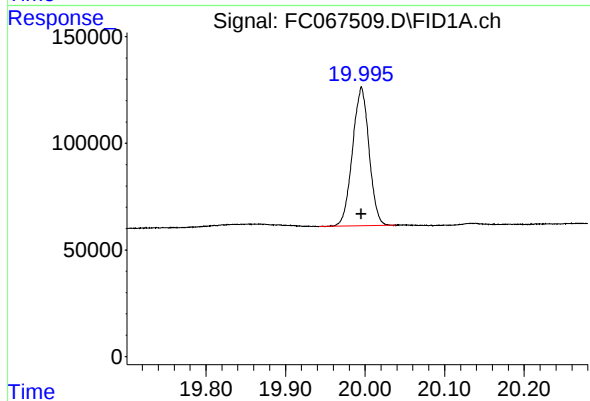
#18 n-Dotriacontane (C32)

R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 1225099
Conc: 10.67 ug/ml



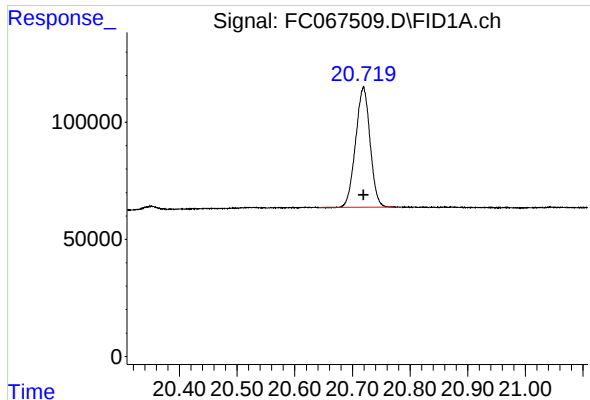
#19 n-Tetatriacontane (C34)

R.T.: 19.257 min
Delta R.T.: 0.000 min
Response: 1087201
Conc: 10.64 ug/ml



#20 n-Hexatriacontane (C36)

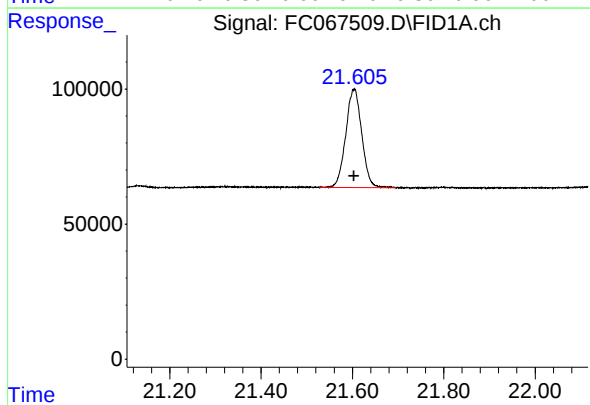
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 941330
Conc: 10.53 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.719 min
Delta R.T.: 0.000 min
Response: 898154
Conc: 10.53 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.604 min
Delta R.T.: 0.000 min
Response: 882650
Conc: 10.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067509.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:02
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.274	3.245	3.327	BB	163023	1392325	91.41%	5.034%
2	4.338	4.289	4.404	BB	153448	1408883	92.49%	5.094%
3	5.916	5.857	5.999	BB	163420	1523229	100.00%	5.507%
4	6.353	6.292	6.417	BB	139335	1397121	91.72%	5.051%
5	6.971	6.909	7.067	BB	137359	1445653	94.91%	5.227%
6	8.146	8.094	8.210	BB	122199	1348794	88.55%	4.876%
7	9.744	9.682	9.805	BB	117477	1353251	88.84%	4.892%
8	11.184	11.077	11.247	BB	117457	1362847	89.47%	4.927%
9	11.495	11.434	11.554	BB	135385	1516253	99.54%	5.482%
10	12.491	12.422	12.554	BB	101975	1299257	85.30%	4.697%
11	12.934	12.875	12.987	BB	92846	1104370	72.50%	3.993%
12	13.102	13.034	13.167	BB	103848	1272574	83.54%	4.601%
13	13.687	13.622	13.755	BB	98770	1260218	82.73%	4.556%
14	14.789	14.729	14.859	BB	96250	1251574	82.17%	4.525%
15	15.808	15.744	15.872	BB	89337	1226594	80.53%	4.435%
16	16.756	16.694	16.817	BB	91173	1213286	79.65%	4.386%
17	17.643	17.577	17.707	BB	85908	1249088	82.00%	4.516%
18	18.474	18.404	18.530	BB	81392	1225099	80.43%	4.429%
19	19.257	19.182	19.322	BB	75084	1087201	71.37%	3.931%
20	19.995	19.942	20.039	BB	65222	941330	61.80%	3.403%
21	20.719	20.642	20.775	BB	51277	898154	58.96%	3.247%
22	21.604	21.527	21.695	BB	35971	882650	57.95%	3.191%
Sum of corrected areas:						27659751		

Aliphatic EPH 102324.M Wed Oct 23 18:21:58 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067510.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 17:38
 Operator : YP/AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 23 18:12:12 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:02 2024
 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)	11.494	768220	5.236 ug/ml
Spiked Amount 50.000		Recovery =	10.47%
12) S 1-chlorooctadecane (S...	12.933	555182	5.141 ug/ml
Spiked Amount 50.000		Recovery =	10.28%
Target Compounds			
1) T n-Nonane (C9)	3.275	697792	5.180 ug/ml
2) T n-Decane (C10)	4.339	703136	5.161 ug/ml
3) T A~Naphthalene (C11.7)	5.917	752949	5.081 ug/ml
4) T n-Dodecane (C12)	6.354	700270	5.170 ug/ml
5) T A~2-methylnaphthalene...	6.971	709834	5.026 ug/ml
6) T n-Tetradecane (C14)	8.146	678328	5.168 ug/ml
7) T n-Hexadecane (C16)	9.744	680213	5.149 ug/ml
8) T n-Octadecane (C18)	11.184	680709	5.152 ug/ml
10) T n-Eicosane (C20)	12.491	658066	5.215 ug/ml
11) T n-Heneicosane (C21)	13.102	641065	5.194 ug/ml
13) T n-Docosane (C22)	13.687	638712	5.216 ug/ml
14) T n-Tetracosane (C24)	14.789	629495	5.193 ug/ml
15) T n-Hexacosane (C26)	15.808	620443	5.211 ug/ml
16) T n-Octacosane (C28)	16.758	621629	5.284 ug/ml
17) T n-Tricontane (C30)	17.643	658247	5.446 ug/ml
18) T n-Dotriacontane (C32)	18.474	660916	5.586 ug/ml
19) T n-Tetratriacontane (C34)	19.256	574804	5.489 ug/ml
20) T n-Hexatriacontane (C36)	19.994	488556	5.367 ug/ml
21) T n-Octatriacontane (C38)	20.718	459107	5.301 ug/ml
22) T n-Tetracontane (C40)	21.603	447730	5.267 ug/ml

(f)=RT Delta > 1/2 Window

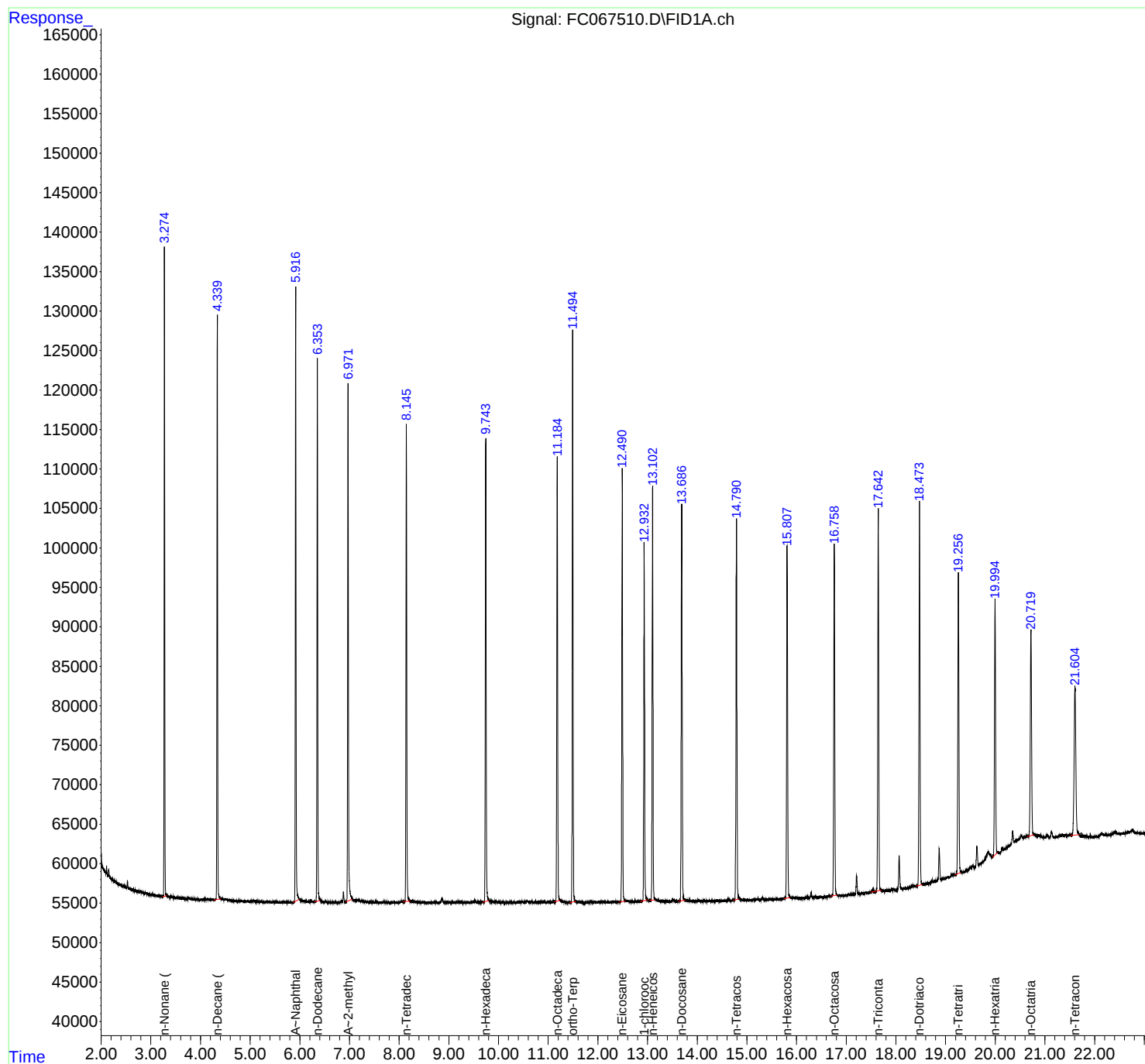
(m)=manual int.

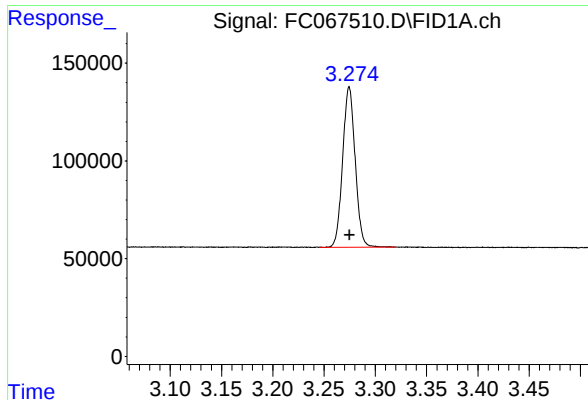
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067510.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 23 18:12:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

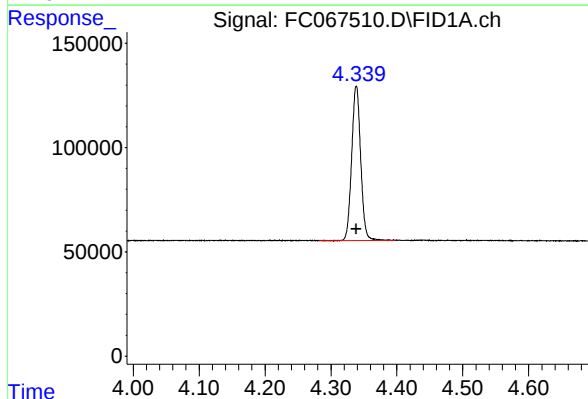




#1 n-Nonane (C9)

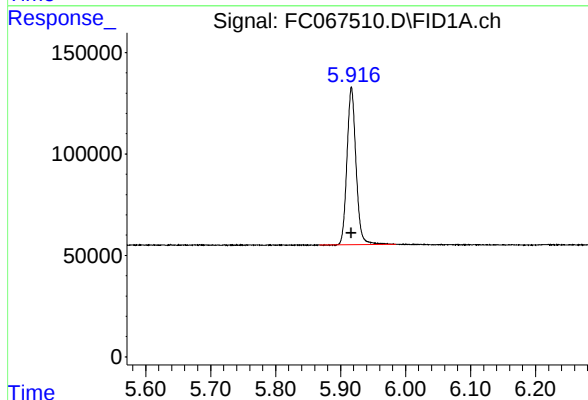
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 697792
Conc: 5.18 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



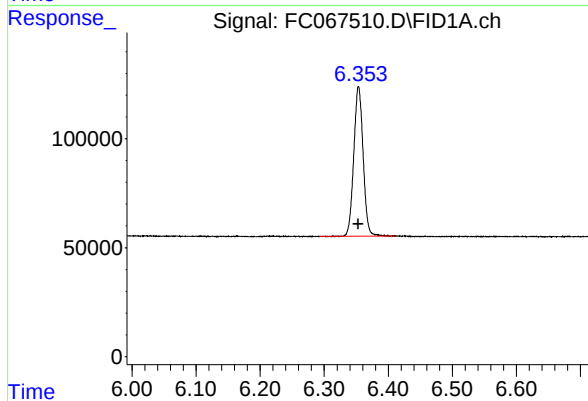
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 703136
Conc: 5.16 ug/ml



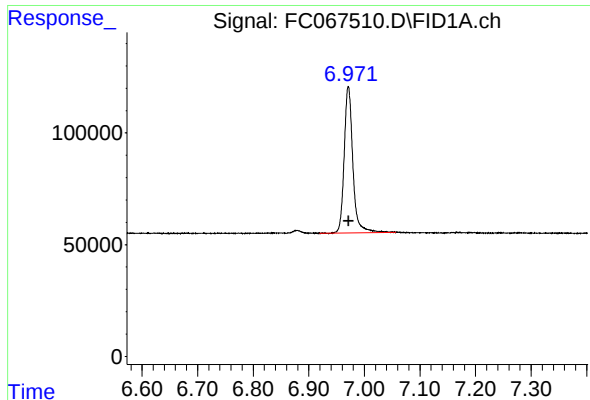
#3 A~Naphthalene (C11.7)

R.T.: 5.917 min
Delta R.T.: 0.000 min
Response: 752949
Conc: 5.08 ug/ml



#4 n-Dodecane (C12)

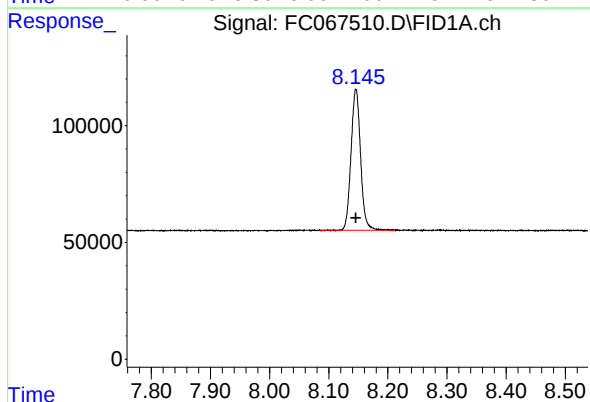
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 700270
Conc: 5.17 ug/ml



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

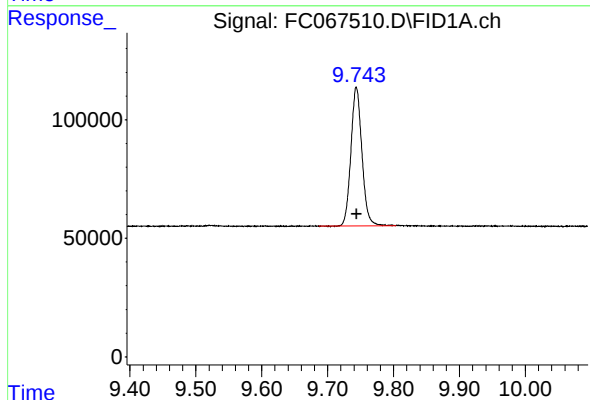
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 709834
Conc: 5.03 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



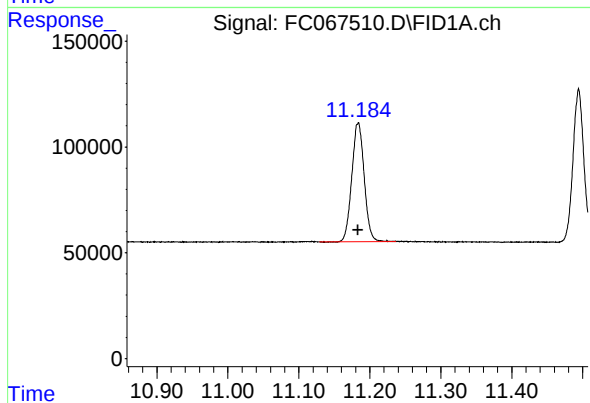
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 678328
Conc: 5.17 ug/ml



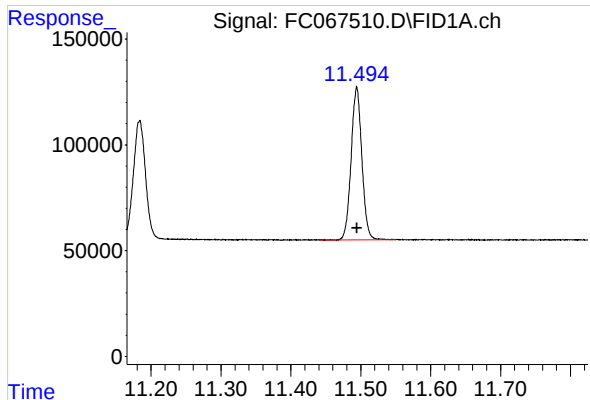
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 680213
Conc: 5.15 ug/ml



#8 n-Octadecane (C18)

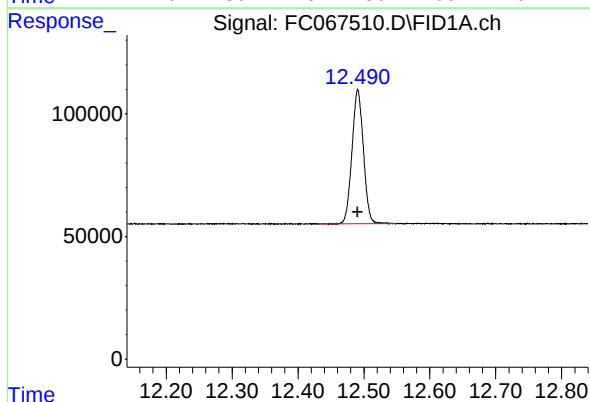
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 680709
Conc: 5.15 ug/ml



#9 ortho-Terphenyl (SURR)

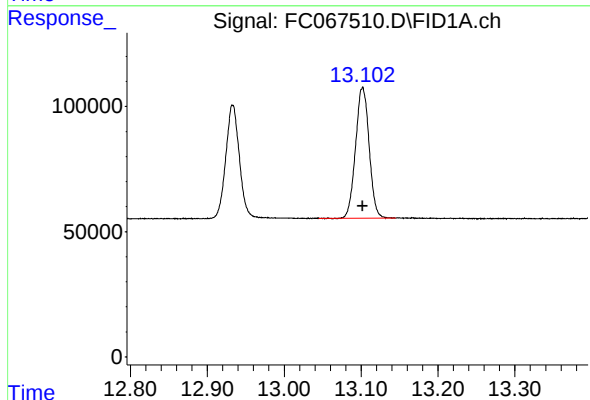
R.T.: 11.494 min
Delta R.T.: 0.000 min
Response: 768220
Conc: 5.24 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



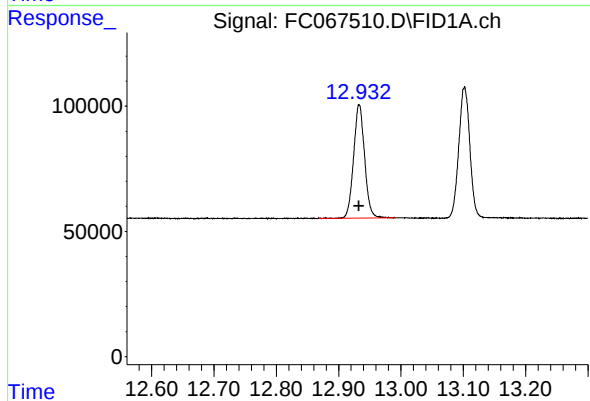
#10 n-Eicosane (C20)

R.T.: 12.491 min
Delta R.T.: 0.000 min
Response: 658066
Conc: 5.22 ug/ml



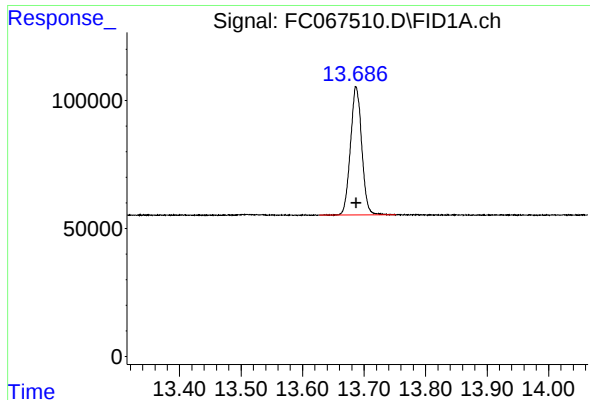
#11 n-Heneicosane (C21)

R.T.: 13.102 min
Delta R.T.: 0.000 min
Response: 641065
Conc: 5.19 ug/ml



#12 1-chlorooctadecane (SURR)

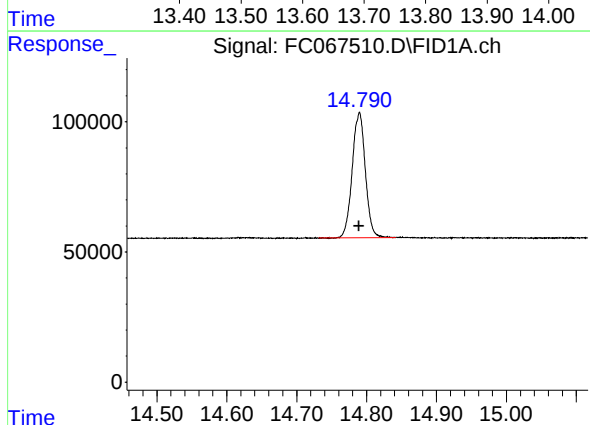
R.T.: 12.933 min
Delta R.T.: 0.000 min
Response: 555182
Conc: 5.14 ug/ml



#13 n-Docosane (C22)

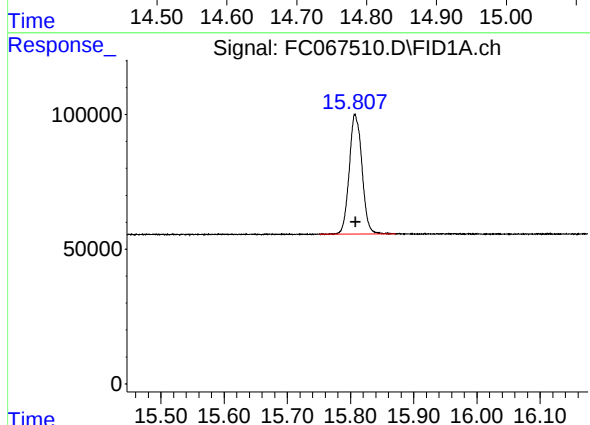
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 638712
Conc: 5.22 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



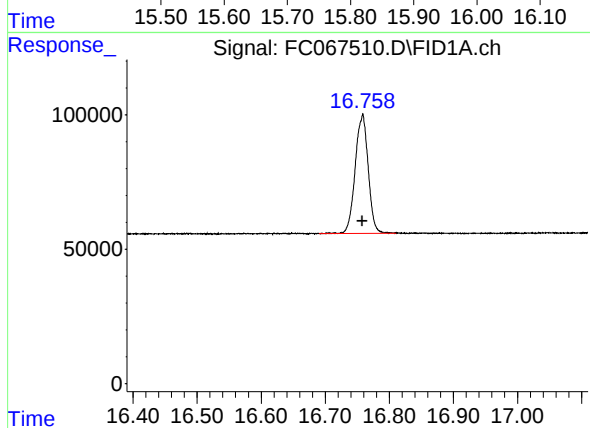
#14 n-Tetracosane (C24)

R.T.: 14.789 min
Delta R.T.: 0.000 min
Response: 629495
Conc: 5.19 ug/ml



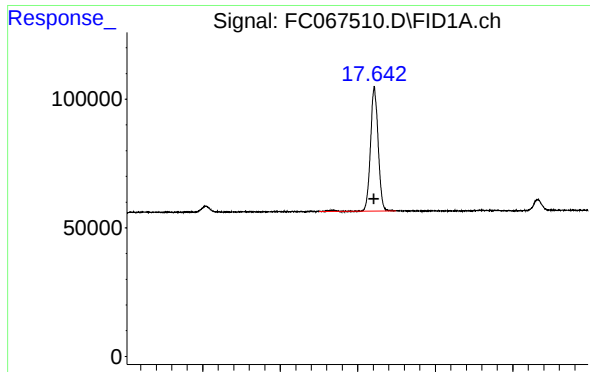
#15 n-Hexacosane (C26)

R.T.: 15.808 min
Delta R.T.: 0.000 min
Response: 620443
Conc: 5.21 ug/ml



#16 n-Octacosane (C28)

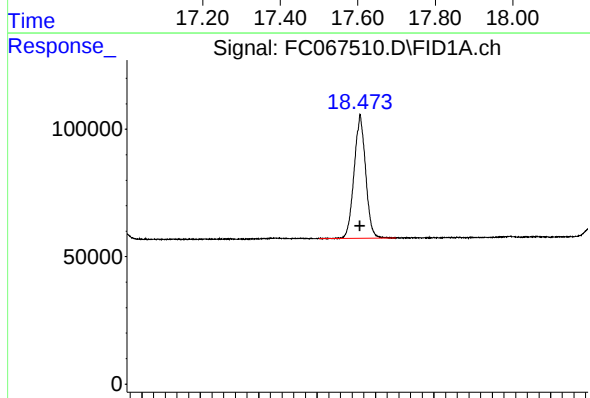
R.T.: 16.758 min
Delta R.T.: 0.000 min
Response: 621629
Conc: 5.28 ug/ml



#17 n-Tricontane (C30)

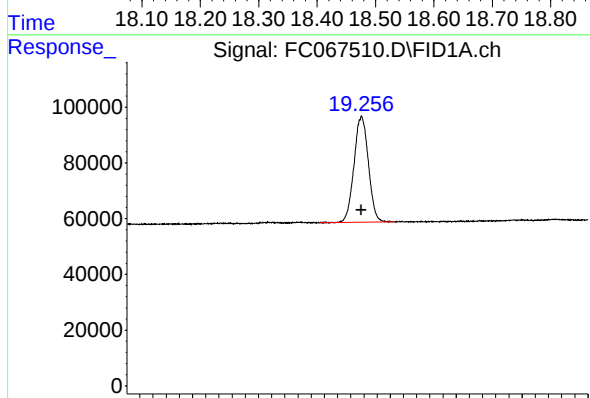
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 658247
Conc: 5.45 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



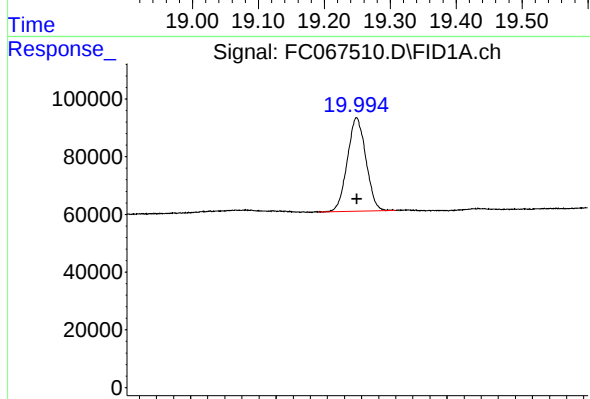
#18 n-Dotriacontane (C32)

R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 660916
Conc: 5.59 ug/ml



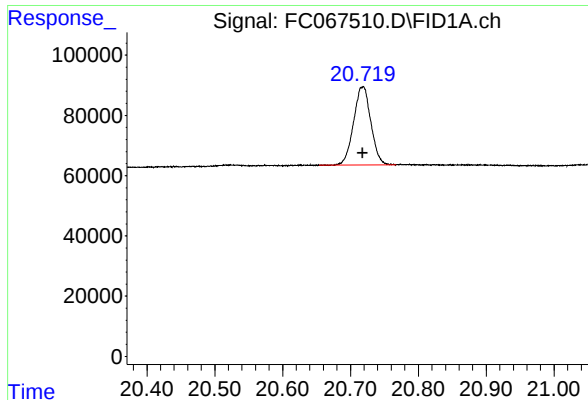
#19 n-Tetratriacontane (C34)

R.T.: 19.256 min
Delta R.T.: 0.000 min
Response: 574804
Conc: 5.49 ug/ml



#20 n-Hexatriacontane (C36)

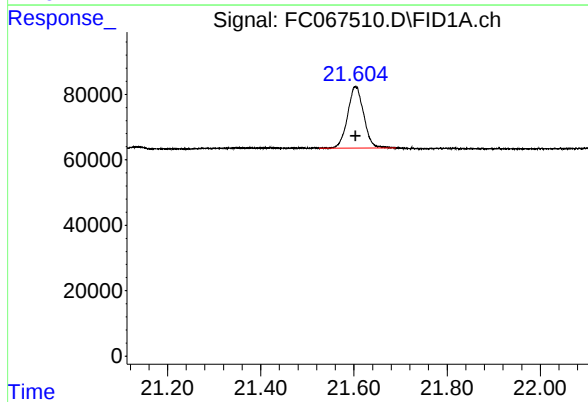
R.T.: 19.994 min
Delta R.T.: 0.000 min
Response: 488556
Conc: 5.37 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.718 min
Delta R.T.: 0.000 min
Response: 459107
Conc: 5.30 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.603 min
Delta R.T.: 0.000 min
Response: 447730
Conc: 5.27 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067510.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:38
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.245	3.320	BB	82274	697792	90.83%	4.975%
2	4.339	4.282	4.399	BB	74065	703136	91.53%	5.013%
3	5.917	5.867	5.985	BB	77688	752949	98.01%	5.368%
4	6.354	6.292	6.412	BB	68794	700270	91.15%	4.993%
5	6.971	6.919	7.057	BB	65640	709834	92.40%	5.061%
6	8.146	8.084	8.214	BB	60655	678328	88.30%	4.836%
7	9.744	9.687	9.804	BB	58521	680213	88.54%	4.850%
8	11.184	11.129	11.237	BB	55995	680709	88.61%	4.853%
9	11.494	11.440	11.550	BB	71976	768220	100.00%	5.477%
10	12.491	12.432	12.549	BB	54755	658066	85.66%	4.692%
11	12.933	12.869	12.992	BB	45156	555182	72.27%	3.958%
12	13.102	13.045	13.145	BB	52087	641065	83.45%	4.571%
13	13.687	13.627	13.752	BB	50083	638712	83.14%	4.554%
14	14.789	14.732	14.842	BB	47789	629495	81.94%	4.488%
15	15.808	15.750	15.872	BB	43825	620443	80.76%	4.424%
16	16.758	16.690	16.810	BB	44656	621629	80.92%	4.432%
17	17.643	17.500	17.699	BB	47945	658247	85.68%	4.693%
18	18.474	18.404	18.535	BB	48459	660916	86.03%	4.712%
19	19.256	19.192	19.309	BB	38187	574804	74.82%	4.098%
20	19.994	19.950	20.040	BB	32420	488556	63.60%	3.483%
21	20.718	20.654	20.767	BB	25975	459107	59.76%	3.273%
22	21.603	21.525	21.690	BB	18849	447730	58.28%	3.192%
Sum of corrected areas:							14025400	

Aliphatic EPH 102324.M Wed Oct 23 18:22:16 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
 Data File : FC067511.D
 Signal(s) : FID1A.ch
 Acq On : 23 Oct 2024 18:14
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 23 18:51:58 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:58 2024
 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)	11.496	2853188	19.445 ug/ml
Spiked Amount 50.000		Recovery =	38.89%
12) S 1-chlorooctadecane (S...	12.935	2112213	19.560 ug/ml
Spiked Amount 50.000		Recovery =	39.12%
Target Compounds			
1) T n-Nonane (C9)	3.274	2613683	19.401 ug/ml
2) T n-Decane (C10)	4.339	2649286	19.445 ug/ml
3) T A~Naphthalene (C11.7)	5.916	2894144	19.530 ug/ml
4) T n-Dodecane (C12)	6.354	2640477	19.495 ug/ml
5) T A~2-methylnaphthalene...	6.971	2771002	19.622 ug/ml
6) T n-Tetradecane (C14)	8.147	2559793	19.502 ug/ml
7) T n-Hexadecane (C16)	9.744	2585935	19.575 ug/ml
8) T n-Octadecane (C18)	11.185	2593351	19.630 ug/ml
10) T n-Eicosane (C20)	12.493	2466507	19.548 ug/ml
11) T n-Heneicosane (C21)	13.103	2414000	19.560 ug/ml
13) T n-Docosane (C22)	13.688	2390568	19.523 ug/ml
14) T n-Tetracosane (C24)	14.790	2369147	19.546 ug/ml
15) T n-Hexacosane (C26)	15.809	2326770	19.544 ug/ml
16) T n-Octacosane (C28)	16.757	2297199	19.526 ug/ml
17) T n-Tricontane (C30)	17.643	2353840	19.474 ug/ml
18) T n-Dotriacontane (C32)	18.474	2301371	19.450 ug/ml
19) T n-Tetratriacontane (C34)	19.258	2044186	19.519 ug/ml
20) T n-Hexatriacontane (C36)	19.996	1784212	19.601 ug/ml
21) T n-Octatriacontane (C38)	20.719	1698313	19.610 ug/ml
22) T n-Tetracontane (C40)	21.604	1661417	19.544 ug/ml

(f)=RT Delta > 1/2 Window

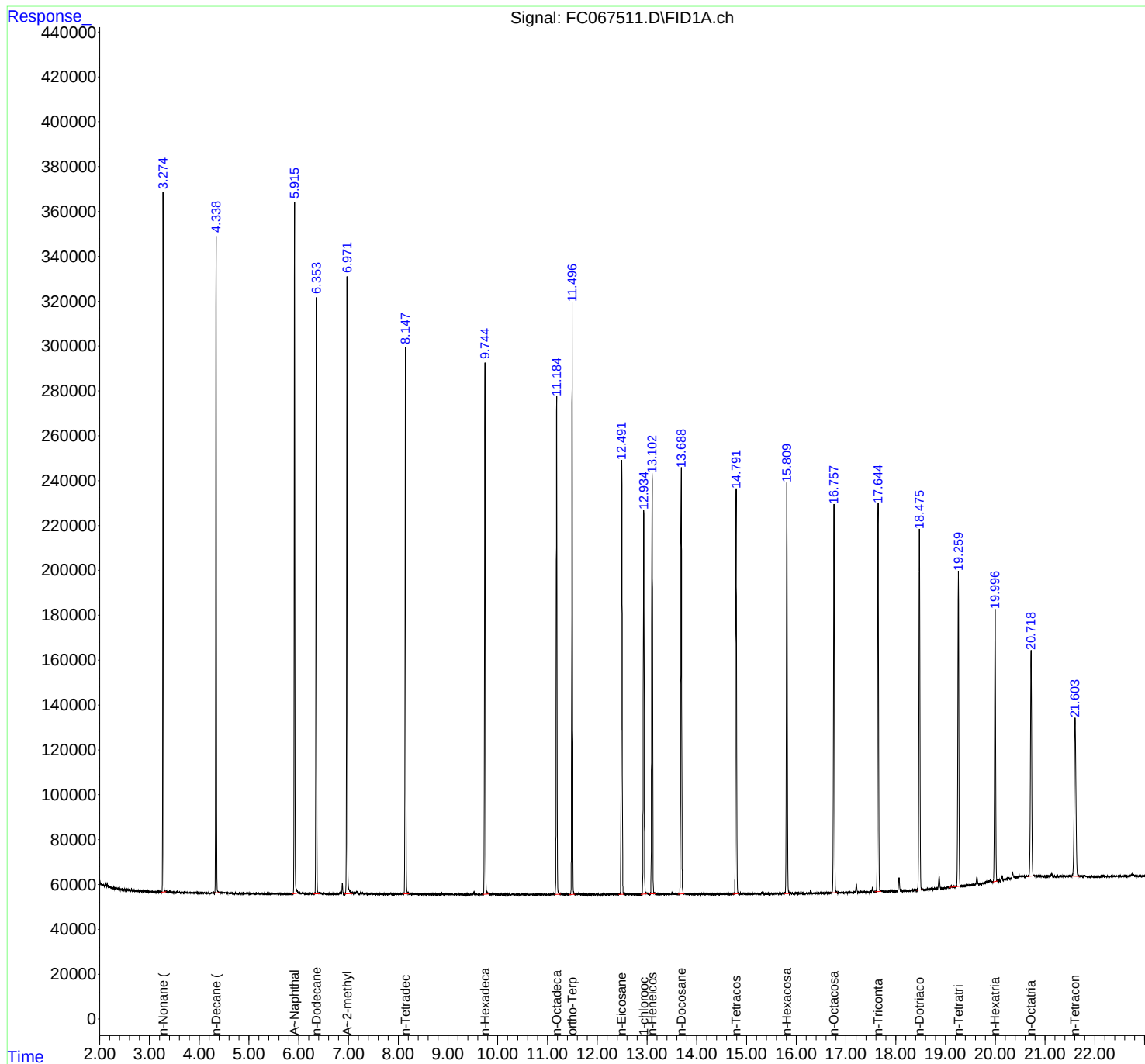
(m)=manual int.

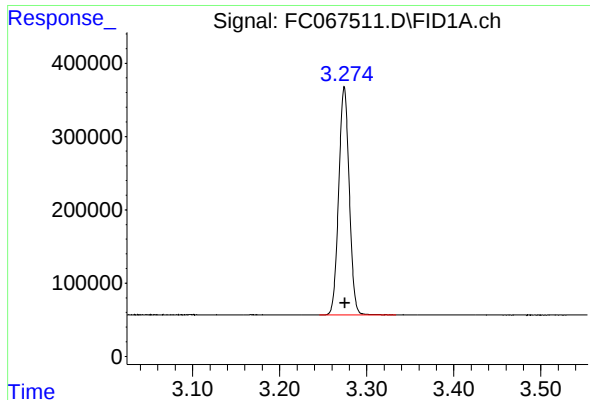
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067511.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 23 18:51:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
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)

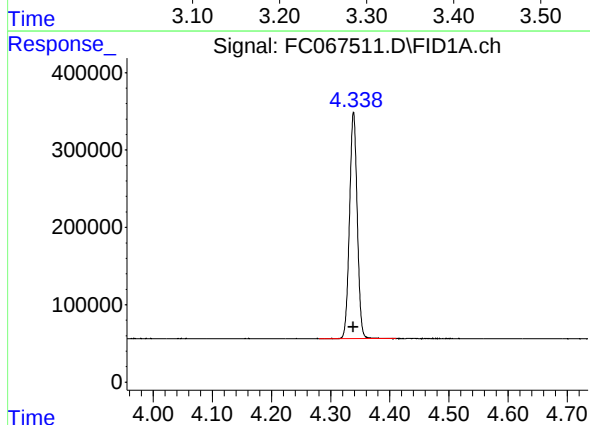
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 2613683
Conc: 19.40 ug/ml

Instrument :

FID_C

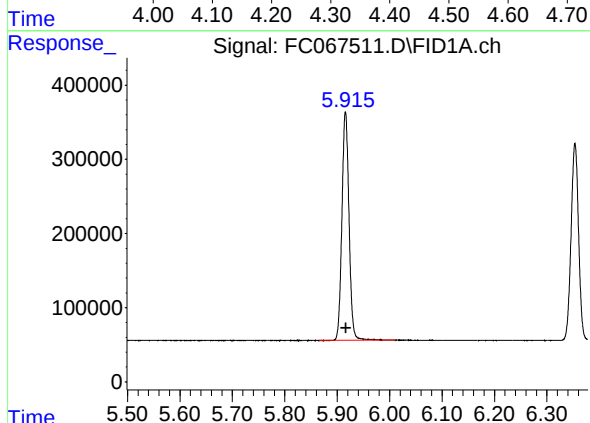
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



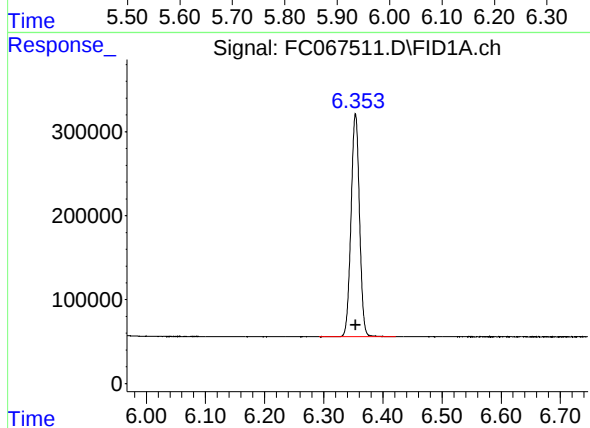
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 2649286
Conc: 19.44 ug/ml



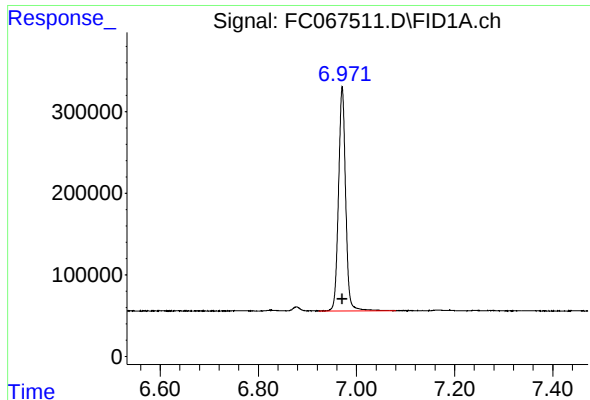
#3 A~Naphthalene (C11.7)

R.T.: 5.916 min
Delta R.T.: 0.000 min
Response: 2894144
Conc: 19.53 ug/ml



#4 n-Dodecane (C12)

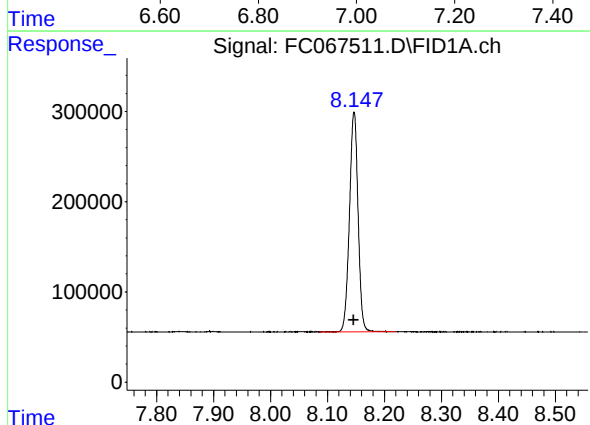
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2640477
Conc: 19.50 ug/ml



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

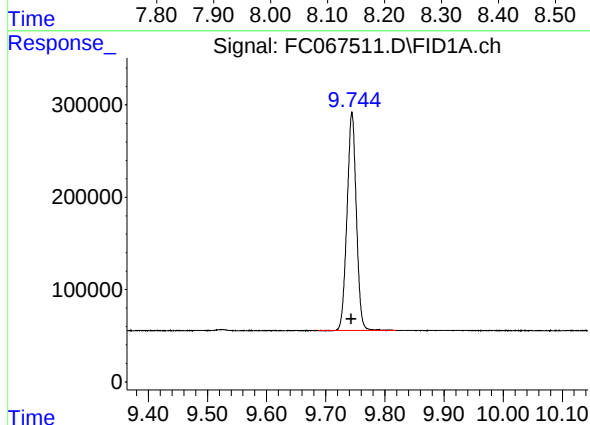
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2771002
Conc: 19.62 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



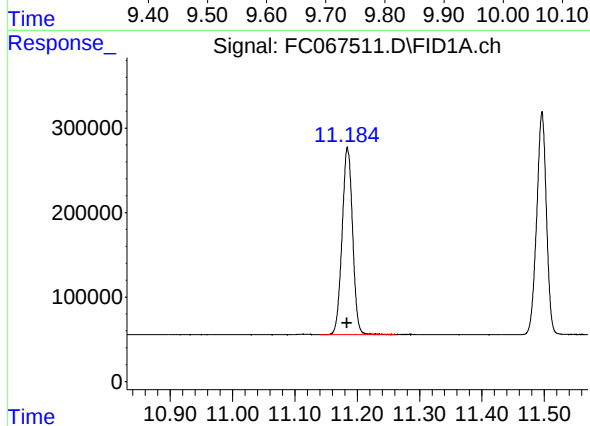
#6 n-Tetradecane (C14)

R.T.: 8.147 min
Delta R.T.: 0.000 min
Response: 2559793
Conc: 19.50 ug/ml



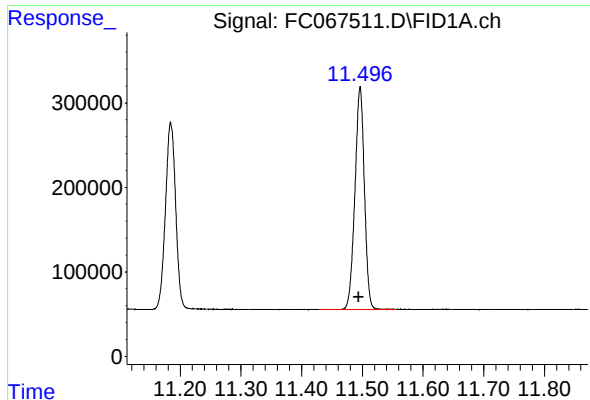
#7 n-Hexadecane (C16)

R.T.: 9.744 min
Delta R.T.: 0.000 min
Response: 2585935
Conc: 19.58 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2593351
Conc: 19.63 ug/ml



#9 ortho-Terphenyl (SURR)

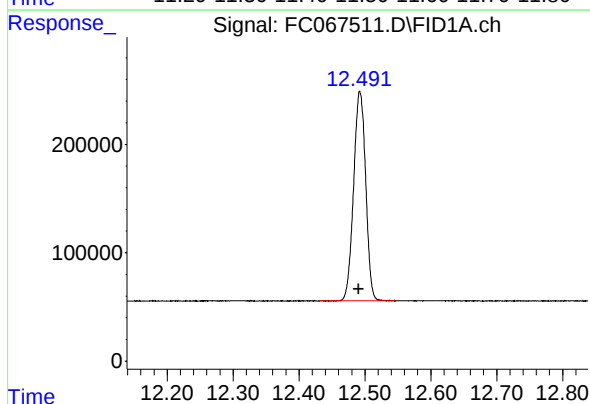
R.T.: 11.496 min
Delta R.T.: 0.002 min
Response: 2853188
Conc: 19.44 ug/ml

Instrument :

FID_C

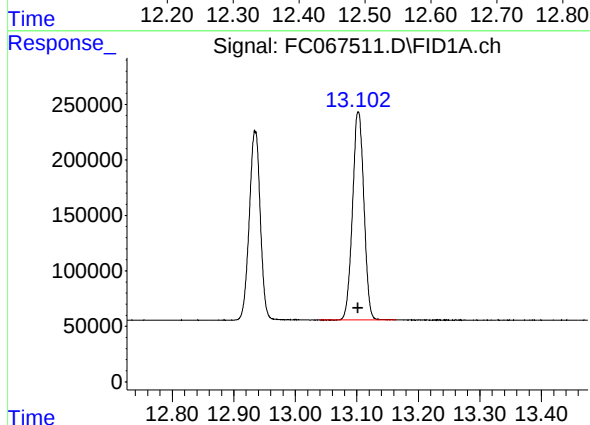
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



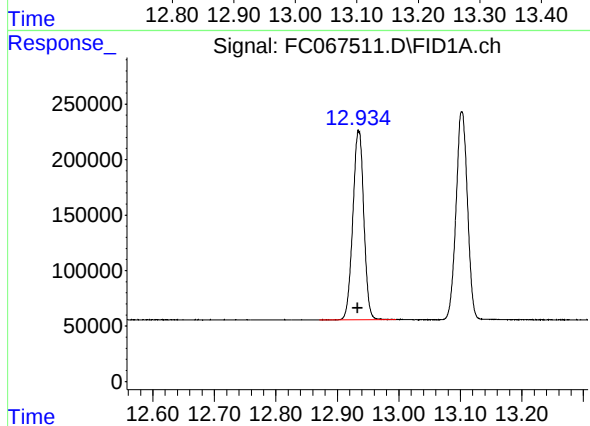
#10 n-Eicosane (C20)

R.T.: 12.493 min
Delta R.T.: 0.002 min
Response: 2466507
Conc: 19.55 ug/ml



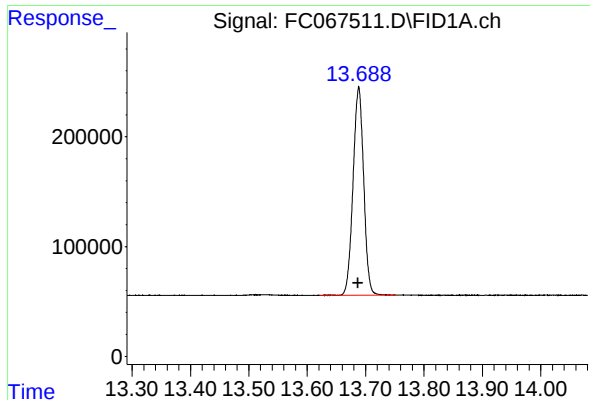
#11 n-Heneicosane (C21)

R.T.: 13.103 min
Delta R.T.: 0.000 min
Response: 2414000
Conc: 19.56 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.935 min
Delta R.T.: 0.002 min
Response: 2112213
Conc: 19.56 ug/ml



#13 n-Docosane (C22)

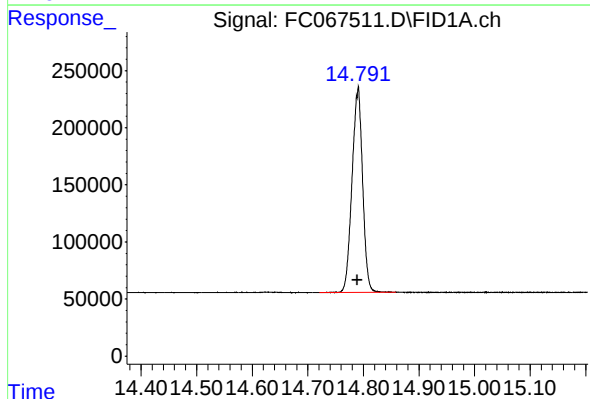
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2390568
Conc: 19.52 ug/ml

Instrument :

FID_C

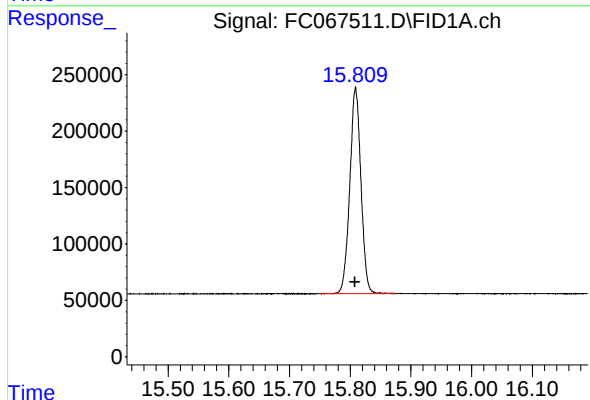
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



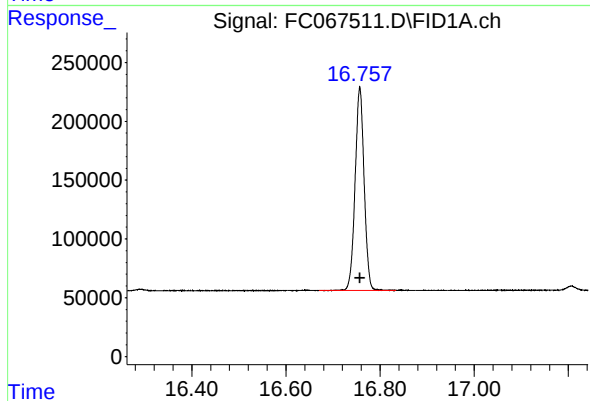
#14 n-Tetracosane (C24)

R.T.: 14.790 min
Delta R.T.: 0.000 min
Response: 2369147
Conc: 19.55 ug/ml



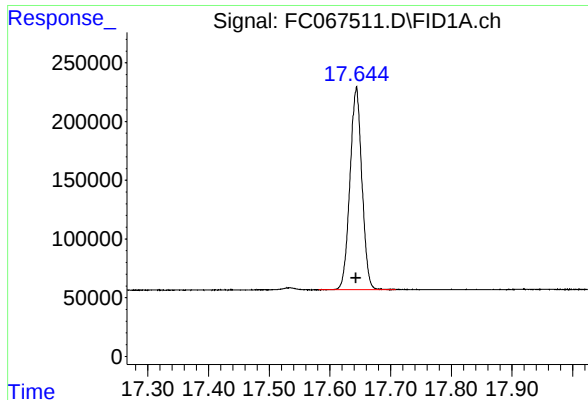
#15 n-Hexacosane (C26)

R.T.: 15.809 min
Delta R.T.: 0.001 min
Response: 2326770
Conc: 19.54 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2297199
Conc: 19.53 ug/ml



#17 n-Tricontane (C30)

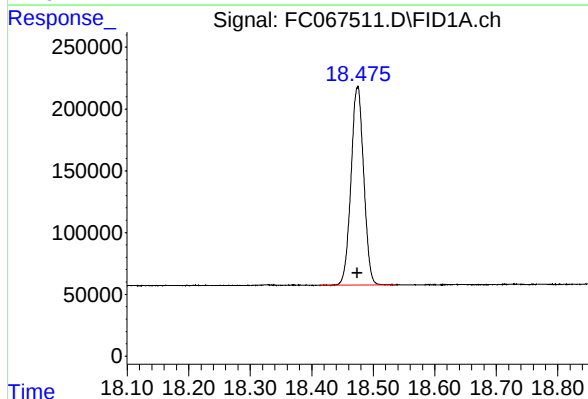
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 2353840
Conc: 19.47 ug/ml

Instrument :

FID_C

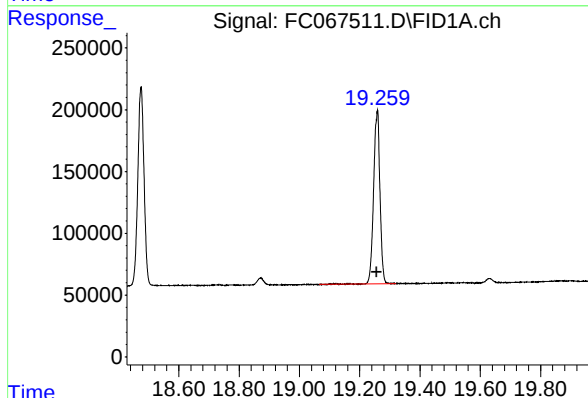
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



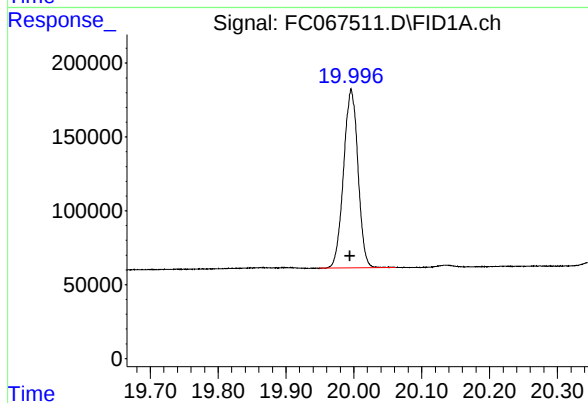
#18 n-Dotriacontane (C32)

R.T.: 18.474 min
Delta R.T.: 0.000 min
Response: 2301371
Conc: 19.45 ug/ml



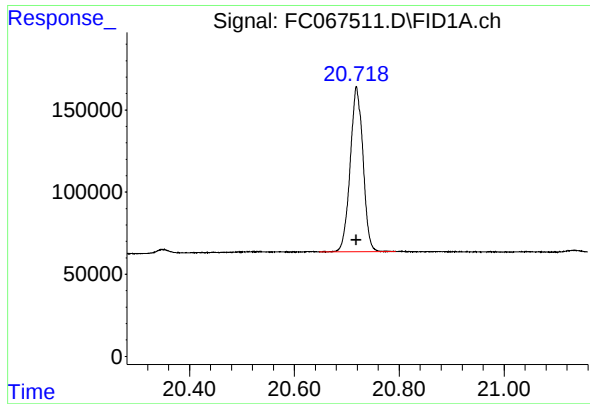
#19 n-Tetatriacontane (C34)

R.T.: 19.258 min
Delta R.T.: 0.002 min
Response: 2044186
Conc: 19.52 ug/ml



#20 n-Hexatriacontane (C36)

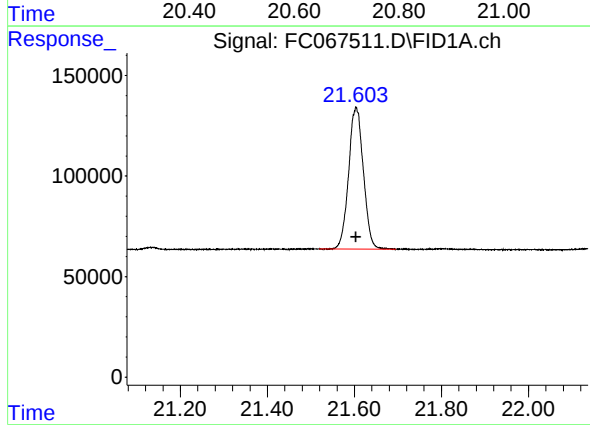
R.T.: 19.996 min
Delta R.T.: 0.002 min
Response: 1784212
Conc: 19.60 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.719 min
Delta R.T.: 0.000 min
Response: 1698313
Conc: 19.61 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.604 min
Delta R.T.: 0.000 min
Response: 1661417
Conc: 19.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067511.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 18:14
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.274	3.245	3.334	BB	310826	2613683	90.31%	4.990%
2	4.339	4.280	4.410	BB	292955	2649286	91.54%	5.058%
3	5.916	5.865	6.012	BB	308318	2894144	100.00%	5.525%
4	6.354	6.292	6.422	BB	265716	2640477	91.24%	5.041%
5	6.971	6.924	7.080	BB	274073	2771002	95.75%	5.290%
6	8.147	8.085	8.220	BB	244098	2559793	88.45%	4.887%
7	9.744	9.689	9.819	BB	236009	2585935	89.35%	4.937%
8	11.185	11.139	11.262	BB	218367	2593351	89.61%	4.951%
9	11.496	11.429	11.555	BB	264747	2853188	98.58%	5.447%
10	12.493	12.430	12.547	BB	193698	2466507	85.22%	4.709%
11	12.935	12.870	12.995	BB	169232	2112213	72.98%	4.032%
12	13.103	13.039	13.164	BB	187529	2414000	83.41%	4.609%
13	13.688	13.620	13.752	BB	190590	2390568	82.60%	4.564%
14	14.790	14.720	14.859	BB	178398	2369147	81.86%	4.523%
15	15.809	15.749	15.875	BB	181908	2326770	80.40%	4.442%
16	16.757	16.670	16.834	BB	173028	2297199	79.37%	4.386%
17	17.643	17.582	17.709	BB	172064	2353840	81.33%	4.494%
18	18.474	18.412	18.537	BB	160280	2301371	79.52%	4.394%
19	19.258	19.065	19.320	BB	140731	2044186	70.63%	3.903%
20	19.996	19.949	20.062	BB	120232	1784212	61.65%	3.406%
21	20.719	20.647	20.794	BB	100162	1698313	58.68%	3.242%
22	21.604	21.519	21.695	BB	70657	1661417	57.41%	3.172%
Sum of corrected areas:						52380600		

Aliphatic EPH 102324.M Wed Oct 23 18:53:21 2024

Initial Calibration Report for SequenceID : FE110724AL

AreaCount

Parameter Range	FE051075.D	FE051076.D	FE051077.D	FE051078.D	FE051079.D	
Aliphatic C9-C12	40063780.000	21137224.000	8264114.000	4331556.000	2144887.000	
Aliphatic C12-C16	26499750.000	14057359.000	5586564.000	2913018.000	1447905.000	
Aliphatic C16-C21	38600621.000	20520000.000	8195408.000	4299352.000	2152043.000	
Aliphatic C21-C28	49929068.000	26341355.000	10608674.000	5580376.000	2822212.000	
Aliphatic C28-C40	66927536.000	37036837.000	15654323.000	8140009.000	4278617.000	
Aliphatic EPH	222020755.000	119092775.000	48309083.000	25264311.000	12845664.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	139914.7319996	3.111				
Aliphatic C12-C16	140635.568	3.722				
Aliphatic C16-C21	137768.027333	4.421				
Aliphatic C21-C28	133951.574	4.9				
Aliphatic C28-C40	128748.4183328	9.249				
Aliphatic EPH	134589.7899996	5.649				

Concentration

Parameter Range	FE051075.D	FE051076.D	FE051077.D	FE051078.D	FE051079.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	FE051075.D	FE051076.D	FE051077.D	FE051078.D	FE051079.D	
Aliphatic C9-C12	133545.933333	140914.826666	137735.233333	144385.200000	142992.466666	
Aliphatic C12-C16	132498.750000	140573.590000	139664.100000	145650.900000	144790.500000	
Aliphatic C16-C21	128668.736666	136800.000000	136590.133333	143311.733333	143469.533333	

Initial Calibration Report for SequenceID : FE110724AL

Aliphatic C21-C28	124822.670000	131706.775000	132608.425000	139509.400000	141110.600000	
Aliphatic C28-C40	111545.893333	123456.123333	130452.691666	135666.816666	142620.566666	
Aliphatic EPH	123344.863888	132325.305555	134191.897222	140357.283333	142729.600000	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
 Data File : FE051075.D
 Signal(s) : FID1B.ch
 Acq On : 06 Nov 2024 16:52
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Nov 07 04:49:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:48:22 2024
 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)	11.858	14049939	94.663 ug/ml
Spiked Amount 50.000		Recovery =	189.33%
12) S 1-chlorooctadecane (S...	13.289	10794010	95.789 ug/ml
Spiked Amount 50.000		Recovery =	191.58%
Target Compounds			
1) T n-Nonane (C9)	3.241	13236910	97.465 ug/ml
2) T n-Decane (C10)	4.493	13428166	97.423 ug/ml
3) T A~Naphthalene (C11.7)	6.204	13623683	102.538 ug/ml
4) T n-Dodecane (C12)	6.663	13398704	96.006 ug/ml
5) T A~2-methylnaphthalene...	7.301	12915436	104.141 ug/ml
6) T n-Tetradecane (C14)	8.489	13135139	94.955 ug/ml
7) T n-Hexadecane (C16)	10.095	13364611	94.786 ug/ml
8) T n-Octadecane (C18)	11.537	13365220	94.326 ug/ml
10) T n-Eicosane (C20)	12.843	12736356	93.902 ug/ml
11) T n-Heneicosane (C21)	13.454	12499045	94.372 ug/ml
13) T n-Docosane (C22)	14.040	12430842	94.615 ug/ml
14) T n-Tetracosane (C24)	15.141	12455204	94.910 ug/ml
15) T n-Hexacosane (C26)	16.161	12499744	94.189 ug/ml
16) T n-Octacosane (C28)	17.109	12543278	92.838 ug/ml
17) T n-Tricontane (C30)	17.997	13023156	90.119 ug/ml
18) T n-Dotriacontane (C32)	18.828	13000983	87.779 ug/ml
19) T n-Tetratriacontane (C34)	19.610	11901355	88.615 ug/ml
20) T n-Hexatriacontane (C36)	20.348	10625484	88.459 ug/ml
21) T n-Octatriacontane (C38)	21.071	9770056	84.148 ug/ml
22) T n-Tetracontane (C40)	21.951	8606502	71.980 ug/ml

(f)=RT Delta > 1/2 Window

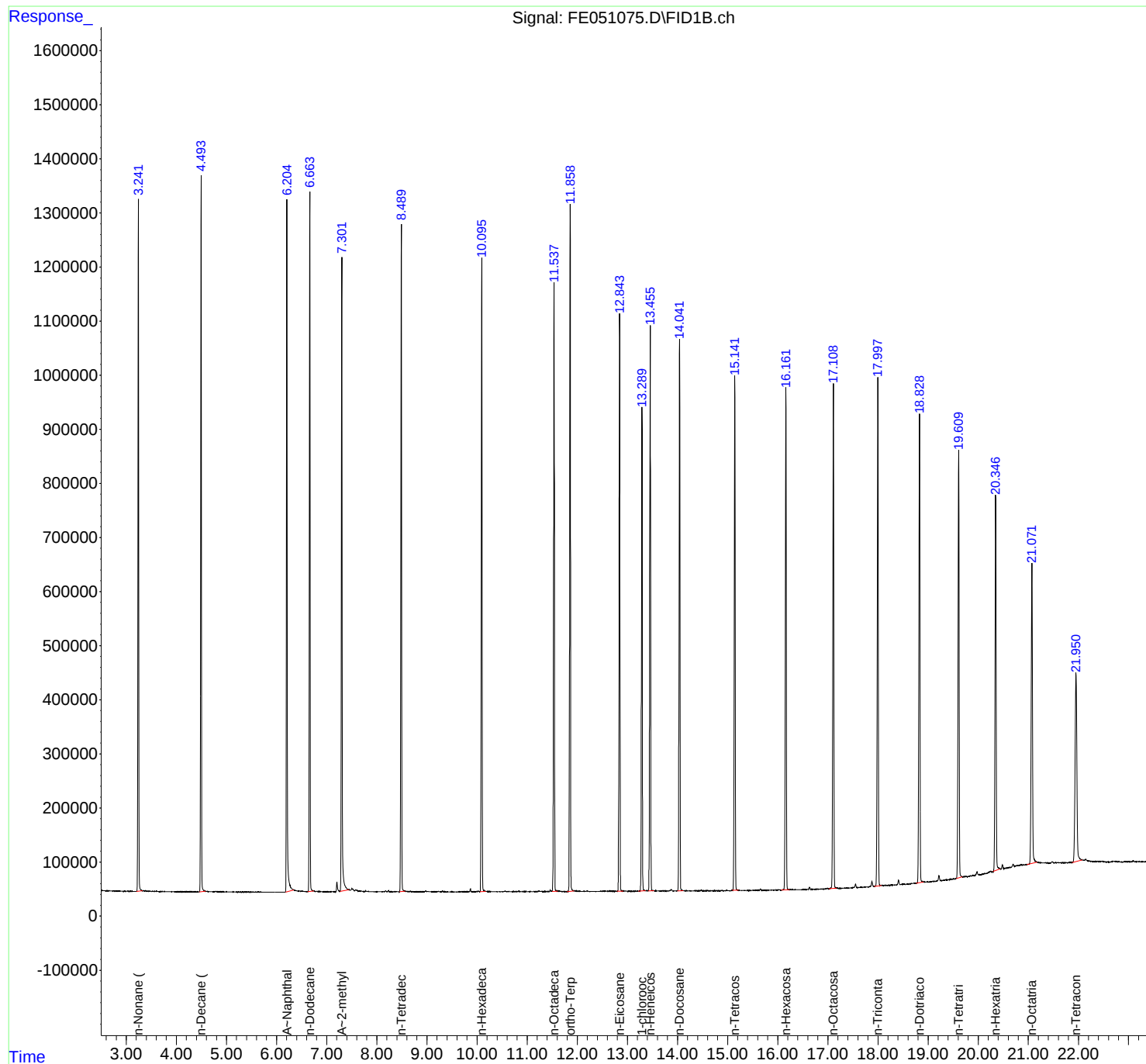
(m)=manual int.

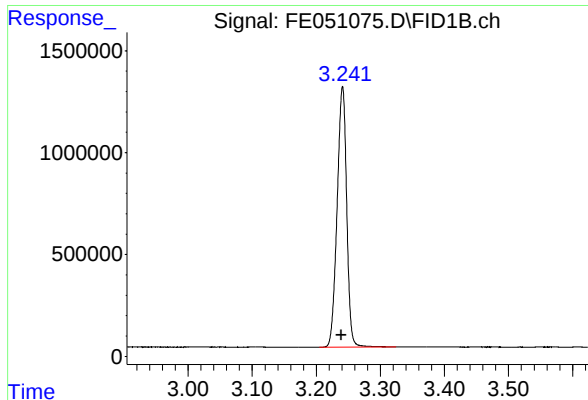
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051075.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 16:52
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 07 04:49:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:48:22 2024
Response via : Initial Calibration
Integrator: ChemStation

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

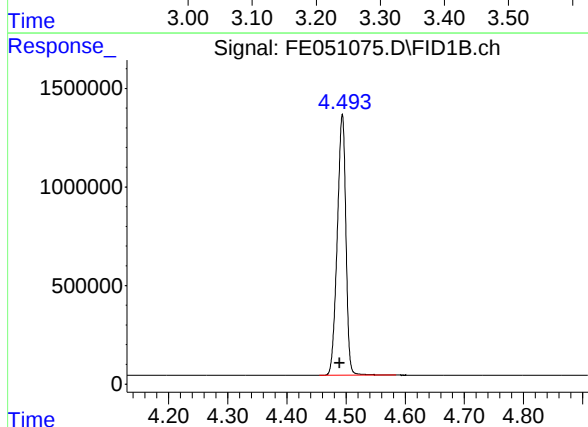




#1 n-Nonane (C9)

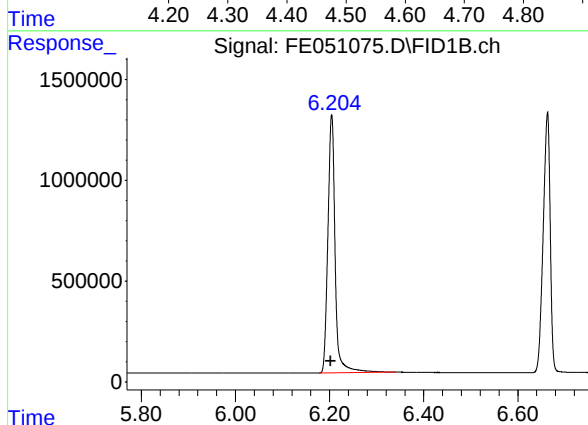
R.T.: 3.241 min
Delta R.T.: 0.002 min
Response: 13236910
Conc: 97.47 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



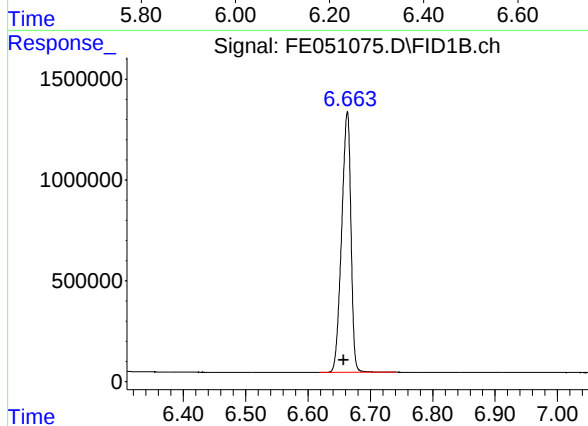
#2 n-Decane (C10)

R.T.: 4.493 min
Delta R.T.: 0.004 min
Response: 13428166
Conc: 97.42 ug/ml



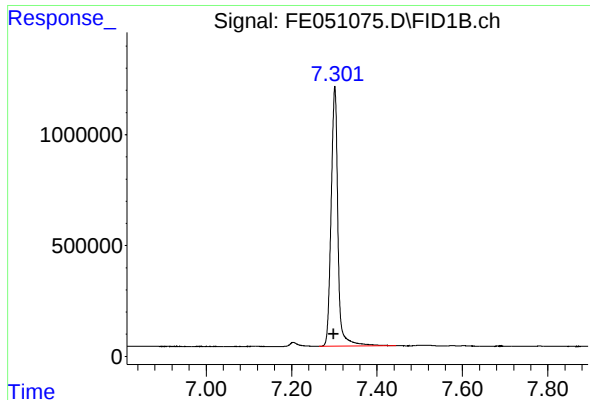
#3 A~Naphthalene (C11.7)

R.T.: 6.204 min
Delta R.T.: 0.002 min
Response: 13623683
Conc: 102.54 ug/ml



#4 n-Dodecane (C12)

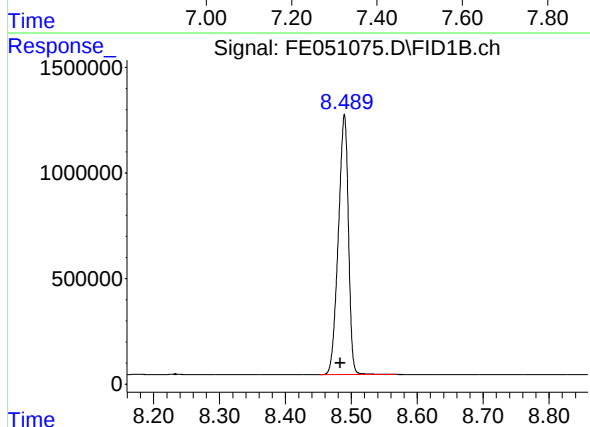
R.T.: 6.663 min
Delta R.T.: 0.005 min
Response: 13398704
Conc: 96.01 ug/ml



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

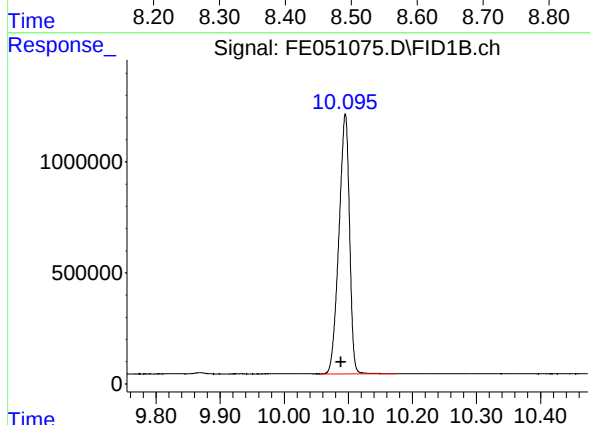
R.T.: 7.301 min
Delta R.T.: 0.003 min
Response: 12915436
Conc: 104.14 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



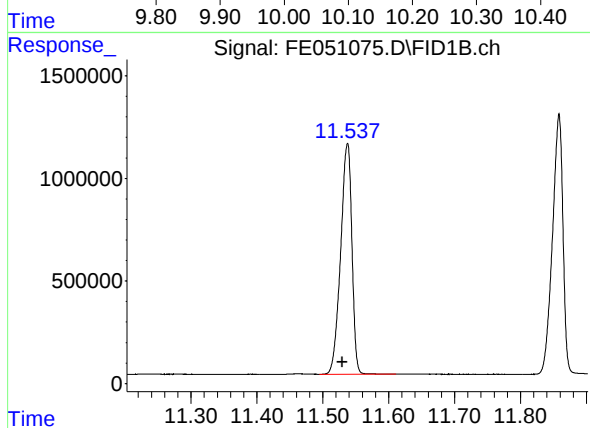
#6 n-Tetradecane (C14)

R.T.: 8.489 min
Delta R.T.: 0.006 min
Response: 13135139
Conc: 94.96 ug/ml



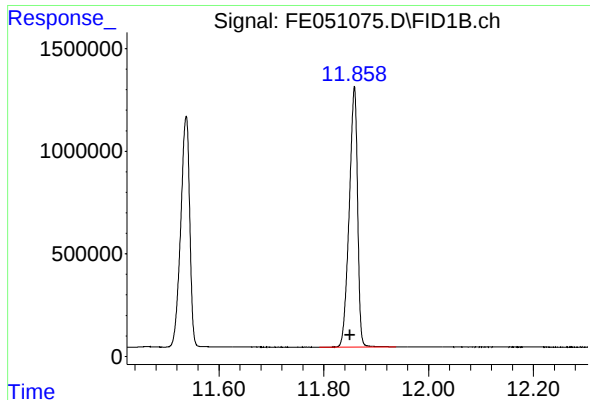
#7 n-Hexadecane (C16)

R.T.: 10.095 min
Delta R.T.: 0.006 min
Response: 13364611
Conc: 94.79 ug/ml



#8 n-Octadecane (C18)

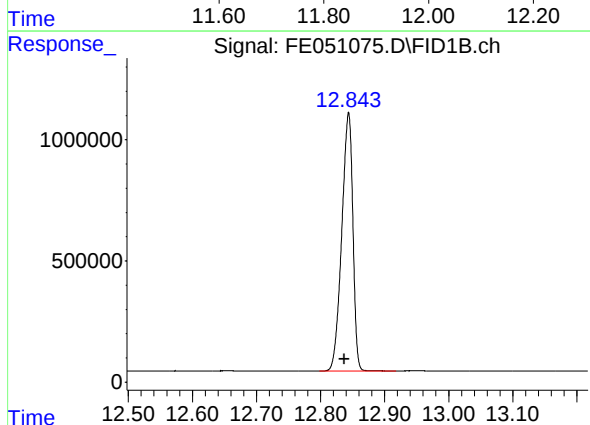
R.T.: 11.537 min
Delta R.T.: 0.007 min
Response: 13365220
Conc: 94.33 ug/ml



#9 ortho-Terphenyl (SURR)

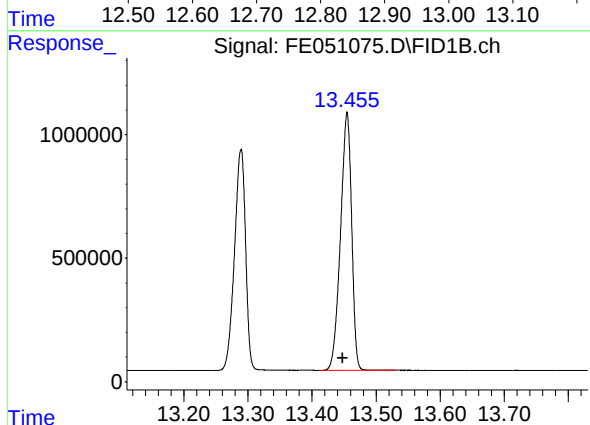
R.T.: 11.858 min
Delta R.T.: 0.007 min
Response: 14049939
Conc: 94.66 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



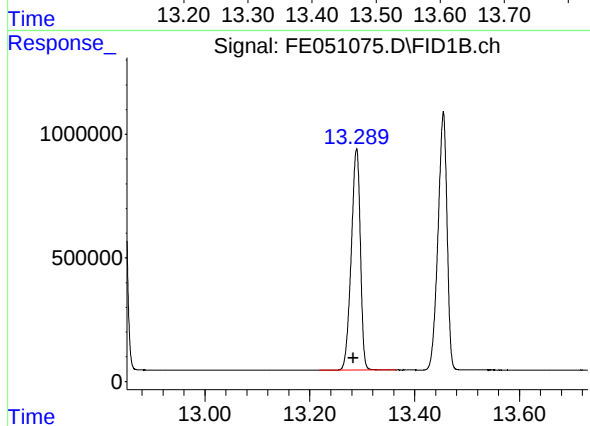
#10 n-Eicosane (C20)

R.T.: 12.843 min
Delta R.T.: 0.006 min
Response: 12736356
Conc: 93.90 ug/ml



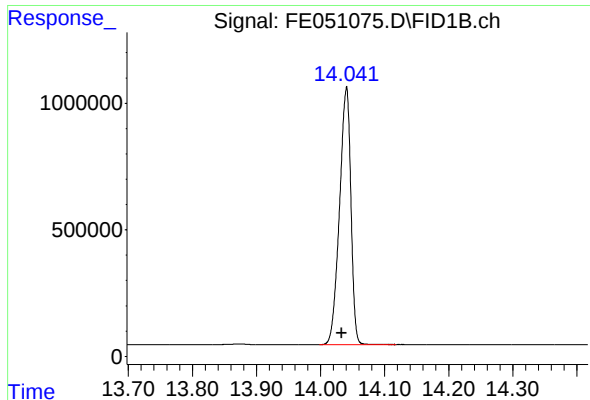
#11 n-Heneicosane (C21)

R.T.: 13.454 min
Delta R.T.: 0.007 min
Response: 12499045
Conc: 94.37 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.289 min
Delta R.T.: 0.006 min
Response: 10794010
Conc: 95.79 ug/ml



#13 n-Docosane (C22)

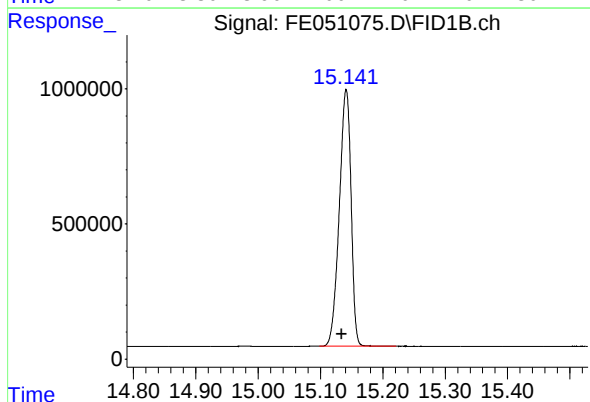
R.T.: 14.040 min
Delta R.T.: 0.007 min
Response: 12430842
Conc: 94.61 ug/ml

Instrument :

FID_E

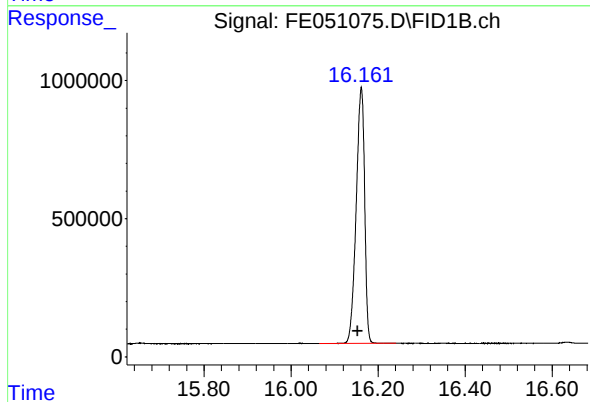
ClientSampleId :

100 PPM ALIPHATIC HC STD1



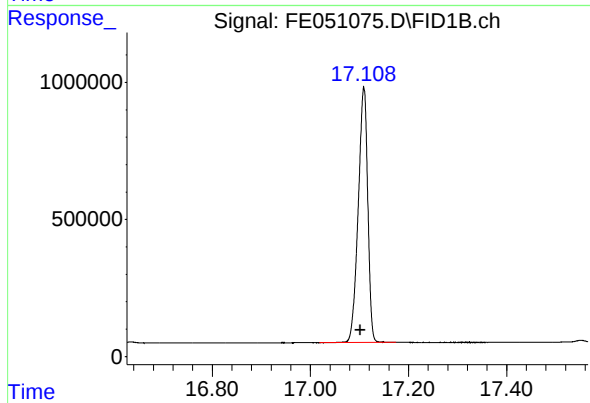
#14 n-Tetracosane (C24)

R.T.: 15.141 min
Delta R.T.: 0.007 min
Response: 12455204
Conc: 94.91 ug/ml



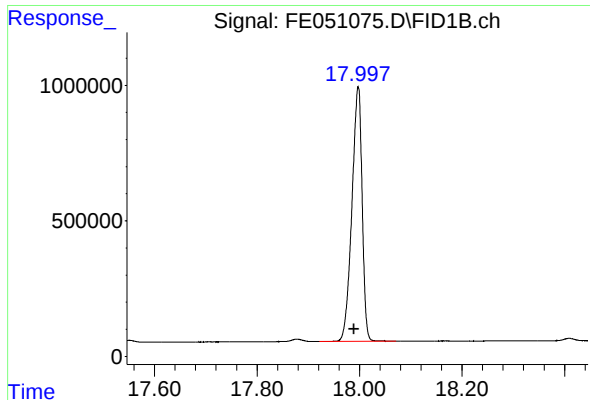
#15 n-Hexacosane (C26)

R.T.: 16.161 min
Delta R.T.: 0.007 min
Response: 12499744
Conc: 94.19 ug/ml



#16 n-Octacosane (C28)

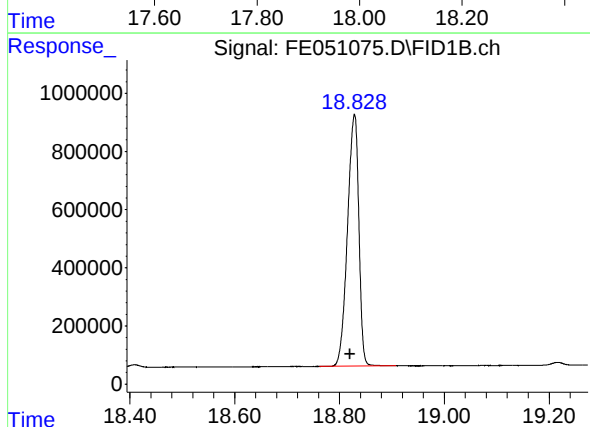
R.T.: 17.109 min
Delta R.T.: 0.007 min
Response: 12543278
Conc: 92.84 ug/ml



#17 n-Tricontane (C30)

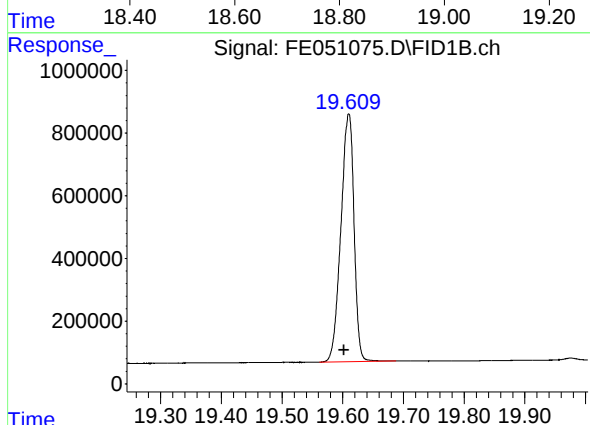
R.T.: 17.997 min
Delta R.T.: 0.008 min
Response: 13023156
Conc: 90.12 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



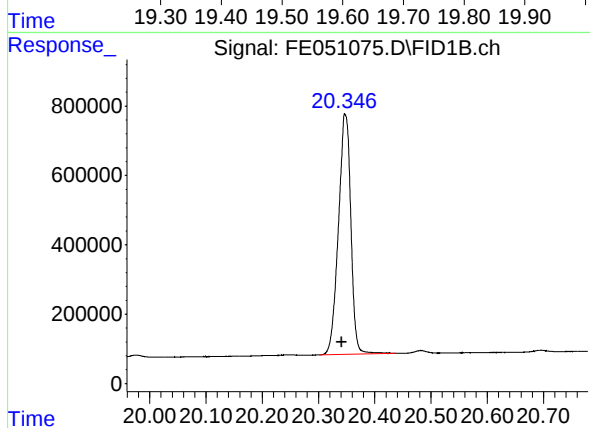
#18 n-Dotriacontane (C32)

R.T.: 18.828 min
Delta R.T.: 0.008 min
Response: 13000983
Conc: 87.78 ug/ml



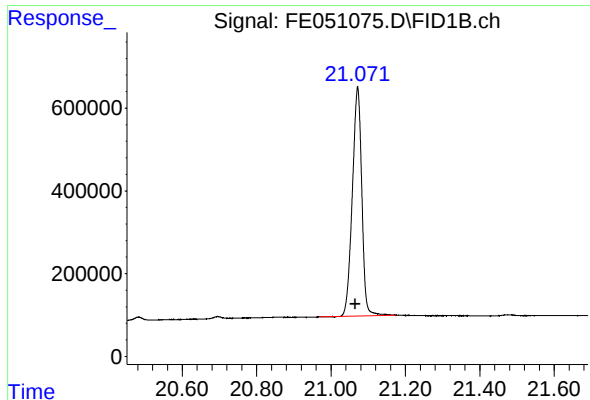
#19 n-Tetatriacontane (C34)

R.T.: 19.610 min
Delta R.T.: 0.007 min
Response: 11901355
Conc: 88.62 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.348 min
Delta R.T.: 0.006 min
Response: 10625484
Conc: 88.46 ug/ml



#21 n-Octatriacontane (C38)

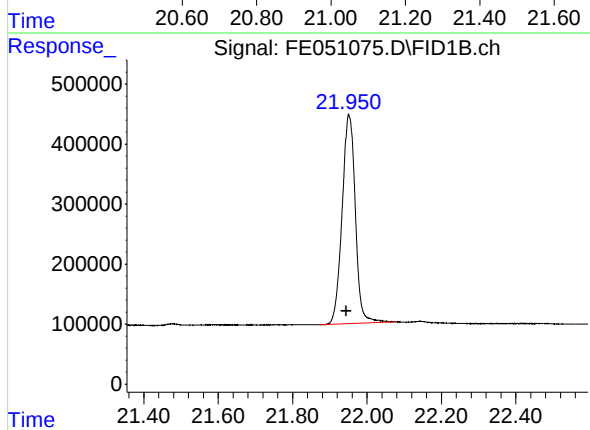
R.T.: 21.071 min
Delta R.T.: 0.006 min
Response: 9770056
Conc: 84.15 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.951 min
Delta R.T.: 0.007 min
Response: 8606502
Conc: 71.98 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051075.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 16:52
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.241	3.204	3.324	BB	1282476	13236910	94.21%	4.842%
2	4.493	4.454	4.584	BB	1335622	13428166	95.57%	4.911%
3	6.204	6.178	6.341	BB	1283378	13623683	96.97%	4.983%
4	6.663	6.618	6.741	BB	1272231	13398704	95.36%	4.901%
5	7.301	7.264	7.444	BB	1171648	12915436	91.93%	4.724%
6	8.489	8.451	8.568	BB	1213325	13135139	93.49%	4.804%
7	10.095	10.054	10.174	BB	1165575	13364611	95.12%	4.888%
8	11.537	11.494	11.611	BB	1132758	13365220	95.13%	4.888%
9	11.858	11.791	11.938	BB	1262734	14049939	100.00%	5.139%
10	12.843	12.798	12.918	BB	1073167	12736356	90.65%	4.658%
11	13.289	13.218	13.364	BB	892244	10794010	76.83%	3.948%
12	13.454	13.411	13.531	BB	1041507	12499045	88.96%	4.572%
13	14.040	13.998	14.118	BB	1025677	12430842	88.48%	4.547%
14	15.141	15.098	15.221	BB	952246	12455204	88.65%	4.556%
15	16.161	16.064	16.241	BB	926366	12499744	88.97%	4.572%
16	17.109	17.018	17.174	BB	929656	12543278	89.28%	4.588%
17	17.997	17.921	18.071	BB	946288	13023156	92.69%	4.763%
18	18.828	18.761	18.908	BB	864503	13000983	92.53%	4.755%
19	19.610	19.561	19.688	BB	798179	11901355	84.71%	4.353%
20	20.348	20.301	20.438	BB	692880	10625484	75.63%	3.886%
21	21.071	20.968	21.174	BB	553674	9770056	69.54%	3.573%
22	21.951	21.871	22.078	BB	348067	8606502	61.26%	3.148%
Sum of corrected areas:						273403822		

Aliphatic EPH 110724.M Thu Nov 07 06:31:12 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
 Data File : FE051076.D
 Signal(s) : FID1B.ch
 Acq On : 06 Nov 2024 17:22
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Nov 07 04:53:52 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:53:08 2024
 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)	11.854	7439471	50.140 ug/ml
Spiked Amount 50.000		Recovery =	100.28%
12) S 1-chlorooctadecane (S...	13.285	5687735	50.749 ug/ml
Spiked Amount 50.000		Recovery =	101.50%
Target Compounds			
1) T n-Nonane (C9)	3.240	6972278	51.044 ug/ml
2) T n-Decane (C10)	4.491	7075762	51.165 ug/ml
3) T A~Naphthalene (C11.7)	6.202	7085104	55.435 ug/ml
4) T n-Dodecane (C12)	6.659	7089184	50.860 ug/ml
5) T A~2-methylnaphthalene...	7.298	6675931	55.258 ug/ml
6) T n-Tetradecane (C14)	8.486	6961580	50.535 ug/ml
7) T n-Hexadecane (C16)	10.091	7095779	50.608 ug/ml
8) T n-Octadecane (C18)	11.533	7120474	50.469 ug/ml
10) T n-Eicosane (C20)	12.840	6769951	49.978 ug/ml
11) T n-Heneicosane (C21)	13.451	6629575	50.154 ug/ml
13) T n-Docosane (C22)	14.035	6576920	50.005 ug/ml
14) T n-Tetracosane (C24)	15.136	6563335	49.928 ug/ml
15) T n-Hexacosane (C26)	16.156	6579401	49.536 ug/ml
16) T n-Octacosane (C28)	17.105	6621699	48.838 ug/ml
17) T n-Tricontane (C30)	17.991	6913369	47.530 ug/ml
18) T n-Dotriacontane (C32)	18.823	6937205	46.458 ug/ml
19) T n-Tetratriacontane (C34)	19.605	6360559	47.290 ug/ml
20) T n-Hexatriacontane (C36)	20.344	5735761	48.355 ug/ml
21) T n-Octatriacontane (C38)	21.068	5583007	49.749 ug/ml
22) T n-Tetracontane (C40)	21.949	5506936	50.466 ug/ml

(f)=RT Delta > 1/2 Window

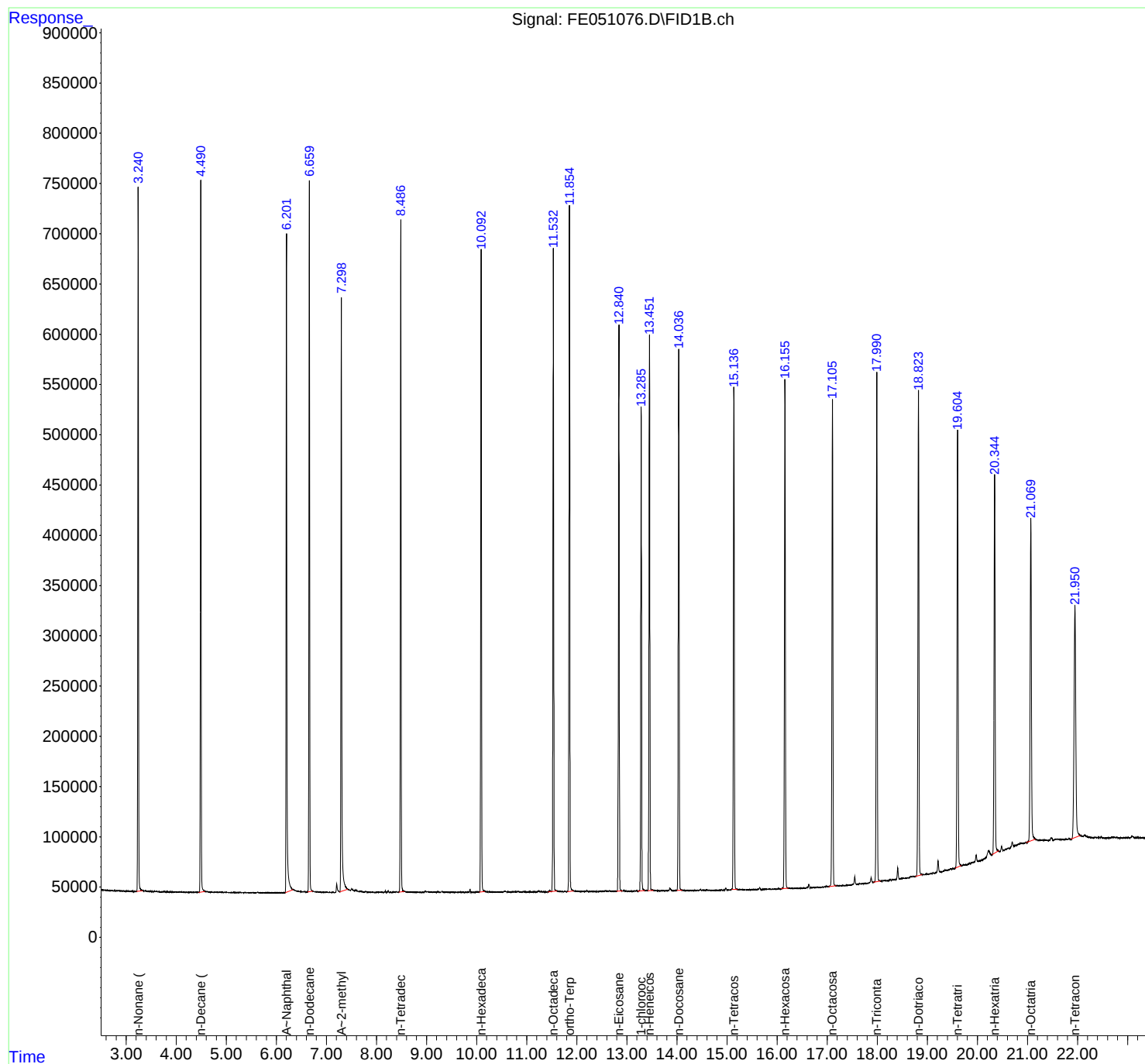
(m)=manual int.

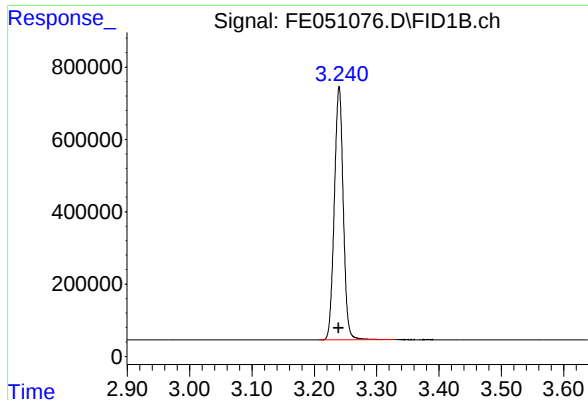
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051076.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:22
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 07 04:53:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:53:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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

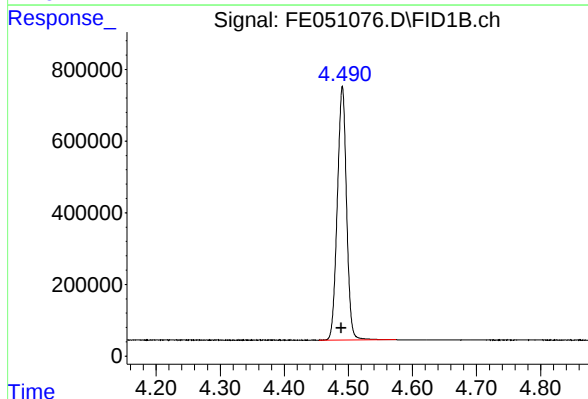




#1 n-Nonane (C9)

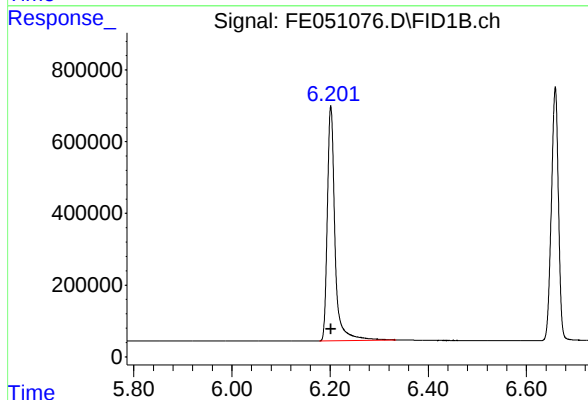
R.T.: 3.240 min
Delta R.T.: 0.000 min
Response: 6972278
Conc: 51.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



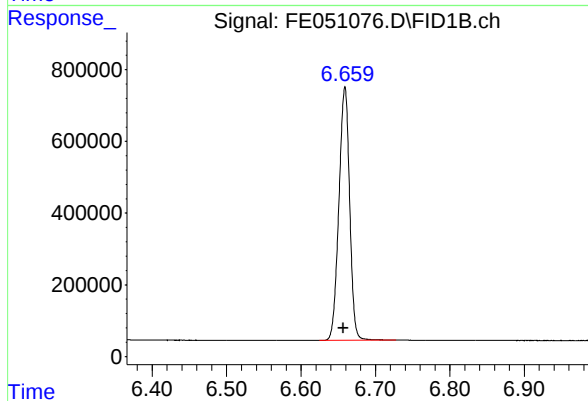
#2 n-Decane (C10)

R.T.: 4.491 min
Delta R.T.: 0.001 min
Response: 7075762
Conc: 51.17 ug/ml



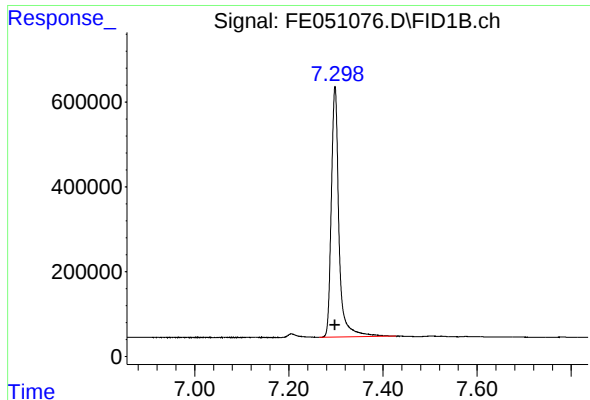
#3 A~Naphthalene (C11.7)

R.T.: 6.202 min
Delta R.T.: 0.000 min
Response: 7085104
Conc: 55.43 ug/ml



#4 n-Dodecane (C12)

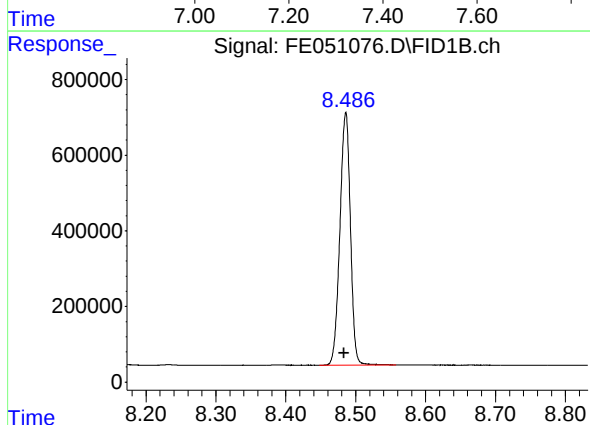
R.T.: 6.659 min
Delta R.T.: 0.002 min
Response: 7089184
Conc: 50.86 ug/ml



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

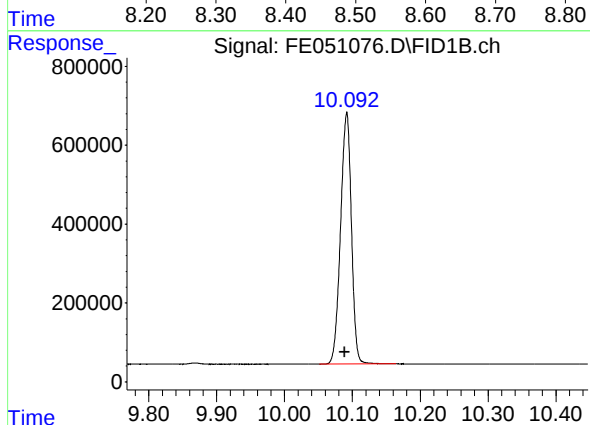
R.T.: 7.298 min
Delta R.T.: 0.000 min
Response: 6675931
Conc: 55.26 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



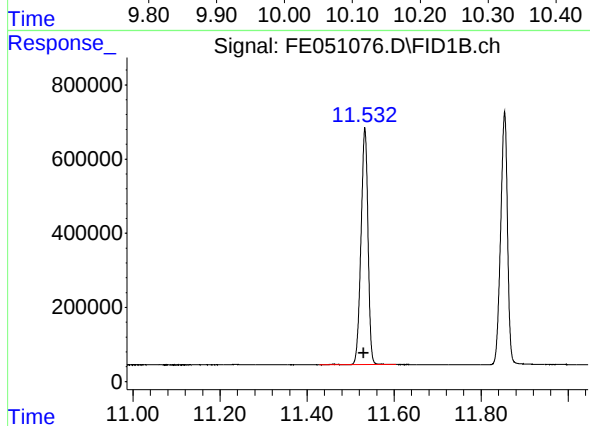
#6 n-Tetradecane (C14)

R.T.: 8.486 min
Delta R.T.: 0.002 min
Response: 6961580
Conc: 50.54 ug/ml



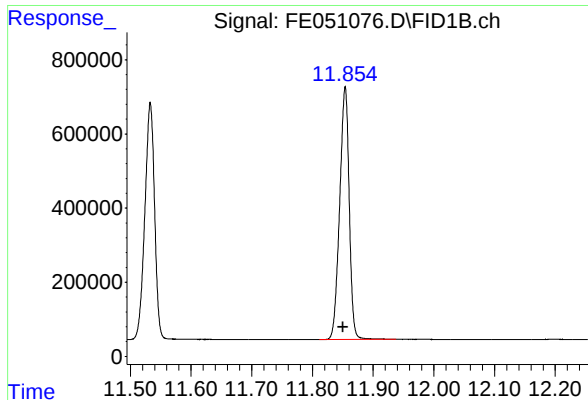
#7 n-Hexadecane (C16)

R.T.: 10.091 min
Delta R.T.: 0.003 min
Response: 7095779
Conc: 50.61 ug/ml



#8 n-Octadecane (C18)

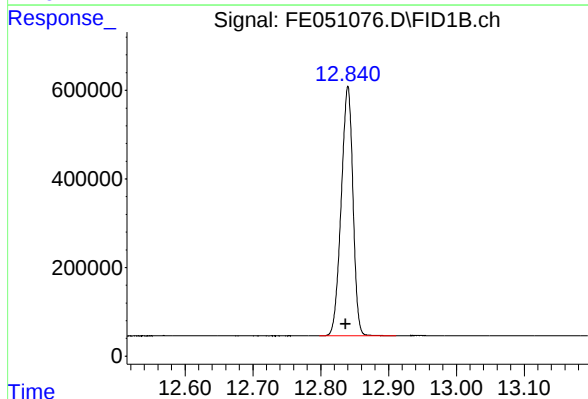
R.T.: 11.533 min
Delta R.T.: 0.003 min
Response: 7120474
Conc: 50.47 ug/ml



#9 ortho-Terphenyl (SURR)

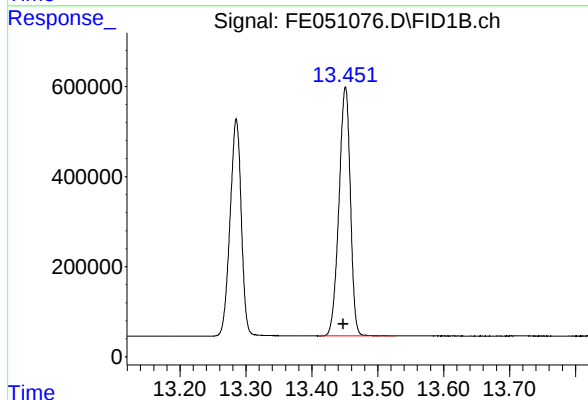
R.T.: 11.854 min
Delta R.T.: 0.003 min
Response: 7439471
Conc: 50.14 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



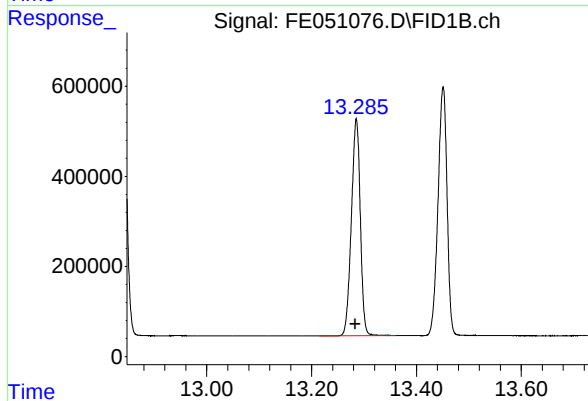
#10 n-Eicosane (C20)

R.T.: 12.840 min
Delta R.T.: 0.003 min
Response: 6769951
Conc: 49.98 ug/ml



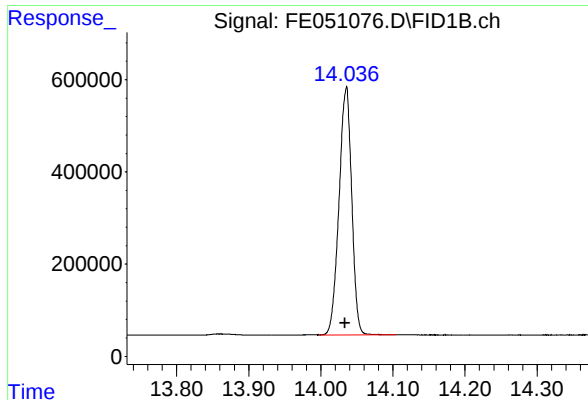
#11 n-Heneicosane (C21)

R.T.: 13.451 min
Delta R.T.: 0.003 min
Response: 6629575
Conc: 50.15 ug/ml



#12 1-chlorooctadecane (SURR)

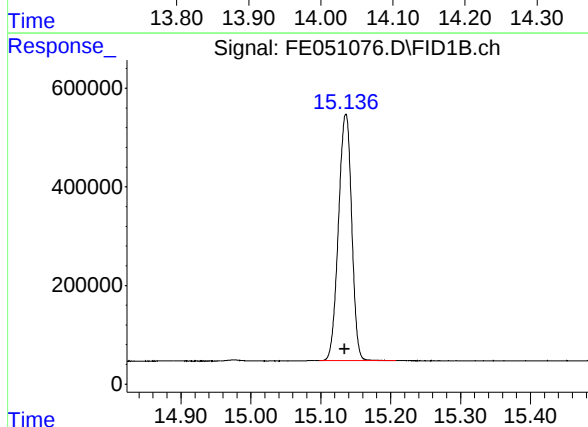
R.T.: 13.285 min
Delta R.T.: 0.002 min
Response: 5687735
Conc: 50.75 ug/ml



#13 n-Docosane (C22)

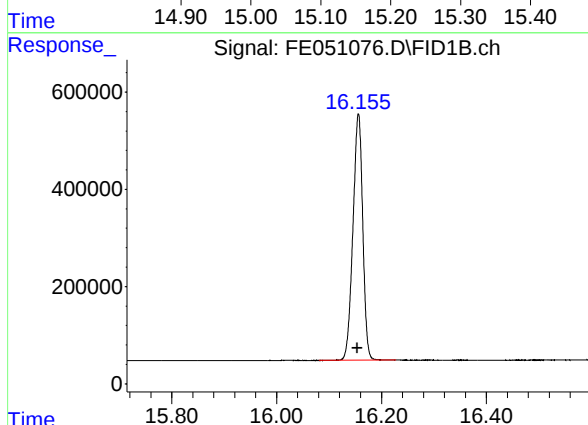
R.T.: 14.035 min
Delta R.T.: 0.002 min
Response: 6576920
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



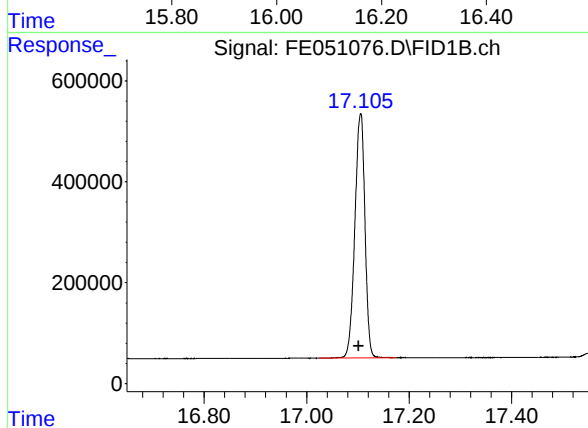
#14 n-Tetracosane (C24)

R.T.: 15.136 min
Delta R.T.: 0.001 min
Response: 6563335
Conc: 49.93 ug/ml



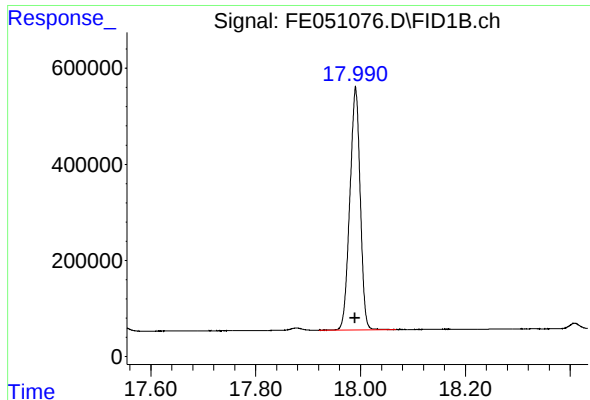
#15 n-Hexacosane (C26)

R.T.: 16.156 min
Delta R.T.: 0.002 min
Response: 6579401
Conc: 49.54 ug/ml



#16 n-Octacosane (C28)

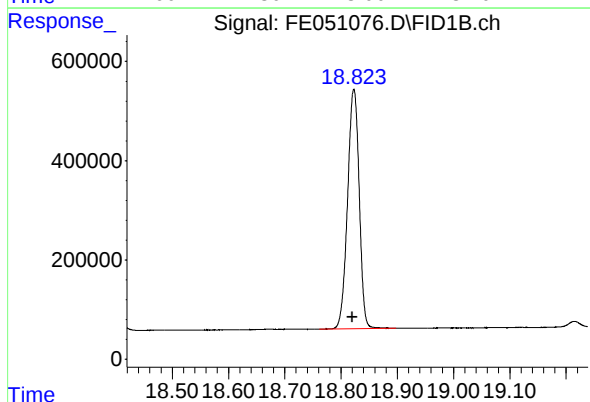
R.T.: 17.105 min
Delta R.T.: 0.003 min
Response: 6621699
Conc: 48.84 ug/ml



#17 n-Tricontane (C30)

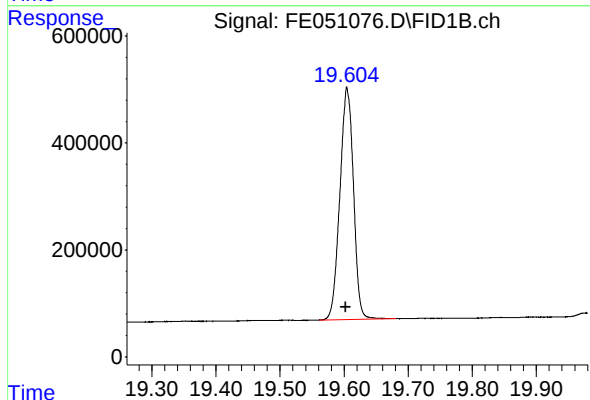
R.T.: 17.991 min
Delta R.T.: 0.001 min
Response: 6913369
Conc: 47.53 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



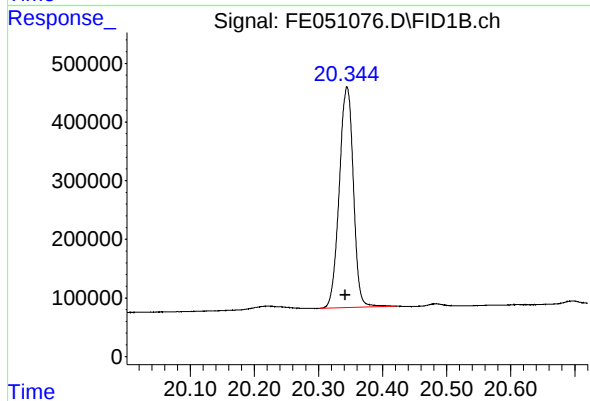
#18 n-Dotriacontane (C32)

R.T.: 18.823 min
Delta R.T.: 0.003 min
Response: 6937205
Conc: 46.46 ug/ml



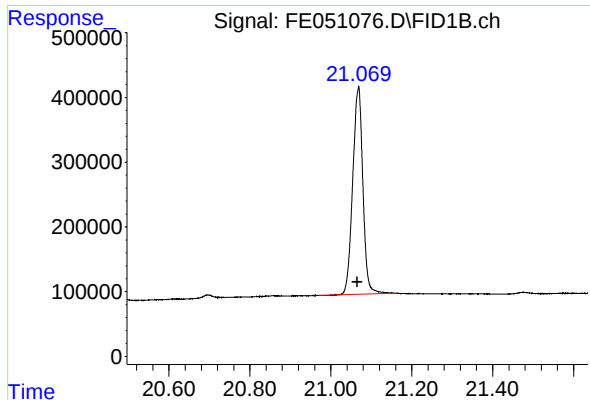
#19 n-Tetatriacontane (C34)

R.T.: 19.605 min
Delta R.T.: 0.003 min
Response: 6360559
Conc: 47.29 ug/ml



#20 n-Hexatriacontane (C36)

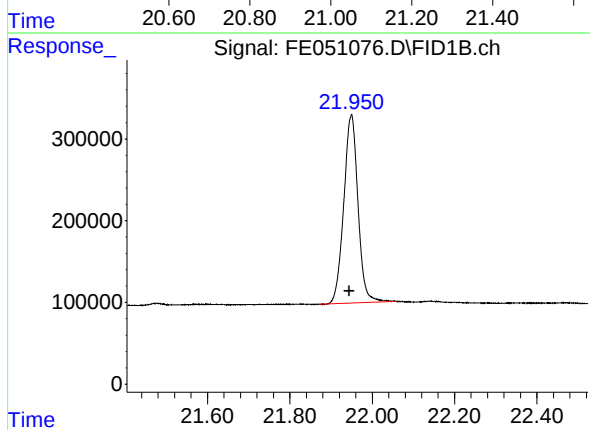
R.T.: 20.344 min
Delta R.T.: 0.003 min
Response: 5735761
Conc: 48.36 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.068 min
Delta R.T.: 0.003 min
Response: 5583007
Conc: 49.75 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.949 min
Delta R.T.: 0.005 min
Response: 5506936
Conc: 50.47 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051076.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:22
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.240	3.208	3.331	BB	702634	6972278	93.72%	4.776%
2	4.491	4.454	4.574	BB	709280	7075762	95.11%	4.847%
3	6.202	6.178	6.334	BB	654061	7085104	95.24%	4.853%
4	6.659	6.624	6.728	BB	700175	7089184	95.29%	4.856%
5	7.298	7.264	7.428	BB	589667	6675931	89.74%	4.573%
6	8.486	8.448	8.558	BB	661536	6961580	93.58%	4.769%
7	10.091	10.051	10.164	BB	633804	7095779	95.38%	4.861%
8	11.533	11.428	11.604	BB	635687	7120474	95.71%	4.878%
9	11.854	11.811	11.938	BB	683921	7439471	100.00%	5.096%
10	12.840	12.798	12.911	BB	565517	6769951	91.00%	4.638%
11	13.285	13.214	13.361	BB	479883	5687735	76.45%	3.896%
12	13.451	13.411	13.528	BB	554079	6629575	89.11%	4.541%
13	14.035	13.998	14.104	BB	530601	6576920	88.41%	4.505%
14	15.136	15.098	15.208	BB	499902	6563335	88.22%	4.496%
15	16.156	16.081	16.228	BB	509123	6579401	88.44%	4.507%
16	17.105	17.024	17.174	BB	483260	6621699	89.01%	4.536%
17	17.991	17.921	18.068	BB	504839	6913369	92.93%	4.736%
18	18.823	18.761	18.898	BB	484107	6937205	93.25%	4.752%
19	19.605	19.561	19.681	BB	433514	6360559	85.50%	4.357%
20	20.344	20.301	20.421	BB	376583	5735761	77.10%	3.929%
21	21.068	20.971	21.161	BB	317963	5583007	75.05%	3.824%
22	21.949	21.871	22.058	BB	229126	5506936	74.02%	3.772%
Sum of corrected areas:						145981016		

Aliphatic EPH 110724.M Thu Nov 07 06:39:47 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
 Data File : FE051077.D
 Signal(s) : FID1B.ch
 Acq On : 06 Nov 2024 17:52
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Nov 07 04:47:28 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:46:41 2024
 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)	11.850	2968399	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.283	2253701	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.239	2716227	20.000 ug/ml
2) T n-Decane (C10)	4.489	2756662	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.202	2657285	20.000 ug/ml
4) T n-Dodecane (C12)	6.657	2791225	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.298	2480384	20.000 ug/ml
6) T n-Tetradecane (C14)	8.483	2766602	20.000 ug/ml
7) T n-Hexadecane (C16)	10.089	2819962	20.000 ug/ml
8) T n-Octadecane (C18)	11.530	2833843	20.000 ug/ml
10) T n-Eicosane (C20)	12.837	2712684	20.000 ug/ml
11) T n-Heneicosane (C21)	13.448	2648881	20.000 ug/ml
13) T n-Docosane (C22)	14.033	2627674	20.000 ug/ml
14) T n-Tetracosane (C24)	15.134	2624630	20.000 ug/ml
15) T n-Hexacosane (C26)	16.154	2654184	20.000 ug/ml
16) T n-Octacosane (C28)	17.102	2702186	20.000 ug/ml
17) T n-Tricontane (C30)	17.989	2890205	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.820	2962222	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.602	2686081	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.342	2402353	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.065	2322118	20.000 ug/ml
22) T n-Tetracontane (C40)	21.945	2391344	20.000 ug/ml

(f)=RT Delta > 1/2 Window

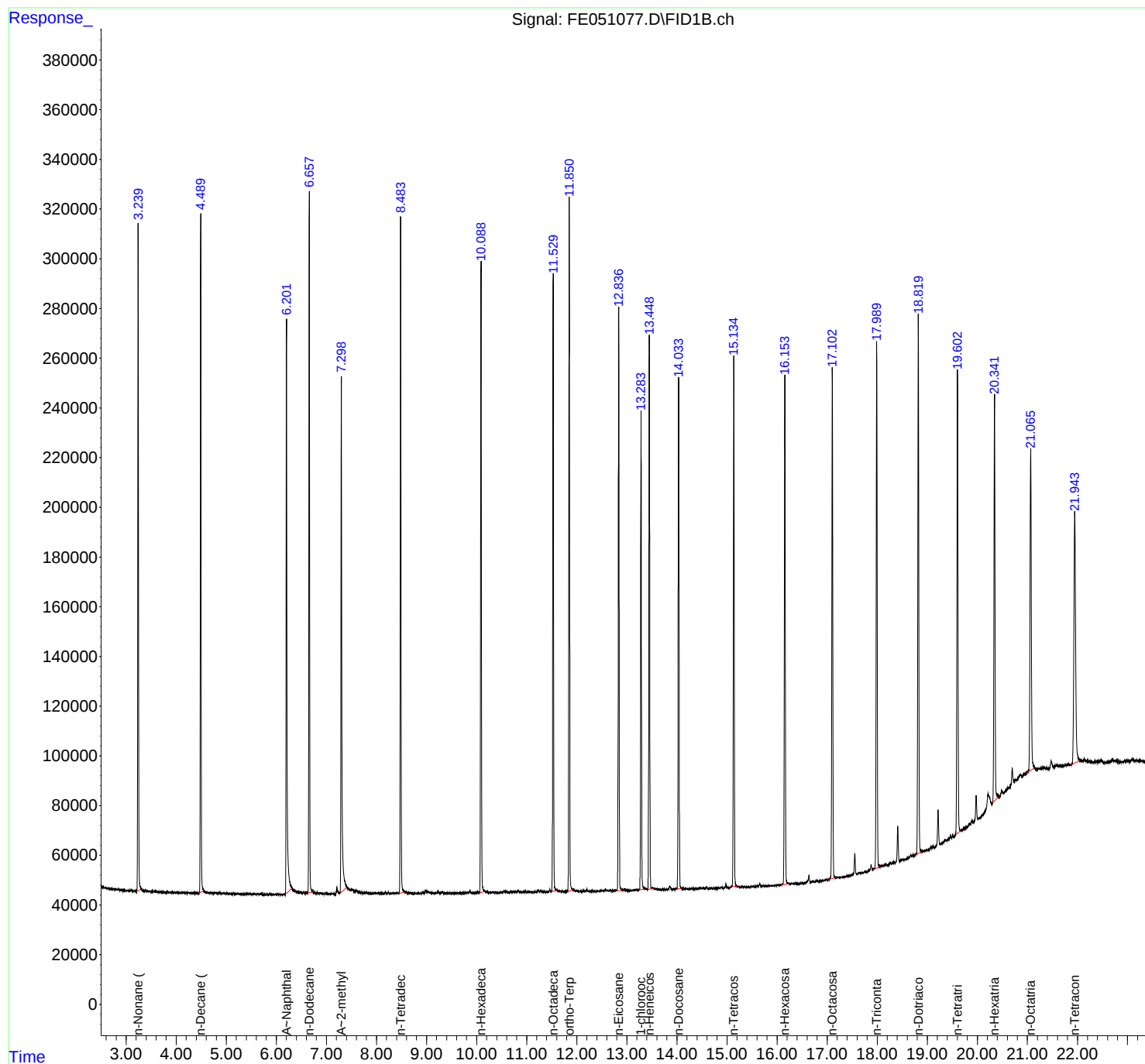
(m)=manual int.

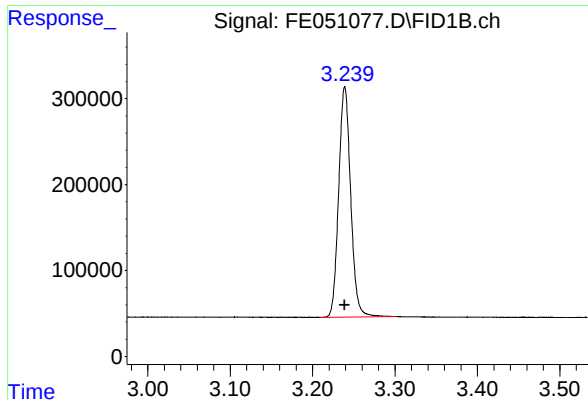
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051077.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:52
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 07 04:47:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

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

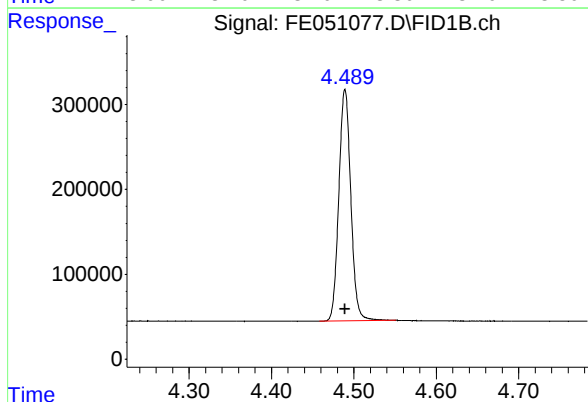




#1 n-Nonane (C9)

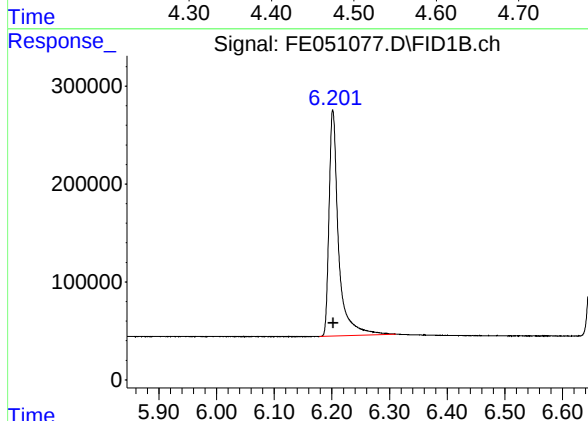
R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 2716227
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



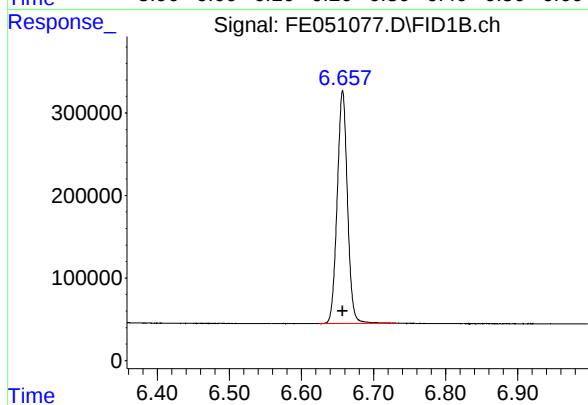
#2 n-Decane (C10)

R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 2756662
Conc: 20.00 ug/ml



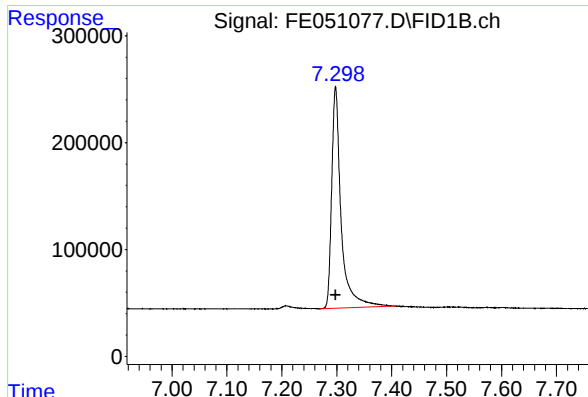
#3 A~Naphthalene (C11.7)

R.T.: 6.202 min
Delta R.T.: 0.000 min
Response: 2657285
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

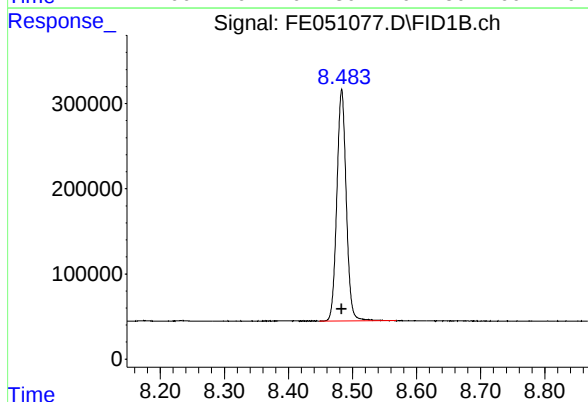
R.T.: 6.657 min
Delta R.T.: 0.000 min
Response: 2791225
Conc: 20.00 ug/ml



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

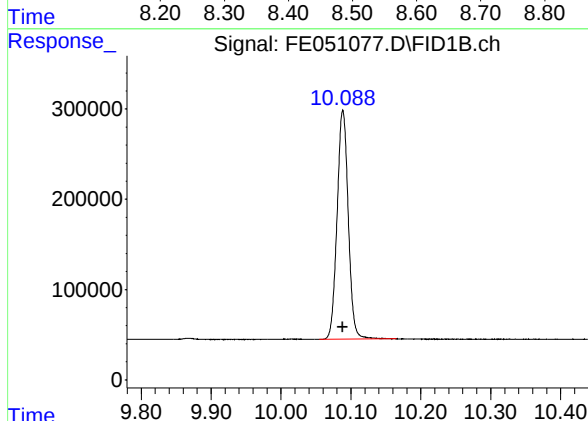
R.T.: 7.298 min
Delta R.T.: 0.000 min
Response: 2480384
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



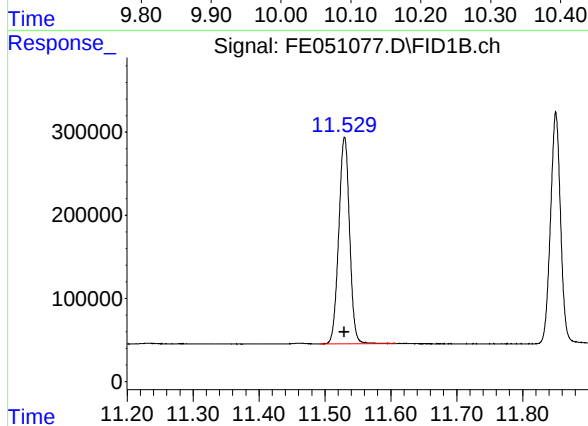
#6 n-Tetradecane (C14)

R.T.: 8.483 min
Delta R.T.: 0.000 min
Response: 2766602
Conc: 20.00 ug/ml



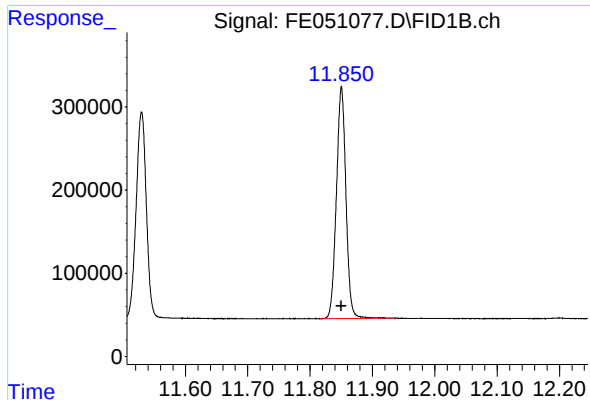
#7 n-Hexadecane (C16)

R.T.: 10.089 min
Delta R.T.: 0.000 min
Response: 2819962
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

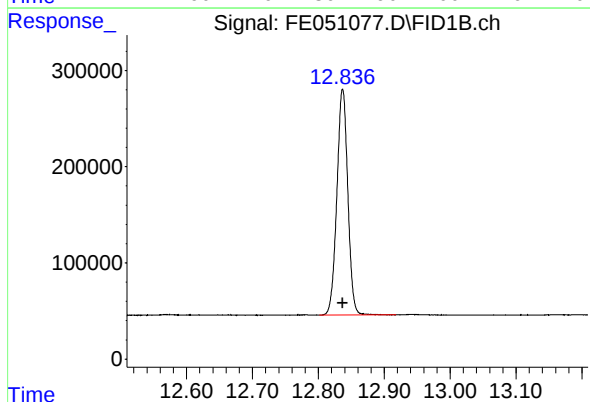
R.T.: 11.530 min
Delta R.T.: 0.000 min
Response: 2833843
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

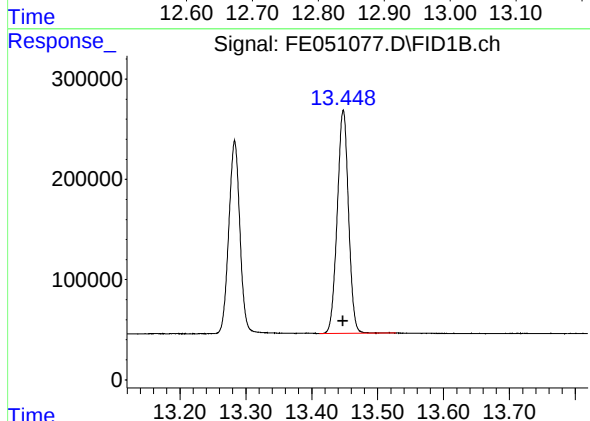
R.T.: 11.850 min
Delta R.T.: 0.000 min
Response: 2968399
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



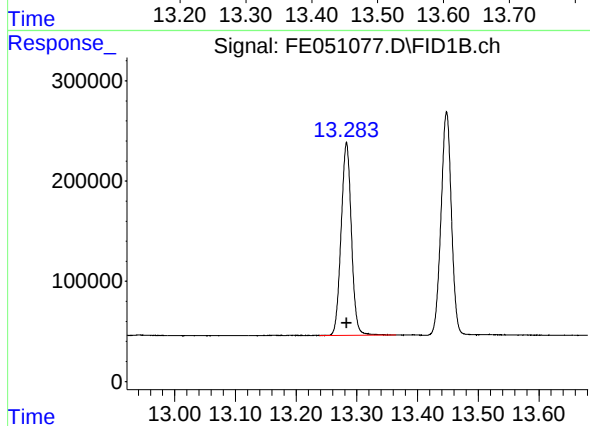
#10 n-Eicosane (C20)

R.T.: 12.837 min
Delta R.T.: 0.000 min
Response: 2712684
Conc: 20.00 ug/ml



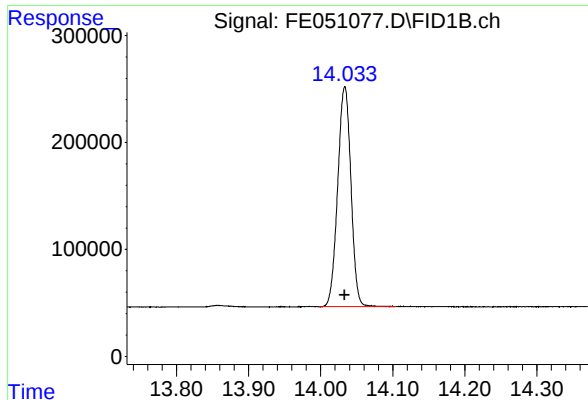
#11 n-Heneicosane (C21)

R.T.: 13.448 min
Delta R.T.: 0.000 min
Response: 2648881
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

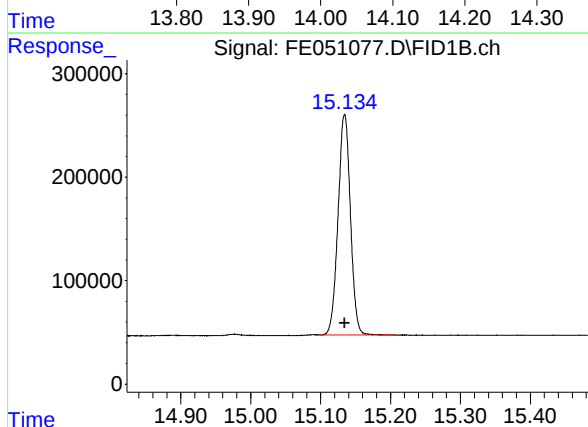
R.T.: 13.283 min
Delta R.T.: 0.000 min
Response: 2253701
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

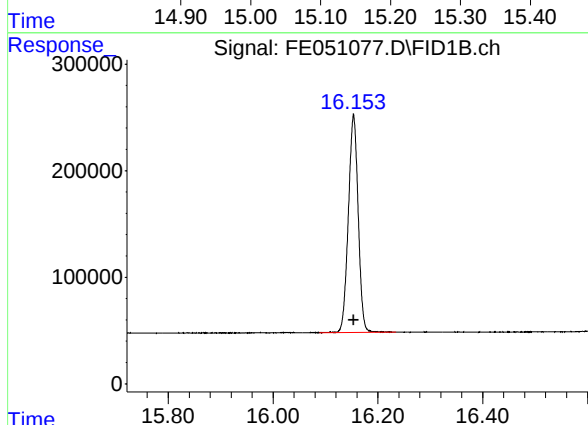
R.T.: 14.033 min
Delta R.T.: 0.000 min
Response: 2627674
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



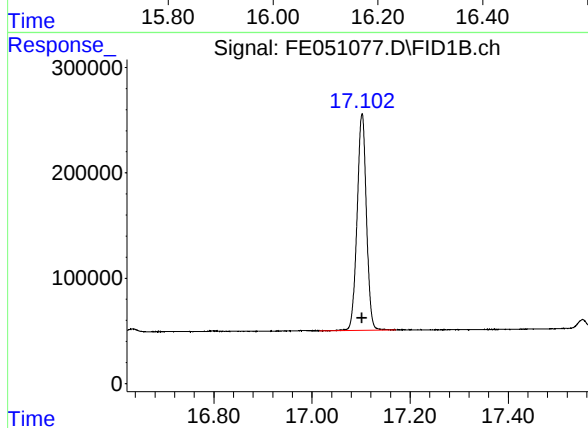
#14 n-Tetracosane (C24)

R.T.: 15.134 min
Delta R.T.: 0.000 min
Response: 2624630
Conc: 20.00 ug/ml



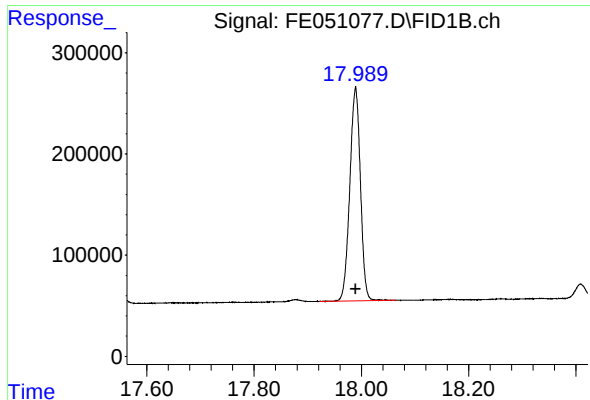
#15 n-Hexacosane (C26)

R.T.: 16.154 min
Delta R.T.: 0.000 min
Response: 2654184
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

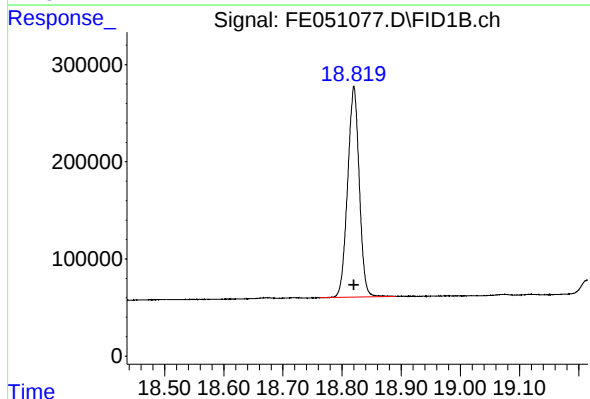
R.T.: 17.102 min
Delta R.T.: 0.000 min
Response: 2702186
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

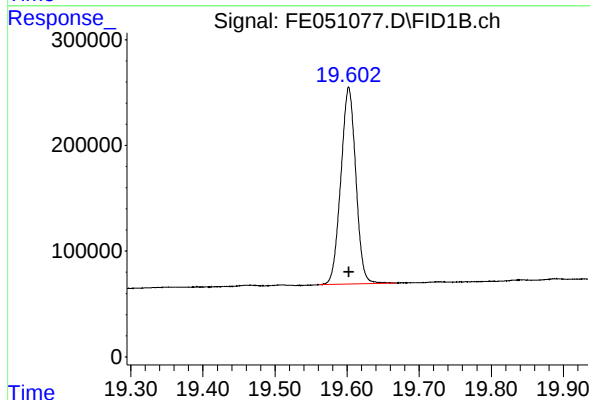
R.T.: 17.989 min
Delta R.T.: 0.000 min
Response: 2890205
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



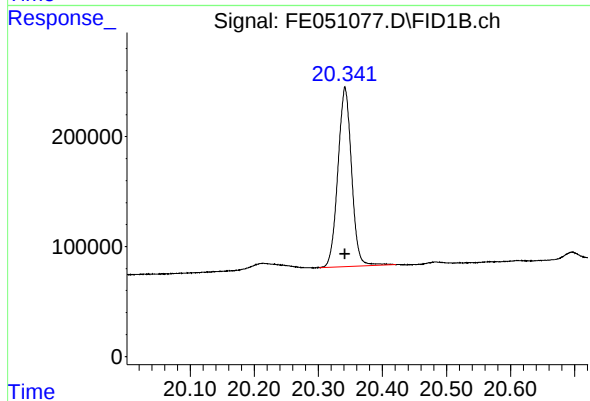
#18 n-Dotriacontane (C32)

R.T.: 18.820 min
Delta R.T.: 0.000 min
Response: 2962222
Conc: 20.00 ug/ml



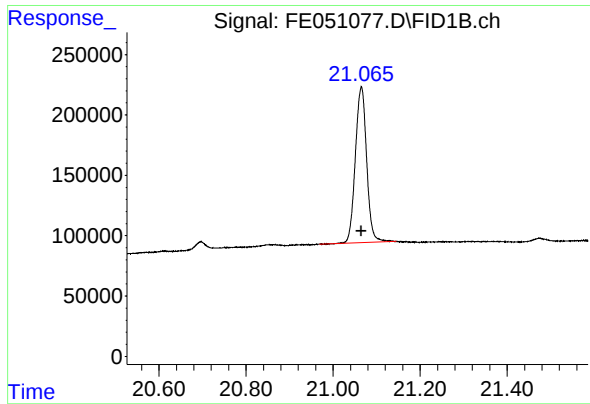
#19 n-Tetatriacontane (C34)

R.T.: 19.602 min
Delta R.T.: 0.000 min
Response: 2686081
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

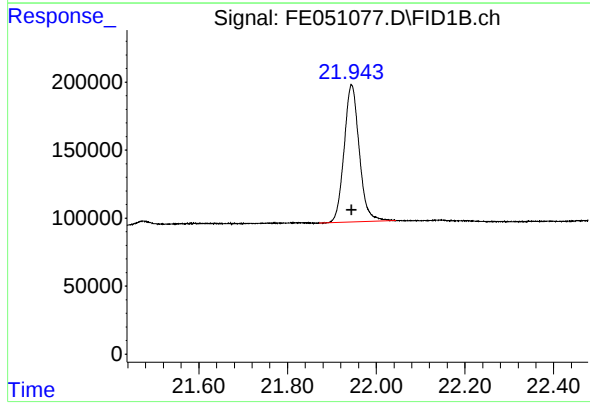
R.T.: 20.342 min
Delta R.T.: 0.000 min
Response: 2402353
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.065 min
Delta R.T.: 0.000 min
Response: 2322118
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.945 min
Delta R.T.: 0.000 min
Response: 2391344
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051077.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:52
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.239	3.208	3.301	BB	266887	2716227	91.50%	4.630%
2	4.489	4.458	4.551	BB	271882	2756662	92.87%	4.699%
3	6.202	6.178	6.311	BB	231533	2657285	89.52%	4.529%
4	6.657	6.625	6.731	BB	282034	2791225	94.03%	4.758%
5	7.298	7.268	7.408	BB	206579	2480384	83.56%	4.228%
6	8.483	8.448	8.568	BB	270525	2766602	93.20%	4.716%
7	10.089	10.055	10.165	BB	253646	2819962	95.00%	4.807%
8	11.530	11.491	11.608	BB	249851	2833843	95.47%	4.830%
9	11.850	11.815	11.938	BB	277757	2968399	100.00%	5.060%
10	12.837	12.801	12.918	BB	234994	2712684	91.39%	4.624%
11	13.283	13.238	13.365	BB	191639	2253701	75.92%	3.841%
12	13.448	13.411	13.528	BB	222710	2648881	89.24%	4.515%
13	14.033	13.998	14.105	BB	206499	2627674	88.52%	4.479%
14	15.134	15.098	15.208	BB	213222	2624630	88.42%	4.474%
15	16.154	16.088	16.235	BB	203985	2654184	89.41%	4.524%
16	17.102	17.015	17.171	BB	205505	2702186	91.03%	4.606%
17	17.989	17.921	18.065	BB	208655	2890205	97.37%	4.926%
18	18.820	18.761	18.891	BB	216663	2962222	99.79%	5.049%
19	19.602	19.561	19.668	BB	185371	2686081	90.49%	4.578%
20	20.342	20.301	20.421	BB	162768	2402353	80.93%	4.095%
21	21.065	20.968	21.145	BB	129093	2322118	78.23%	3.958%
22	21.945	21.871	22.045	BB	101043	2391344	80.56%	4.076%
Sum of corrected areas:							58668851	

Aliphatic EPH 110724.M Thu Nov 07 06:40:20 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
 Data File : FE051078.D
 Signal(s) : FID1B.ch
 Acq On : 06 Nov 2024 18:22
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/07/2024
 Supervised By :Ankita Jodhani 11/07/2024

Integration File: autoint1.e
 Quant Time: Nov 07 04:55:18 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:54:42 2024
 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)	11.849	1565644	10.545 ug/ml
Spiked Amount 50.000		Recovery =	21.09%
12) S 1-chlorooctadecane (S...	13.283	1176755	10.461 ug/ml
Spiked Amount 50.000		Recovery =	20.92%
Target Compounds			
1) T n-Nonane (C9)	3.239	1426184	10.387 ug/ml
2) T n-Decane (C10)	4.489	1444976	10.388 ug/ml
3) T A~Naphthalene (C11.7)	6.203	1341147	10.216 ug/ml
4) T n-Dodecane (C12)	6.656	1460396	10.432 ug/ml
5) T A~2-methylnaphthalene...	7.299	1295139	10.446 ug/mlm
6) T n-Tetradecane (C14)	8.483	1443150	10.448 ug/ml
7) T n-Hexadecane (C16)	10.088	1469868	10.451 ug/ml
8) T n-Octadecane (C18)	11.528	1483612	10.491 ug/ml
10) T n-Eicosane (C20)	12.836	1425003	10.521 ug/ml
11) T n-Heneicosane (C21)	13.447	1390737	10.513 ug/ml
13) T n-Docosane (C22)	14.033	1386349	10.540 ug/ml
14) T n-Tetracosane (C24)	15.134	1376518	10.475 ug/ml
15) T n-Hexacosane (C26)	16.154	1392936	10.512 ug/ml
16) T n-Octacosane (C28)	17.100	1424573	10.568 ug/ml
17) T n-Tricontane (C30)	17.987	1518163	10.568 ug/ml
18) T n-Dotriacontane (C32)	18.819	1556973	10.615 ug/ml
19) T n-Tetratriacontane (C34)	19.602	1411160	10.636 ug/ml
20) T n-Hexatriacontane (C36)	20.341	1260253	10.713 ug/ml
21) T n-Octatriacontane (C38)	21.064	1207468	10.773 ug/ml
22) T n-Tetracontane (C40)	21.946	1185992	10.843 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051078.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:22
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 20 Sample Multiplier: 1

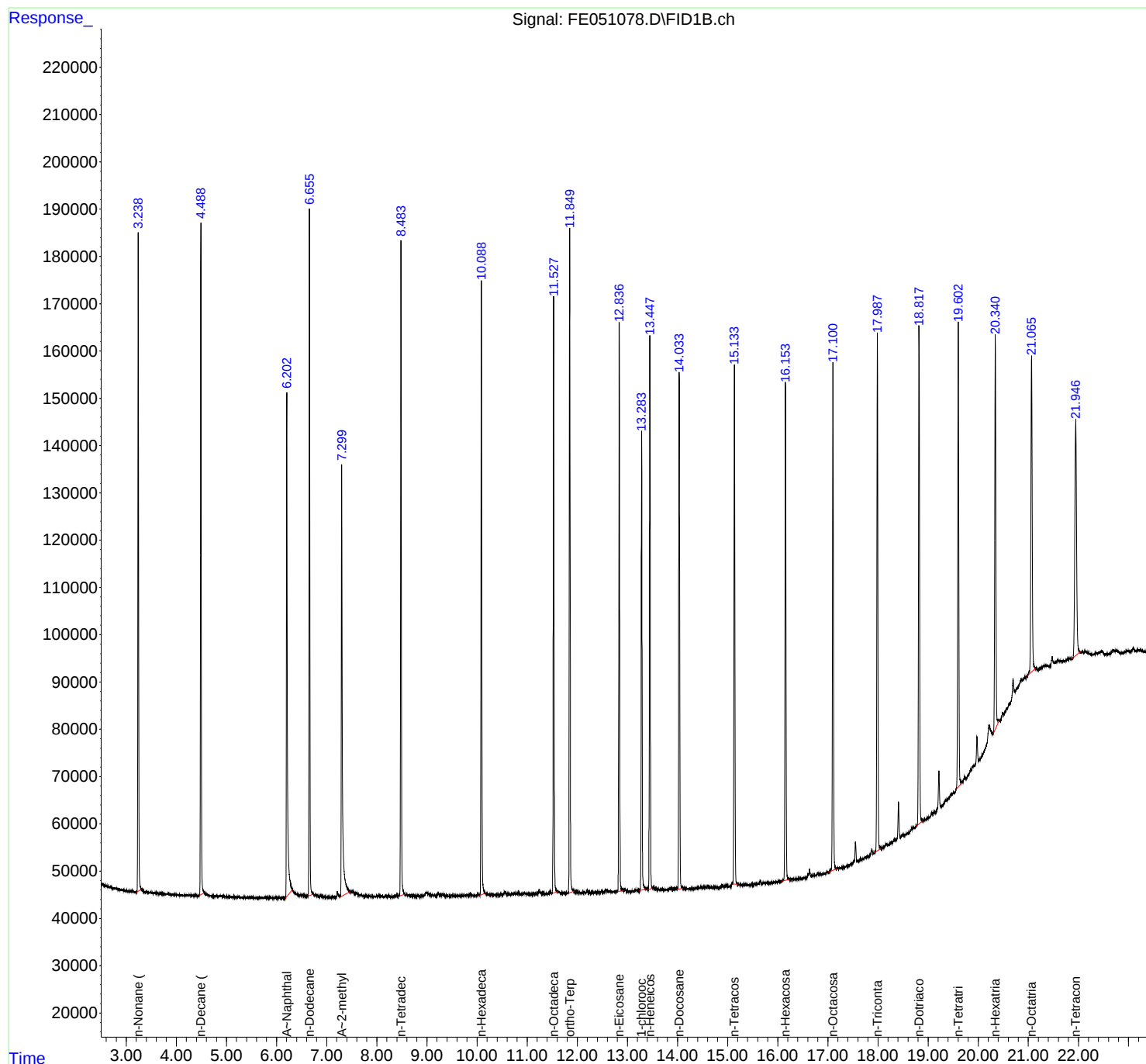
Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

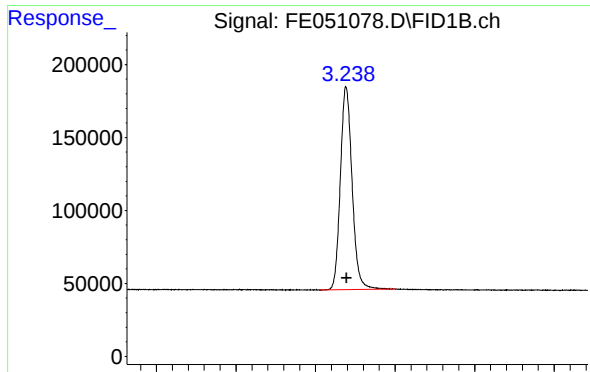
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File: autoint1.e
Quant Time: Nov 07 04:55:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:54:42 2024
Response via : Initial Calibration
Integrator: ChemStation

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





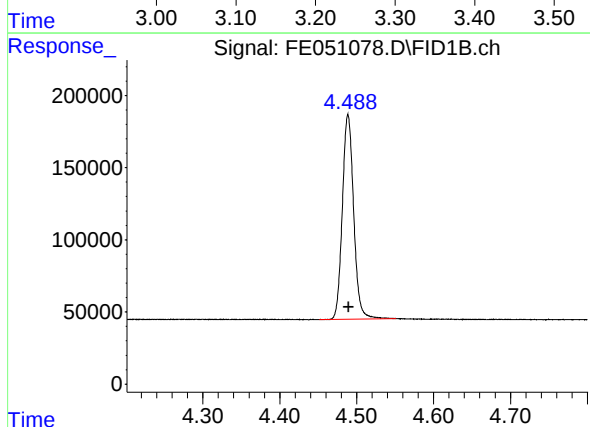
#1 n-Nonane (C9)

R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 1426184
Conc: 10.39 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

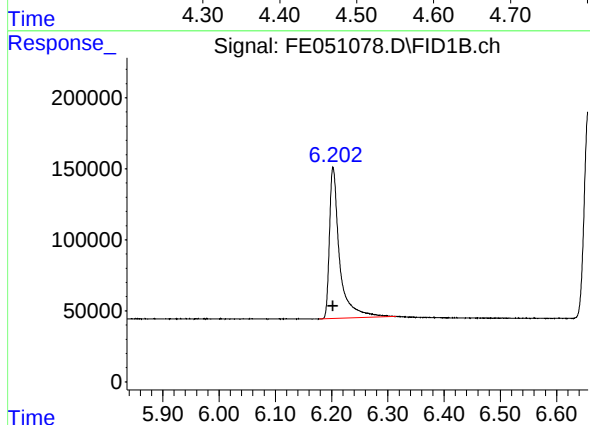
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



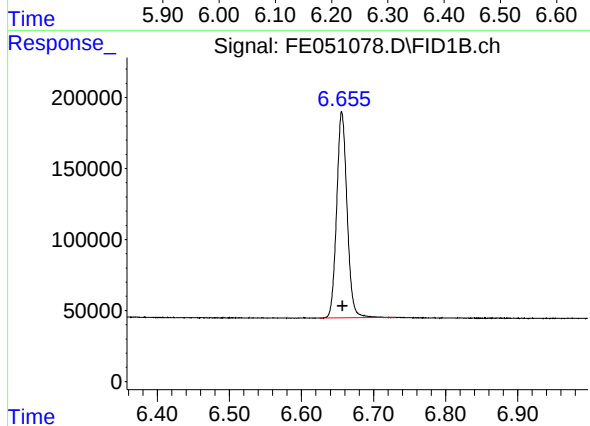
#2 n-Decane (C10)

R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 1444976
Conc: 10.39 ug/ml



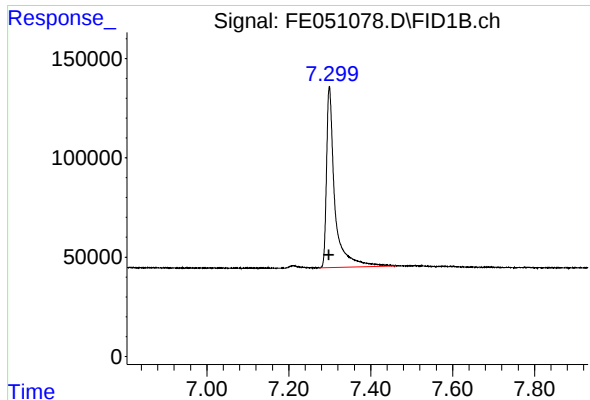
#3 A~Naphthalene (C11.7)

R.T.: 6.203 min
Delta R.T.: 0.001 min
Response: 1341147
Conc: 10.22 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.656 min
Delta R.T.: 0.000 min
Response: 1460396
Conc: 10.43 ug/ml



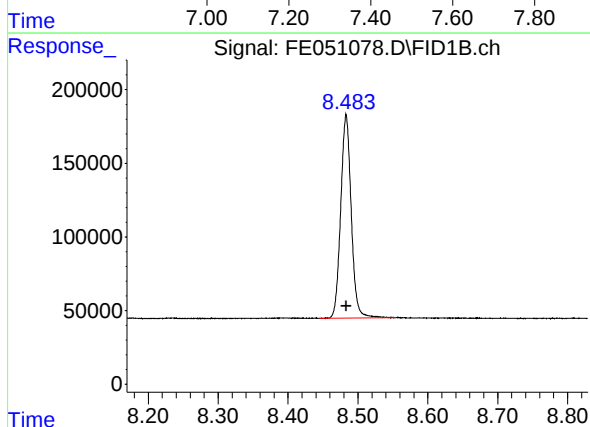
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.299 min
Delta R.T.: 0.000 min
Response: 1295139
Conc: 10.45 ug/ml

Instrument : FID_E
ClientSampleId : 10 PPM ALIPHATIC HC STD4

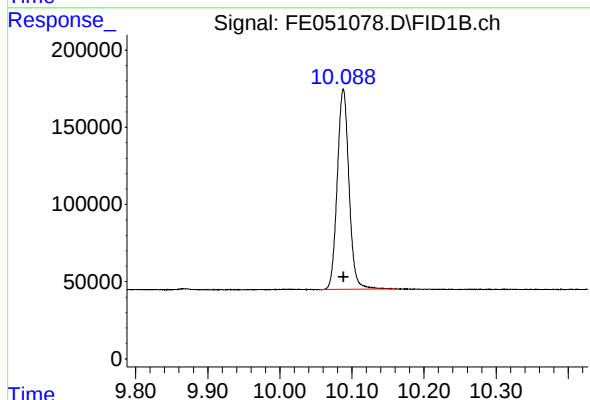
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



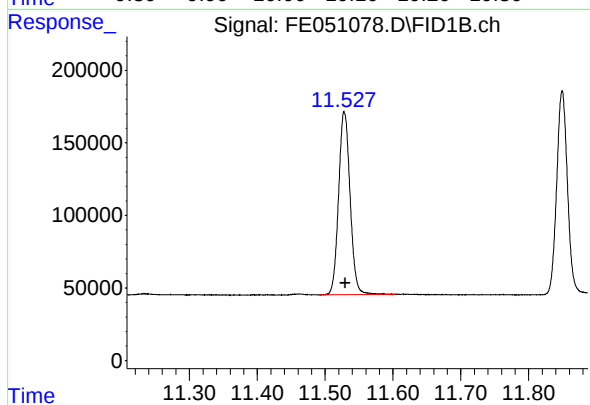
#6 n-Tetradecane (C14)

R.T.: 8.483 min
Delta R.T.: 0.000 min
Response: 1443150
Conc: 10.45 ug/ml



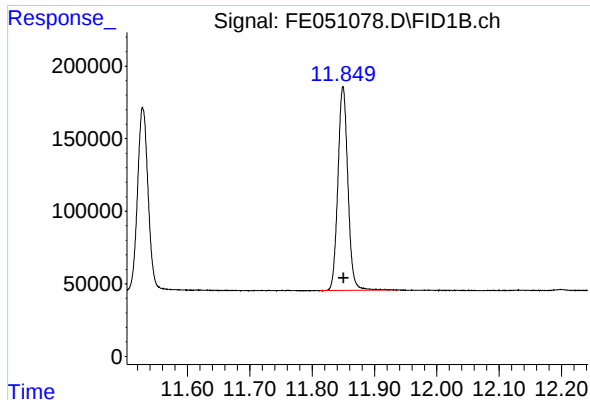
#7 n-Hexadecane (C16)

R.T.: 10.088 min
Delta R.T.: 0.000 min
Response: 1469868
Conc: 10.45 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.528 min
Delta R.T.: -0.001 min
Response: 1483612
Conc: 10.49 ug/ml



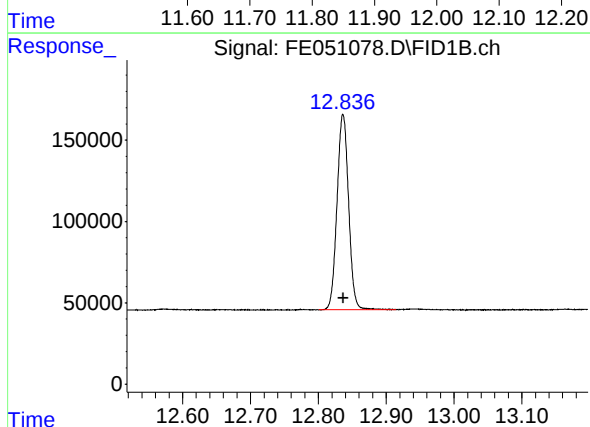
#9 ortho-Terphenyl (SURR)

R.T.: 11.849 min
Delta R.T.: 0.000 min
Response: 1565644
Conc: 10.54 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

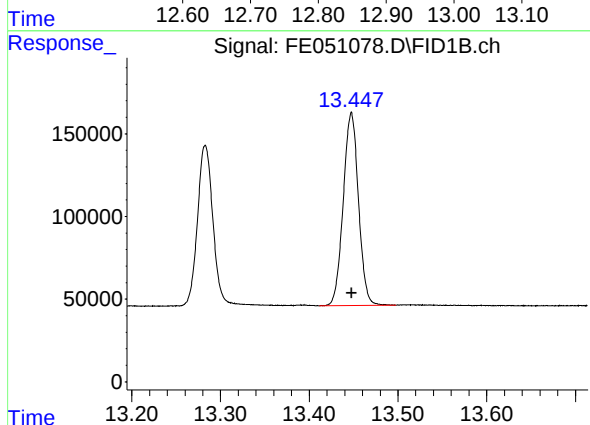
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



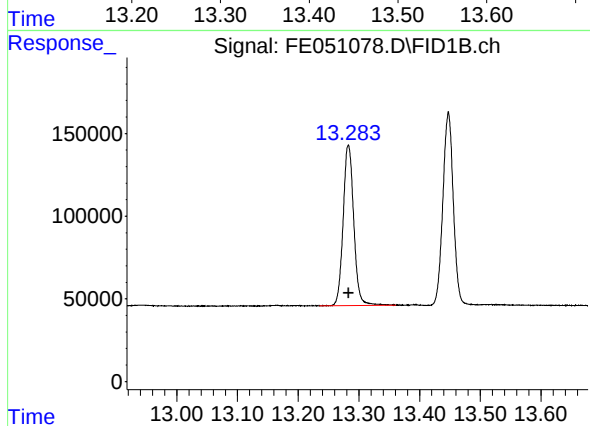
#10 n-Eicosane (C20)

R.T.: 12.836 min
Delta R.T.: 0.000 min
Response: 1425003
Conc: 10.52 ug/ml



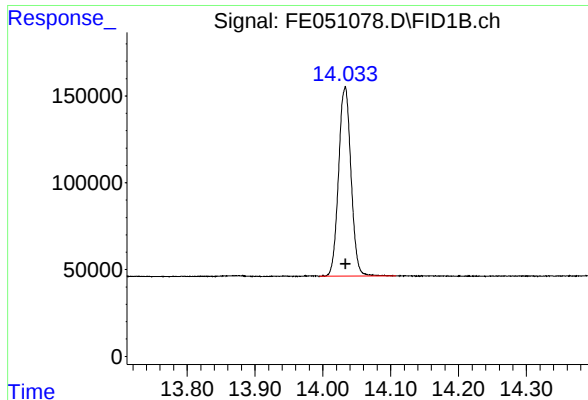
#11 n-Heneicosane (C21)

R.T.: 13.447 min
Delta R.T.: 0.000 min
Response: 1390737
Conc: 10.51 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.283 min
Delta R.T.: 0.000 min
Response: 1176755
Conc: 10.46 ug/ml



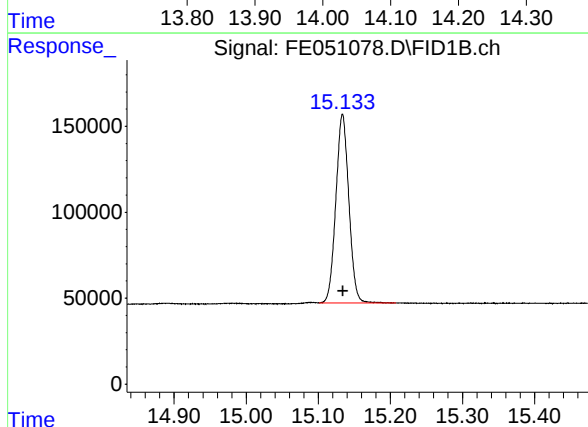
#13 n-Docosane (C22)

R.T.: 14.033 min
Delta R.T.: 0.000 min
Response: 1386349
Conc: 10.54 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

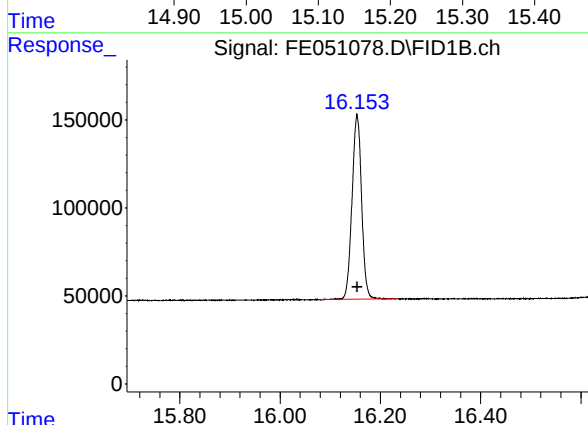
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



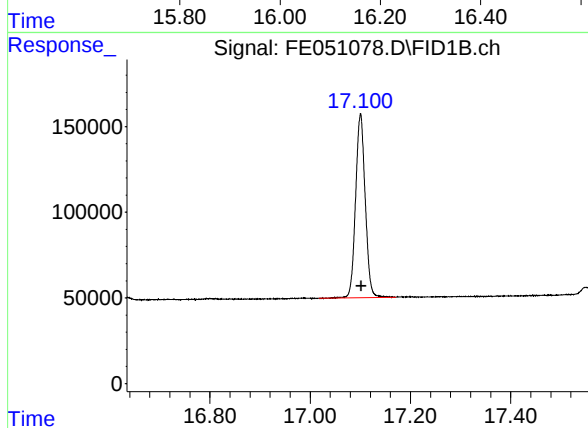
#14 n-Tetracosane (C24)

R.T.: 15.134 min
Delta R.T.: 0.000 min
Response: 1376518
Conc: 10.48 ug/ml



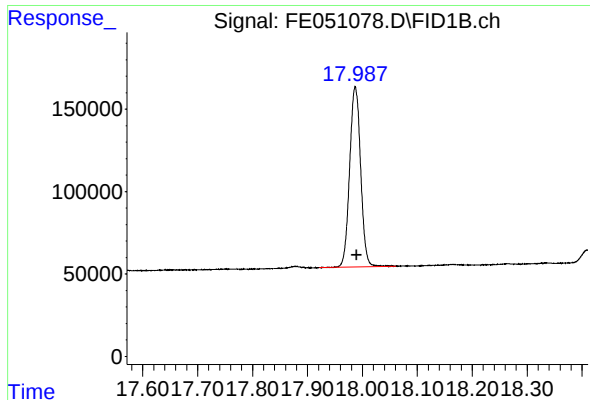
#15 n-Hexacosane (C26)

R.T.: 16.154 min
Delta R.T.: 0.000 min
Response: 1392936
Conc: 10.51 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.100 min
Delta R.T.: -0.002 min
Response: 1424573
Conc: 10.57 ug/ml



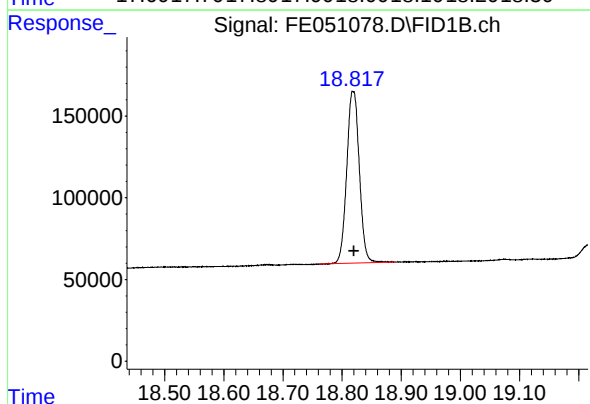
#17 n-Tricontane (C30)

R.T.: 17.987 min
Delta R.T.: -0.002 min
Response: 1518163
Conc: 10.57 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

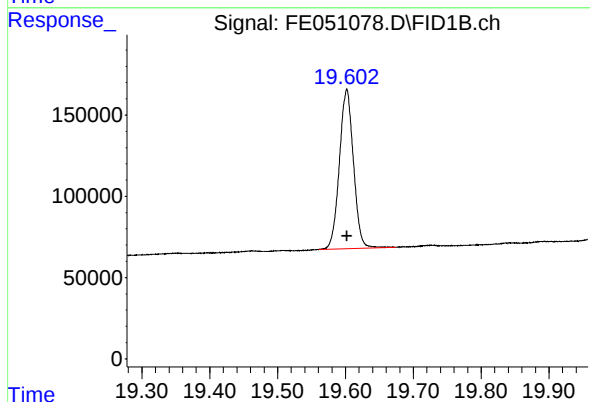
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



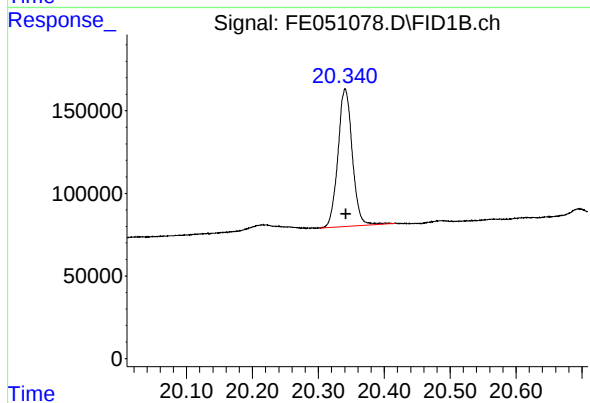
#18 n-Dotriacontane (C32)

R.T.: 18.819 min
Delta R.T.: -0.001 min
Response: 1556973
Conc: 10.61 ug/ml



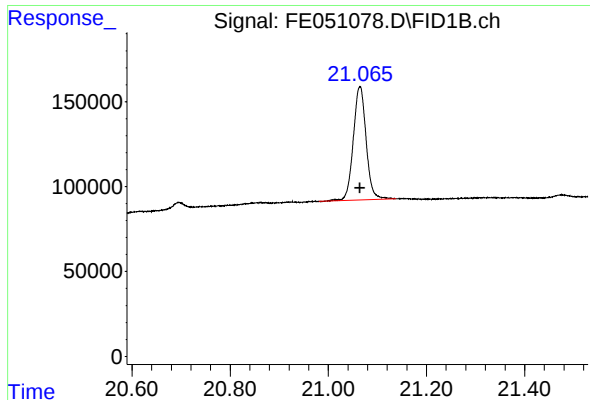
#19 n-Tetratriacontane (C34)

R.T.: 19.602 min
Delta R.T.: 0.000 min
Response: 1411160
Conc: 10.64 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.341 min
Delta R.T.: 0.000 min
Response: 1260253
Conc: 10.71 ug/ml



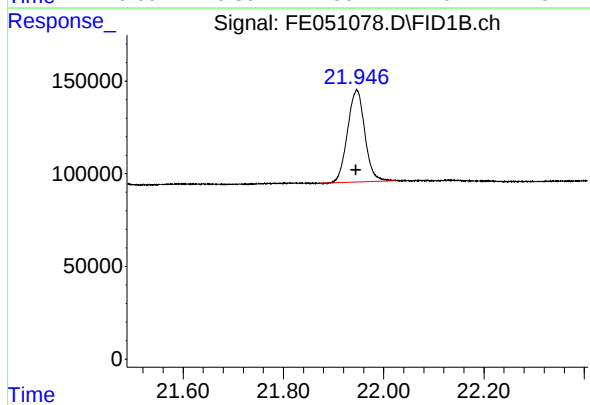
#21 n-Octatriacontane (C38)

R.T.: 21.064 min
Delta R.T.: 0.000 min
Response: 1207468
Conc: 10.77 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



#22 n-Tetracontane (C40)

R.T.: 21.946 min
Delta R.T.: 0.002 min
Response: 1185992
Conc: 10.84 ug/ml

rteres

Instrument :
FID_E
LabSampleId :
10 PPM ALIPHATIC HC STD4
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724
Data File : FE051078.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:22
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.239	3.204	3.301	BB	139160	1426184	91.09%	4.675%
2	4.489	4.451	4.551	BB	141343	1444976	92.29%	4.737%
3	6.203	6.178	6.314	BB	104232	1341147	85.66%	4.397%
4	6.656	6.624	6.731	BB	142765	1460396	93.28%	4.787%
5	7.300	7.188	7.388	BB	88160	1156564	73.87%	3.791%
6	8.483	8.444	8.554	BB	137162	1443150	92.18%	4.731%
7	10.088	10.054	10.161	BB	129589	1469868	93.88%	4.819%
8	11.528	11.491	11.604	BB	126380	1483612	94.76%	4.864%
9	11.849	11.811	11.934	BB	139984	1565644	100.00%	5.133%
10	12.836	12.801	12.914	BB	120225	1425003	91.02%	4.671%
11	13.283	13.234	13.361	BB	96697	1176755	75.16%	3.858%
12	13.447	13.411	13.498	BB	116571	1390737	88.83%	4.559%
13	14.033	13.994	14.108	BB	108120	1386349	88.55%	4.545%
14	15.134	15.101	15.208	BB	109772	1376518	87.92%	4.513%
15	16.154	16.078	16.231	BB	104389	1392936	88.97%	4.566%
16	17.100	17.018	17.171	BB	107690	1424573	90.99%	4.670%
17	17.987	17.921	18.061	BB	108930	1518163	96.97%	4.977%
18	18.819	18.761	18.891	BB	105829	1556973	99.45%	5.104%
19	19.602	19.561	19.674	BB	97363	1411160	90.13%	4.626%
20	20.341	20.301	20.418	BB	83294	1260253	80.49%	4.131%
21	21.064	20.981	21.138	BB	66752	1207468	77.12%	3.958%
22	21.946	21.871	22.024	BB	49623	1185992	75.75%	3.888%
Sum of corrected areas:							30504421	

Aliphatic EPH 110724.M Thu Nov 07 06:41:01 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
 Data File : FE051079.D
 Signal(s) : FID1B.ch
 Acq On : 06 Nov 2024 18:53
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/07/2024
 Supervised By :Ankita Jodhani 11/07/2024

Integration File: autoint1.e
 Quant Time: Nov 07 04:51:22 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:50:43 2024
 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)	11.849	781023	5.407 ug/ml
Spiked Amount 50.000		Recovery =	10.81%
12) S 1-chlorooctadecane (S...	13.282	577997	5.240 ug/ml
Spiked Amount 50.000		Recovery =	10.48%
Target Compounds			
1) T n-Nonane (C9)	3.239	708000	5.280 ug/ml
2) T n-Decane (C10)	4.489	713817	5.246 ug/ml
3) T A~Naphthalene (C11.7)	6.207	571648	4.249 ug/ml
4) T n-Dodecane (C12)	6.657	723070	5.287 ug/ml
5) T A~2-methylnaphthalene...	7.303	546326	4.316 ug/ml
6) T n-Tetradecane (C14)	8.483	717946	5.324 ug/ml
7) T n-Hexadecane (C16)	10.088	729959	5.316 ug/ml
8) T n-Octadecane (C18)	11.528	739553	5.372 ug/ml
10) T n-Eicosane (C20)	12.836	716888	5.452 ug/ml
11) T n-Heneicosane (C21)	13.447	695602	5.404 ug/ml
13) T n-Docosane (C22)	14.031	694430	5.432 ug/ml
14) T n-Tetracosane (C24)	15.133	692936	5.418 ug/ml
15) T n-Hexacosane (C26)	16.151	703789	5.462 ug/ml
16) T n-Octacosane (C28)	17.100	731057	5.612 ug/ml
17) T n-Tricontane (C30)	17.987	808062	5.882 ug/ml
18) T n-Dotriacontane (C32)	18.818	849237	6.107 ug/ml
19) T n-Tetratriacontane (C34)	19.602	750913	5.929 ug/ml
20) T n-Hexatriacontane (C36)	20.341	647398	5.720 ug/ml
21) T n-Octatriacontane (C38)	21.063	614335	5.747 ug/ml
22) T n-Tetracontane (C40)	21.941	608672	5.920 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051079.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:53
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 21 Sample Multiplier: 1

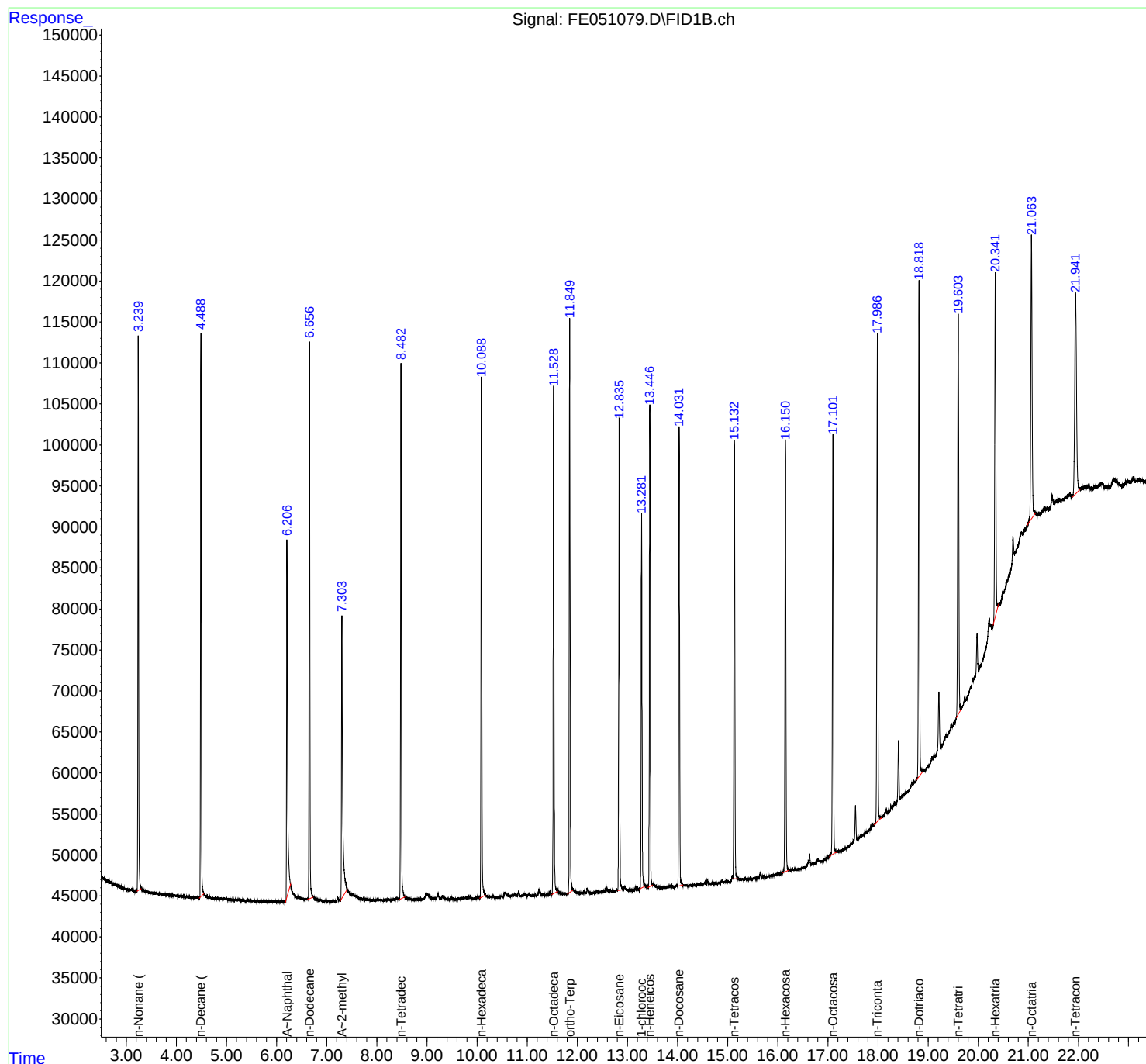
Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

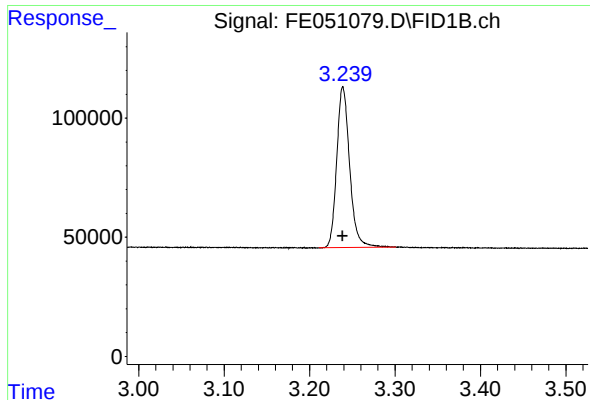
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File: autoint1.e
Quant Time: Nov 07 04:51:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:50:43 2024
Response via : Initial Calibration
Integrator: ChemStation

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





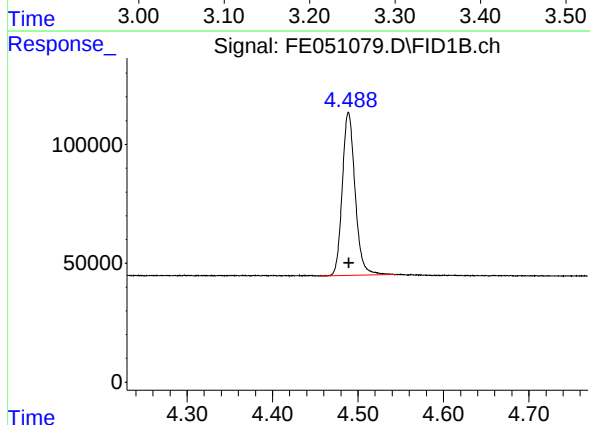
#1 n-Nonane (C9)

R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 708000
Conc: 5.28 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

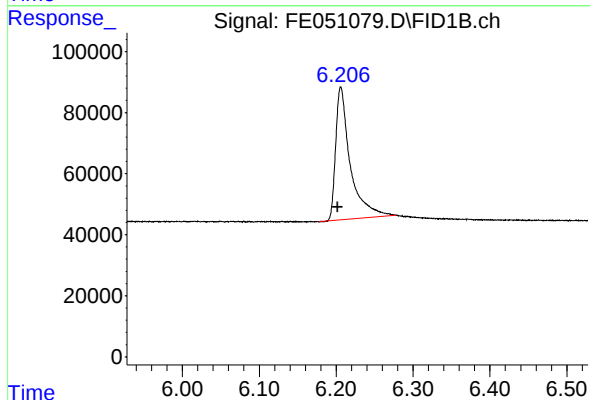
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



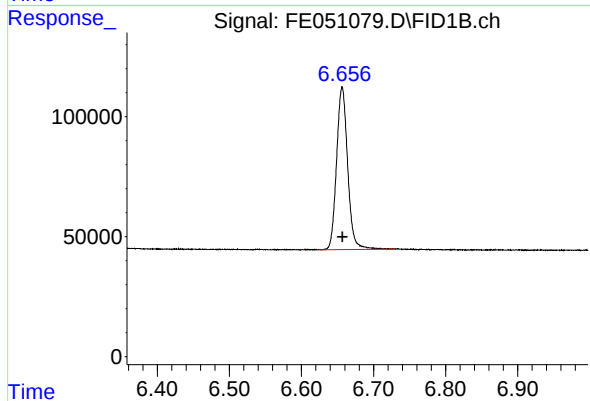
#2 n-Decane (C10)

R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 713817
Conc: 5.25 ug/ml



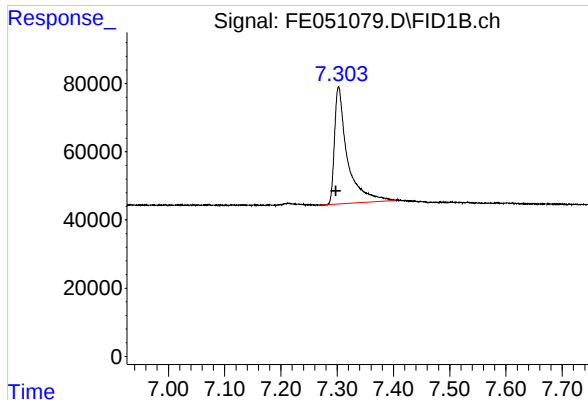
#3 A~Naphthalene (C11.7)

R.T.: 6.207 min
Delta R.T.: 0.005 min
Response: 571648
Conc: 4.25 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.657 min
Delta R.T.: 0.000 min
Response: 723070
Conc: 5.29 ug/ml



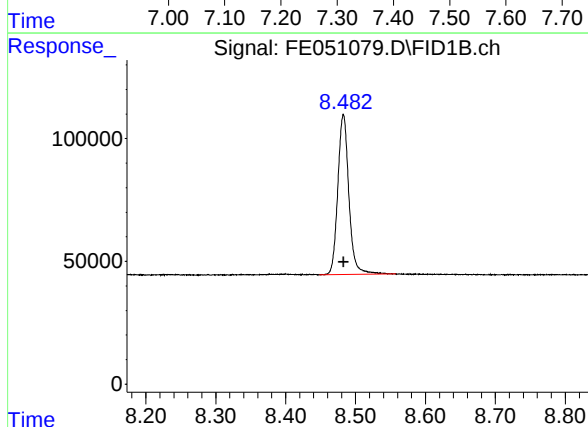
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.303 min
Delta R.T.: 0.005 min
Response: 546326
Conc: 4.32 ug/ml

Instrument : FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

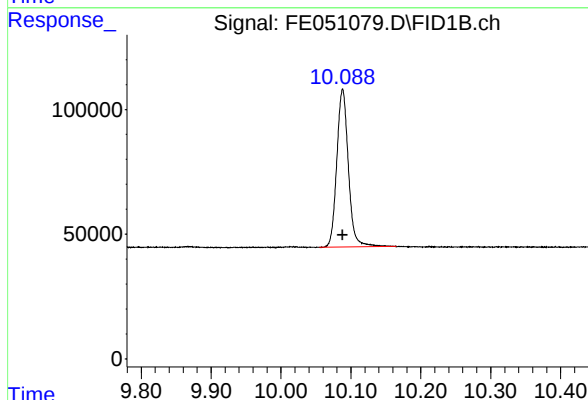
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



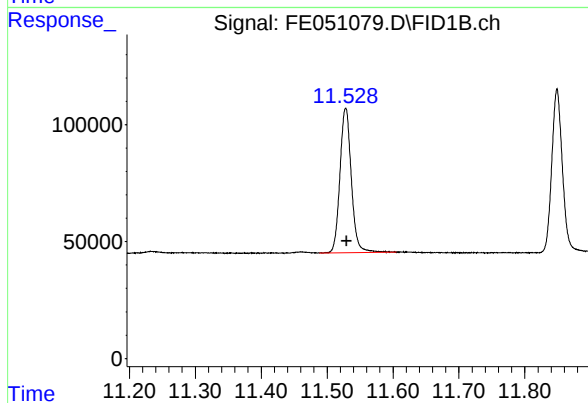
#6 n-Tetradecane (C14)

R.T.: 8.483 min
Delta R.T.: 0.000 min
Response: 717946
Conc: 5.32 ug/ml



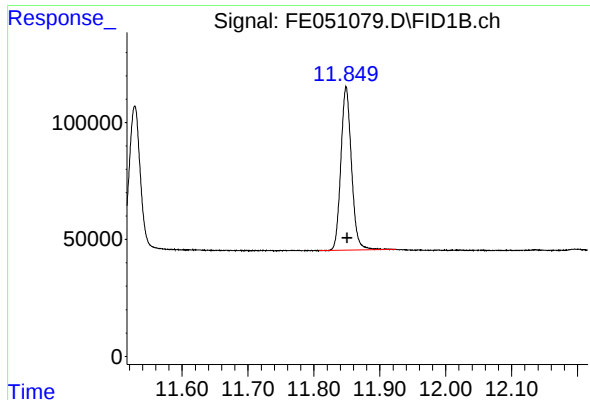
#7 n-Hexadecane (C16)

R.T.: 10.088 min
Delta R.T.: 0.000 min
Response: 729959
Conc: 5.32 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.528 min
Delta R.T.: -0.002 min
Response: 739553
Conc: 5.37 ug/ml



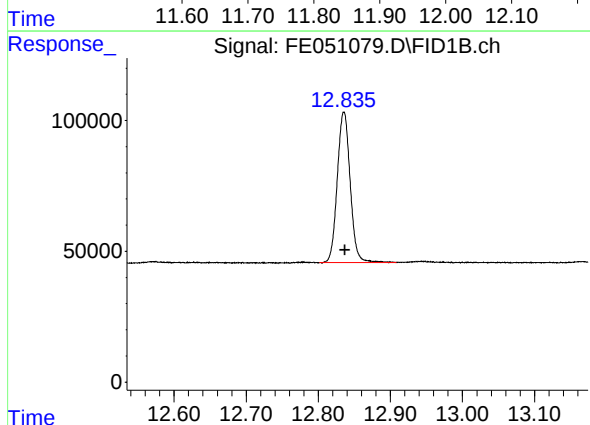
#9 ortho-Terphenyl (SURR)

R.T.: 11.849 min
Delta R.T.: -0.002 min
Response: 781023
Conc: 5.41 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

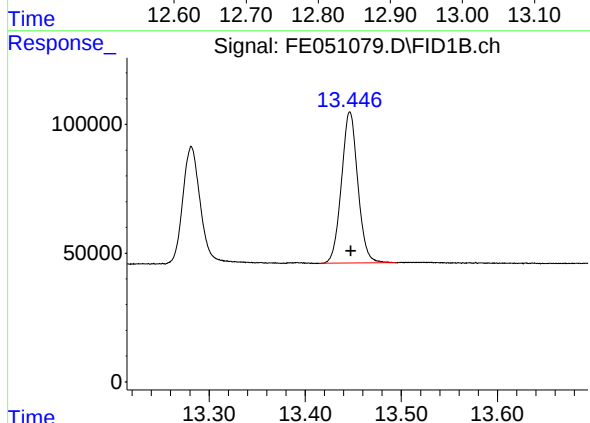
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



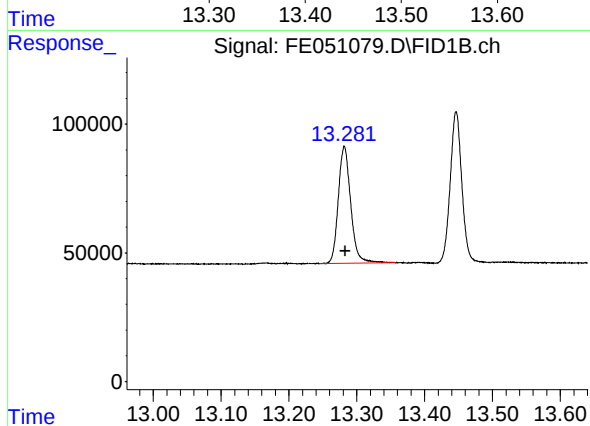
#10 n-Eicosane (C20)

R.T.: 12.836 min
Delta R.T.: -0.001 min
Response: 716888
Conc: 5.45 ug/ml



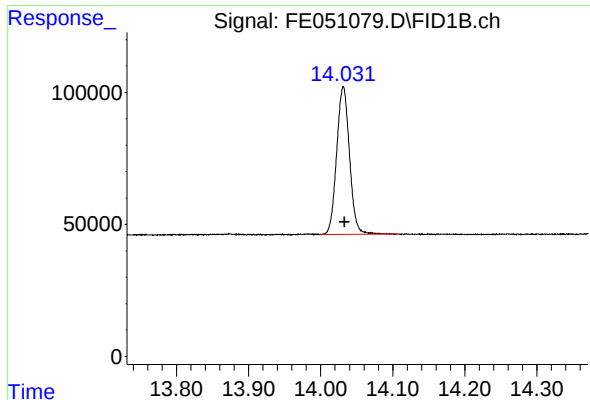
#11 n-Heneicosane (C21)

R.T.: 13.447 min
Delta R.T.: -0.001 min
Response: 695602
Conc: 5.40 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.282 min
Delta R.T.: -0.001 min
Response: 577997
Conc: 5.24 ug/ml



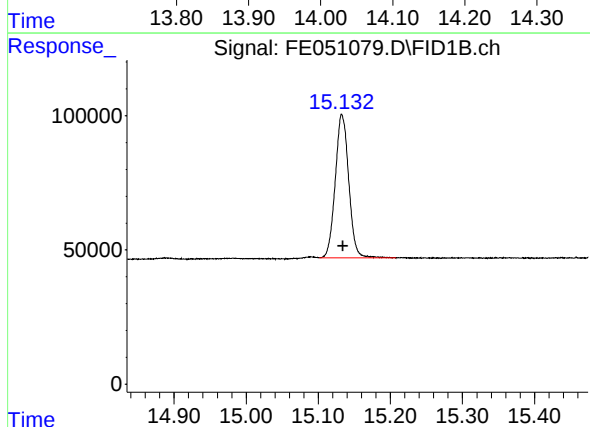
#13 n-Docosane (C22)

R.T.: 14.031 min
Delta R.T.: -0.002 min
Response: 694430
Conc: 5.43 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

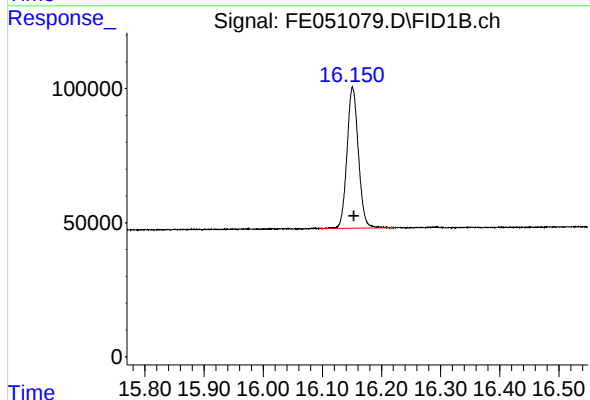
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



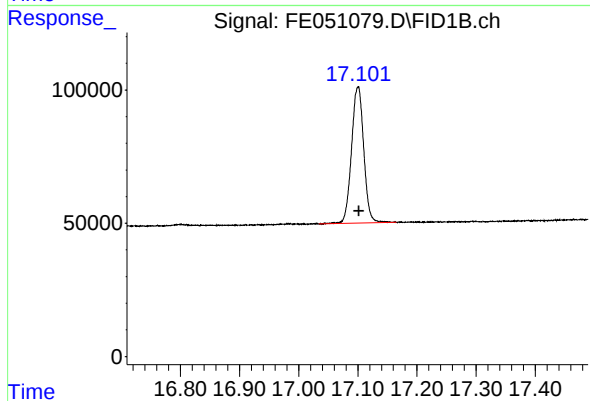
#14 n-Tetracosane (C24)

R.T.: 15.133 min
Delta R.T.: -0.001 min
Response: 692936
Conc: 5.42 ug/ml



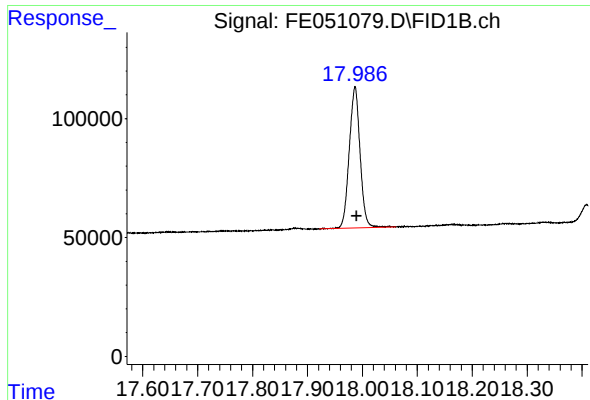
#15 n-Hexacosane (C26)

R.T.: 16.151 min
Delta R.T.: -0.002 min
Response: 703789
Conc: 5.46 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.100 min
Delta R.T.: -0.002 min
Response: 731057
Conc: 5.61 ug/ml



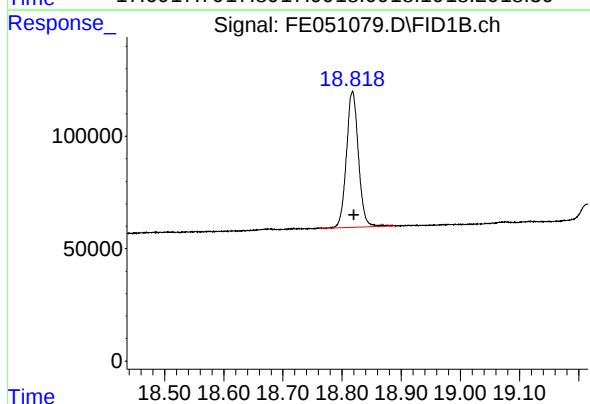
#17 n-Tricontane (C30)

R.T.: 17.987 min
Delta R.T.: -0.003 min
Response: 808062
Conc: 5.88 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

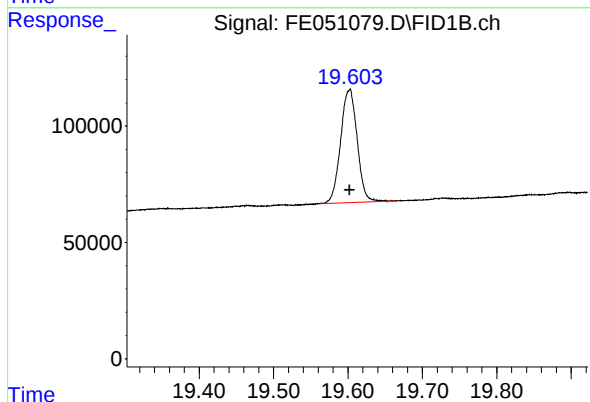
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



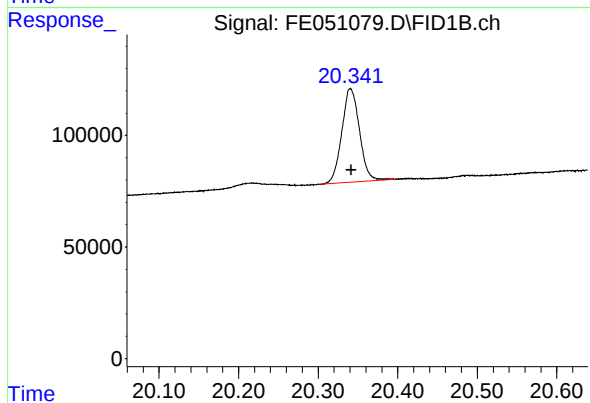
#18 n-Dotriacontane (C32)

R.T.: 18.818 min
Delta R.T.: -0.002 min
Response: 849237
Conc: 6.11 ug/ml



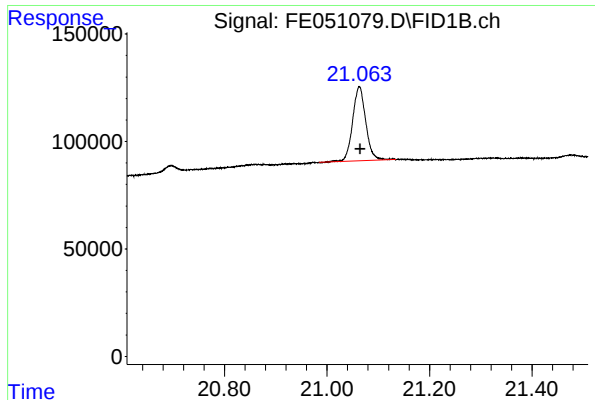
#19 n-Tetratriacontane (C34)

R.T.: 19.602 min
Delta R.T.: 0.000 min
Response: 750913
Conc: 5.93 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.341 min
Delta R.T.: 0.000 min
Response: 647398
Conc: 5.72 ug/ml



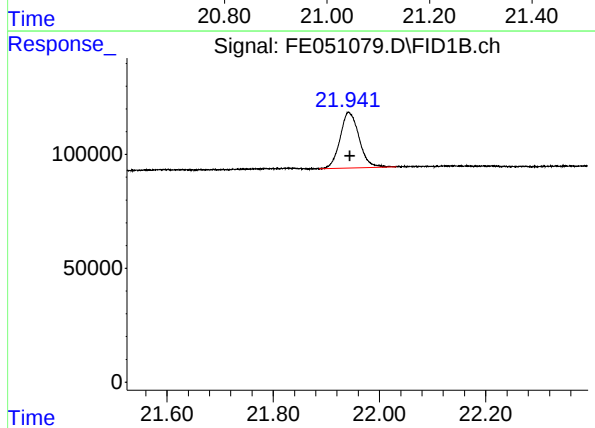
#21 n-Octatriacontane (C38)

R.T.: 21.063 min
Delta R.T.: -0.002 min
Response: 614335
Conc: 5.75 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



#22 n-Tetracontane (C40)

R.T.: 21.941 min
Delta R.T.: -0.004 min
Response: 608672
Conc: 5.92 ug/ml m

rtres

Instrument :
FID_E
LabSampleId :
5 PPM ALIPHATIC HC STD5
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724
Data File : FE051079.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:53
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.239	3.211	3.301	BB	67350	708000	83.37%	4.619%
2	4.489	4.455	4.545	BB	68431	713817	84.05%	4.657%
3	6.207	6.178	6.278	BB	42646	571648	67.31%	3.729%
4	6.657	6.625	6.731	BB	67441	723070	85.14%	4.717%
5	7.303	7.268	7.405	BB	33847	546326	64.33%	3.564%
6	8.483	8.448	8.558	BB	64846	717946	84.54%	4.684%
7	10.088	10.055	10.165	BB	63141	729959	85.95%	4.762%
8	11.528	11.488	11.605	BB	61850	739553	87.08%	4.825%
9	11.849	11.808	11.925	BB	69310	781023	91.97%	5.095%
10	12.836	12.801	12.908	BB	57625	716888	84.42%	4.677%
11	13.282	13.245	13.358	BB	45285	577997	68.06%	3.771%
12	13.447	13.415	13.495	BB	58796	695602	81.91%	4.538%
13	14.031	13.998	14.105	BB	55901	694430	81.77%	4.530%
14	15.133	15.101	15.208	BB	52601	692936	81.60%	4.520%
15	16.151	16.095	16.224	BB	52412	703789	82.87%	4.591%
16	17.100	17.035	17.165	BB	51433	731057	86.08%	4.769%
17	17.987	17.921	18.061	BB	59581	808062	95.15%	5.271%
18	18.818	18.761	18.891	BB	60236	849237	100.00%	5.540%
19	19.602	19.561	19.665	BB	48298	750913	88.42%	4.899%
20	20.341	20.301	20.398	BB	41798	647398	76.23%	4.223%
21	21.063	20.985	21.135	BB	34779	614335	72.34%	4.008%
22	21.941	21.863	22.068	M	24507	615021	72.42%	4.012%
Sum of corrected areas:						15329005		

Aliphatic EPH 110724.M Thu Nov 07 06:41:44 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
 Data File : FE051080.D
 Signal(s) : FID1B.ch
 Acq On : 06 Nov 2024 19:23
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Nov 07 04:57:30 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.850	2942288	19.603 ug/ml
Spiked Amount 50.000		Recovery =	39.21%
12) S 1-chlorooctadecane (S...	13.282	2226415	19.611 ug/ml
Spiked Amount 50.000		Recovery =	39.22%
Target Compounds			
1) T n-Nonane (C9)	3.239	2722511	19.676 ug/ml
2) T n-Decane (C10)	4.489	2753679	19.644 ug/ml
3) T A~Naphthalene (C11.7)	6.202	2658198	20.161 ug/ml
4) T n-Dodecane (C12)	6.657	2773973	19.646 ug/ml
5) T A~2-methylnaphthalene...	7.298	2436503	19.477 ug/ml
6) T n-Tetradecane (C14)	8.483	2733431	19.614 ug/ml
7) T n-Hexadecane (C16)	10.088	2786787	19.638 ug/ml
8) T n-Octadecane (C18)	11.529	2807159	19.657 ug/ml
10) T n-Eicosane (C20)	12.835	2686473	19.630 ug/ml
11) T n-Heneicosane (C21)	13.447	2623993	19.634 ug/ml
13) T n-Docosane (C22)	14.032	2608929	19.623 ug/ml
14) T n-Tetracosane (C24)	15.133	2597382	19.580 ug/ml
15) T n-Hexacosane (C26)	16.153	2611945	19.511 ug/ml
16) T n-Octacosane (C28)	17.101	2629871	19.291 ug/ml
17) T n-Tricontane (C30)	17.987	2729015	18.784 ug/ml
18) T n-Dotriacontane (C32)	18.818	2734748	18.418 ug/ml
19) T n-Tetratriacontane (C34)	19.602	2494543	18.565 ug/ml
20) T n-Hexatriacontane (C36)	20.342	2221919	18.622 ug/ml
21) T n-Octatriacontane (C38)	21.064	2040381	17.927 ug/ml
22) T n-Tetracontane (C40)	21.945	1820370	16.367 ug/ml

(f)=RT Delta > 1/2 Window

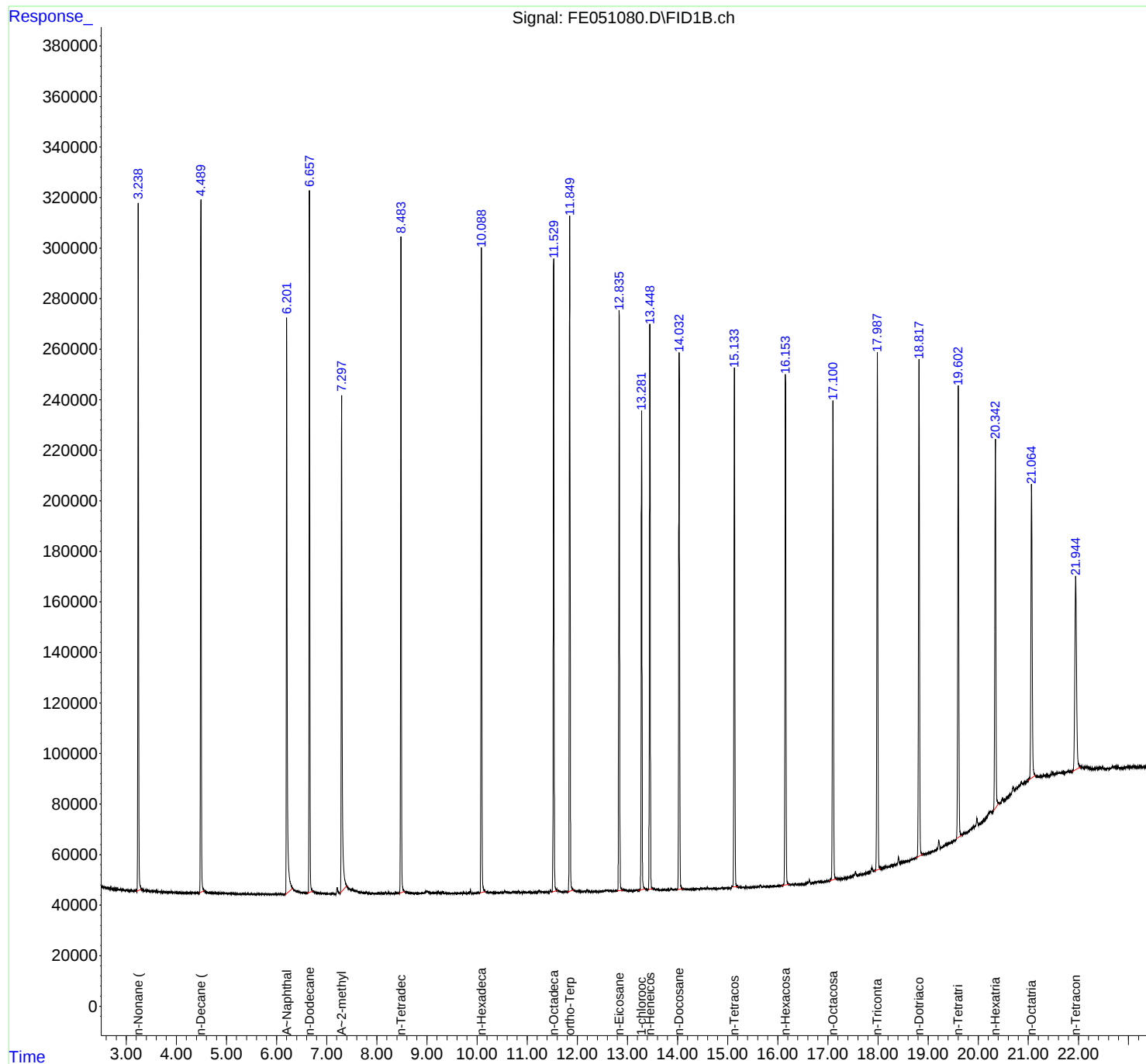
(m)=manual int.

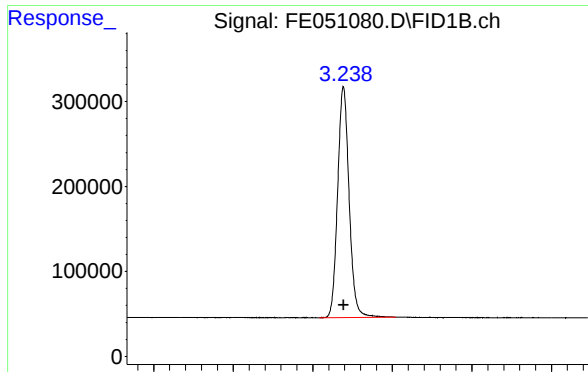
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051080.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 19:23
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 07 04:57:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
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)

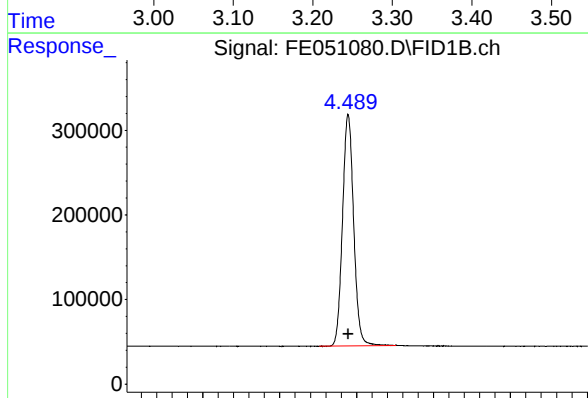
R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 2722511
Conc: 19.68 ug/ml

Instrument :

FID_E

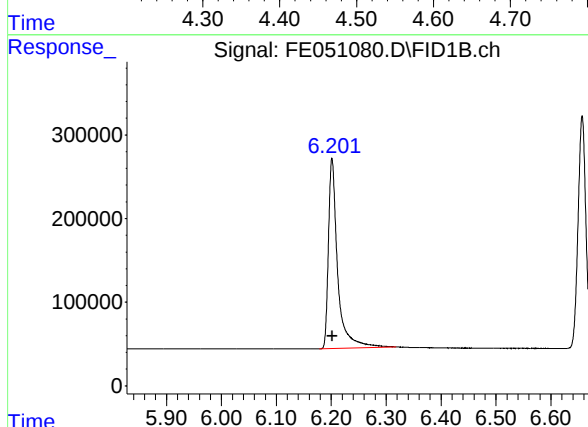
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



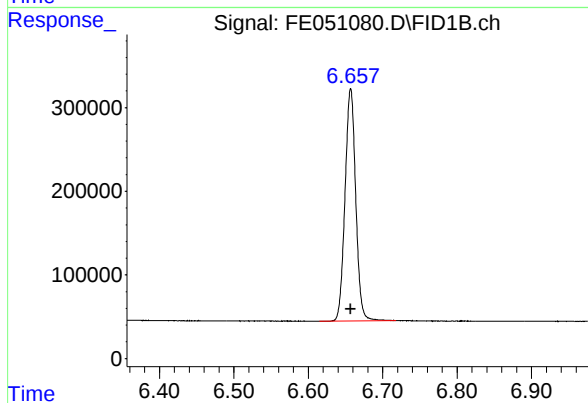
#2 n-Decane (C10)

R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 2753679
Conc: 19.64 ug/ml



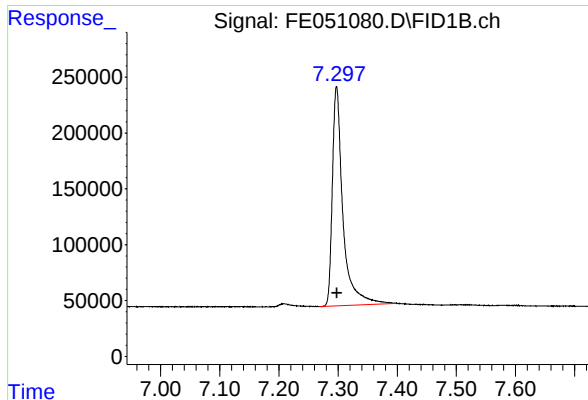
#3 A~Naphthalene (C11.7)

R.T.: 6.202 min
Delta R.T.: 0.000 min
Response: 2658198
Conc: 20.16 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.657 min
Delta R.T.: 0.000 min
Response: 2773973
Conc: 19.65 ug/ml



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

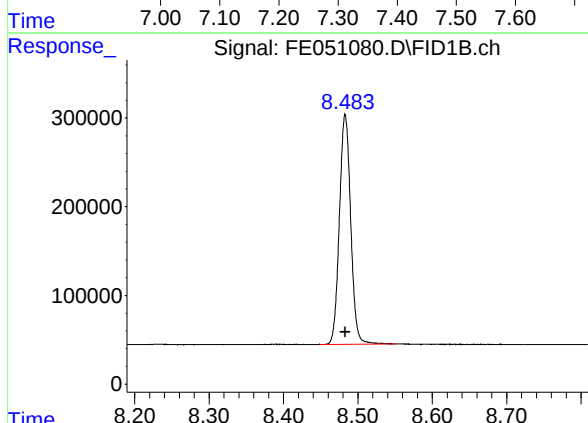
R.T.: 7.298 min
Delta R.T.: 0.000 min
Response: 2436503
Conc: 19.48 ug/ml

Instrument :

FID_E

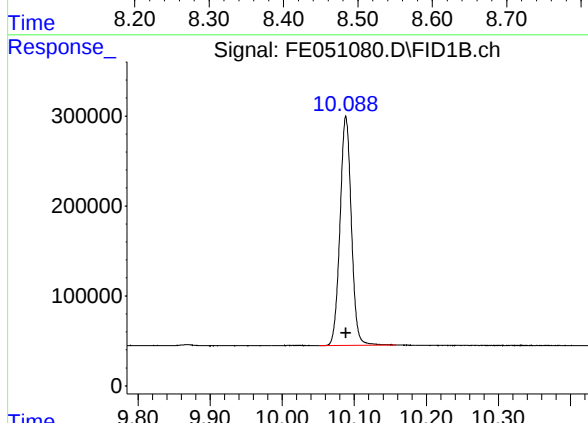
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



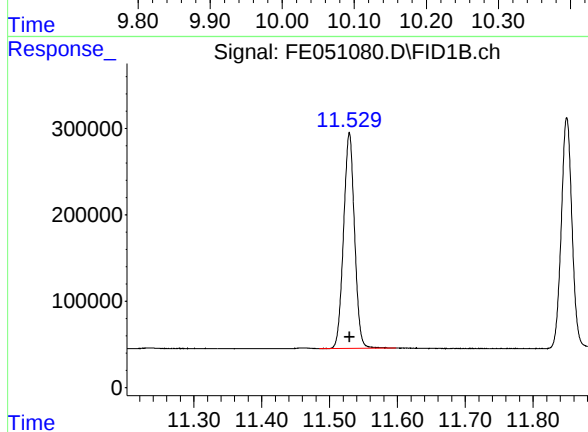
#6 n-Tetradecane (C14)

R.T.: 8.483 min
Delta R.T.: 0.000 min
Response: 2733431
Conc: 19.61 ug/ml



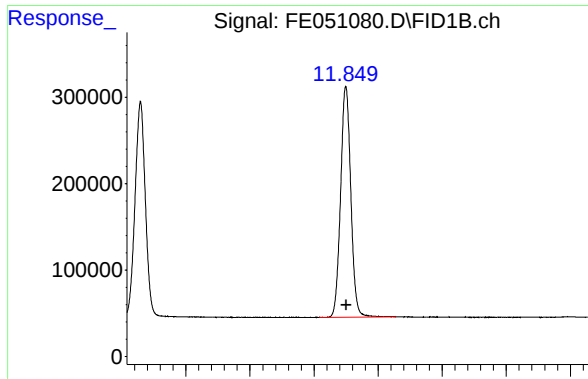
#7 n-Hexadecane (C16)

R.T.: 10.088 min
Delta R.T.: 0.000 min
Response: 2786787
Conc: 19.64 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.529 min
Delta R.T.: 0.000 min
Response: 2807159
Conc: 19.66 ug/ml



#9 ortho-Terphenyl (SURR)

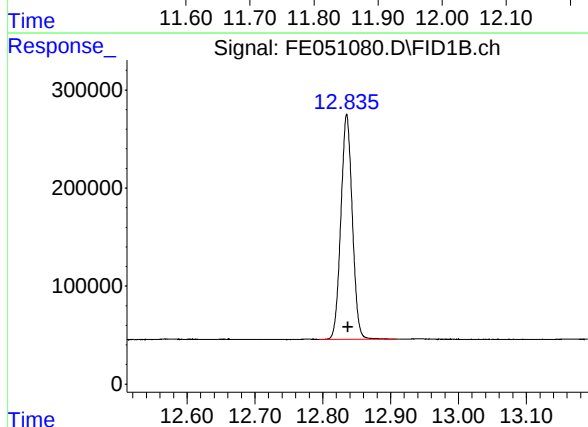
R.T.: 11.850 min
Delta R.T.: 0.000 min
Response: 2942288
Conc: 19.60 ug/ml

Instrument :

FID_E

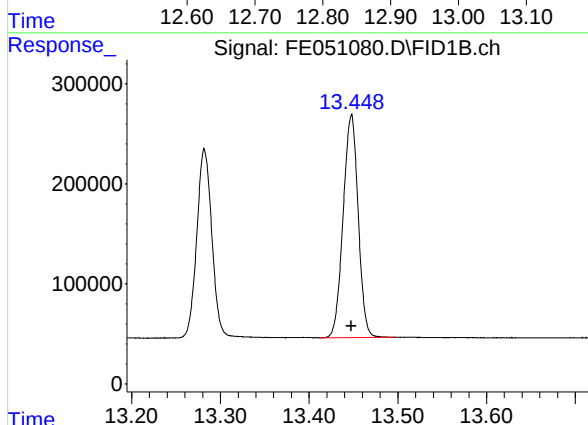
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



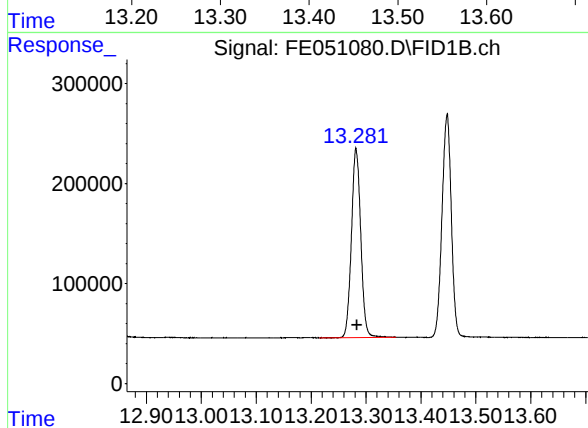
#10 n-Eicosane (C20)

R.T.: 12.835 min
Delta R.T.: -0.002 min
Response: 2686473
Conc: 19.63 ug/ml



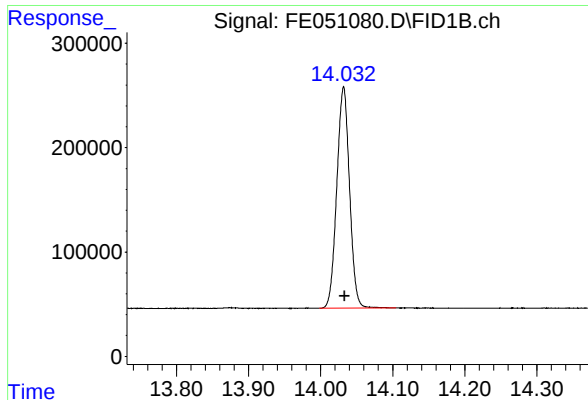
#11 n-Heneicosane (C21)

R.T.: 13.447 min
Delta R.T.: 0.000 min
Response: 2623993
Conc: 19.63 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.282 min
Delta R.T.: -0.001 min
Response: 2226415
Conc: 19.61 ug/ml



#13 n-Docosane (C22)

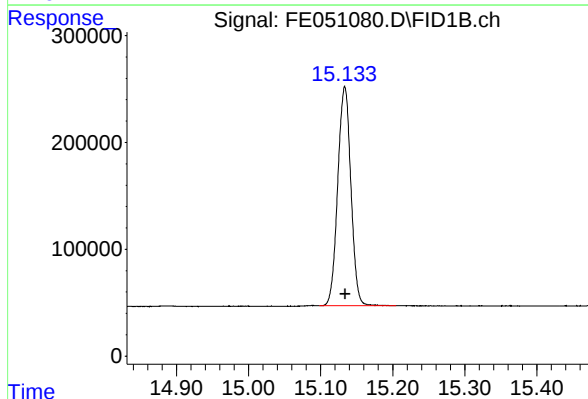
R.T.: 14.032 min
Delta R.T.: -0.002 min
Response: 2608929
Conc: 19.62 ug/ml

Instrument :

FID_E

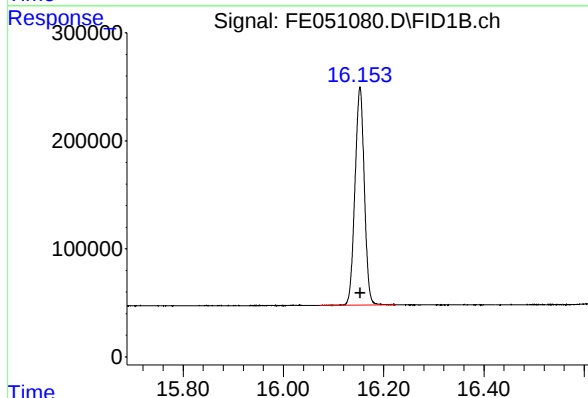
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



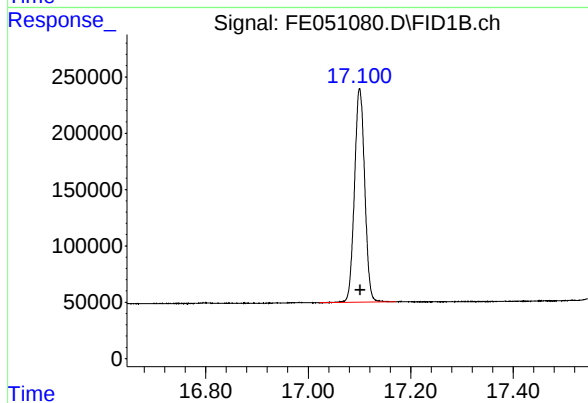
#14 n-Tetracosane (C24)

R.T.: 15.133 min
Delta R.T.: 0.000 min
Response: 2597382
Conc: 19.58 ug/ml



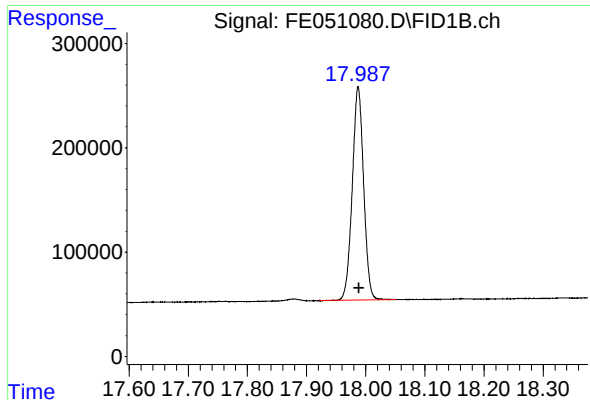
#15 n-Hexacosane (C26)

R.T.: 16.153 min
Delta R.T.: 0.000 min
Response: 2611945
Conc: 19.51 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.101 min
Delta R.T.: -0.001 min
Response: 2629871
Conc: 19.29 ug/ml



#17 n-Tricontane (C30)

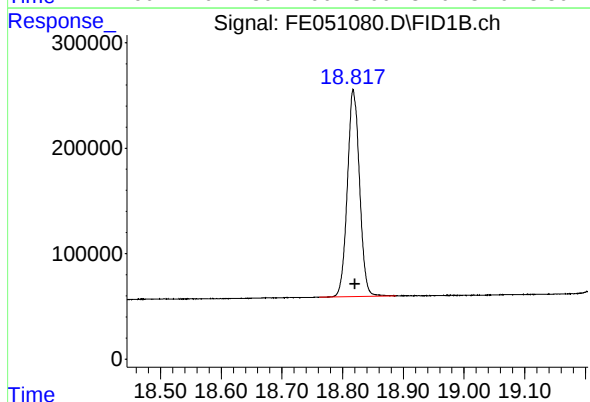
R.T.: 17.987 min
Delta R.T.: -0.002 min
Response: 2729015
Conc: 18.78 ug/ml

Instrument :

FID_E

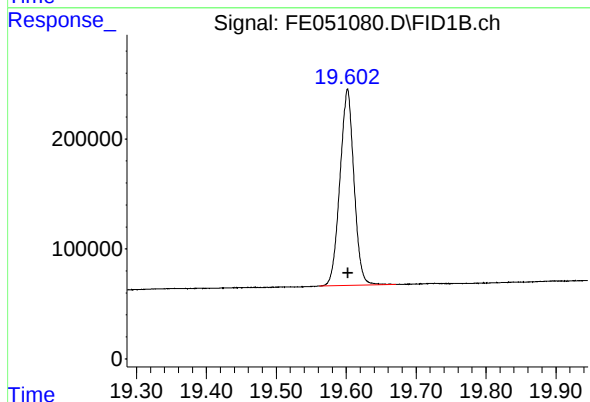
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



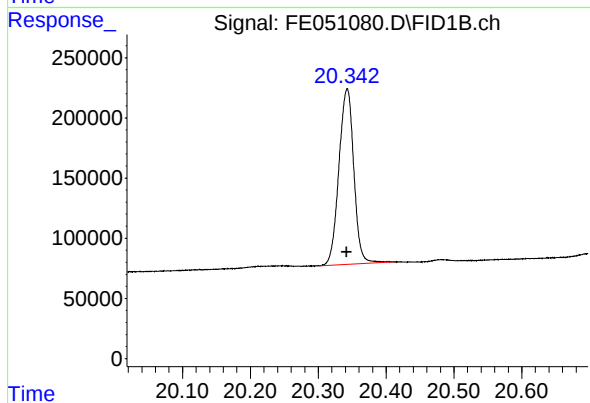
#18 n-Dotriacontane (C32)

R.T.: 18.818 min
Delta R.T.: -0.002 min
Response: 2734748
Conc: 18.42 ug/ml



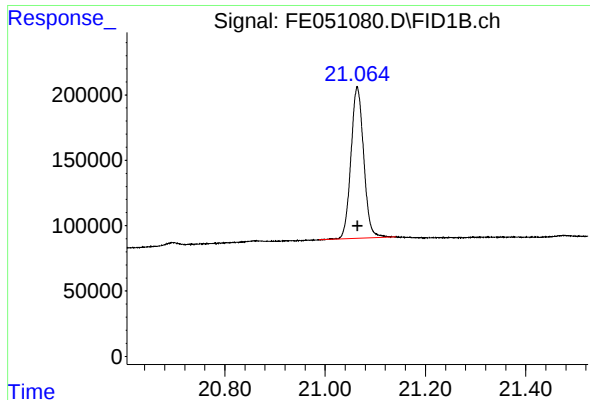
#19 n-Tetratriacontane (C34)

R.T.: 19.602 min
Delta R.T.: 0.000 min
Response: 2494543
Conc: 18.57 ug/ml



#20 n-Hexatriacontane (C36)

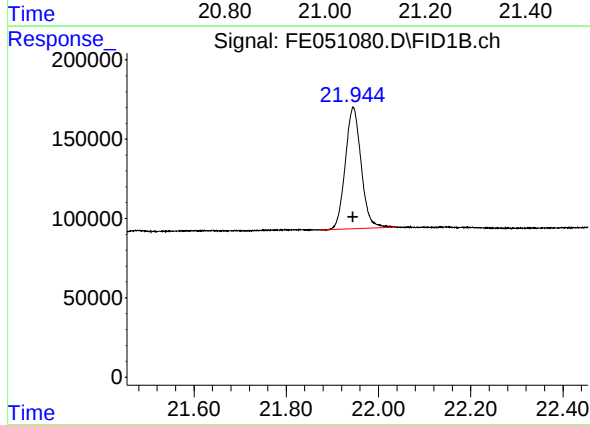
R.T.: 20.342 min
Delta R.T.: 0.000 min
Response: 2221919
Conc: 18.62 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.064 min
Delta R.T.: 0.000 min
Response: 2040381
Conc: 17.93 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.945 min
Delta R.T.: 0.000 min
Response: 1820370
Conc: 16.37 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051080.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 19:23
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.239	3.208	3.305	BB	271236	2722511	92.53%	4.807%
2	4.489	4.451	4.551	BB	272872	2753679	93.59%	4.862%
3	6.202	6.178	6.318	BB	226737	2658198	90.34%	4.693%
4	6.657	6.615	6.718	BB	278018	2773973	94.28%	4.898%
5	7.298	7.268	7.398	BB	195643	2436503	82.81%	4.302%
6	8.483	8.448	8.551	BB	257377	2733431	92.90%	4.826%
7	10.088	10.051	10.158	BB	254117	2786787	94.71%	4.920%
8	11.529	11.485	11.598	BB	247998	2807159	95.41%	4.956%
9	11.850	11.808	11.928	BB	267050	2942288	100.00%	5.195%
10	12.835	12.795	12.908	BB	229102	2686473	91.31%	4.743%
11	13.282	13.215	13.355	BB	188494	2226415	75.67%	3.931%
12	13.447	13.411	13.498	BB	223472	2623993	89.18%	4.633%
13	14.032	13.998	14.105	BB	211282	2608929	88.67%	4.606%
14	15.133	15.098	15.205	BB	205691	2597382	88.28%	4.586%
15	16.153	16.071	16.225	BB	199890	2611945	88.77%	4.611%
16	17.101	17.021	17.171	BB	189007	2629871	89.38%	4.643%
17	17.987	17.921	18.051	BB	204277	2729015	92.75%	4.818%
18	18.818	18.761	18.888	BB	194905	2734748	92.95%	4.828%
19	19.602	19.561	19.671	BB	177807	2494543	84.78%	4.404%
20	20.342	20.301	20.415	BB	145539	2221919	75.52%	3.923%
21	21.064	20.988	21.141	BB	115781	2040381	69.35%	3.602%
22	21.945	21.871	22.038	BB	76545	1820370	61.87%	3.214%
Sum of corrected areas:							56640511	

Aliphatic EPH 110724.M Thu Nov 07 06:42:42 2024

Continuing Calibration Report for SequenceID : FC110724AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC067656.D

Aliphatic C9-C12	8272580.000	60.000	3.171	6.452	137876.333	135469.641	-1.777
Aliphatic C12-C16	5401387.000	40.000	6.453	9.842	135034.675	131681.730	-2.546
Aliphatic C16-C21	7780791.000	60.000	9.843	13.198	129679.850	127235.092	-1.921
Aliphatic C21-C28	9757366.000	80.000	13.199	16.853	121967.075	120090.398	-1.563
Aliphatic C28-C40	12371203.000	120.000	16.854	21.696	103093.358	101093.195	-1.979
Aliphatic EPH	43583327.000	360.000	3.171	21.696	121064.797	118799.912	-1.906

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	07 Nov 2024 12:46
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067656.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.452	8272580.000	60.000	ug/ml
Aliphatic C12-C16	6.453	9.842	5401387.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.198	7780791.000	60.000	ug/ml
Aliphatic C21-C28	13.199	16.853	9757366.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.696	12371203.000	120.000	ug/ml
Aliphatic EPH	3.171	21.696	43583327.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F110724AL\
 Data File : FC067656.D
 Signal(s) : FID1A.ch
 Acq On : 07 Nov 2024 12:46
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Nov 07 13:50:54 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:58 2024
 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)	11.492	2947302	20.086 ug/ml
Spiked Amount 50.000		Recovery =	40.17%
12) S 1-chlorooctadecane (S...	12.930	2201244	20.384 ug/ml
Spiked Amount 50.000		Recovery =	40.77%
Target Compounds			
1) T n-Nonane (C9)	3.271	2732244	20.281 ug/ml
2) T n-Decane (C10)	4.335	2772815	20.352 ug/ml
3) T A~Naphthalene (C11.7)	5.913	3027132	20.428 ug/ml
4) T n-Dodecane (C12)	6.350	2767521	20.433 ug/ml
5) T A~2-methylnaphthalene...	6.967	2891797	20.477 ug/ml
6) T n-Tetradecane (C14)	8.142	2689290	20.488 ug/ml
7) T n-Hexadecane (C16)	9.740	2712097	20.530 ug/ml
8) T n-Octadecane (C18)	11.180	2701589	20.449 ug/ml
10) T n-Eicosane (C20)	12.488	2566059	20.337 ug/ml
11) T n-Heneicosane (C21)	13.099	2513143	20.363 ug/ml
13) T n-Docosane (C22)	13.684	2488341	20.321 ug/ml
14) T n-Tetracosane (C24)	14.784	2460994	20.304 ug/ml
15) T n-Hexacosane (C26)	15.805	2418230	20.312 ug/ml
16) T n-Octacosane (C28)	16.752	2389801	20.313 ug/ml
17) T n-Tricontane (C30)	17.639	2443003	20.212 ug/ml
18) T n-Dotriacontane (C32)	18.469	2381475	20.127 ug/ml
19) T n-Tetratriacontane (C34)	19.251	2134102	20.378 ug/ml
20) T n-Hexatriacontane (C36)	19.990	1866187	20.501 ug/ml
21) T n-Octatriacontane (C38)	20.713	1808747	20.886 ug/ml
22) T n-Tetracontane (C40)	21.596	1737689	20.441 ug/ml

(f)=RT Delta > 1/2 Window

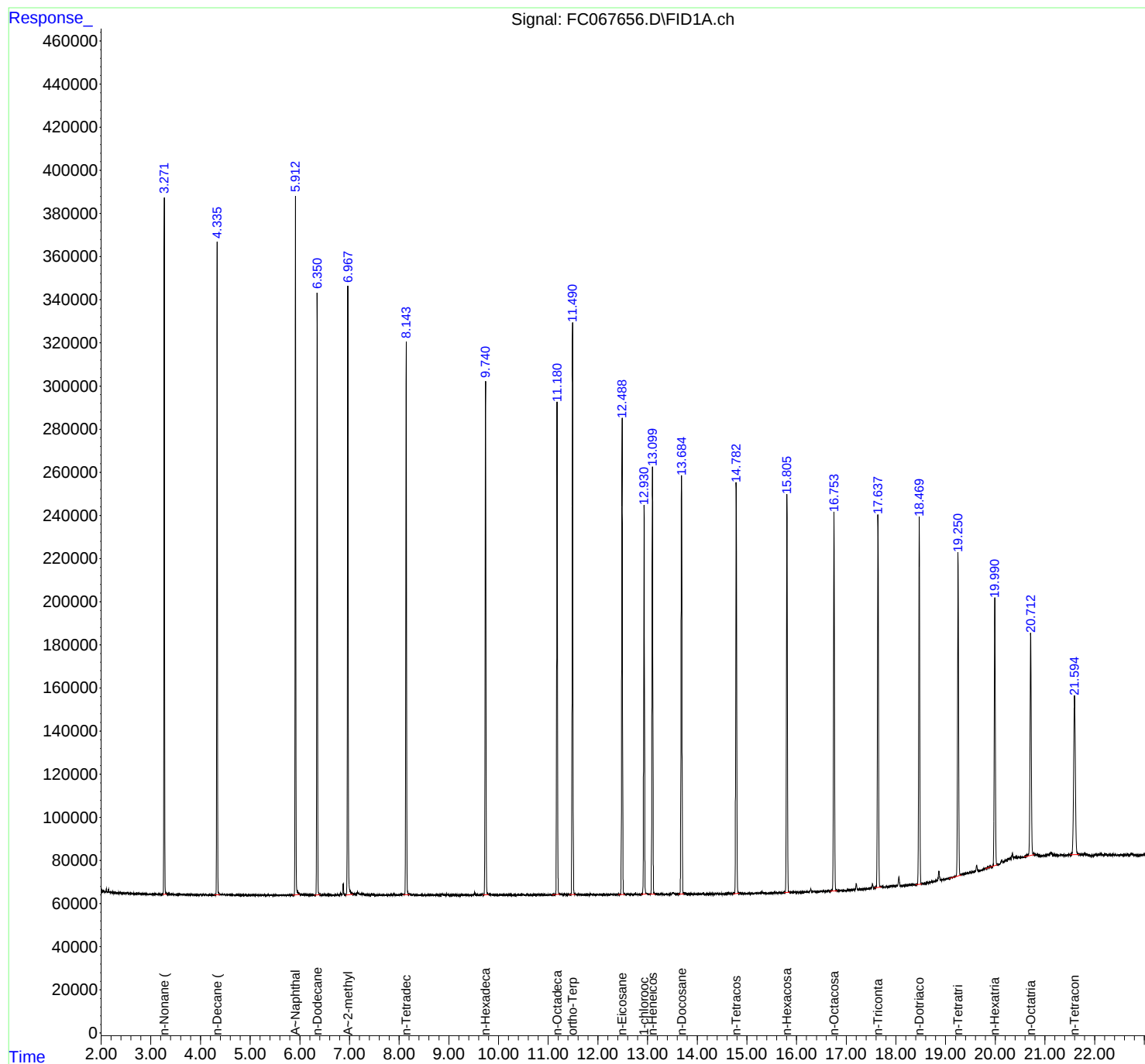
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
Data File : FC067656.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 12:46
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 07 13:50:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
 Data File : FC067656.D
 Signal(s) : FID1A.ch
 Acq On : 07 Nov 2024 12:46
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.271	3.245	3.324	BB	322317	2732244	90.26%	4.999%
2	4.335	4.274	4.394	BB	301955	2772815	91.60%	5.074%
3	5.913	5.852	6.000	BB	322459	3027132	100.00%	5.539%
4	6.350	6.295	6.414	BB	279041	2767521	91.42%	5.064%
5	6.967	6.920	7.077	BB	281867	2891797	95.53%	5.291%
6	8.142	8.080	8.210	BB	255907	2689290	88.84%	4.921%
7	9.740	9.685	9.800	BB	237857	2712097	89.59%	4.963%
8	11.180	11.077	11.235	BB	228273	2701589	89.25%	4.943%
9	11.492	11.429	11.552	BB	264435	2947302	97.36%	5.393%
10	12.488	12.420	12.550	BB	219492	2566059	84.77%	4.695%
11	12.930	12.872	12.984	BB	179920	2201244	72.72%	4.028%
12	13.099	13.034	13.159	BB	197185	2513143	83.02%	4.599%
13	13.684	13.619	13.739	BB	193682	2488341	82.20%	4.553%
14	14.784	14.722	14.850	BB	188429	2460994	81.30%	4.503%
15	15.805	15.744	15.859	BB	184761	2418230	79.89%	4.425%
16	16.752	16.674	16.822	BB	174522	2389801	78.95%	4.373%
17	17.639	17.565	17.702	BB	166136	2443003	80.70%	4.470%
18	18.469	18.399	18.525	BB	169769	2381475	78.67%	4.358%
19	19.251	19.070	19.312	BB	149741	2134102	70.50%	3.905%
20	19.990	19.804	20.044	BB	123793	1866187	61.65%	3.415%
21	20.713	20.577	20.789	BB	103140	1808747	59.75%	3.310%
22	21.596	21.507	21.685	BB	73285	1737689	57.40%	3.180%
Sum of corrected areas:							54650803	

Aliphatic EPH 102324.M Thu Nov 07 14:00:58 2024

Continuing Calibration Report for SequenceID : FC110724AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FC067666.D

Aliphatic C9-C12	8377570.000	60.000	3.171	6.452	139626.167	135469.641	-3.068
Aliphatic C12-C16	5480862.000	40.000	6.453	9.842	137021.550	131681.730	-4.055
Aliphatic C16-C21	7888638.000	60.000	9.843	13.198	131477.300	127235.092	-3.334
Aliphatic C21-C28	9900793.000	80.000	13.199	16.853	123759.913	120090.398	-3.056
Aliphatic C28-C40	12533852.000	120.000	16.854	21.696	104448.767	101093.195	-3.319
Aliphatic EPH	44181715.000	360.000	3.171	21.696	122726.986	118799.912	-3.306

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	07 Nov 2024 22:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067666.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.171	6.452	8377570.000	60.000	ug/ml
Aliphatic C12-C16	6.453	9.842	5480862.000	40.000	ug/ml
Aliphatic C16-C21	9.843	13.198	7888638.000	60.000	ug/ml
Aliphatic C21-C28	13.199	16.853	9900793.000	80.000	ug/ml
Aliphatic C28-C40	16.854	21.696	12533852.000	120.000	ug/ml
Aliphatic EPH	3.171	21.696	44181715.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F110724AL\
 Data File : FC067666.D
 Signal(s) : FID1A.ch
 Acq On : 07 Nov 2024 22:09
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
 Quant Time: Nov 08 01:07:49 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:58 2024
 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)	11.491	2974319	20.271 ug/ml
Spiked Amount 50.000		Recovery =	40.54%
12) S 1-chlorooctadecane (S...	12.929	2234180	20.689 ug/ml
Spiked Amount 50.000		Recovery =	41.38%
Target Compounds			
1) T n-Nonane (C9)	3.271	2763672	20.514 ug/ml
2) T n-Decane (C10)	4.335	2812074	20.640 ug/ml
3) T A~Naphthalene (C11.7)	5.913	3056372	20.625 ug/ml
4) T n-Dodecane (C12)	6.350	2801824	20.686 ug/ml
5) T A~2-methylnaphthalene...	6.968	2927765	20.732 ug/ml
6) T n-Tetradecane (C14)	8.142	2728142	20.784 ug/ml
7) T n-Hexadecane (C16)	9.740	2752720	20.838 ug/ml
8) T n-Octadecane (C18)	11.180	2743032	20.763 ug/ml
10) T n-Eicosane (C20)	12.487	2600353	20.609 ug/ml
11) T n-Heneicosane (C21)	13.098	2545253	20.624 ug/ml
13) T n-Docosane (C22)	13.683	2523166	20.606 ug/ml
14) T n-Tetracosane (C24)	14.784	2497861	20.608 ug/ml
15) T n-Hexacosane (C26)	15.804	2455745	20.627 ug/ml
16) T n-Octacosane (C28)	16.752	2424021	20.604 ug/ml
17) T n-Tricontane (C30)	17.637	2475521	20.481 ug/ml
18) T n-Dotriacontane (C32)	18.469	2415091	20.411 ug/ml
19) T n-Tetratriacontane (C34)	19.251	2167698	20.698 ug/ml
20) T n-Hexatriacontane (C36)	19.990	1895534	20.824 ug/mlm
21) T n-Octatriacontane (C38)	20.712	1822443	21.044 ug/ml
22) T n-Tetracontane (C40)	21.594	1757565	20.675 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
Data File : FC067666.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 22:09
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

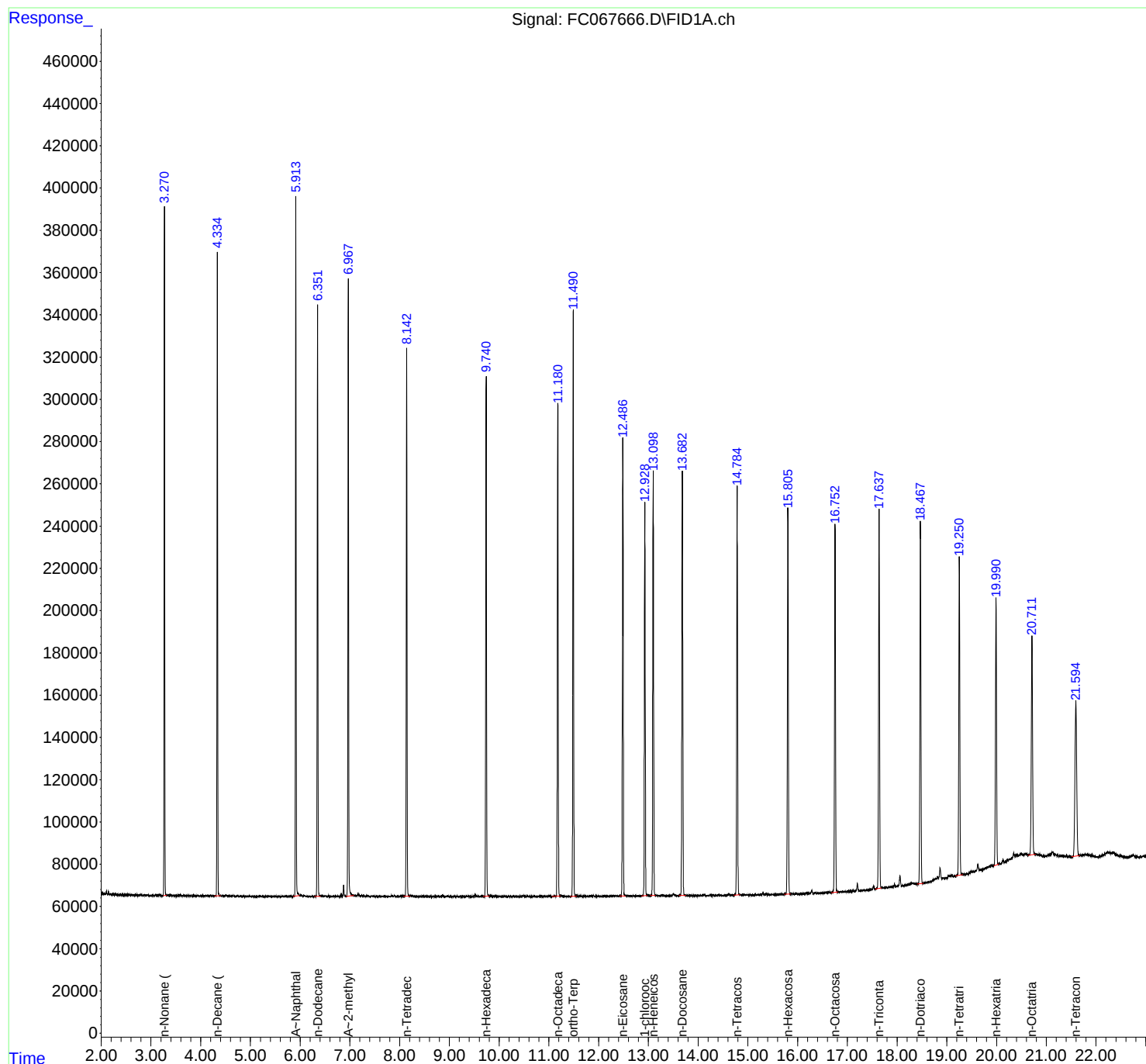
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
Quant Time: Nov 08 01:07:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11072
Data File : FC067666.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 22:09
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.271	3.245	3.319	BB	325340	2763672	90.42%	4.987%
2	4.335	4.274	4.404	BB	304167	2812074	92.01%	5.074%
3	5.913	5.857	5.989	BB	332453	3056372	100.00%	5.515%
4	6.350	6.285	6.409	BB	279476	2801824	91.67%	5.055%
5	6.968	6.920	7.072	BB	289872	2927765	95.79%	5.283%
6	8.142	8.077	8.207	BB	258630	2728142	89.26%	4.922%
7	9.740	9.682	9.802	BB	245619	2752720	90.06%	4.967%
8	11.180	11.062	11.235	BB	231651	2743032	89.75%	4.949%
9	11.491	11.435	11.554	BB	274911	2974319	97.32%	5.367%
10	12.487	12.419	12.535	BB	216455	2600353	85.08%	4.692%
11	12.929	12.864	12.977	BB	185867	2234180	73.10%	4.031%
12	13.098	13.035	13.145	BB	200578	2545253	83.28%	4.592%
13	13.683	13.614	13.745	BB	200651	2523166	82.55%	4.553%
14	14.784	14.717	14.844	BB	192945	2497861	81.73%	4.507%
15	15.804	15.740	15.865	BB	181344	2455745	80.35%	4.431%
16	16.752	16.674	16.815	BB	174112	2424021	79.31%	4.374%
17	17.637	17.564	17.684	BB	178588	2475521	81.00%	4.467%
18	18.469	18.402	18.529	BB	170482	2415091	79.02%	4.358%
19	19.251	19.180	19.322	BB	150050	2167698	70.92%	3.911%
20	19.990	19.714	20.055	BB	126675	1943255	63.58%	3.506%
21	20.712	20.630	20.785	BB	102641	1822443	59.63%	3.288%
22	21.594	21.502	21.674	BB	72587	1757565	57.50%	3.171%
Sum of corrected areas:						55422069		

Aliphatic EPH 102324.M Fri Nov 08 01:24:19 2024

Continuing Calibration Report for SequenceID : FE110824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE051085.D

Aliphatic C9-C12	9183172.000	60.000	3.140	6.757	153052.867	139914.732	-9.390
Aliphatic C12-C16	6155237.000	40.000	6.758	10.189	153880.925	140635.568	-9.418
Aliphatic C16-C21	9038555.000	60.000	10.190	13.548	150642.583	137768.027	-9.345
Aliphatic C21-C28	11641146.000	80.000	13.549	17.202	145514.325	133951.574	-8.632
Aliphatic C28-C40	15647091.000	120.000	17.203	22.047	130392.425	128748.418	-1.277
Aliphatic EPH	51665201.000	360.000	3.140	22.047	143514.447	134589.790	-6.631

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	07 Nov 2024 12:44
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051085.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.757	9183172.000	60.000	ug/ml
Aliphatic C12-C16	6.758	10.189	6155237.000	40.000	ug/ml
Aliphatic C16-C21	10.190	13.548	9038555.000	60.000	ug/ml
Aliphatic C21-C28	13.549	17.202	11641146.000	80.000	ug/ml
Aliphatic C28-C40	17.203	22.047	15647091.000	120.000	ug/ml
Aliphatic EPH	3.140	22.047	51665201.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
 Data File : FE051085.D
 Signal(s) : FID1B.ch
 Acq On : 07 Nov 2024 12:44
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Nov 08 02:02:37 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.851	3271196	21.794 ug/ml
Spiked Amount 50.000		Recovery =	43.59%
12) S 1-chlorooctadecane (S...	13.284	2480708	21.850 ug/ml
Spiked Amount 50.000		Recovery =	43.70%
Target Compounds			
1) T n-Nonane (C9)	3.240	3020874	21.832 ug/ml
2) T n-Decane (C10)	4.490	3063730	21.856 ug/ml
3) T A~Naphthalene (C11.7)	6.202	2969433	22.521 ug/ml
4) T n-Dodecane (C12)	6.657	3098568	21.945 ug/ml
5) T A~2-methylnaphthalene...	7.298	2761543	22.076 ug/ml
6) T n-Tetradecane (C14)	8.483	3045860	21.856 ug/ml
7) T n-Hexadecane (C16)	10.089	3109377	21.911 ug/ml
8) T n-Octadecane (C18)	11.530	3128737	21.909 ug/ml
10) T n-Eicosane (C20)	12.837	2985759	21.817 ug/ml
11) T n-Heneicosane (C21)	13.448	2924059	21.879 ug/ml
13) T n-Docosane (C22)	14.034	2901943	21.827 ug/ml
14) T n-Tetracosane (C24)	15.135	2896616	21.835 ug/ml
15) T n-Hexacosane (C26)	16.154	2907347	21.718 ug/ml
16) T n-Octacosane (C28)	17.102	2935240	21.531 ug/ml
17) T n-Tricontane (C30)	17.989	3075638	21.169 ug/ml
18) T n-Dotriacontane (C32)	18.821	3095179	20.845 ug/ml
19) T n-Tetratriacontane (C34)	19.603	2828676	21.052 ug/ml
20) T n-Hexatriacontane (C36)	20.344	2481947	20.801 ug/ml
21) T n-Octatriacontane (C38)	21.066	2233407	19.623 ug/ml
22) T n-Tetracontane (C40)	21.947	1932244	17.373 ug/ml

(f)=RT Delta > 1/2 Window

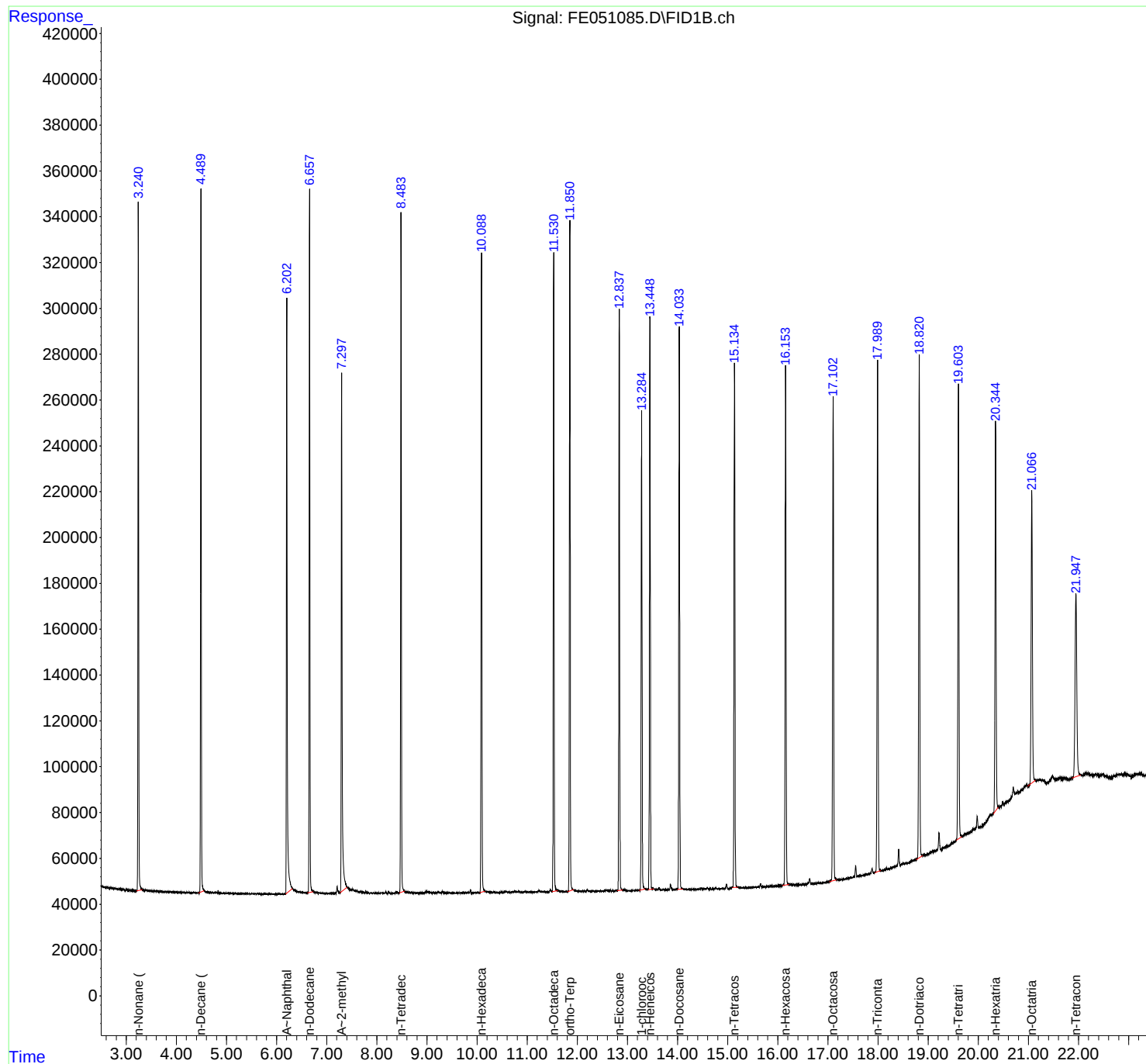
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
Data File : FE051085.D
Signal(s) : FID1B.ch
Acq On : 07 Nov 2024 12:44
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 08 02:02:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
Data File : FE051085.D
Signal(s) : FID1B.ch
Acq On : 07 Nov 2024 12:44
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 110724.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	3.240	3.201	3.321	BB	298681	3020874	92.35%	4.784%
2	4.490	4.448	4.555	BB	303477	3063730	93.66%	4.852%
3	6.202	6.178	6.315	BB	258670	2969433	90.78%	4.702%
4	6.657	6.615	6.731	BB	307573	3098568	94.72%	4.907%
5	7.298	7.265	7.408	BB	226180	2761543	84.42%	4.373%
6	8.483	8.448	8.551	BB	295056	3045860	93.11%	4.823%
7	10.089	10.048	10.158	BB	279237	3109377	95.05%	4.924%
8	11.530	11.491	11.605	BB	279009	3128737	95.65%	4.955%
9	11.851	11.805	11.921	BB	292749	3271196	100.00%	5.180%
10	12.837	12.791	12.908	BB	253094	2985759	91.27%	4.728%
11	13.284	13.228	13.355	BB	209341	2480708	75.83%	3.928%
12	13.448	13.411	13.518	BB	249175	2924059	89.39%	4.630%
13	14.034	13.998	14.105	BB	245327	2901943	88.71%	4.595%
14	15.135	15.098	15.205	BB	228248	2896616	88.55%	4.587%
15	16.154	16.091	16.221	BB	224328	2907347	88.88%	4.604%
16	17.102	17.025	17.171	BB	212439	2935240	89.73%	4.648%
17	17.989	17.941	18.051	BB	222170	3075638	94.02%	4.871%
18	18.821	18.761	18.888	BB	219608	3095179	94.62%	4.901%
19	19.603	19.561	19.671	BB	197400	2828676	86.47%	4.479%
20	20.344	20.301	20.398	BB	170068	2481947	75.87%	3.930%
21	21.066	20.991	21.135	BB	127422	2233407	68.27%	3.537%
22	21.947	21.871	22.041	BB	79902	1932244	59.07%	3.060%
Sum of corrected areas:							63148079	

Aliphatic EPH 110724.M Fri Nov 08 02:32:30 2024

Continuing Calibration Report for SequenceID : FE110824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE051103.D

Aliphatic C9-C12	9283904.000	60.000	3.140	6.757	154731.733	139914.732	-10.590
Aliphatic C12-C16	6136911.000	40.000	6.758	10.189	153422.775	140635.568	-9.092
Aliphatic C16-C21	8903525.000	60.000	10.190	13.548	148392.083	137768.027	-7.712
Aliphatic C21-C28	11663758.000	80.000	13.549	17.202	145796.975	133951.574	-8.843
Aliphatic C28-C40	15600991.000	120.000	17.203	22.047	130008.258	128748.418	-0.979
Aliphatic EPH	51589089.000	360.000	3.140	22.047	143303.025	134589.790	-6.474

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	08 Nov 2024 01:11
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051103.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.757	9283904.000	60.000	ug/ml
Aliphatic C12-C16	6.758	10.189	6136911.000	40.000	ug/ml
Aliphatic C16-C21	10.190	13.548	8903525.000	60.000	ug/ml
Aliphatic C21-C28	13.549	17.202	11663758.000	80.000	ug/ml
Aliphatic C28-C40	17.203	22.047	15600991.000	120.000	ug/ml
Aliphatic EPH	3.140	22.047	51589089.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
 Data File : FE051103.D
 Signal(s) : FID1B.ch
 Acq On : 08 Nov 2024 01:11
 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 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
 Quant Time: Nov 08 02:05:03 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.852	3238964	21.579 ug/ml
Spiked Amount 50.000		Recovery =	43.16%
12) S 1-chlorooctadecane (S...	13.285	2474800	21.798 ug/ml
Spiked Amount 50.000		Recovery =	43.60%
Target Compounds			
1) T n-Nonane (C9)	3.240	3066173	22.159 ug/ml
2) T n-Decane (C10)	4.491	3107767	22.170 ug/ml
3) T A~Naphthalene (C11.7)	6.204	2971207	22.535 ug/ml
4) T n-Dodecane (C12)	6.658	3109964	22.026 ug/ml
5) T A~2-methylnaphthalene...	7.300	2781417	22.235 ug/ml
6) T n-Tetradecane (C14)	8.485	3050755	21.891 ug/ml
7) T n-Hexadecane (C16)	10.091	3086156	21.748 ug/ml
8) T n-Octadecane (C18)	11.532	3081066	21.575 ug/ml
10) T n-Eicosane (C20)	12.839	2946117	21.527 ug/ml
11) T n-Heneicosane (C21)	13.450	2876342	21.522 ug/ml
13) T n-Docosane (C22)	14.036	2881371	21.673 ug/mlm
14) T n-Tetracosane (C24)	15.137	2910453	21.940 ug/ml
15) T n-Hexacosane (C26)	16.157	2927117	21.865 ug/ml
16) T n-Octacosane (C28)	17.105	2944817	21.601 ug/ml
17) T n-Tricontane (C30)	17.992	3076690	21.177 ug/ml
18) T n-Dotriacontane (C32)	18.824	3139758	21.146 ug/ml
19) T n-Tetratriacontane (C34)	19.607	2794090	20.795 ug/ml
20) T n-Hexatriacontane (C36)	20.347	2631216	22.052 ug/ml
21) T n-Octatriacontane (C38)	21.069	2148792	18.880 ug/ml
22) T n-Tetracontane (C40)	21.950	1810445	16.278 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110824AL\
Data File : FE051103.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 01:11
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

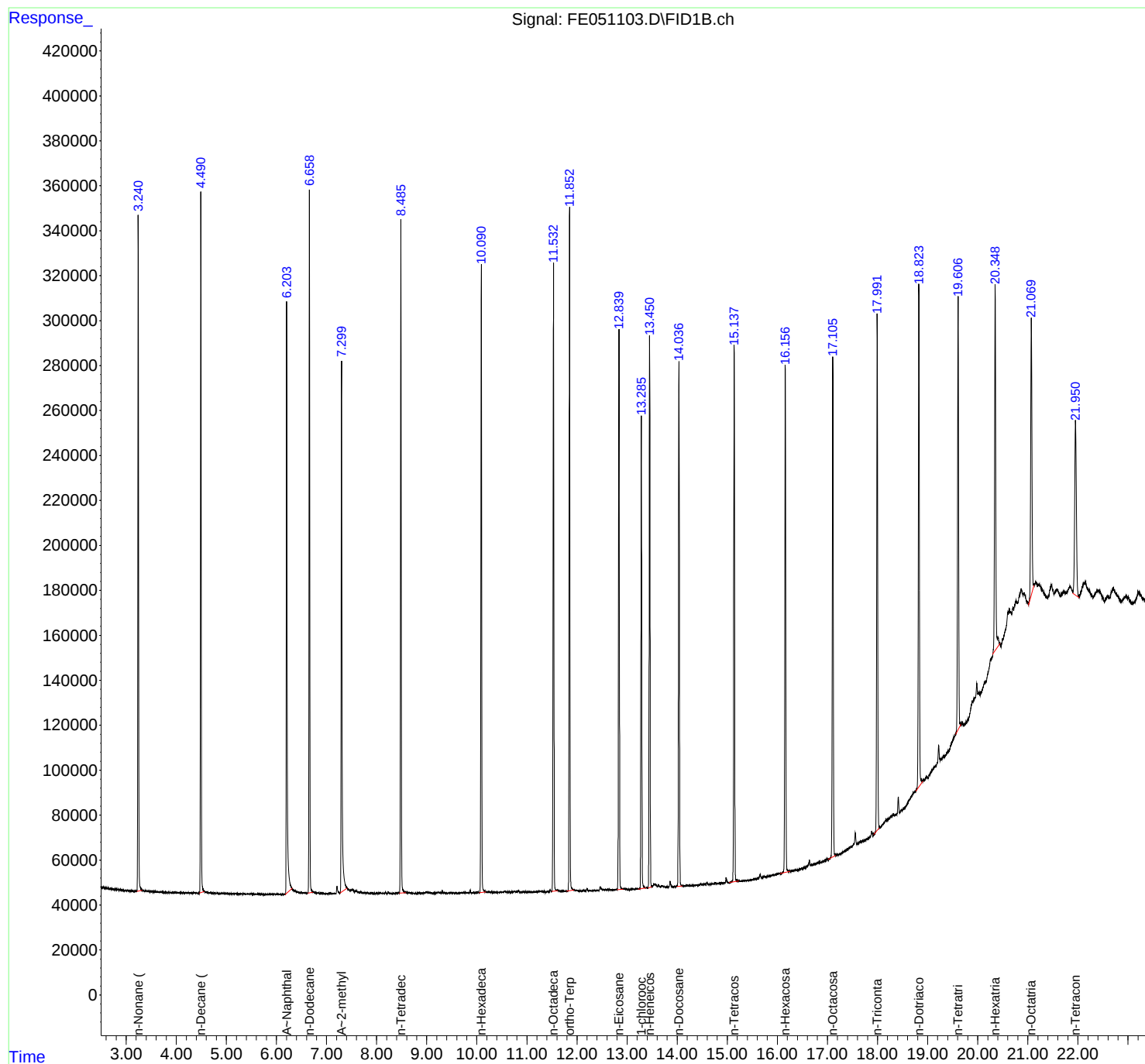
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
Quant Time: Nov 08 02:05:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11082
Data File : FE051103.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 01:11
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.240	3.211	3.321	BB	300520	3066173	94.67%	4.863%
2	4.491	4.458	4.558	BB	311168	3107767	95.95%	4.929%
3	6.204	6.178	6.311	BB	262269	2971207	91.73%	4.713%
4	6.658	6.628	6.734	BB	311977	3109964	96.02%	4.933%
5	7.300	7.268	7.408	BB	234567	2781417	85.87%	4.412%
6	8.485	8.448	8.588	BB	295664	3050755	94.19%	4.839%
7	10.091	10.051	10.181	BB	279886	3086156	95.28%	4.895%
8	11.532	11.491	11.614	BB	276494	3081066	95.13%	4.887%
9	11.852	11.788	11.941	BB	303545	3238964	100.00%	5.137%
10	12.839	12.798	12.924	BB	246166	2946117	90.96%	4.673%
11	13.285	13.218	13.374	BB	209515	2474800	76.41%	3.925%
12	13.450	13.411	13.494	BB	244926	2876342	88.80%	4.562%
13	14.036	13.818	14.124	BB	235669	2919885	90.15%	4.631%
14	15.137	15.041	15.224	BB	237897	2910453	89.86%	4.616%
15	16.157	16.051	16.251	BB	225521	2927117	90.37%	4.643%
16	17.105	17.011	17.171	BB	222677	2944817	90.92%	4.671%
17	17.992	17.921	18.038	BB	229913	3076690	94.99%	4.880%
18	18.824	18.761	18.904	BB	223402	3139758	96.94%	4.980%
19	19.607	19.561	19.658	BB	192197	2794090	86.26%	4.432%
20	20.347	20.301	20.441	BB	163343	2631216	81.24%	4.174%
21	21.069	21.018	21.124	BB	122589	2148792	66.34%	3.408%
22	21.951	21.871	22.018	BV	76763	1762035	54.40%	2.795%
Sum of corrected areas:						63045578		

Aliphatic EPH 110724.M Fri Nov 08 02:33:07 2024

Continuing Calibration Report for SequenceID : FE110924AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE051106.D

Aliphatic C9-C12	9286782.000	60.000	3.140	6.758	154779.700	139914.732	-10.624
Aliphatic C12-C16	6146623.000	40.000	6.759	10.191	153665.575	140635.568	-9.265
Aliphatic C16-C21	8900683.000	60.000	10.192	13.550	148344.717	137768.027	-7.677
Aliphatic C21-C28	11665637.000	80.000	13.551	17.206	145820.463	133951.574	-8.861
Aliphatic C28-C40	15458424.000	120.000	17.207	22.053	128820.200	128748.418	-0.056
Aliphatic EPH	51458149.000	360.000	3.140	22.053	142939.303	134589.790	-6.204

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	08 Nov 2024 05:18
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051106.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.758	9286782.000	60.000	ug/ml
Aliphatic C12-C16	6.759	10.191	6146623.000	40.000	ug/ml
Aliphatic C16-C21	10.192	13.550	8900683.000	60.000	ug/ml
Aliphatic C21-C28	13.551	17.206	11665637.000	80.000	ug/ml
Aliphatic C28-C40	17.207	22.053	15458424.000	120.000	ug/ml
Aliphatic EPH	3.140	22.053	51458149.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
 Data File : FE051106.D
 Signal(s) : FID1B.ch
 Acq On : 08 Nov 2024 05:18
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/11/2024
 Supervised By :Ankita Jodhani 11/11/2024

Integration File: sample.E
 Quant Time: Nov 08 12:09:26 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 Qlast Update : Thu Nov 07 04:56:04 2024
 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)	11.852	3237669	21.571 ug/ml
Spiked Amount 50.000		Recovery =	43.14%
12) S 1-chlorooctadecane (S...	13.285	2469224	21.749 ug/ml
Spiked Amount 50.000		Recovery =	43.50%
Target Compounds			
1) T n-Nonane (C9)	3.240	3057448	22.096 ug/ml
2) T n-Decane (C10)	4.490	3109008	22.179 ug/ml
3) T A~Naphthalene (C11.7)	6.204	2998417	22.741 ug/ml
4) T n-Dodecane (C12)	6.658	3120326	22.099 ug/ml
5) T A~2-methylnaphthalene...	7.300	2764038	22.096 ug/ml
6) T n-Tetradecane (C14)	8.485	3055312	21.923 ug/ml
7) T n-Hexadecane (C16)	10.091	3091311	21.784 ug/ml
8) T n-Octadecane (C18)	11.532	3080628	21.572 ug/ml
10) T n-Eicosane (C20)	12.839	2943220	21.506 ug/ml
11) T n-Heneicosane (C21)	13.450	2876835	21.526 ug/ml
13) T n-Docosane (C22)	14.035	2874118	21.618 ug/ml
14) T n-Tetracosane (C24)	15.137	2911860	21.950 ug/ml
15) T n-Hexacosane (C26)	16.156	2923436	21.838 ug/ml
16) T n-Octacosane (C28)	17.106	2956223	21.684 ug/ml
17) T n-Tricontane (C30)	17.993	3078961	21.192 ug/ml
18) T n-Dotriacontane (C32)	18.824	3119435	21.009 ug/ml
19) T n-Tetratriacontane (C34)	19.607	2814520	20.947 ug/ml
20) T n-Hexatriacontane (C36)	20.346	2596607	21.762 ug/ml
21) T n-Octatriacontane (C38)	21.070	2133828	18.748 ug/mlm
22) T n-Tetracontane (C40)	21.953	1715073	15.420 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
Data File : FE051106.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 05:18
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

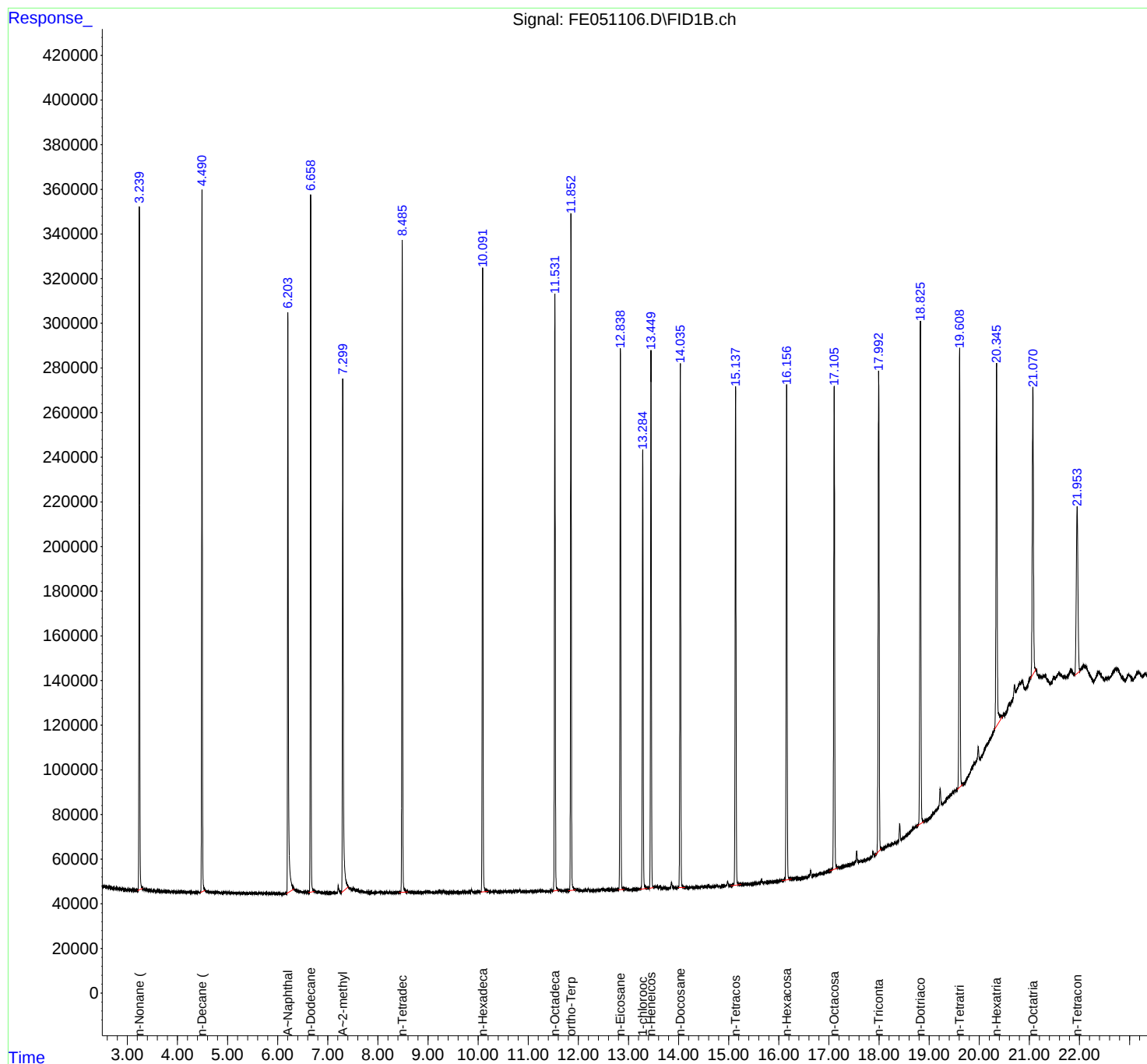
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

Integration File: sample.E
Quant Time: Nov 08 12:09:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
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 11/11/2024
Supervised By :Ankita Jodhani 11/11/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11092
Data File : FE051106.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 05:18
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.240	3.208	3.301	BB	305035	3057448	94.43%	4.848%
2	4.490	4.458	4.551	BB	314808	3109008	96.03%	4.930%
3	6.204	6.178	6.328	BB	256349	2998417	92.61%	4.754%
4	6.658	6.621	6.734	BB	311972	3120326	96.38%	4.948%
5	7.300	7.271	7.408	BB	229020	2764038	85.37%	4.383%
6	8.485	8.428	8.594	BB	291649	3055312	94.37%	4.845%
7	10.091	10.051	10.204	BB	280265	3091311	95.48%	4.902%
8	11.532	11.491	11.611	BB	266680	3080628	95.15%	4.885%
9	11.852	11.798	11.948	BB	301868	3237669	100.00%	5.134%
10	12.839	12.798	12.921	BB	240721	2943220	90.91%	4.667%
11	13.285	13.221	13.378	BB	196978	2469224	76.27%	3.915%
12	13.450	13.411	13.501	BB	240003	2876835	88.86%	4.562%
13	14.035	13.998	14.131	BB	233357	2874118	88.77%	4.557%
14	15.137	15.041	15.248	BB	223874	2911860	89.94%	4.617%
15	16.156	16.064	16.251	BB	223359	2923436	90.29%	4.636%
16	17.106	17.011	17.181	BB	217228	2956223	91.31%	4.688%
17	17.993	17.921	18.034	BB	215840	3078961	95.10%	4.882%
18	18.824	18.761	18.898	BB	223963	3119435	96.35%	4.946%
19	19.607	19.561	19.668	BB	196270	2814520	86.93%	4.463%
20	20.346	20.301	20.454	BB	162959	2596607	80.20%	4.117%
21	21.070	21.011	21.174	BB	130018	2271418	70.16%	3.602%
22	21.952	21.901	22.014	BB	74725	1716024	53.00%	2.721%
Sum of corrected areas:						63066037		

Aliphatic EPH 110724.M Fri Nov 08 12:16:11 2024

Continuing Calibration Report for SequenceID : FE110924AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE051116.D

Aliphatic C9-C12	8815295.000	60.000	3.140	6.758	146921.583	139914.732	-5.008
Aliphatic C12-C16	5757616.000	40.000	6.759	10.191	143940.400	140635.568	-2.350
Aliphatic C16-C21	8410292.000	60.000	10.192	13.550	140171.533	137768.027	-1.745
Aliphatic C21-C28	11021730.000	80.000	13.551	17.206	137771.625	133951.574	-2.852
Aliphatic C28-C40	14486876.000	120.000	17.207	22.053	120723.967	128748.418	6.233
Aliphatic EPH	48491809.000	360.000	3.140	22.053	134699.469	134589.790	-0.081

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	08 Nov 2024 13:07
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051116.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.140	6.758	8815295.000	60.000	ug/ml
Aliphatic C12-C16	6.759	10.191	5757616.000	40.000	ug/ml
Aliphatic C16-C21	10.192	13.550	8410292.000	60.000	ug/ml
Aliphatic C21-C28	13.551	17.206	11021730.000	80.000	ug/ml
Aliphatic C28-C40	17.207	22.053	14486876.000	120.000	ug/ml
Aliphatic EPH	3.140	22.053	48491809.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
 Data File : FE051116.D
 Signal(s) : FID1B.ch
 Acq On : 08 Nov 2024 13:07
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: sample.E
 Quant Time: Nov 09 00:42:04 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
 Quant Title : GC Extractables
 QLast Update : Thu Nov 07 04:56:04 2024
 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)	11.852	3055951	20.360 ug/ml
Spiked Amount 50.000		Recovery =	40.72%
12) S 1-chlorooctadecane (S...	13.286	2324094	20.471 ug/ml
Spiked Amount 50.000		Recovery =	40.94%
Target Compounds			
1) T n-Nonane (C9)	3.239	2915388	21.070 ug/ml
2) T n-Decane (C10)	4.490	2962720	21.135 ug/ml
3) T A~Naphthalene (C11.7)	6.203	2779659	21.082 ug/ml
4) T n-Dodecane (C12)	6.658	2937187	20.802 ug/ml
5) T A~2-methylnaphthalene...	7.299	2585644	20.670 ug/ml
6) T n-Tetradecane (C14)	8.485	2860077	20.522 ug/ml
7) T n-Hexadecane (C16)	10.090	2897539	20.418 ug/ml
8) T n-Octadecane (C18)	11.532	2903527	20.332 ug/ml
10) T n-Eicosane (C20)	12.840	2782504	20.332 ug/ml
11) T n-Heneicosane (C21)	13.451	2724261	20.384 ug/ml
13) T n-Docosane (C22)	14.036	2722623	20.479 ug/ml
14) T n-Tetracosane (C24)	15.137	2735985	20.624 ug/ml
15) T n-Hexacosane (C26)	16.156	2766525	20.666 ug/ml
16) T n-Octacosane (C28)	17.105	2796597	20.514 ug/ml
17) T n-Tricontane (C30)	17.993	2920078	20.099 ug/ml
18) T n-Dotriacontane (C32)	18.825	2920126	19.667 ug/ml
19) T n-Tetratriacontane (C34)	19.608	2640566	19.652 ug/ml
20) T n-Hexatriacontane (C36)	20.348	2285267	19.153 ug/ml
21) T n-Octatriacontane (C38)	21.072	2027367	17.813 ug/ml
22) T n-Tetracontane (C40)	21.955	1693472	15.226 ug/ml

(f)=RT Delta > 1/2 Window

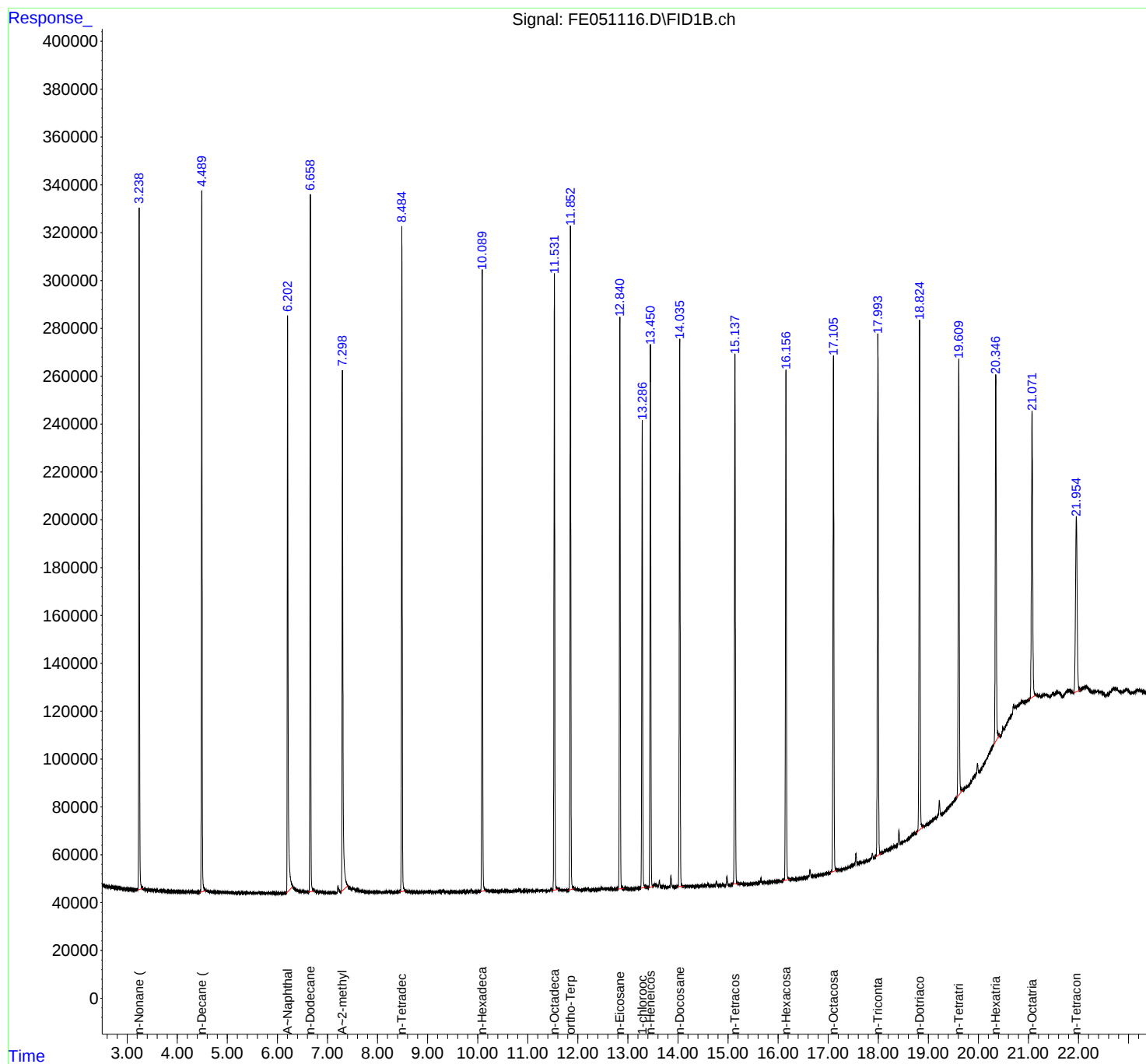
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
Data File : FE051116.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 13:07
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 09 00:42:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 u1
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110924AL\
Data File : FE051116.D
Signal(s) : FID1B.ch
Acq On : 08 Nov 2024 13:07
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.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	3.239	3.208	3.304	BB	284811	2915388	95.40%	4.922%
2	4.490	4.458	4.571	BB	292267	2962720	96.95%	5.001%
3	6.203	6.178	6.304	BB	236242	2779659	90.96%	4.692%
4	6.658	6.624	6.731	BB	290675	2937187	96.11%	4.958%
5	7.299	7.268	7.404	BB	217384	2585644	84.61%	4.365%
6	8.485	8.441	8.558	BB	277152	2860077	93.59%	4.828%
7	10.090	10.054	10.161	BB	257926	2897539	94.82%	4.891%
8	11.532	11.488	11.604	BB	256527	2903527	95.01%	4.902%
9	11.852	11.811	11.924	BB	276404	3055951	100.00%	5.159%
10	12.840	12.801	12.911	BB	239775	2782504	91.05%	4.697%
11	13.286	13.251	13.358	BB	194811	2324094	76.05%	3.923%
12	13.451	13.414	13.498	BB	225062	2724261	89.15%	4.599%
13	14.036	14.001	14.104	BB	226834	2722623	89.09%	4.596%
14	15.137	15.101	15.211	BB	221483	2735985	89.53%	4.619%
15	16.156	16.081	16.224	BB	212456	2766525	90.53%	4.670%
16	17.105	17.038	17.174	BB	214540	2796597	91.51%	4.721%
17	17.993	17.934	18.064	BB	216561	2920078	95.55%	4.929%
18	18.825	18.761	18.898	BB	213208	2920126	95.56%	4.930%
19	19.608	19.561	19.681	BB	181984	2640566	86.41%	4.458%
20	20.348	20.301	20.414	BB	152371	2285267	74.78%	3.858%
21	21.072	21.011	21.144	BB	119675	2027367	66.34%	3.422%
22	21.955	21.901	22.031	BB	73210	1693472	55.42%	2.859%
Sum of corrected areas:							59237155	

Aliphatic EPH 110724.M Sun Nov 10 23:52:03 2024



QC SAMPLE DATA

Report of Analysis

Client:	Walsh Construction Company II, LLC		Date Collected:		
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2		Date Received:		
Client Sample ID:	PB164751BL		SDG No.:	P4722	
Lab Sample ID:	PB164751BL		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
11/07/24 09:50	11/07/24 16:01	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067657.D
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1	1.72	3.99	mg/kg	FC067657.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164751BL	SDG No.:	P4722
Lab Sample ID:	PB164751BL	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
FC067657.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.7		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.5		40 - 140	87%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164751BL	Acq On:	07 Nov 2024 16:01
Client Sample ID:	PB164751BL	Operator:	YP/AJ
Data file:	FC067657.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	0	0	300	ug/ml
Aliphatic C12-C16	6.453	9.842	0	0	200	ug/ml
Aliphatic C16-C21	9.843	13.198	0	0	300	ug/ml
Aliphatic C21-C28	13.199	16.853	0	0	400	ug/ml
Aliphatic C28-C40	16.854	21.696	0	0	600	ug/ml
Aliphatic EPH	3.171	21.696	0	0		ug/ml
ortho-Terphenyl (SURR)	11.495	11.495	6376641	43.46		ug/ml
1-chlorooctadecane (SURR)	12.933	12.933	4824972	44.68		ug/ml
Aliphatic C9-C28	3.171	16.853	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
 Data File : FC067657.D
 Signal(s) : FID1A.ch
 Acq On : 07 Nov 2024 16:01
 Operator : YP/AJ
 Sample : PB164751BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB164751BL

Integration File: autoint1.e
 Quant Time: Nov 08 01:06:26 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:58 2024
 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)	11.495	6376641	43.458 ug/ml
Spiked Amount 50.000		Recovery =	86.92%
12) S 1-chlorooctadecane (S...	12.933	4824972	44.681 ug/ml
Spiked Amount 50.000		Recovery =	89.36%

Target Compounds

(f)=RT Delta > 1/2 Window

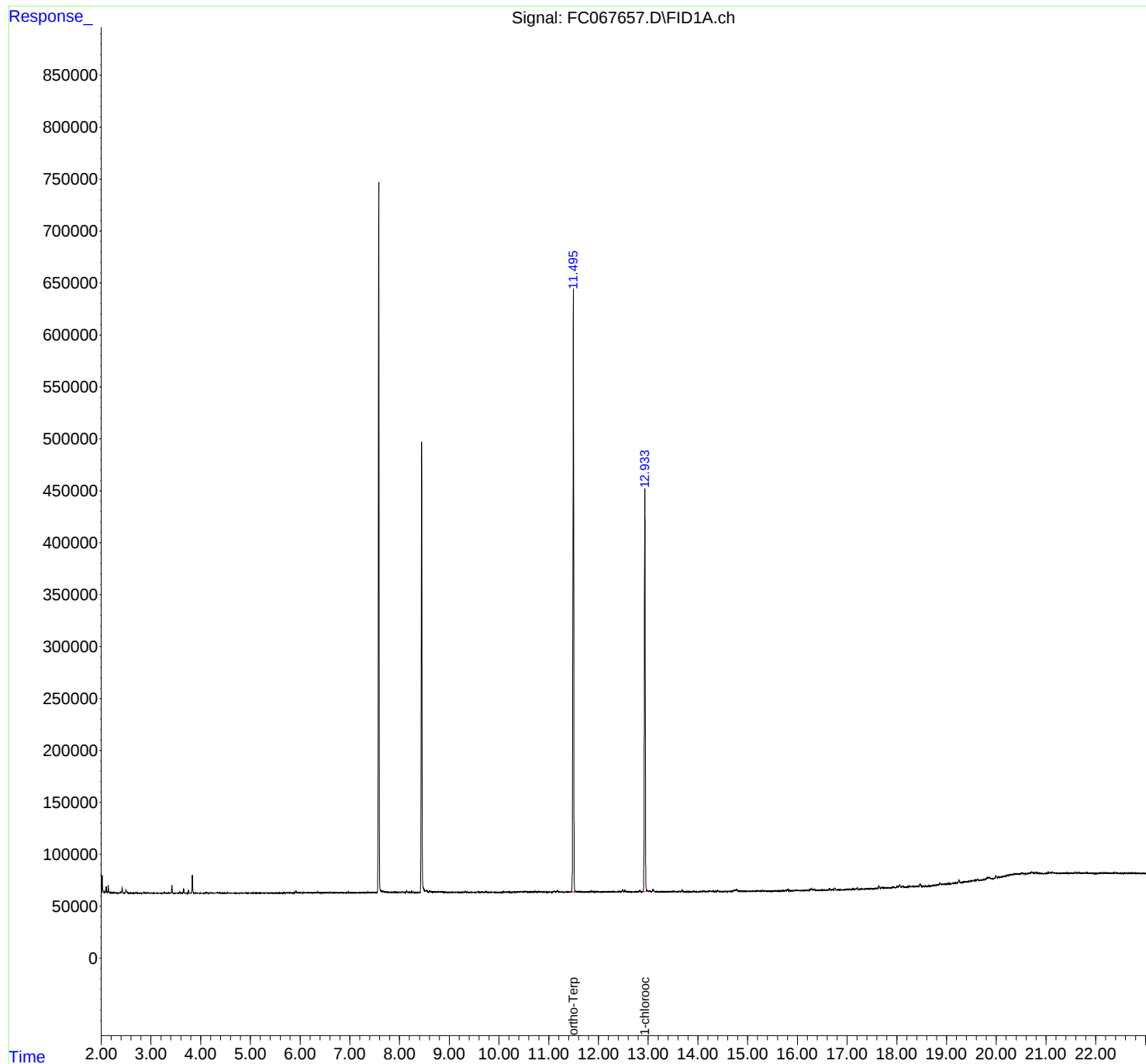
(m)=manual int.

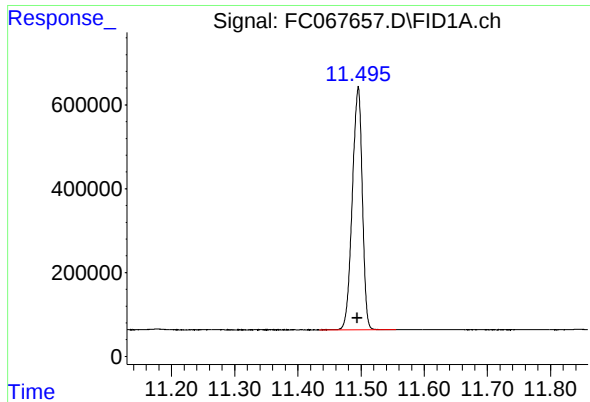
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
Data File : FC067657.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 16:01
Operator : YP/AJ
Sample : PB164751BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164751BL

Integration File: autoint1.e
Quant Time: Nov 08 01:06:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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

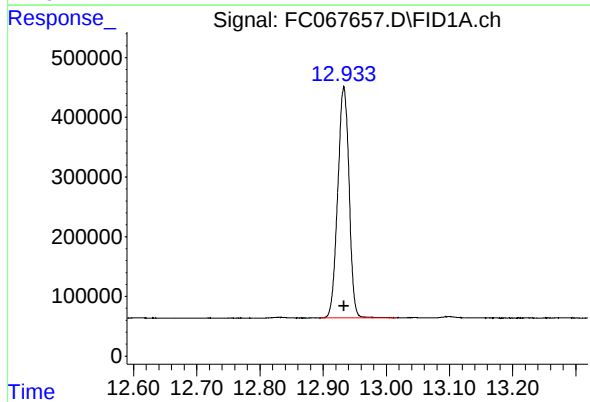




#9 ortho-Terphenyl (SURR)

R.T.: 11.495 min
Delta R.T.: 0.001 min
Response: 6376641
Conc: 43.46 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164751BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.933 min
Delta R.T.: 0.000 min
Response: 4824972
Conc: 44.68 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
Data File : FC067657.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 16:01
Sample : PB164751BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	11.495	11.434	11.555	BB	579387	6376641	100.00%	56.926%
2	12.933	12.894	13.015	BB	388388	4824972	75.67%	43.074%
Sum of corrected areas:							11201613	

Aliphatic EPH 102324.M Fri Nov 08 01:21:10 2024

Report of Analysis

Client:	Walsh Construction Company II, LLC		Date Collected:		
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2		Date Received:		
Client Sample ID:	PB164751BS		SDG No.:	P4722	
Lab Sample ID:	PB164751BS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/07/24 16:38	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	27.0		1	1.80	2.00	mg/kg	FC067658.D
Aliphatic C9-C28	Aliphatic C9-C28	68.6		1	1.72	4.00	mg/kg	FC067658.D
Total AliphaticEPH	Total AliphaticEPH	95.6			3.52	6.00	mg/kg	
Total EPH	Total EPH	95.6			3.52	6.00	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164751BS	SDG No.:	P4722
Lab Sample ID:	PB164751BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067658.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	68.6		1.72	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	27.0		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.5		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.8		40 - 140	70%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164751BS	Acq On:	07 Nov 2024 16:38
Client Sample ID:	PB164751BS	Operator:	YP/AJ
Data file:	FC067658.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	23340030	172.29	300	ug/ml
Aliphatic C12-C16	6.453	9.842	30785801	233.789	200	ug/ml
Aliphatic C16-C21	9.843	13.198	34492727	271.094	300	ug/ml
Aliphatic C21-C28	13.199	16.853	42081404	350.414	400	ug/ml
Aliphatic C28-C40	16.854	21.696	41020113	405.765	600	ug/ml
Aliphatic EPH	3.171	21.696	171720075	1430		ug/ml
ortho-Terphenyl (SURR)	11.494	11.494	5102855	34.78		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	3829694	35.46		ug/ml
Aliphatic C9-C28	3.171	16.853	130699962	1030	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F110724AL\
 Data File : FC067658.D
 Signal(s) : FID1A.ch
 Acq On : 07 Nov 2024 16:38
 Operator : YP/AJ
 Sample : PB164751BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

FID_C

ClientSampleId :

PB164751BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e

Quant Time: Nov 08 01:06:34 2024

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M

Quant Title : GC Extractables

QLast Update : Wed Oct 23 18:12:58 2024

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)	11.494	5102855	34.777 ug/ml
Spiked Amount 50.000		Recovery =	69.55%
12) S 1-chlorooctadecane (S...	12.931	3829694	35.464 ug/ml
Spiked Amount 50.000		Recovery =	70.93%
Target Compounds			
1) T n-Nonane (C9)	3.279	4215635	31.292 ug/ml
2) T n-Decane (C10)	4.340	4481825	32.895 ug/ml
3) T A~Naphthalene (C11.7)	5.914	5114029	34.510 ug/ml
4) T n-Dodecane (C12)	6.352	4750277	35.072 ug/ml
5) T A~2-methylnaphthalene...	6.969	4818888	34.123 ug/ml
6) T n-Tetradecane (C14)	8.145	4905414	37.372 ug/ml
7) T n-Hexadecane (C16)	9.742	4901794	37.106 ug/ml
8) T n-Octadecane (C18)	11.183	4897714	37.072 ug/ml
10) T n-Eicosane (C20)	12.490	4900440	38.838 ug/ml
11) T n-Heneicosane (C21)	13.100	4704717	38.121 ug/ml
13) T n-Docosane (C22)	13.685	4654392	38.011 ug/ml
14) T n-Tetracosane (C24)	14.756	9281659	76.575 ug/mlm
15) T n-Hexacosane (C26)	15.807	4509524	37.877 ug/ml
16) T n-Octacosane (C28)	16.754	4503733	38.282 ug/ml
17) T n-Tricontane (C30)	17.642	4502136	37.247 ug/ml
18) T n-Dotriacontane (C32)	18.472	4451418	37.622 ug/ml
19) T n-Tetratriacontane (C34)	19.253	4490201	42.875 ug/ml
20) T n-Hexatriacontane (C36)	19.993	4348288	47.769 ug/ml
21) T n-Octatriacontane (C38)	20.714	4384931	50.633 ug/ml
22) T n-Tetracontane (C40)	21.599	4340733	51.061 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
Data File : FC067658.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 16:38
Operator : YP/AJ
Sample : PB164751BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :

FID_C

Client Sample Id :

PB164751BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e

Quant Time: Nov 08 01:06:34 2024

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M

Quant Title : GC Extractables

QLast Update : Wed Oct 23 18:12:58 2024

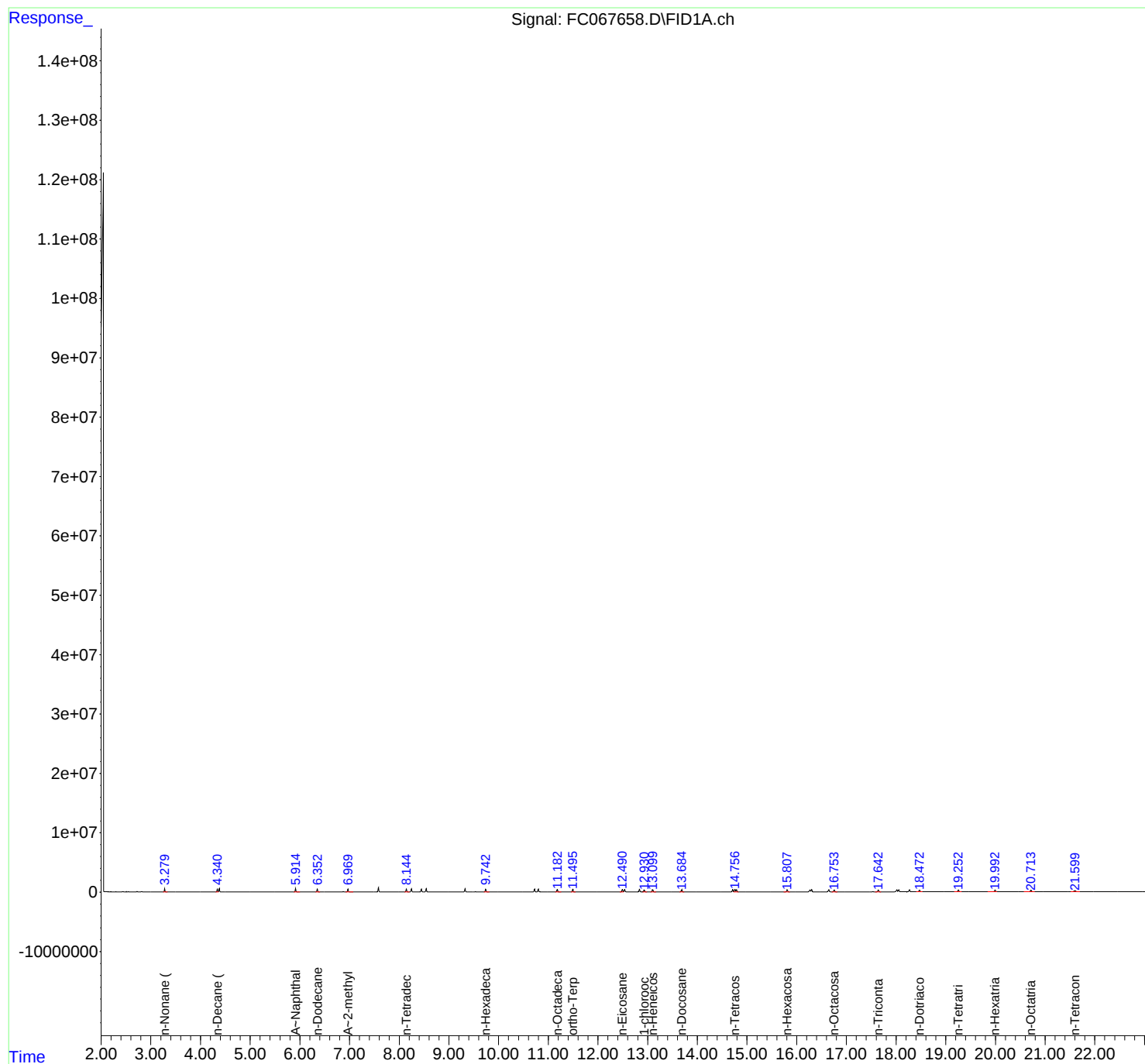
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um



rteres

Instrument :

FID_C

ClientSampleId :

PB164751BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11072
Data File : FC067658.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 16:38
Sample : PB164751BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.279	3.247	3.337	BB	505075	4215635	76.39%	2.334%
2	4.340	4.304	4.359	BV	500715	4481825	81.22%	2.481%
3	4.378	4.359	4.454	VB	543931	4778264	86.59%	2.645%
4	5.914	5.875	6.000	BB	545143	5114029	92.67%	2.831%
5	6.352	6.319	6.407	BB	478808	4750277	86.08%	2.630%
6	6.969	6.922	7.074	BB	479965	4818888	87.32%	2.667%
7	8.145	8.109	8.207	BB	464570	4905414	88.89%	2.715%
8	8.248	8.212	8.329	BB	522743	5313040	96.28%	2.941%
9	8.545	8.514	8.622	VB	547025	5518361	100.00%	3.055%
10	9.327	9.287	9.434	BB	507389	5328304	96.56%	2.949%
11	9.742	9.704	9.812	BB	443923	4901794	88.83%	2.713%
12	10.725	10.664	10.769	BV	465758	5091188	92.26%	2.818%
13	10.801	10.769	10.922	VB	460630	5096210	92.35%	2.821%
14	11.183	11.139	11.260	BB	417062	4897714	88.75%	2.711%
15	11.494	11.454	11.552	BB	462767	5102855	92.47%	2.825%
16	12.490	12.440	12.513	BV	412047	4900440	88.80%	2.713%
17	12.539	12.513	12.609	VB	426133	4904046	88.87%	2.715%
18	12.836	12.792	12.871	BV	443859	4898412	88.77%	2.712%
19	12.931	12.900	12.989	VB	312320	3829694	69.40%	2.120%
20	13.100	13.059	13.170	BB	374421	4704717	85.26%	2.604%
21	13.685	13.642	13.734	BB	372815	4654392	84.34%	2.576%
22	14.712	14.669	14.732	BV	381889	4747311	86.03%	2.628%
23	14.755	14.732	14.770	VV	406283	4837787	87.67%	2.678%
24	14.786	14.770	14.864	VB	347364	4512885	81.78%	2.498%
25	15.807	15.735	15.862	BB	354467	4509524	81.72%	2.496%
26	16.266	16.199	16.282	BV	331148	4786496	86.74%	2.650%
27	16.301	16.282	16.350	VV	408989	4829274	87.51%	2.673%
28	16.646	16.577	16.705	BV	370644	4700002	85.17%	2.602%
29	16.754	16.705	16.820	VB	329531	4503733	81.61%	2.493%
30	17.642	17.577	17.697	BB	328503	4502136	81.58%	2.492%
31	18.016	17.909	18.032	BV	347090	4945585	89.62%	2.738%
32	18.055	18.032	18.157	VB	343003	4732468	85.76%	2.620%
33	18.271	18.197	18.347	BB	353994	4824353	87.42%	2.671%
34	18.472	18.407	18.532	BB	314167	4451418	80.67%	2.464%
35	19.253	19.169	19.320	BB	298754	4490201	81.37%	2.486%
36	19.993	19.842	20.032	BB	289450	4348288	78.80%	2.407%

rters
37 20.714 20.574 20.790 BB 245938 4384931 79.46% 2.427%
38 21.599 21.512 21.697 BB 184080 4340733 78
Sum of corrected areas: 1806

Aliphatic EPH 102324.M Fri Nov 08 01:22:05 2024

Instrument :

FID_C

ClientSampleId :

PB164751BS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Report of Analysis

Client:	Walsh Construction Company II, LLC		Date Collected:		
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2		Date Received:		
Client Sample ID:	PB164751BSD		SDG No.:	P4722	
Lab Sample ID:	PB164751BSD		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
11/07/24 09:50	11/07/24 17:15	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	26.9		1	1.80	2.00	mg/kg	FC067659.D
Aliphatic C9-C28	Aliphatic C9-C28	67.7		1	1.72	3.99	mg/kg	FC067659.D
Total AliphaticEPH	Total AliphaticEPH	94.6			3.52	5.99	mg/kg	
Total EPH	Total EPH	94.6			3.52	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	PB164751BSD	SDG No.:	P4722
Lab Sample ID:	PB164751BSD	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
FC067659.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	67.7		1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.9		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.3		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.5		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164751BSD	Acq On:	07 Nov 2024 17:15
Client Sample ID:	PB164751BSD	Operator:	YP/AJ
Data file:	FC067659.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	22832781	168.545	300	ug/ml
Aliphatic C12-C16	6.453	9.842	30414547	230.97	200	ug/ml
Aliphatic C16-C21	9.843	13.198	34276315	269.394	300	ug/ml
Aliphatic C21-C28	13.199	16.853	41846131	348.455	400	ug/ml
Aliphatic C28-C40	16.854	21.696	40767490	403.266	600	ug/ml
Aliphatic EPH	3.171	21.696	170137264	1420		ug/ml
ortho-Terphenyl (SURR)	11.494	11.494	5066893	34.53		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	3816449	35.34		ug/ml
Aliphatic C9-C28	3.171	16.853	129369774	1020	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F110724AL\
 Data File : FC067659.D
 Signal(s) : FID1A.ch
 Acq On : 07 Nov 2024 17:15
 Operator : YP/AJ
 Sample : PB164751BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB164751BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
 Quant Time: Nov 08 01:06:44 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:58 2024
 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)	11.494	5066893	34.532 ug/ml
Spiked Amount 50.000		Recovery =	69.06%
12) S 1-chlorooctadecane (S...	12.931	3816449	35.341 ug/ml
Spiked Amount 50.000		Recovery =	70.68%
Target Compounds			
1) T n-Nonane (C9)	3.278	4113557	30.534 ug/ml
2) T n-Decane (C10)	4.340	4378073	32.134 ug/ml
3) T A~Naphthalene (C11.7)	5.915	5008336	33.797 ug/ml
4) T n-Dodecane (C12)	6.352	4668453	34.468 ug/ml
5) T A~2-methylnaphthalene...	6.970	4730723	33.499 ug/ml
6) T n-Tetradecane (C14)	8.146	4848605	36.939 ug/ml
7) T n-Hexadecane (C16)	9.742	4861024	36.797 ug/ml
8) T n-Octadecane (C18)	11.182	4867643	36.844 ug/ml
10) T n-Eicosane (C20)	12.490	4883238	38.701 ug/ml
11) T n-Heneicosane (C21)	13.100	4682507	37.941 ug/ml
13) T n-Docosane (C22)	13.685	4639948	37.893 ug/ml
14) T n-Tetracosane (C24)	14.756	9263132	76.422 ug/mlm
15) T n-Hexacosane (C26)	15.806	4486168	37.681 ug/ml
16) T n-Octacosane (C28)	16.754	4482776	38.104 ug/ml
17) T n-Tricontane (C30)	17.642	4475292	37.025 ug/ml
18) T n-Dotriacontane (C32)	18.471	4430187	37.442 ug/ml
19) T n-Tetratriacontane (C34)	19.252	4459895	42.586 ug/ml
20) T n-Hexatriacontane (C36)	19.991	4314896	47.402 ug/ml
21) T n-Octatriacontane (C38)	20.713	4346017	50.184 ug/ml
22) T n-Tetracontane (C40)	21.598	4320743	50.826 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
Data File : FC067659.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 17:15
Operator : YP/AJ
Sample : PB164751BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

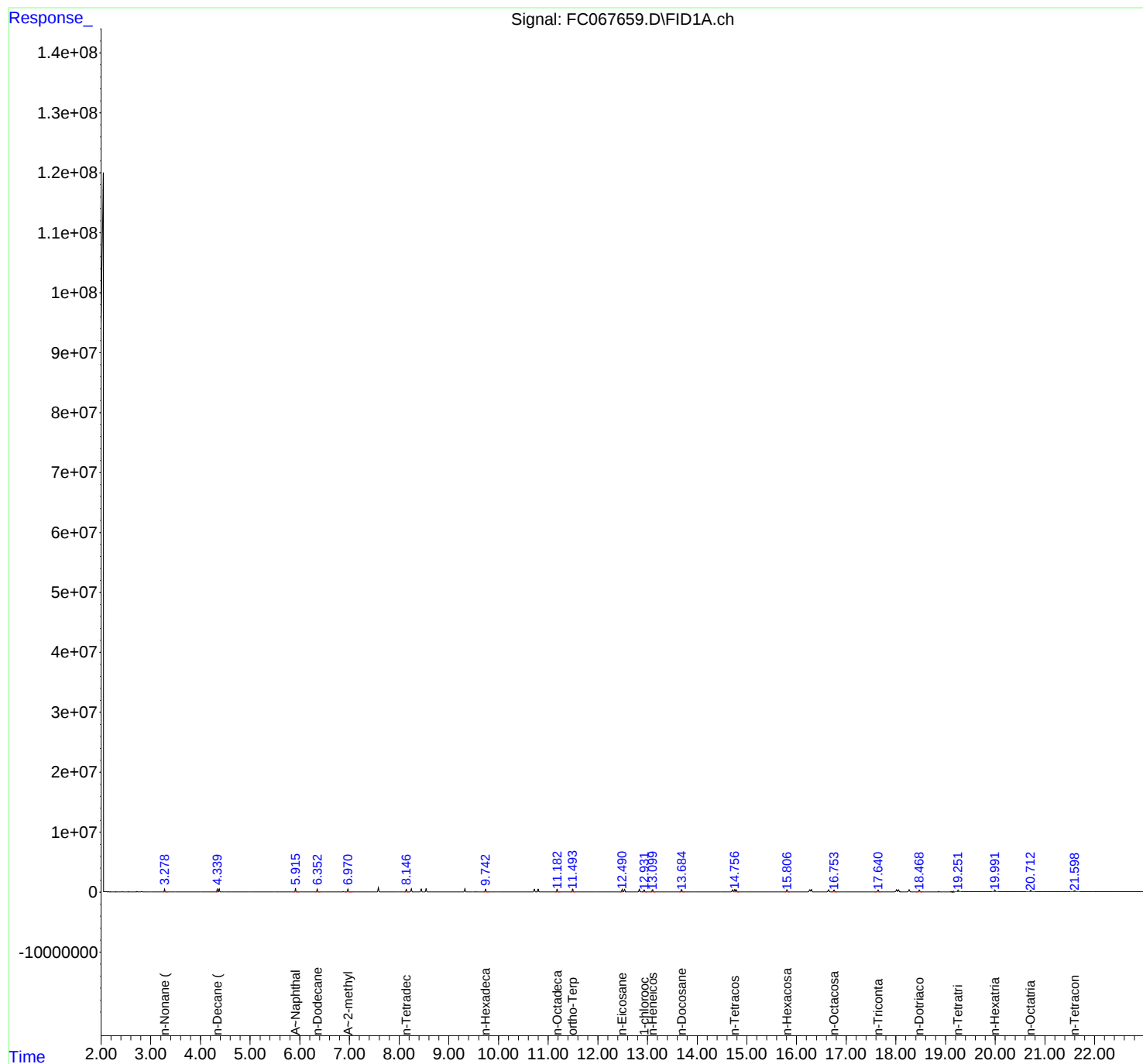
Instrument :
FID_C
ClientSampleId :
PB164751BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
Quant Time: Nov 08 01:06:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_C

ClientSampleId :

PB164751BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11072
Data File : FC067659.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 17:15
Sample : PB164751BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.278	3.247	3.340	BB	493227	4113557	75.33%	2.298%
2	4.340	4.309	4.359	BV	496812	4378073	80.17%	2.446%
3	4.378	4.359	4.440	VB	534074	4664362	85.41%	2.605%
4	5.915	5.884	5.997	BB	542813	5008336	91.71%	2.798%
5	6.352	6.312	6.414	BB	466275	4668453	85.49%	2.608%
6	6.970	6.920	7.062	BB	484127	4730723	86.63%	2.643%
7	8.146	8.109	8.205	BB	446180	4848605	88.79%	2.708%
8	8.248	8.209	8.330	BB	530561	5244994	96.05%	2.930%
9	8.545	8.514	8.632	VB	539190	5460963	100.00%	3.050%
10	9.326	9.289	9.435	BB	505083	5268238	96.47%	2.943%
11	9.742	9.700	9.809	BB	431287	4861024	89.01%	2.715%
12	10.724	10.637	10.766	BV	455021	5049116	92.46%	2.820%
13	10.800	10.766	10.917	VB	453142	5055225	92.57%	2.824%
14	11.182	11.140	11.249	BB	426669	4867643	89.14%	2.719%
15	11.494	11.447	11.547	BB	474846	5066893	92.78%	2.830%
16	12.490	12.442	12.512	BV	408027	4883238	89.42%	2.728%
17	12.539	12.512	12.615	VB	419655	4878908	89.34%	2.725%
18	12.836	12.795	12.870	BV	420231	4859678	88.99%	2.715%
19	12.931	12.900	12.995	VB	322683	3816449	69.89%	2.132%
20	13.100	13.059	13.162	BB	370749	4682507	85.75%	2.616%
21	13.685	13.645	13.749	BB	377093	4639948	84.97%	2.592%
22	14.712	14.667	14.732	BV	368375	4716255	86.36%	2.634%
23	14.755	14.732	14.770	VV	406675	4805283	87.99%	2.684%
24	14.786	14.770	14.870	VB	362365	4494946	82.31%	2.511%
25	15.806	15.762	15.865	BB	338107	4486168	82.15%	2.506%
26	16.266	16.214	16.281	BV	347168	4737579	86.75%	2.646%
27	16.300	16.281	16.342	VB	390846	4812309	88.12%	2.688%
28	16.645	16.597	16.704	BV	363460	4670867	85.53%	2.609%
29	16.754	16.704	16.817	VB	327001	4482776	82.09%	2.504%
30	17.642	17.575	17.687	BB	315703	4475292	81.95%	2.500%
31	18.015	17.934	18.032	BV	336120	4905158	89.82%	2.740%
32	18.054	18.032	18.149	VB	354616	4723071	86.49%	2.638%
33	18.270	18.189	18.355	BB	342061	4792231	87.75%	2.677%
34	18.471	18.402	18.530	BB	306872	4430187	81.12%	2.475%
35	19.252	19.167	19.315	BB	302607	4459895	81.67%	2.491%
36	19.991	19.930	20.062	BB	283213	4314896	79.01%	2.410%

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37 20.713 20.622 20.795 BB 241932 4346017 79.58% 2.428%
38 21.598 21.507 21.710 BB 184551 4320743 79.58% 2.428%
Sum of corrected areas: 1790

Aliphatic EPH 102324.M Fri Nov 08 01:23:09 2024

Instrument :

FID_C

ClientSampleId :

PB164751BSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	JC-701-COMP-01MS	SDG No.:	P4722
Lab Sample ID:	P4720-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/07/24 19:06	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	59.0	E	1	1.98	2.20	mg/kg	FC067662.D
Aliphatic C9-C28	Aliphatic C9-C28	94.2	E	1	1.89	4.40	mg/kg	FC067662.D
Total AliphaticEPH	Total AliphaticEPH	153			3.87	6.60	mg/kg	
Total EPH	Total EPH	153			3.87	6.60	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:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	JC-701-COMP-01MS	SDG No.:	P4722
Lab Sample ID:	P4720-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067662.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	94.2	E	1.89	4.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	59.0	E	1.98	2.20	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.8		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.2		40 - 140	78%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4720-01MS	Acq On:	07 Nov 2024 19:06
Client Sample ID:	JC-701-COMP-01MS	Operator:	YP/AJ
Data file:	FC067662.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	27643069	204.054	300	ug/ml
Aliphatic C12-C16	6.453	9.842	35970363	273.161	200	ug/ml
Aliphatic C16-C21	9.843	13.198	44280239	348.019	300	ug/ml
Aliphatic C21-C28	13.199	16.853	55024877	458.195	400	ug/ml
Aliphatic C28-C40	16.854	21.696	81289720	804.107	600	ug/ml
Aliphatic EPH	3.171	21.696	244208268	2090		ug/ml
ortho-Terphenyl (SURR)	11.494	11.494	5745982	39.16		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4295154	39.77		ug/ml
Aliphatic C9-C28	3.171	16.853	162918548	1280	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F110724AL\
 Data File : FC067662.D
 Signal(s) : FID1A.ch
 Acq On : 07 Nov 2024 19:06
 Operator : YP/AJ
 Sample : P4720-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 JC-701-COMP-01MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
 Quant Time: Nov 08 01:07:12 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:58 2024
 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)	11.494	5745982	39.160 ug/ml
Spiked Amount 50.000		Recovery =	78.32%
12) S 1-chlorooctadecane (S...	12.932	4295154	39.774 ug/ml
Spiked Amount 50.000		Recovery =	79.55%
Target Compounds			
1) T n-Nonane (C9)	3.274	4098048	30.419 ug/ml
2) T n-Decane (C10)	4.338	4644596	34.090 ug/ml
3) T A~Naphthalene (C11.7)	5.915	5349706	36.101 ug/ml
4) T n-Dodecane (C12)	6.352	5007141	36.969 ug/ml
5) T A~2-methylnaphthalene...	6.970	5101841	36.127 ug/ml
6) T n-Tetradecane (C14)	8.146	5339210	40.676 ug/ml
7) T n-Hexadecane (C16)	9.743	5652767	42.791 ug/ml
8) T n-Octadecane (C18)	11.182	5784342	43.783 ug/ml
10) T n-Eicosane (C20)	12.490	5828884	46.196 ug/ml
11) T n-Heneicosane (C21)	13.100	5623813	45.568 ug/ml
13) T n-Docosane (C22)	13.686	5548413	45.312 ug/ml
14) T n-Tetracosane (C24)	14.758	11126255	91.793 ug/mlm
15) T n-Hexacosane (C26)	15.808	5399959	45.357 ug/ml
16) T n-Octacosane (C28)	16.756	5462784	46.434 ug/ml
17) T n-Tricontane (C30)	17.644	5536068	45.801 ug/ml
18) T n-Dotriacontane (C32)	18.474	5540070	46.823 ug/mlm
19) T n-Tetratriacontane (C34)	19.255	5445003	51.992 ug/ml
20) T n-Hexatriacontane (C36)	19.994	5221369	57.361 ug/ml
21) T n-Octatriacontane (C38)	20.717	5303701	61.242 ug/ml
22) T n-Tetracontane (C40)	21.601	5283293	62.149 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
Data File : FC067662.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 19:06
Operator : YP/AJ
Sample : P4720-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

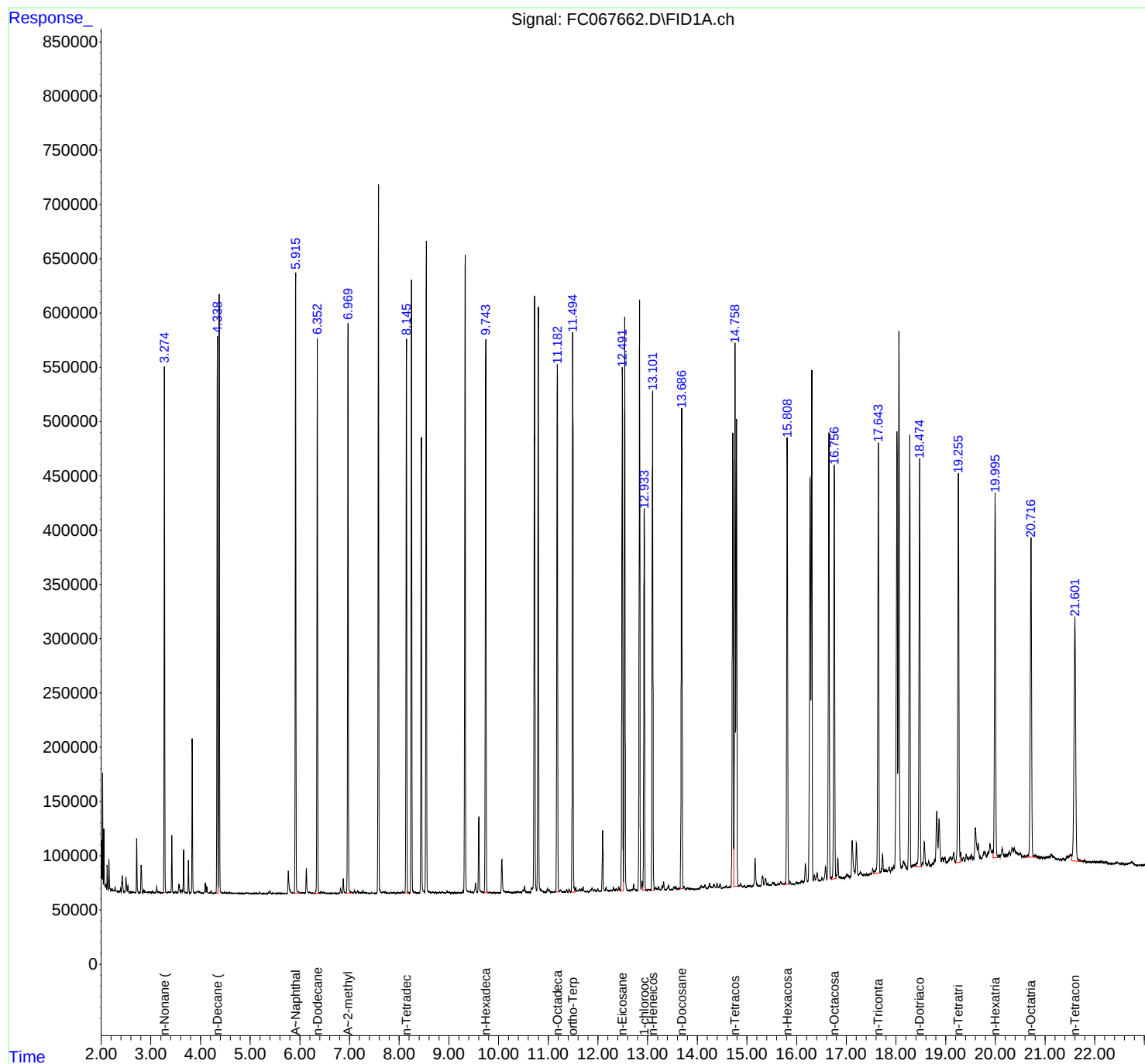
Instrument :
FID_C
ClientSampleId :
JC-701-COMP-01MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
Quant Time: Nov 08 01:07:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rtres

Instrument :
FID_C
ClientSampleId :
JC-701-COMP-01MS

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11072
Data File : FC067662.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 19:06
Sample : P4720-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.274	3.188	3.325	BV	483273	4096194	58.91%	1.609%
2	3.333	3.325	3.344	VV	301	2457	0.04%	0.001%
3	3.359	3.344	3.378	VV	870	9813	0.14%	0.004%
4	3.390	3.378	3.404	VV	506	6564	0.09%	0.003%
5	3.423	3.404	3.488	VV	52103	426749	6.14%	0.168%
6	3.502	3.488	3.523	PV	886	9491	0.14%	0.004%
7	3.567	3.523	3.612	VV	8004	140467	2.02%	0.055%
8	3.631	3.612	3.643	VV	2906	33907	0.49%	0.013%
9	3.661	3.643	3.688	VV	39817	326410	4.69%	0.128%
10	3.699	3.688	3.729	VV	579	7047	0.10%	0.003%
11	3.757	3.729	3.794	VV	30179	250002	3.60%	0.098%
12	3.834	3.794	3.898	VV	141765	1175395	16.90%	0.462%
13	3.928	3.898	3.940	VV	1487	19174	0.28%	0.008%
14	3.957	3.940	3.971	VV	1649	21148	0.30%	0.008%
15	3.985	3.971	4.011	VV	1718	19644	0.28%	0.008%
16	4.017	4.011	4.054	VV	313	5149	0.07%	0.002%
17	4.097	4.054	4.114	PV	9566	109356	1.57%	0.043%
18	4.128	4.114	4.169	VV	6105	63734	0.92%	0.025%
19	4.213	4.169	4.261	VV	2650	31707	0.46%	0.012%
20	4.275	4.261	4.307	VV	232	4303	0.06%	0.002%
21	4.338	4.307	4.357	VV	510319	4648485	66.86%	1.826%
22	4.377	4.357	4.464	VV	550550	4885913	70.27%	1.919%
23	4.484	4.464	4.508	VV	1025	13798	0.20%	0.005%
24	4.519	4.508	4.531	VV	511	5987	0.09%	0.002%
25	4.542	4.531	4.569	VV	638	9976	0.14%	0.004%
26	4.587	4.569	4.611	VV	864	10871	0.16%	0.004%
27	4.618	4.611	4.635	VV	293	2981	0.04%	0.001%
28	4.669	4.635	4.701	VV	499	9739	0.14%	0.004%
29	4.708	4.701	4.758	VV	291	5698	0.08%	0.002%
30	4.764	4.758	4.775	VV	208	1638	0.02%	0.001%
31	4.804	4.775	4.821	VV	279	4609	0.07%	0.002%
32	4.834	4.821	4.858	VV	140	2220	0.03%	0.001%
33	4.864	4.858	4.873	VV	100	807	0.01%	0.000%
34	4.901	4.873	4.913	VV	349	4662	0.07%	0.002%
35	4.931	4.913	4.964	VV	392	9529	0.14%	0.004%
36	4.976	4.964	5.011	VV	292	4946	0.07%	0.002%

					retention			
37	5.017	5.011	5.040	VV	193	2207	0.03%	0.001%
38	5.052	5.040	5.064	VV	319	3151		
39	5.077	5.064	5.114	VV	330	5793		
40	5.135	5.114	5.166	VV	306	6069		
41	5.189	5.166	5.212	VV	1151	13580		
42	5.221	5.212	5.229	VV	187	1697		
43	5.257	5.229	5.284	VV	268	5785	0.08%	0.002%
44	5.314	5.284	5.348	VV	212	4597	0.07%	0.002%
45	5.370	5.348	5.385	PV	1450	14489	0.21%	0.006%
46	5.401	5.385	5.464	VV	2637	34236	0.49%	0.013%
47	5.477	5.464	5.506	VV	381	6227	0.09%	0.002%
48	5.561	5.506	5.576	VV	307	9257	0.13%	0.004%
49	5.593	5.576	5.606	VV	395	5278	0.08%	0.002%
50	5.611	5.606	5.637	VV	281	3831	0.06%	0.002%
51	5.667	5.637	5.701	VV	342	7375	0.11%	0.003%
52	5.720	5.701	5.743	VV	454	6932	0.10%	0.003%
53	5.769	5.743	5.862	VV	20631	330746	4.76%	0.130%
54	5.875	5.862	5.883	VV	629	7513	0.11%	0.003%
55	5.915	5.883	6.001	VV	571990	5394073	77.58%	2.119%
56	6.010	6.001	6.042	VV	817	16036	0.23%	0.006%
57	6.071	6.042	6.108	VV	971	22773	0.33%	0.009%
58	6.132	6.108	6.179	VV	23385	272003	3.91%	0.107%
59	6.197	6.179	6.304	VV	1217	40877	0.59%	0.016%
60	6.352	6.304	6.402	VV	509193	5021882	72.23%	1.973%
61	6.424	6.402	6.454	VV	1753	26092	0.38%	0.010%
62	6.472	6.454	6.487	VV	1237	15689	0.23%	0.006%
63	6.500	6.487	6.535	VV	781	12586	0.18%	0.005%
64	6.543	6.535	6.561	VV	250	2817	0.04%	0.001%
65	6.582	6.561	6.609	VV	317	6122	0.09%	0.002%
66	6.622	6.609	6.644	VV	297	4204	0.06%	0.002%
67	6.670	6.644	6.694	VV	324	6768	0.10%	0.003%
68	6.723	6.694	6.741	VV	249	4323	0.06%	0.002%
69	6.760	6.741	6.793	VV	343	5454	0.08%	0.002%
70	6.820	6.793	6.851	VV	4837	57529	0.83%	0.023%
71	6.875	6.851	6.928	VV	13534	157583	2.27%	0.062%
72	6.970	6.928	7.038	VV	522555	5116160	73.58%	2.010%
73	7.051	7.038	7.084	VV	1011	19886	0.29%	0.008%
74	7.103	7.084	7.131	VV	2360	34771	0.50%	0.014%
75	7.163	7.131	7.221	VV	2249	54368	0.78%	0.021%
76	7.237	7.221	7.254	VV	1133	12937	0.19%	0.005%
77	7.274	7.254	7.302	VV	2312	32219	0.46%	0.013%
78	7.326	7.302	7.345	VV	644	13128	0.19%	0.005%
79	7.358	7.345	7.379	VV	467	6895	0.10%	0.003%
80	7.393	7.379	7.415	VV	154	2435	0.04%	0.001%
81	7.446	7.415	7.474	VV	797	11423	0.16%	0.004%
82	7.492	7.474	7.530	VV	261	4909	0.07%	0.002%
83	7.690	7.661	7.708	VV	1290	28952	0.42%	0.011%
84	7.722	7.708	7.742	VV	1301	16817	0.24%	0.007%
85	7.751	7.742	7.778	VV	483	8005	0.12%	0.003%
86	7.794	7.778	7.815	VV	250	4342	0.06%	0.002%
87	7.840	7.815	7.863	VV	963	12813	0.18%	0.005%
88	7.895	7.863	7.931	VV	859	14452	0.21%	0.006%
89	7.965	7.931	7.987	VV	830	13966	0.20%	0.005%

Instrument :

FID_C

ClientSampleId :

JC-701-COMP-01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

90	8.063	7.987	8.080	VV	1284	30802	0.44%	0.012%
91	8.091	8.080	8.106	VV	888	10349		
92	8.146	8.106	8.204	VV	510449	5361948	77.00%	2.373%
93	8.248	8.204	8.358	VV	558950	5840161	84.88%	2.841%
94	8.369	8.358	8.394	VV	445	7827	0.00%	0.000%
95	8.546	8.511	8.651	VV	587853	6125550	88.14%	2.853%
96	8.678	8.651	8.713	VV	1005	23888	0.34%	0.009%
97	8.733	8.713	8.763	VV	1097	17411	0.25%	0.007%
98	8.773	8.763	8.795	VV	523	7932	0.11%	0.003%
99	8.815	8.795	8.837	VV	1408	17561	0.25%	0.007%
100	8.860	8.837	8.916	VV	1254	29180	0.42%	0.011%
101	8.962	8.916	9.001	VV	1933	37547	0.54%	0.015%
102	9.011	9.001	9.033	VV	670	8783	0.13%	0.003%
103	9.053	9.033	9.082	VV	773	9726	0.14%	0.004%
104	9.105	9.082	9.123	PV	584	7180	0.10%	0.003%
105	9.139	9.123	9.164	VV	387	5574	0.08%	0.002%
106	9.189	9.164	9.208	VV	600	8842	0.13%	0.003%
107	9.219	9.208	9.227	VV	304	2950	0.04%	0.001%
108	9.244	9.227	9.268	VV	463	7296	0.10%	0.003%
109	9.285	9.268	9.294	VV	1818	17653	0.25%	0.007%
110	9.327	9.294	9.415	VV	583413	6041021	86.88%	2.373%
111	9.429	9.415	9.450	VV	1523	21918	0.32%	0.009%
112	9.472	9.450	9.495	VV	989	19469	0.28%	0.008%
113	9.537	9.495	9.574	VV	9339	137949	1.98%	0.054%
114	9.603	9.574	9.668	VV	70641	789515	11.36%	0.310%
115	9.674	9.668	9.706	VV	941	14590	0.21%	0.006%
116	9.743	9.706	9.791	VV	512634	5667896	81.52%	2.227%
117	9.816	9.791	9.869	VV	690	18292	0.26%	0.007%
118	9.915	9.869	9.941	VV	455	10704	0.15%	0.004%
119	9.964	9.941	9.999	PV	551	8062	0.12%	0.003%
120	10.010	9.999	10.023	VV	145	1395	0.02%	0.001%
121	10.068	10.023	10.147	PV	30897	470387	6.77%	0.185%
122	10.171	10.147	10.194	VV	1139	24588	0.35%	0.010%
123	10.203	10.194	10.226	VV	814	11186	0.16%	0.004%
124	10.244	10.226	10.274	VV	652	11428	0.16%	0.004%
125	10.292	10.274	10.304	VV	316	4290	0.06%	0.002%
126	10.320	10.304	10.347	VV	687	10074	0.14%	0.004%
127	10.373	10.347	10.393	VV	1538	20575	0.30%	0.008%
128	10.400	10.393	10.418	VV	644	6421	0.09%	0.003%
129	10.432	10.418	10.458	VV	778	11549	0.17%	0.005%
130	10.492	10.458	10.507	VV	2616	40373	0.58%	0.016%
131	10.526	10.507	10.614	VV	5741	90740	1.31%	0.036%
132	10.620	10.614	10.636	VV	341	2598	0.04%	0.001%
133	10.666	10.636	10.677	VV	4489	57079	0.82%	0.022%
134	10.725	10.677	10.767	VV	545622	6145632	88.39%	2.414%
135	10.801	10.767	10.948	VV	537857	5989515	86.14%	2.353%
136	10.983	10.948	10.999	VV	3756	47393	0.68%	0.019%
137	11.014	10.999	11.054	VV	3006	43581	0.63%	0.017%
138	11.068	11.054	11.093	VV	307	5525	0.08%	0.002%
139	11.113	11.093	11.131	VV	764	9013	0.13%	0.004%
140	11.182	11.131	11.228	VV	481968	5805720	83.50%	2.281%
141	11.246	11.228	11.294	VV	2245	41951	0.60%	0.016%

Instrument :

FID_C

ClientSampleId :

JC-701-COMP-01MS

0.44% 0.012%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

					rters			
142	11.331	11.294	11.349	VV	688	11548	0.17%	0.005%
143	11.371	11.349	11.394	VV	2576	29014		
144	11.423	11.394	11.456	VV	2783	44579		
145	11.494	11.456	11.539	VV	515334	5750674	82	
146	11.555	11.539	11.577	VV	4254	56056		
147	11.592	11.577	11.607	VV	1376	21248		
148	11.634	11.607	11.653	VV	3176	54549	0.78%	0.021%
149	11.671	11.653	11.685	VV	3197	38725	0.56%	0.015%
150	11.702	11.685	11.764	VV	4786	71811	1.03%	0.028%
151	11.782	11.764	11.805	VV	612	9323	0.13%	0.004%
152	11.856	11.805	11.864	PV	1966	31935	0.46%	0.013%
153	11.882	11.864	11.916	VV	3766	68009	0.98%	0.027%
154	11.937	11.916	11.978	VV	2433	45260	0.65%	0.018%
155	11.998	11.978	12.033	VV	3077	45282	0.65%	0.018%
156	12.051	12.033	12.068	VV	909	12659	0.18%	0.005%
157	12.096	12.068	12.141	VV	56001	635031	9.13%	0.249%
158	12.166	12.141	12.212	VV	3656	74390	1.07%	0.029%
159	12.223	12.212	12.237	VV	742	9516	0.14%	0.004%
160	12.264	12.237	12.286	VV	972	20692	0.30%	0.008%
161	12.311	12.286	12.347	VV	3540	60693	0.87%	0.024%
162	12.370	12.347	12.398	VV	2156	40668	0.58%	0.016%
163	12.421	12.398	12.443	VV	4195	56492	0.81%	0.022%
164	12.490	12.443	12.513	VV	483168	5843781	84.05%	2.296%
165	12.541	12.513	12.618	VV	526544	6165700	88.68%	2.422%
166	12.637	12.618	12.653	VV	516	9038	0.13%	0.004%
167	12.671	12.653	12.687	VV	1373	17039	0.25%	0.007%
168	12.719	12.687	12.798	VV	6310	110175	1.58%	0.043%
169	12.839	12.798	12.868	VV	535308	6003075	86.34%	2.358%
170	12.889	12.868	12.901	VV	8574	103911	1.49%	0.041%
171	12.932	12.901	12.987	VV	349509	4304971	61.92%	1.691%
172	13.008	12.987	13.021	VV	1157	15281	0.22%	0.006%
173	13.039	13.021	13.063	VV	1007	18678	0.27%	0.007%
174	13.100	13.063	13.144	PV	461562	5631186	80.99%	2.212%
175	13.162	13.144	13.200	VV	2812	55116	0.79%	0.022%
176	13.222	13.200	13.249	VV	3585	54334	0.78%	0.021%
177	13.259	13.249	13.267	VV	681	6998	0.10%	0.003%
178	13.292	13.267	13.305	VV	3951	53262	0.77%	0.021%
179	13.322	13.305	13.374	VV	7752	102960	1.48%	0.040%
180	13.422	13.374	13.461	VV	4576	88728	1.28%	0.035%
181	13.482	13.461	13.505	VV	693	13299	0.19%	0.005%
182	13.529	13.505	13.549	VV	2952	41943	0.60%	0.016%
183	13.567	13.549	13.591	VV	3375	44957	0.65%	0.018%
184	13.614	13.591	13.648	VV	1616	34957	0.50%	0.014%
185	13.686	13.648	13.720	VV	447531	5589778	80.39%	2.196%
186	13.736	13.720	13.772	VV	2830	40730	0.59%	0.016%
187	13.799	13.772	13.830	VV	1832	33298	0.48%	0.013%
188	13.847	13.830	13.868	VV	994	14395	0.21%	0.006%
189	13.900	13.868	13.984	VV	764	22817	0.33%	0.009%
190	14.039	13.984	14.054	PV	752	16206	0.23%	0.006%
191	14.077	14.054	14.098	VV	3236	54200	0.78%	0.021%
192	14.118	14.098	14.133	VV	2369	38253	0.55%	0.015%
193	14.154	14.133	14.203	VV	3784	69389	1.00%	0.027%
194	14.246	14.203	14.291	VV	5151	111738	1.61%	0.044%

Instrument :

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JC-701-COMP-01MS

Manual IntegrationsAPPROVED

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195	14.337	14.291	14.373	VV	3720	93547	1.35%	0.037%
196	14.395	14.373	14.421	VV	5048	73725		
197	14.459	14.421	14.487	VV	4380	74220		
198	14.524	14.487	14.538	VV	685	12213		
199	14.580	14.538	14.608	VV	1824	37885		
200	14.631	14.608	14.640	VV	786	9314		
201	14.660	14.640	14.673	VV	1397	18918	0.27%	0.007%
202	14.715	14.673	14.734	VV	417981	5736703	82.51%	2.254%
203	14.758	14.734	14.772	VV	494603	5996862	86.25%	2.356%
204	14.787	14.772	14.847	VV	430645	5250262	75.51%	2.063%
205	14.869	14.847	14.924	VV	3756	79775	1.15%	0.031%
206	14.947	14.924	14.988	VV	1515	25326	0.36%	0.010%
207	15.015	14.988	15.056	PV	1605	39374	0.57%	0.015%
208	15.070	15.056	15.101	VV	1152	18150	0.26%	0.007%
209	15.162	15.101	15.234	VV	26215	470773	6.77%	0.185%
210	15.259	15.234	15.274	VV	836	14502	0.21%	0.006%
211	15.314	15.274	15.342	VV	9421	198228	2.85%	0.078%
212	15.373	15.342	15.402	VV	6813	138588	1.99%	0.054%
213	15.418	15.402	15.474	VV	2244	43240	0.62%	0.017%
214	15.517	15.474	15.532	VV	3272	55996	0.81%	0.022%
215	15.543	15.532	15.584	VV	2604	46628	0.67%	0.018%
216	15.623	15.584	15.648	VV	1632	33470	0.48%	0.013%
217	15.679	15.648	15.725	VV	3206	75560	1.09%	0.030%
218	15.808	15.725	15.845	VV	403845	5430921	78.11%	2.134%
219	15.867	15.845	15.894	VV	2956	41933	0.60%	0.016%
220	15.906	15.894	15.934	VV	455	6332	0.09%	0.002%
221	16.008	15.934	16.029	PV	1347	37932	0.55%	0.015%
222	16.050	16.029	16.071	VV	1216	18093	0.26%	0.007%
223	16.096	16.071	16.130	VV	2666	60058	0.86%	0.024%
224	16.175	16.130	16.224	VV	18238	351992	5.06%	0.138%
225	16.270	16.224	16.286	VV	372748	5992484	86.19%	2.354%
226	16.304	16.286	16.334	VV	474523	5708779	82.11%	2.243%
227	16.357	16.334	16.379	VV	6840	118524	1.70%	0.047%
228	16.412	16.379	16.468	VV	8862	218638	3.14%	0.086%
229	16.511	16.468	16.532	VV	4455	95491	1.37%	0.038%
230	16.581	16.532	16.606	VV	13268	274488	3.95%	0.108%
231	16.648	16.606	16.691	VV	408101	5692789	81.88%	2.236%
232	16.756	16.691	16.788	VV	379170	5598154	80.51%	2.199%
233	16.828	16.788	16.861	VV	21402	402768	5.79%	0.158%
234	16.888	16.861	16.944	VV	3352	145273	2.09%	0.057%
235	16.949	16.944	16.964	VV	2979	31288	0.45%	0.012%
236	17.010	16.964	17.064	VV	5665	239550	3.45%	0.094%
237	17.117	17.064	17.175	VV	36121	919200	13.22%	0.361%
238	17.202	17.175	17.244	VV	33757	611605	8.80%	0.240%
239	17.289	17.244	17.328	VV	6786	260079	3.74%	0.102%
240	17.360	17.328	17.388	VV	4654	143307	2.06%	0.056%
241	17.408	17.388	17.428	VV	4286	94876	1.36%	0.037%
242	17.435	17.428	17.441	VV	3740	29451	0.42%	0.012%
243	17.449	17.441	17.454	VV	3834	30983	0.45%	0.012%
244	17.483	17.454	17.501	VV	5023	119461	1.72%	0.047%
245	17.531	17.501	17.550	VV	9078	193383	2.78%	0.076%
246	17.565	17.550	17.580	VV	6867	118968	1.71%	0.047%

Instrument :

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Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/08/2024

Parameters									
247	17.644	17.580	17.681	VV	400028	5785454	83.21%	2.273%	
248	17.728	17.681	17.756	VV	21389	478400			
249	17.776	17.756	17.818	VV	6815	232540			
250	17.863	17.818	17.891	VV	9486	306452			
251	17.916	17.891	17.934	VV	8549	188695			
252	17.954	17.934	17.967	VV	9609	170345			
253	18.020	17.967	18.036	VV	409650	6758884	97.21%	2.655%	
254	18.058	18.036	18.114	VV	506214	6952963	100.00%	2.731%	
255	18.150	18.114	18.224	VV	13773	673589	9.69%	0.265%	
256	18.276	18.224	18.314	VV	412316	5947237	85.54%	2.336%	
257	18.350	18.314	18.378	VV	9762	352412	5.07%	0.138%	
258	18.474	18.378	18.510	VV	380949	6193825	89.08%	2.433%	
259	18.531	18.510	18.543	VV	11643	201458	2.90%	0.079%	
260	18.570	18.543	18.634	VV	29944	821493	11.82%	0.323%	
261	18.657	18.634	18.684	VV	12284	300982	4.33%	0.118%	
262	18.697	18.684	18.710	VV	8581	129536	1.86%	0.051%	
263	18.734	18.710	18.754	VV	10182	248988	3.58%	0.098%	
264	18.776	18.754	18.787	VV	13626	232686	3.35%	0.091%	
265	18.819	18.787	18.845	VV	56451	1211559	17.43%	0.476%	
266	18.867	18.845	18.911	VV	50513	1190510	17.12%	0.468%	
267	18.933	18.911	18.955	VV	14462	346703	4.99%	0.136%	
268	18.985	18.955	19.021	VV	14816	491342	7.07%	0.193%	
269	19.095	19.021	19.121	VV	15228	735585	10.58%	0.289%	
270	19.159	19.121	19.192	VV	18650	592703	8.52%	0.233%	
271	19.255	19.192	19.289	VV	364672	5986131	86.09%	2.352%	
272	19.301	19.289	19.325	VV	18434	336015	4.83%	0.132%	
273	19.356	19.325	19.384	VV	13680	416260	5.99%	0.164%	
274	19.413	19.384	19.435	VV	15773	398599	5.73%	0.157%	
275	19.446	19.435	19.464	VV	13157	218269	3.14%	0.086%	
276	19.487	19.464	19.504	VV	12951	299417	4.31%	0.118%	
277	19.522	19.504	19.548	VV	14981	346925	4.99%	0.136%	
278	19.598	19.548	19.637	VV	39991	1250925	17.99%	0.491%	
279	19.654	19.637	19.719	VV	25567	793948	11.42%	0.312%	
280	19.790	19.719	19.824	VV	17407	915064	13.16%	0.359%	
281	19.893	19.824	19.925	VV	23886	1063172	15.29%	0.418%	
282	19.943	19.925	19.955	VV	18132	313197	4.50%	0.123%	
283	19.994	19.955	20.046	VV	345482	5829087	83.84%	2.290%	
284	20.064	20.046	20.082	VV	12953	261099	3.76%	0.103%	
285	20.138	20.082	20.181	VV	18834	850134	12.23%	0.334%	
286	20.202	20.181	20.237	VV	12995	417485	6.00%	0.164%	
287	20.277	20.237	20.302	VV	15777	539567	7.76%	0.212%	
288	20.336	20.302	20.360	VV	18988	571759	8.22%	0.225%	
289	20.379	20.360	20.481	VV	18751	1071380	15.41%	0.421%	
290	20.503	20.481	20.567	VV	13691	597401	8.59%	0.235%	
291	20.604	20.567	20.614	VV	10627	294391	4.23%	0.116%	
292	20.717	20.614	20.777	VV	300179	6166046	88.68%	2.422%	
293	20.785	20.777	20.791	VV	10452	88306	1.27%	0.035%	
294	20.803	20.791	20.874	VV	10675	472794	6.80%	0.186%	
295	20.883	20.874	20.906	VV	8762	159432	2.29%	0.063%	
296	20.931	20.906	20.953	VV	8311	229388	3.30%	0.090%	
297	20.984	20.953	20.995	VV	7982	195981	2.82%	0.077%	
298	21.027	20.995	21.051	VV	8192	263205	3.79%	0.103%	
299	21.063	21.051	21.088	VV	8327	178128	2.56%	0.070%	

Instrument :

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ClientSampleId :

JC-701-COMP-01MS

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300	21.125	21.088	21.168	VV	10029	425972	6.13%	0.167%
301	21.179	21.168	21.261	VV	7935	362201		
302	21.275	21.261	21.333	VV	5639	217382		
303	21.359	21.333	21.391	VV	5557	175597		
304	21.449	21.391	21.470	VV	7176	291099		
305	21.515	21.470	21.538	VV	8643	318547		
306	21.601	21.538	21.684	VV	226137	5493652	79.01%	2.158%
307	21.697	21.684	21.751	VV	3184	103143	1.48%	0.041%
308	21.794	21.751	21.838	VV	2657	98671	1.42%	0.039%
309	21.847	21.838	21.864	VV	1199	14693	0.21%	0.006%
310	21.889	21.864	21.898	VV	1109	18579	0.27%	0.007%
311	21.908	21.898	21.938	VV	766	15154	0.22%	0.006%
312	21.948	21.938	21.954	VV	717	5568	0.08%	0.002%
313	21.979	21.954	22.037	VV	989	31499	0.45%	0.012%
Sum of corrected areas:					254551226			

Instrument :
FID_C
ClientSampleId :
JC-701-COMP-01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Aliphatic EPH 102324.M Fri Nov 08 01:26:00 2024

Report of Analysis

Client:	Walsh Construction Company II, LLC	Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2	Date Received:	
Client Sample ID:	JC-701-COMP-01MSD	SDG No.:	P4722
Lab Sample ID:	P4720-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/07/24 09:50	11/07/24 19:43	PB164751

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	60.8	E	1	1.98	2.21	mg/kg	FC067663.D
Aliphatic C9-C28	Aliphatic C9-C28	94.8	E	1	1.90	4.41	mg/kg	FC067663.D
Total AliphaticEPH	Total AliphaticEPH	156			3.88	6.62	mg/kg	
Total EPH	Total EPH	156			3.88	6.62	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:	Walsh Construction Company II, LLC		Date Collected:	
Project:	NYCDEP C547A - Shafts 17B-1 & 18B-1 Stage 2		Date Received:	
Client Sample ID:	JC-701-COMP-01MSD		SDG No.:	P4722
Lab Sample ID:	P4720-01MSD		Matrix:	Solid
Analytical Method:	NJEPH		% Solid:	90.6
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH_NF
Prep Method :				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067663.D	1	11/07/24	11/07/24	PB164751

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	94.8	E	1.90	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	60.8	E	1.98	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.0		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.4		40 - 140	79%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4721-01MSD	Acq On:	07 Nov 2024 19:43
Client Sample ID:	JC-701-COMP-01MSD	Operator:	YP/AJ
Data file:	FC067663.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.171	6.452	27706187	204.52	300	ug/ml
Aliphatic C12-C16	6.453	9.842	36173313	274.703	200	ug/ml
Aliphatic C16-C21	9.843	13.198	44479004	349.581	300	ug/ml
Aliphatic C21-C28	13.199	16.853	55319709	460.651	400	ug/ml
Aliphatic C28-C40	16.854	21.696	83596065	826.921	600	ug/ml
Aliphatic EPH	3.171	21.696	247274278	2120		ug/ml
ortho-Terphenyl (SURR)	11.495	11.495	5776165	39.37		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	4315956	39.97		ug/ml
Aliphatic C9-C28	3.171	16.853	163678213	1290	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F110724AL\
 Data File : FC067663.D
 Signal(s) : FID1A.ch
 Acq On : 07 Nov 2024 19:43
 Operator : YP/AJ
 Sample : P4720-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 JC-701-COMP-01MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 11/08/2024
 Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
 Quant Time: Nov 08 01:07:22 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
 Quant Title : GC Extractables
 QLast Update : Wed Oct 23 18:12:58 2024
 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)	11.495	5776165	39.366 ug/ml
Spiked Amount 50.000		Recovery =	78.73%
12) S 1-chlorooctadecane (S...	12.932	4315956	39.967 ug/ml
Spiked Amount 50.000		Recovery =	79.93%
Target Compounds			
1) T n-Nonane (C9)	3.274	4120104	30.583 ug/ml
2) T n-Decane (C10)	4.338	4671728	34.289 ug/ml
3) T A~Naphthalene (C11.7)	5.915	5382319	36.321 ug/ml
4) T n-Dodecane (C12)	6.352	5033158	37.161 ug/ml
5) T A~2-methylnaphthalene...	6.970	5133162	36.348 ug/ml
6) T n-Tetradecane (C14)	8.145	5374616	40.946 ug/ml
7) T n-Hexadecane (C16)	9.743	5687589	43.054 ug/ml
8) T n-Octadecane (C18)	11.183	5819829	44.052 ug/ml
10) T n-Eicosane (C20)	12.490	5859837	46.441 ug/ml
11) T n-Heneicosane (C21)	13.101	5655732	45.827 ug/ml
13) T n-Docosane (C22)	13.686	5577534	45.550 ug/ml
14) T n-Tetracosane (C24)	14.758	11253191	92.841 ug/mlm
15) T n-Hexacosane (C26)	15.808	5425615	45.572 ug/ml
16) T n-Octacosane (C28)	16.755	5488494	46.652 ug/ml
17) T n-Tricontane (C30)	17.643	5505898	45.552 ug/ml
18) T n-Dotriacontane (C32)	18.473	5670910	47.928 ug/ml
19) T n-Tetratriacontane (C34)	19.255	5520856	52.716 ug/ml
20) T n-Hexatriacontane (C36)	19.994	5271964	57.917 ug/ml
21) T n-Octatriacontane (C38)	20.715	5217333	60.245 ug/ml
22) T n-Tetracontane (C40)	21.601	5258204	61.853 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC110724AL\
Data File : FC067663.D
Signal(s) : FID1A.ch
Acq On : 07 Nov 2024 19:43
Operator : YP/AJ
Sample : P4720-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

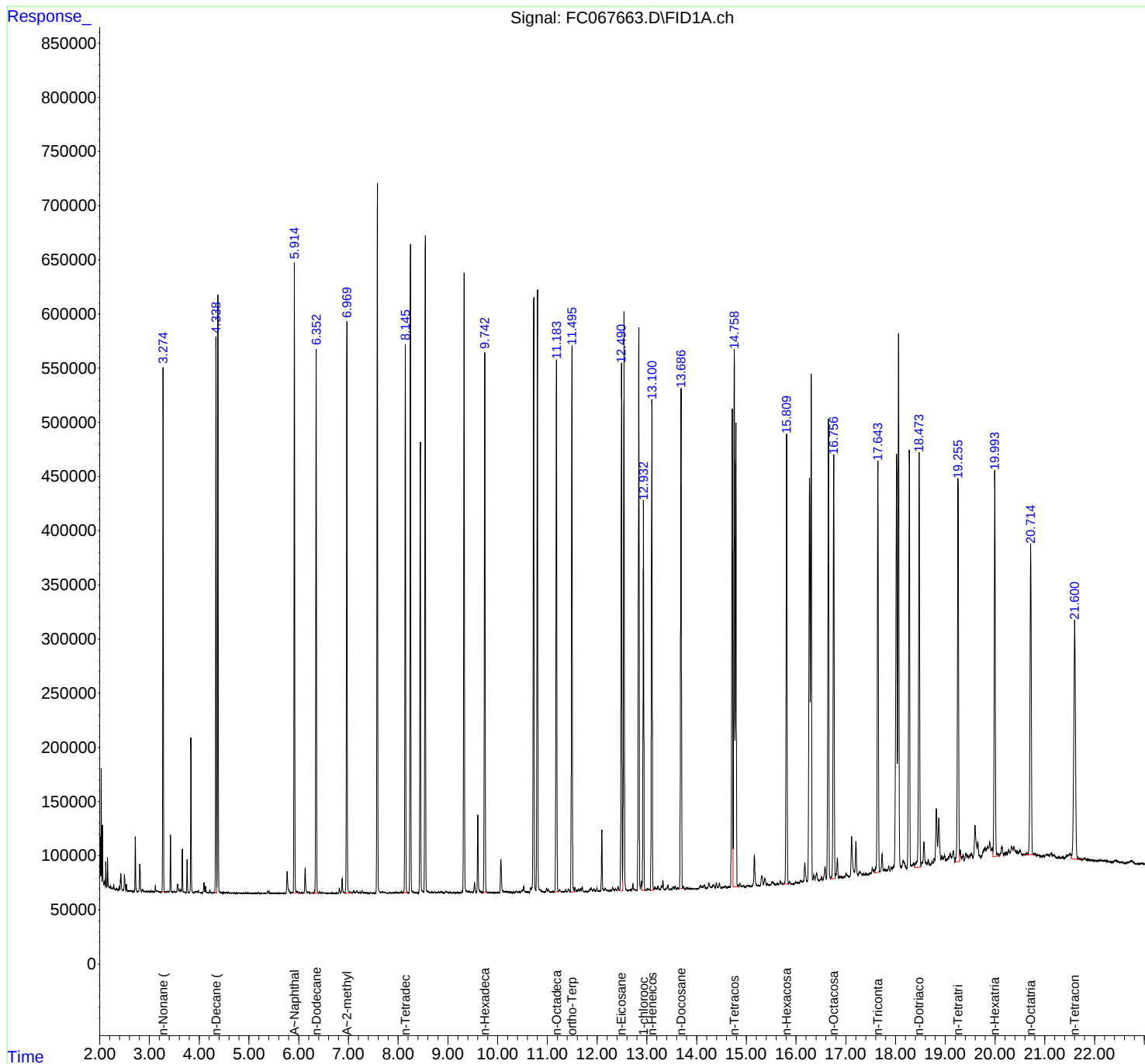
Instrument :
FID_C
ClientSampleId :
JC-701-COMP-01MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Integration File: autoint1.e
Quant Time: Nov 08 01:07:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:12:58 2024
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_C

ClientSampleId :

JC-701-COMP-01MSD

rtres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11072

Data File : FC067663.D

Signal(s) : FID1A.ch

Acq On : 07 Nov 2024 19:43

Sample : P4720-01MSD

Misc :

ALS Vial : 17 Sample Multiplier: 1

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 102324.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	3.274	3.188	3.343	BV	483996	4120247	58.91%	1.600%
2	3.359	3.343	3.379	VV	816	9930	0.14%	0.004%
3	3.393	3.379	3.405	VV	567	6886	0.10%	0.003%
4	3.423	3.405	3.486	VV	51029	424763	6.07%	0.165%
5	3.503	3.486	3.523	PV	872	9626	0.14%	0.004%
6	3.567	3.523	3.613	VV	7799	141042	2.02%	0.055%
7	3.631	3.613	3.643	VV	2871	33336	0.48%	0.013%
8	3.661	3.643	3.688	VV	40018	327718	4.69%	0.127%
9	3.700	3.688	3.735	VV	579	6755	0.10%	0.003%
10	3.757	3.735	3.794	VV	30427	250286	3.58%	0.097%
11	3.834	3.794	3.895	VV	142354	1165486	16.66%	0.452%
12	3.929	3.895	3.943	VV	1471	20944	0.30%	0.008%
13	3.957	3.943	3.971	VV	1512	18766	0.27%	0.007%
14	3.985	3.971	4.006	VV	1757	17999	0.26%	0.007%
15	4.018	4.006	4.051	VV	201	3742	0.05%	0.001%
16	4.097	4.051	4.115	PV	9589	108088	1.55%	0.042%
17	4.128	4.115	4.175	VV	6056	62496	0.89%	0.024%
18	4.181	4.175	4.192	VV	157	1275	0.02%	0.000%
19	4.213	4.192	4.268	VV	2625	27292	0.39%	0.011%
20	4.274	4.268	4.300	VV	143	1603	0.02%	0.001%
21	4.338	4.300	4.357	VV	514056	4674733	66.84%	1.815%
22	4.377	4.357	4.466	VV	551508	4909639	70.20%	1.906%
23	4.484	4.466	4.505	VV	1101	12375	0.18%	0.005%
24	4.517	4.505	4.527	VV	418	4720	0.07%	0.002%
25	4.544	4.527	4.568	VV	641	9799	0.14%	0.004%
26	4.586	4.568	4.608	VV	853	9825	0.14%	0.004%
27	4.618	4.608	4.649	VV	368	4059	0.06%	0.002%
28	4.670	4.649	4.696	VV	433	5814	0.08%	0.002%
29	4.711	4.696	4.740	VV	211	3396	0.05%	0.001%
30	4.751	4.740	4.778	VV	210	2900	0.04%	0.001%
31	4.786	4.778	4.828	VV	265	4904	0.07%	0.002%
32	4.835	4.828	4.852	VV	181	1234	0.02%	0.000%
33	4.901	4.852	4.915	VV	356	5047	0.07%	0.002%
34	4.947	4.915	4.965	VV	391	7906	0.11%	0.003%
35	4.975	4.965	5.002	VV	415	5014	0.07%	0.002%
36	5.024	5.002	5.040	VV	215	3069	0.04%	0.001%

					retention			
37	5.051	5.040	5.061	VV	231	2295	0.03%	0.001%
38	5.072	5.061	5.091	VV	291	3680		
39	5.107	5.091	5.116	PV	142	1568		
40	5.133	5.116	5.168	VV	360	5774		
41	5.189	5.168	5.217	VV	1163	12168		
42	5.256	5.217	5.281	PV	198	4228		
43	5.318	5.281	5.348	VV	139	3554	0.05%	0.001%
44	5.370	5.348	5.384	VV	1453	13365	0.19%	0.005%
45	5.401	5.384	5.457	VV	2468	30882	0.44%	0.012%
46	5.475	5.457	5.506	VV	294	5033	0.07%	0.002%
47	5.559	5.506	5.577	VV	231	5752	0.08%	0.002%
48	5.593	5.577	5.615	VV	406	4602	0.07%	0.002%
49	5.626	5.615	5.642	VV	186	2009	0.03%	0.001%
50	5.669	5.642	5.690	VV	293	4476	0.06%	0.002%
51	5.721	5.690	5.743	VV	309	5462	0.08%	0.002%
52	5.769	5.743	5.861	VV	20484	330688	4.73%	0.128%
53	5.869	5.861	5.883	VV	582	7401	0.11%	0.003%
54	5.915	5.883	6.002	VV	579728	5421631	77.52%	2.105%
55	6.011	6.002	6.044	VV	759	14079	0.20%	0.005%
56	6.073	6.044	6.101	VV	964	19042	0.27%	0.007%
57	6.131	6.101	6.179	VV	23677	272896	3.90%	0.106%
58	6.197	6.179	6.232	VV	1113	23911	0.34%	0.009%
59	6.245	6.232	6.297	VV	459	14211	0.20%	0.006%
60	6.352	6.297	6.408	VV	498649	5052442	72.24%	1.962%
61	6.423	6.408	6.451	VV	1725	22324	0.32%	0.009%
62	6.471	6.451	6.487	VV	1185	15874	0.23%	0.006%
63	6.499	6.487	6.557	VV	772	14131	0.20%	0.005%
64	6.582	6.557	6.611	VV	335	6763	0.10%	0.003%
65	6.623	6.611	6.648	VV	299	3876	0.06%	0.002%
66	6.667	6.648	6.694	VV	260	4351	0.06%	0.002%
67	6.758	6.694	6.788	VV	344	8223	0.12%	0.003%
68	6.820	6.788	6.850	PV	4807	57331	0.82%	0.022%
69	6.875	6.850	6.927	VV	13693	159364	2.28%	0.062%
70	6.970	6.927	7.041	VV	531326	5144373	73.55%	1.997%
71	7.051	7.041	7.083	VV	1041	17986	0.26%	0.007%
72	7.103	7.083	7.131	VV	2524	35117	0.50%	0.014%
73	7.163	7.131	7.178	VV	2280	36317	0.52%	0.014%
74	7.186	7.178	7.211	VV	1314	15145	0.22%	0.006%
75	7.237	7.211	7.254	VV	1190	15622	0.22%	0.006%
76	7.274	7.254	7.308	VV	2371	33773	0.48%	0.013%
77	7.326	7.308	7.348	VV	690	12131	0.17%	0.005%
78	7.357	7.348	7.388	VV	559	7561	0.11%	0.003%
79	7.401	7.388	7.425	VV	140	2131	0.03%	0.001%
80	7.444	7.425	7.474	VV	697	9801	0.14%	0.004%
81	7.486	7.474	7.525	VV	265	4163	0.06%	0.002%
82	7.690	7.665	7.708	VV	1343	27216	0.39%	0.011%
83	7.722	7.708	7.779	VV	1261	24629	0.35%	0.010%
84	7.795	7.779	7.817	VV	348	5110	0.07%	0.002%
85	7.840	7.817	7.866	VV	959	13975	0.20%	0.005%
86	7.896	7.866	7.924	VV	901	14212	0.20%	0.006%
87	7.964	7.924	7.986	VV	945	16525	0.24%	0.006%
88	8.063	7.986	8.079	VV	1241	31898	0.46%	0.012%
89	8.091	8.079	8.104	VV	792	9273	0.13%	0.004%

Instrument :

FID_C

ClientSampleId :

JC-701-COMP-01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :Ankita Jodhani 11/08/2024

							Instrument : FID_C	
							ClientSampleId : JC-701-COMP-01MSD	
Sl. No.	Time	Area	Height	W	Area%	Height%	Area%	Height%
90	8.145	8.104	8.201	VV	506253	5391068	77.08%	2.093%
91	8.248	8.201	8.327	VV	598042	5858683	83.34%	2.399%
92	8.337	8.327	8.355	VV	721	9863	0.10%	0.003%
93	8.364	8.355	8.379	VV	417	4880	0.06%	0.002%
94	8.387	8.379	8.401	VV	314	3831	0.04%	0.001%
95	8.545	8.510	8.655	VV	604148	6163079	88.34%	2.399%
96	8.680	8.655	8.714	VV	1092	24800	0.35%	0.010%
97	8.734	8.714	8.751	VV	1125	15219	0.22%	0.006%
98	8.777	8.751	8.798	VV	551	12646	0.18%	0.005%
99	8.814	8.798	8.837	VV	1331	18287	0.26%	0.007%
100	8.862	8.837	8.925	VV	1212	30122	0.43%	0.012%
101	8.962	8.925	9.001	VV	1978	38211	0.55%	0.015%
102	9.011	9.001	9.031	VV	688	8142	0.12%	0.003%
103	9.053	9.031	9.083	VV	805	10132	0.14%	0.004%
104	9.106	9.083	9.122	VV	598	7054	0.10%	0.003%
105	9.138	9.122	9.164	VV	410	4657	0.07%	0.002%
106	9.188	9.164	9.211	VV	482	8917	0.13%	0.003%
107	9.218	9.211	9.227	VV	284	2409	0.03%	0.001%
108	9.242	9.227	9.262	VV	472	6858	0.10%	0.003%
109	9.285	9.262	9.298	VV	1917	21544	0.31%	0.008%
110	9.327	9.298	9.414	VV	575980	6074450	86.85%	2.358%
111	9.429	9.414	9.450	VV	1555	22228	0.32%	0.009%
112	9.473	9.450	9.494	VV	971	19020	0.27%	0.007%
113	9.537	9.494	9.571	VV	9091	138160	1.98%	0.054%
114	9.603	9.571	9.665	VV	70979	795507	11.37%	0.309%
115	9.674	9.665	9.708	VV	950	15680	0.22%	0.006%
116	9.743	9.708	9.794	VV	497030	5703898	81.55%	2.215%
117	9.821	9.794	9.869	VV	680	17097	0.24%	0.007%
118	9.918	9.869	9.941	VV	473	11433	0.16%	0.004%
119	9.964	9.941	9.998	PV	558	8929	0.13%	0.003%
120	10.007	9.998	10.027	VV	228	2325	0.03%	0.001%
121	10.067	10.027	10.148	VV	30892	479649	6.86%	0.186%
122	10.169	10.148	10.191	VV	1053	22793	0.33%	0.009%
123	10.203	10.191	10.227	VV	826	12902	0.18%	0.005%
124	10.242	10.227	10.281	VV	733	12718	0.18%	0.005%
125	10.293	10.281	10.303	VV	313	3523	0.05%	0.001%
126	10.321	10.303	10.351	VV	604	10614	0.15%	0.004%
127	10.373	10.351	10.417	VV	1429	26049	0.37%	0.010%
128	10.433	10.417	10.458	VV	849	12002	0.17%	0.005%
129	10.493	10.458	10.507	VV	2419	39181	0.56%	0.015%
130	10.526	10.507	10.595	VV	5838	90442	1.29%	0.035%
131	10.598	10.595	10.636	VV	363	6116	0.09%	0.002%
132	10.665	10.636	10.677	VV	4326	55005	0.79%	0.021%
133	10.726	10.677	10.767	VV	542658	6178479	88.34%	2.399%
134	10.801	10.767	10.954	VV	555308	6017318	86.04%	2.336%
135	10.983	10.954	10.999	VV	3615	46673	0.67%	0.018%
136	11.014	10.999	11.054	VV	2943	46019	0.66%	0.018%
137	11.072	11.054	11.098	VV	284	5666	0.08%	0.002%
138	11.112	11.098	11.129	VV	797	8821	0.13%	0.003%
139	11.183	11.129	11.225	VV	493921	5840228	83.50%	2.267%
140	11.246	11.225	11.303	VV	2430	45184	0.65%	0.018%
141	11.331	11.303	11.350	VV	609	10789	0.15%	0.004%

Data							Instrument : FID_C	
Parameters							ClientSampleId : JC-701-COMP-01MSD	
142	11.371	11.350	11.394	VV	2535	28504	0.41%	0.011%
143	11.425	11.394	11.456	VV	2730	42946	0.41%	0.011%
144	11.495	11.456	11.539	PV	502103	5777567	82.98%	2.280%
145	11.555	11.539	11.578	VV	4180	54568	0.41%	0.011%
							Manual IntegrationsAPPROVED	
146	11.592	11.578	11.606	VV	1363	18971	0.41%	0.011%
147	11.635	11.606	11.653	VV	2933	53073	0.41%	0.011%
148	11.671	11.653	11.685	VV	3260	38256	0.55%	0.015%
149	11.702	11.685	11.755	VV	4801	67810	0.97%	0.026%
150	11.782	11.755	11.808	VV	577	9603	0.14%	0.004%
151	11.855	11.808	11.865	PV	2121	34041	0.49%	0.013%
152	11.883	11.865	11.917	VV	3695	68218	0.98%	0.026%
153	11.938	11.917	11.971	VV	2439	43083	0.62%	0.017%
154	11.998	11.971	12.035	VV	3215	46232	0.66%	0.018%
155	12.051	12.035	12.066	VV	880	10982	0.16%	0.004%
156	12.097	12.066	12.140	VV	57008	650109	9.30%	0.252%
157	12.163	12.140	12.215	VV	3156	71443	1.02%	0.028%
158	12.224	12.215	12.248	VV	712	11832	0.17%	0.005%
159	12.266	12.248	12.284	VV	986	14900	0.21%	0.006%
160	12.312	12.284	12.347	VV	3595	61557	0.88%	0.024%
161	12.370	12.347	12.397	VV	2306	40222	0.58%	0.016%
162	12.422	12.397	12.443	VV	4005	54720	0.78%	0.021%
163	12.490	12.443	12.513	VV	483679	5873761	83.98%	2.280%
164	12.542	12.513	12.621	VV	529598	6186371	88.45%	2.402%
165	12.630	12.621	12.651	VV	510	6894	0.10%	0.003%
166	12.670	12.651	12.687	VV	1268	16096	0.23%	0.006%
167	12.720	12.687	12.797	VV	6355	106685	1.53%	0.041%
168	12.838	12.797	12.868	VV	512070	6021126	86.09%	2.338%
169	12.889	12.868	12.901	VV	8508	103610	1.48%	0.040%
170	12.932	12.901	12.987	VV	356236	4327717	61.88%	1.680%
171	13.008	12.987	13.025	VV	1132	17428	0.25%	0.007%
172	13.039	13.025	13.063	VV	1034	16875	0.24%	0.007%
173	13.101	13.063	13.141	PV	453516	5660787	80.94%	2.198%
174	13.162	13.141	13.199	VV	2709	55443	0.79%	0.022%
175	13.222	13.199	13.255	VV	3723	58032	0.83%	0.023%
176	13.292	13.255	13.305	VV	3920	56622	0.81%	0.022%
177	13.323	13.305	13.370	VV	8287	108996	1.56%	0.042%
178	13.422	13.370	13.458	VV	4283	87030	1.24%	0.034%
179	13.478	13.458	13.504	VV	637	12297	0.18%	0.005%
180	13.529	13.504	13.549	VV	2788	42033	0.60%	0.016%
181	13.567	13.549	13.591	VV	3262	44819	0.64%	0.017%
182	13.614	13.591	13.645	VV	1666	32241	0.46%	0.013%
183	13.686	13.645	13.720	VV	450870	5619258	80.34%	2.182%
184	13.736	13.720	13.767	VV	2929	39003	0.56%	0.015%
185	13.799	13.767	13.831	VV	1737	31732	0.45%	0.012%
186	13.845	13.831	13.875	VV	1079	13279	0.19%	0.005%
187	13.901	13.875	13.971	VV	686	18772	0.27%	0.007%
188	14.002	13.971	14.018	PV	265	3252	0.05%	0.001%
189	14.038	14.018	14.050	VV	759	9736	0.14%	0.004%
190	14.075	14.050	14.098	VV	3269	55492	0.79%	0.022%
191	14.117	14.098	14.134	VV	2198	37424	0.54%	0.015%
192	14.154	14.134	14.211	VV	3703	68137	0.97%	0.026%
193	14.246	14.211	14.304	VV	5253	118438	1.69%	0.046%
194	14.337	14.304	14.372	VV	3674	81252	1.16%	0.032%

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195	14.395	14.372	14.425	VV	4877	75152	1.07%	0.029%
196	14.458	14.425	14.492	VV	4624	71781		
197	14.579	14.492	14.608	VV	1673	48837		
198	14.659	14.608	14.673	VV	1359	28303		
199	14.715	14.673	14.734	VV	440308	5756528	82.46%	2.320%
200	14.758	14.734	14.772	VV	495256	5986040	85.28%	2.234%
201	14.788	14.772	14.848	VV	426335	5307407	75.88%	2.061%
202	14.869	14.848	14.925	VV	3819	82060	1.17%	0.032%
203	14.946	14.925	14.985	VV	1481	27993	0.40%	0.011%
204	15.014	14.985	15.031	PV	1832	27798	0.40%	0.011%
205	15.043	15.031	15.056	VV	1178	15998	0.23%	0.006%
206	15.068	15.056	15.098	VV	1088	16753	0.24%	0.007%
207	15.161	15.098	15.236	VV	28122	479216	6.85%	0.186%
208	15.258	15.236	15.273	VV	863	15141	0.22%	0.006%
209	15.312	15.273	15.341	VV	9463	202032	2.89%	0.078%
210	15.372	15.341	15.401	VV	6976	142801	2.04%	0.055%
211	15.418	15.401	15.449	VV	2408	39295	0.56%	0.015%
212	15.461	15.449	15.478	VV	644	9569	0.14%	0.004%
213	15.516	15.478	15.531	VV	3593	60363	0.86%	0.023%
214	15.542	15.531	15.576	VV	2692	47178	0.67%	0.018%
215	15.622	15.576	15.653	VV	1708	40258	0.58%	0.016%
216	15.678	15.653	15.724	VV	3715	77322	1.11%	0.030%
217	15.808	15.724	15.845	VV	413173	5460789	78.08%	2.120%
218	15.867	15.845	15.895	VV	3008	43038	0.62%	0.017%
219	15.908	15.895	15.935	VV	491	7253	0.10%	0.003%
220	16.001	15.935	16.028	PV	1522	41758	0.60%	0.016%
221	16.048	16.028	16.064	VV	1213	18203	0.26%	0.007%
222	16.098	16.064	16.125	VV	2915	67818	0.97%	0.026%
223	16.174	16.125	16.222	VV	18757	367281	5.25%	0.143%
224	16.269	16.222	16.285	VV	374372	5976752	85.46%	2.320%
225	16.303	16.285	16.331	VV	475908	5754641	82.28%	2.234%
226	16.357	16.331	16.378	VV	7018	125301	1.79%	0.049%
227	16.411	16.378	16.467	VV	8965	227836	3.26%	0.088%
228	16.511	16.467	16.531	VV	4637	104427	1.49%	0.041%
229	16.580	16.531	16.605	VV	13808	282362	4.04%	0.110%
230	16.649	16.605	16.694	VV	424074	5723516	81.83%	2.222%
231	16.755	16.694	16.788	VV	382162	5624108	80.41%	2.184%
232	16.827	16.788	16.859	VV	21005	398956	5.70%	0.155%
233	16.880	16.859	16.921	VV	3575	117106	1.67%	0.045%
234	16.945	16.921	16.958	VV	2973	60988	0.87%	0.024%
235	17.009	16.958	17.062	VV	5809	249844	3.57%	0.097%
236	17.115	17.062	17.173	VV	39759	923015	13.20%	0.358%
237	17.201	17.173	17.243	VV	34623	618892	8.85%	0.240%
238	17.287	17.243	17.335	VV	6980	279334	3.99%	0.108%
239	17.360	17.335	17.385	VV	4613	125089	1.79%	0.049%
240	17.406	17.385	17.425	VV	4428	100743	1.44%	0.039%
241	17.434	17.425	17.457	VV	4052	73567	1.05%	0.029%
242	17.485	17.457	17.503	VV	5011	124586	1.78%	0.048%
243	17.531	17.503	17.551	VV	9395	202235	2.89%	0.079%
244	17.568	17.551	17.580	VV	7166	120443	1.72%	0.047%
245	17.643	17.580	17.685	VV	385888	5822409	83.25%	2.261%
246	17.728	17.685	17.755	VV	21295	466684	6.67%	0.181%

Instrument :

FID_C

ClientSampleId :

JC-701-COMP-01MSD

Manual IntegrationsAPPROVED

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					retention			
247	17.773	17.755	17.795	VV	7272	163953	2.34%	0.064%
248	17.804	17.795	17.821	VV	6658	100344		
249	17.861	17.821	17.890	VV	10103	297309		
250	17.916	17.890	17.935	VV	8520	198928		
251	17.956	17.935	17.967	VV	10253	175016		
252	18.020	17.967	18.036	VV	391541	6793517	97.41%	2.715%
253	18.058	18.036	18.119	VV	500852	6994025	100.00%	2.715%
254	18.152	18.119	18.225	VV	14073	658438	9.41%	0.256%
255	18.276	18.225	18.308	VV	385452	5937049	84.89%	2.305%
256	18.360	18.308	18.380	VV	10135	411882	5.89%	0.160%
257	18.393	18.380	18.398	VV	10243	108389	1.55%	0.042%
258	18.473	18.398	18.509	VV	385239	6107574	87.33%	2.371%
259	18.530	18.509	18.543	VV	11880	212403	3.04%	0.082%
260	18.570	18.543	18.634	VV	30000	840112	12.01%	0.326%
261	18.657	18.634	18.682	VV	13165	309527	4.43%	0.120%
262	18.694	18.682	18.711	VV	9103	149737	2.14%	0.058%
263	18.734	18.711	18.751	VV	11317	239883	3.43%	0.093%
264	18.775	18.751	18.787	VV	14159	260536	3.73%	0.101%
265	18.818	18.787	18.844	VV	58946	1235830	17.67%	0.480%
266	18.868	18.844	18.911	VV	50636	1225881	17.53%	0.476%
267	18.933	18.911	18.956	VV	15688	382634	5.47%	0.149%
268	18.984	18.956	19.013	VV	15988	474968	6.79%	0.184%
269	19.093	19.013	19.128	VV	16818	951148	13.60%	0.369%
270	19.159	19.128	19.193	VV	19426	600221	8.58%	0.233%
271	19.255	19.193	19.289	VV	360992	6061434	86.67%	2.353%
272	19.302	19.289	19.327	VV	19839	375437	5.37%	0.146%
273	19.357	19.327	19.381	VV	14841	414769	5.93%	0.161%
274	19.414	19.381	19.431	VV	16694	416530	5.96%	0.162%
275	19.444	19.431	19.462	VV	14116	249932	3.57%	0.097%
276	19.483	19.462	19.498	VV	14150	285285	4.08%	0.111%
277	19.522	19.498	19.561	VV	15655	540088	7.72%	0.210%
278	19.596	19.561	19.637	VV	41645	1197913	17.13%	0.465%
279	19.653	19.637	19.722	VV	26651	860255	12.30%	0.334%
280	19.792	19.722	19.825	VV	19802	1043739	14.92%	0.405%
281	19.846	19.825	19.869	VV	20855	528283	7.55%	0.205%
282	19.892	19.869	19.923	VV	25422	693782	9.92%	0.269%
283	19.941	19.923	19.955	VV	19469	343299	4.91%	0.133%
284	19.994	19.955	20.091	VV	358825	6232160	89.11%	2.420%
285	20.138	20.091	20.172	VV	20118	759329	10.86%	0.295%
286	20.208	20.172	20.245	VV	13883	590558	8.44%	0.229%
287	20.277	20.245	20.298	VV	16590	472967	6.76%	0.184%
288	20.336	20.298	20.359	VV	19409	620760	8.88%	0.241%
289	20.380	20.359	20.477	VV	19356	1088848	15.57%	0.423%
290	20.502	20.477	20.576	VV	15494	770955	11.02%	0.299%
291	20.586	20.576	20.593	VV	11525	111105	1.59%	0.043%
292	20.618	20.593	20.635	VV	11744	288406	4.12%	0.112%
293	20.715	20.635	20.761	VV	297851	6023035	86.12%	2.338%
294	20.772	20.761	20.778	VV	11086	113426	1.62%	0.044%
295	20.800	20.778	20.955	VV	11290	1028007	14.70%	0.399%
296	20.960	20.955	20.970	VV	8592	77352	1.11%	0.030%
297	21.042	20.970	21.095	VV	10037	671874	9.61%	0.261%
298	21.130	21.095	21.179	VV	10774	477333	6.82%	0.185%
299	21.186	21.179	21.248	VV	8689	296467	4.24%	0.115%

Instrument :
FID_C
ClientSampleId :
JC-701-COMP-01MSD

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300	21.256	21.248	21.332	VV	6320	301401		
301	21.361	21.332	21.398	VV	6173	228183		
302	21.459	21.398	21.475	VV	7532	319326		
303	21.511	21.475	21.540	VV	8797	318578		
304	21.601	21.540	21.764	VV	223016	5681010	81	
305	21.792	21.764	21.839	VV	3568	132043	1	
306	21.993	21.968	22.018	VV	1210	29857	0.43%	0.012%
307	22.028	22.018	22.039	VV	766	8220	0.12%	0.003%
308	22.128	22.114	22.181	VV	885	16639	0.24%	0.006%
Sum of corrected areas:					257566325			

Instrument :
FID_C
ClientSampleId :
JC-701-COMP-01MSD

Manual IntegrationsAPPROVED
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :Ankita Jodhani 11/08/2024

Aliphatic EPH 102324.M Fri Nov 08 01:27:05 2024



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Manual Integration Report

Sequence:

FC102324AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

FC110724AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164751BS	FC067658.D	n-Tetracosane (C24)	yogesh	11/8/2024 9:24:45 AM	Ankita	11/8/2024 9:58:33	Peak Integrated by Software
PB164751BSD	FC067659.D	n-Tetracosane (C24)	yogesh	11/8/2024 9:24:46 AM	Ankita	11/8/2024 9:58:34	Peak Integrated by Software
P4720-01MS	FC067662.D	n-Dotriacontane (C32)	yogesh	11/8/2024 9:24:48 AM	Ankita	11/8/2024 9:58:36	Peak Integrated by Software
P4720-01MS	FC067662.D	n-Tetracosane (C24)	yogesh	11/8/2024 9:24:48 AM	Ankita	11/8/2024 9:58:36	Peak Integrated by Software
P4720-01MSD	FC067663.D	n-Tetracosane (C24)	yogesh	11/8/2024 9:24:49 AM	Ankita	11/8/2024 9:58:38	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067666.D	n-Hexatriacontane (C36)	yogesh	11/8/2024 9:24:51 AM	Ankita	11/8/2024 9:58:39	Peak Integrated by Software

Manual Integration Report

Sequence:	FE110724AL	Instrument	FID_e
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
10 PPM ALIPHATIC HC	FE051078.D	A~2-methylnaphthalene (C12.89)	yogesh	11/7/2024 8:51:03 AM	Ankita	11/7/2024 8:56:20	Peak Integrated by Software
5 PPM ALIPHATIC HC	FE051079.D	n-Tetracontane (C40)	yogesh	11/7/2024 8:51:04 AM	Ankita	11/7/2024 8:56:22	Peak Integrated by Software

Manual Integration Report

Sequence:	FE110824AL	Instrument	FID_e
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4720-04	FE051086.D	ortho-Terphenyl (SURRE)	yogesh	11/8/2024 9:25:12 AM	Ankita	11/8/2024 9:58:58	Peak Integrated by Software
P4722-08	FE051088.D	ortho-Terphenyl (SURRE)	yogesh	11/8/2024 9:25:14 AM	Ankita	11/8/2024 9:59:00	Peak Integrated by Software
P4737-01	FE051092.D	1-chlorooctadecane (SURRE)	yogesh	11/8/2024 9:25:15 AM	Ankita	11/8/2024 9:59:01	Peak Integrated by Software
P4739-01	FE051094.D	ortho-Terphenyl (SURRE)	yogesh	11/8/2024 9:25:17 AM	Ankita	11/8/2024 9:59:03	Peak Integrated by Software
P4739-02	FE051095.D	1-chlorooctadecane (SURRE)	yogesh	11/8/2024 9:25:18 AM	Ankita	11/8/2024 9:59:04	Peak Integrated by Software
P4739-02	FE051095.D	ortho-Terphenyl (SURRE)	yogesh	11/8/2024 9:25:18 AM	Ankita	11/8/2024 9:59:04	Peak Integrated by Software
P4739-05	FE051096.D	1-chlorooctadecane (SURRE)	yogesh	11/8/2024 9:25:20 AM	Ankita	11/8/2024 9:59:05	Peak Integrated by Software
P4739-05	FE051096.D	ortho-Terphenyl (SURRE)	yogesh	11/8/2024 9:25:20 AM	Ankita	11/8/2024 9:59:05	Peak Integrated by Software
P4739-06	FE051097.D	1-chlorooctadecane (SURRE)	yogesh	11/8/2024 9:25:21 AM	Ankita	11/8/2024 9:59:07	Peak Integrated by Software
P4739-06	FE051097.D	ortho-Terphenyl (SURRE)	yogesh	11/8/2024 9:25:21 AM	Ankita	11/8/2024 9:59:07	Peak Integrated by Software
P4739-10	FE051099.D	ortho-Terphenyl (SURRE)	yogesh	11/8/2024 9:25:24 AM	Ankita	11/8/2024 9:59:08	Peak Integrated by Software
P4739-13	FE051100.D	ortho-Terphenyl (SURRE)	yogesh	11/8/2024 9:25:26 AM	Ankita	11/8/2024 9:59:10	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051103.D	n-Docosane (C22)	yogesh	11/8/2024 9:25:27 AM	Ankita	11/8/2024 9:59:12	Peak Integrated by Software



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Manual Integration Report

Sequence:

FE110824AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE051103.D	n-Tetracontane (C40)	yogesh	11/8/2024 9:25:27 AM	Ankita	11/8/2024 9:59:12	Peak Integrated by Software

Manual Integration Report

Sequence:	FE110924AL	Instrument	FID_e
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE051106.D	n-Octatriacontane (C38)	yogesh	11/11/2024 9:23:17 AM	Ankita	11/11/2024 9:51:50	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051106.D	n-Tetracontane (C40)	yogesh	11/11/2024 9:23:17 AM	Ankita	11/11/2024 9:51:50	Peak Integrated by Software
P4739-01DL	FE051112.D	1-chlorooctadecane (SURRE)	yogesh	11/11/2024 9:23:19 AM	Ankita	11/11/2024 9:51:52	Peak Integrated by Software
P4739-02DL	FE051113.D	1-chlorooctadecane (SURRE)	yogesh	11/11/2024 9:23:20 AM	Ankita	11/11/2024 9:51:53	Peak Integrated by Software
P4739-02DL	FE051113.D	ortho-Terphenyl (SURRE)	yogesh	11/11/2024 9:23:20 AM	Ankita	11/11/2024 9:51:53	Peak Integrated by Software
P4739-02DL2	FE051114.D	1-chlorooctadecane (SURRE)	yogesh	11/11/2024 9:23:22 AM	Ankita	11/11/2024 9:51:55	Peak Integrated by Software
P4739-05DL	FE051117.D	1-chlorooctadecane (SURRE)	yogesh	11/11/2024 9:23:23 AM	Ankita	11/11/2024 9:51:56	Peak Integrated by Software
P4739-05DL	FE051117.D	ortho-Terphenyl (SURRE)	yogesh	11/11/2024 9:23:23 AM	Ankita	11/11/2024 9:51:56	Peak Integrated by Software
P4739-06DL	FE051122.D	1-chlorooctadecane (SURRE)	yogesh	11/11/2024 9:23:25 AM	Ankita	11/11/2024 9:51:57	Peak Integrated by Software
P4721-06	FE051128.D	1-chlorooctadecane (SURRE)	yogesh	11/11/2024 9:23:27 AM	Ankita	11/11/2024 9:51:59	Peak Integrated by Software
P4721-07	FE051129.D	1-chlorooctadecane (SURRE)	yogesh	11/11/2024 9:23:29 AM	Ankita	11/11/2024 9:52:00	Peak Integrated by Software
P4721-05	FE051132.D	1-chlorooctadecane (SURRE)	yogesh	11/11/2024 9:23:30 AM	Ankita	11/11/2024 9:52:03	Peak Integrated by Software



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Manual Integration Report

Sequence:

FE110924AL

Instrument

FID_e

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC102324AL

Review By	yogesh	Review On	10/23/2024 4:03:24 PM
Supervise By	Ankita	Supervise On	10/24/2024 9:29:51 AM
SubDirectory	FC102324AL	HP Acquire Method	HP Processing Method FC102324AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067504.D	23 Oct 2024 13:59	YP/AJ	Ok
2	I.BLK	FC067505.D	23 Oct 2024 14:35	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC067506.D	23 Oct 2024 15:12	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC067507.D	23 Oct 2024 15:48	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC067508.D	23 Oct 2024 16:25	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC067509.D	23 Oct 2024 17:02	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC067510.D	23 Oct 2024 17:38	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC067511.D	23 Oct 2024 18:14	YP/AJ	Ok
9	I.BLK	FC067512.D	23 Oct 2024 19:27	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067513.D	23 Oct 2024 20:03	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC110724AL

Review By	yogesh	Review On	11/7/2024 9:02:52 AM
Supervise By	Ankita	Supervise On	11/8/2024 9:58:43 AM
SubDirectory	FC110724AL	HP Acquire Method	HP Processing Method FC102324AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067649.D	07 Nov 2024 06:11	YP/AJ	Ok
2	I.BLK	FC067650.D	07 Nov 2024 06:47	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067651.D	07 Nov 2024 07:23	YP/AJ	Ok
4	P4711-06DL	FC067652.D	07 Nov 2024 08:00	YP/AJ	Ok
5	P4711-08DL	FC067653.D	07 Nov 2024 08:36	YP/AJ	Ok
6	P4711-09DL	FC067654.D	07 Nov 2024 09:13	YP/AJ	Ok
7	I.BLK	FC067655.D	07 Nov 2024 12:10	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD	FC067656.D	07 Nov 2024 12:46	YP/AJ	Ok
9	PB164751BL	FC067657.D	07 Nov 2024 16:01	YP/AJ	Ok
10	PB164751BS	FC067658.D	07 Nov 2024 16:38	YP/AJ	Ok,M
11	PB164751BSD	FC067659.D	07 Nov 2024 17:15	YP/AJ	Ok,M
12	P4720-01	FC067660.D	07 Nov 2024 17:52	YP/AJ	Ok
13	P4720-01D	FC067661.D	07 Nov 2024 18:29	YP/AJ	Ok
14	P4720-01MS	FC067662.D	07 Nov 2024 19:06	YP/AJ	Ok,M
15	P4720-01MSD	FC067663.D	07 Nov 2024 19:43	YP/AJ	Ok,M
16	P4720-03	FC067664.D	07 Nov 2024 20:19	YP/AJ	Ok
17	I.BLK	FC067665.D	07 Nov 2024 21:32	YP/AJ	Ok
18	20 PPM ALIPHATIC HC STD	FC067666.D	07 Nov 2024 22:09	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE110724AL

Review By	yogesh	Review On	11/6/2024 3:54:26 PM
Supervise By	Ankita	Supervise On	11/7/2024 8:56:25 AM
SubDirectory	FE110724AL	HP Acquire Method	HP Processing Method FE110724AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE051073.D	06 Nov 2024 15:51	YP\AJ	Ok
2	I.BLK	FE051074.D	06 Nov 2024 16:21	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE051075.D	06 Nov 2024 16:52	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE051076.D	06 Nov 2024 17:22	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE051077.D	06 Nov 2024 17:52	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE051078.D	06 Nov 2024 18:22	YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC STD5	FE051079.D	06 Nov 2024 18:53	YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC STD ICV	FE051080.D	06 Nov 2024 19:23	YP\AJ	Ok
9	I.BLK	FE051081.D	06 Nov 2024 20:23	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE051082.D	06 Nov 2024 20:54	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE110824AL

Review By	yogesh	Review On	11/7/2024 12:20:25 PM
Supervise By	Ankita	Supervise On	11/8/2024 9:59:23 AM
SubDirectory	FE110824AL	HP Acquire Method	HP Processing Method FE110724AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE051083.D	07 Nov 2024 06:31	YP\AJ	Ok
2	I.BLK	FE051084.D	07 Nov 2024 12:14	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE051085.D	07 Nov 2024 12:44	YP\AJ	Ok
4	P4720-04	FE051086.D	07 Nov 2024 16:10	YP\AJ	Ok,M
5	P4722-03	FE051087.D	07 Nov 2024 16:40	YP\AJ	Dilution
6	P4722-08	FE051088.D	07 Nov 2024 17:10	YP\AJ	Dilution
7	P4722-13	FE051089.D	07 Nov 2024 17:40	YP\AJ	Dilution
8	P4734-01	FE051090.D	07 Nov 2024 18:11	YP\AJ	Dilution
9	P4734-02	FE051091.D	07 Nov 2024 18:41	YP\AJ	Dilution
10	P4737-01	FE051092.D	07 Nov 2024 19:11	YP\AJ	Ok,M
11	P4737-02	FE051093.D	07 Nov 2024 19:41	YP\AJ	Ok
12	P4739-01	FE051094.D	07 Nov 2024 20:11	YP\AJ	Dilution
13	P4739-02	FE051095.D	07 Nov 2024 20:41	YP\AJ	Dilution
14	P4739-05	FE051096.D	07 Nov 2024 21:11	YP\AJ	Dilution
15	P4739-06	FE051097.D	07 Nov 2024 21:41	YP\AJ	Dilution
16	P4739-09	FE051098.D	07 Nov 2024 22:11	YP\AJ	Dilution
17	P4739-10	FE051099.D	07 Nov 2024 22:41	YP\AJ	Dilution
18	P4739-13	FE051100.D	07 Nov 2024 23:11	YP\AJ	Dilution
19	P4739-14	FE051101.D	07 Nov 2024 23:41	YP\AJ	Dilution
20	I.BLK	FE051102.D	08 Nov 2024 00:41	YP\AJ	Ok
21	20 PPM ALIPHATIC HC STD	FE051103.D	08 Nov 2024 01:11	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE110924AL

Review By	yogesh	Review On	11/8/2024 10:15:00 AM
Supervise By	Ankita	Supervise On	11/11/2024 9:52:08 AM
SubDirectory	FE110924AL	HP Acquire Method	HP Processing Method FE110724AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE051104.D	08 Nov 2024 04:17	YP\AJ	Ok
2	I.BLK	FE051105.D	08 Nov 2024 04:47	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE051106.D	08 Nov 2024 05:18	YP\AJ	Ok,M
4	P4722-03DL	FE051107.D	08 Nov 2024 08:06	YP\AJ	Ok
5	P4722-08DL	FE051108.D	08 Nov 2024 08:36	YP\AJ	Ok
6	P4722-13DL	FE051109.D	08 Nov 2024 09:06	YP\AJ	Ok
7	P4734-01DL	FE051110.D	08 Nov 2024 09:36	YP\AJ	Ok
8	P4734-02DL	FE051111.D	08 Nov 2024 10:06	YP\AJ	Ok
9	P4739-01DL	FE051112.D	08 Nov 2024 10:36	YP\AJ	Ok,M
10	P4739-02DL	FE051113.D	08 Nov 2024 11:06	YP\AJ	Dilution
11	P4739-02DL2	FE051114.D	08 Nov 2024 11:36	YP\AJ	Ok,M
12	I.BLK	FE051115.D	08 Nov 2024 12:37	YP\AJ	Ok
13	20 PPM ALIPHATIC HC STD	FE051116.D	08 Nov 2024 13:07	YP\AJ	Ok
14	P4739-05DL	FE051117.D	08 Nov 2024 13:37	YP\AJ	Ok,M
15	P4739-09DL	FE051118.D	08 Nov 2024 14:07	YP\AJ	Ok
16	P4739-10DL	FE051119.D	08 Nov 2024 14:37	YP\AJ	Ok
17	P4739-13DL	FE051120.D	08 Nov 2024 15:08	YP\AJ	Ok
18	P4739-14DL	FE051121.D	08 Nov 2024 15:38	YP\AJ	Ok
19	P4739-06DL	FE051122.D	08 Nov 2024 16:08	YP\AJ	Ok,M
20	I.BLK	FE051123.D	08 Nov 2024 17:08	YP\AJ	Ok
21	20 PPM ALIPHATIC HC STD	FE051124.D	08 Nov 2024 17:38	YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE110924AL

Review By	yogesh	Review On	11/8/2024 10:15:00 AM
Supervise By	Ankita	Supervise On	11/11/2024 9:52:08 AM
SubDirectory	FE110924AL	HP Acquire Method	HP Processing Method FE110724AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23647 PP23645,PP23650		

22	P4721-03	FE051125.D	08 Nov 2024 18:38	YP\AJ	Dilution
23	P4721-04	FE051126.D	08 Nov 2024 19:08	YP\AJ	Dilution
24	P4721-10	FE051127.D	08 Nov 2024 19:38	YP\AJ	Ok
25	P4721-06	FE051128.D	08 Nov 2024 20:08	YP\AJ	Dilution
26	P4721-07	FE051129.D	08 Nov 2024 20:38	YP\AJ	Dilution
27	P4721-08	FE051130.D	08 Nov 2024 21:08	YP\AJ	Ok
28	P4721-09	FE051131.D	08 Nov 2024 21:39	YP\AJ	Ok
29	P4721-05	FE051132.D	08 Nov 2024 22:09	YP\AJ	Dilution
30	I.BLK	FE051133.D	08 Nov 2024 23:39	YP\AJ	Ok
31	20 PPM ALIPHATIC HC STD	FE051134.D	09 Nov 2024 00:09	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC102324AL

Review By	yogesh	Review On	10/23/2024 4:03:24 PM
Supervise By	Ankita	Supervise On	10/24/2024 9:29:51 AM
SubDirectory	FC102324AL	HP Acquire Method	HP Processing Method FC102324AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067504.D	23 Oct 2024 13:59		YP/AJ	Ok
2	I.BLK	I.BLK	FC067505.D	23 Oct 2024 14:35		YP/AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FC067506.D	23 Oct 2024 15:12		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC067507.D	23 Oct 2024 15:48		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067508.D	23 Oct 2024 16:25		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC067509.D	23 Oct 2024 17:02		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC067510.D	23 Oct 2024 17:38		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067511.D	23 Oct 2024 18:14		YP/AJ	Ok
9	I.BLK	I.BLK	FC067512.D	23 Oct 2024 19:27		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067513.D	23 Oct 2024 20:03		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC110724AL

Review By	yogesh	Review On	11/7/2024 9:02:52 AM
Supervise By	Ankita	Supervise On	11/8/2024 9:58:43 AM
SubDirectory	FC110724AL	HP Acquire Method	HP Processing Method FC102324AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC	PP23647		
Internal Standard/PEM			
ICV/I.BLK	PP23645,PP23650		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067649.D	07 Nov 2024 06:11		YP/AJ	Ok
2	I.BLK	I.BLK	FC067650.D	07 Nov 2024 06:47		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067651.D	07 Nov 2024 07:23		YP/AJ	Ok
4	P4711-06DL	CF-613-COMP-17DL	FC067652.D	07 Nov 2024 08:00		YP/AJ	Ok
5	P4711-08DL	CF-613-48DL	FC067653.D	07 Nov 2024 08:36		YP/AJ	Ok
6	P4711-09DL	CF-613-49DL	FC067654.D	07 Nov 2024 09:13		YP/AJ	Ok
7	I.BLK	I.BLK	FC067655.D	07 Nov 2024 12:10		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067656.D	07 Nov 2024 12:46		YP/AJ	Ok
9	PB164751BL	PB164751BL	FC067657.D	07 Nov 2024 16:01		YP/AJ	Ok
10	PB164751BS	PB164751BS	FC067658.D	07 Nov 2024 16:38		YP/AJ	Ok,M
11	PB164751BSD	PB164751BSD	FC067659.D	07 Nov 2024 17:15		YP/AJ	Ok,M
12	P4720-01	JC-701-COMP-01	FC067660.D	07 Nov 2024 17:52		YP/AJ	Ok
13	P4720-01D	P4720-01D	FC067661.D	07 Nov 2024 18:29		YP/AJ	Ok
14	P4720-01MS	JC-701-COMP-01MS	FC067662.D	07 Nov 2024 19:06	FC067660.D	YP/AJ	Ok,M
15	P4720-01MSD	JC-701-COMP-01MSD	FC067663.D	07 Nov 2024 19:43	FC067660.D!FC067662.D	YP/AJ	Ok,M
16	P4720-03	JC-701-01	FC067664.D	07 Nov 2024 20:19		YP/AJ	Ok
17	I.BLK	I.BLK	FC067665.D	07 Nov 2024 21:32		YP/AJ	Ok
18	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067666.D	07 Nov 2024 22:09		YP/AJ	Ok,M

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC110724AL

Review By	yogesh	Review On	11/7/2024 9:02:52 AM
Supervise By	Ankita	Supervise On	11/8/2024 9:58:43 AM
SubDirectory	FC110724AL	HP Acquire Method	HP Processing Method FC102324AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE110724AL

Review By	yogesh	Review On	11/6/2024 3:54:26 PM
Supervise By	Ankita	Supervise On	11/7/2024 8:56:25 AM
SubDirectory	FE110724AL	HP Acquire Method	HP Processing Method FE110724AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE051073.D	06 Nov 2024 15:51		YP\AJ	Ok
2	I.BLK	I.BLK	FE051074.D	06 Nov 2024 16:21		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FE051075.D	06 Nov 2024 16:52		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE051076.D	06 Nov 2024 17:22		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051077.D	06 Nov 2024 17:52		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE051078.D	06 Nov 2024 18:22		YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE051079.D	06 Nov 2024 18:53		YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051080.D	06 Nov 2024 19:23		YP\AJ	Ok
9	I.BLK	I.BLK	FE051081.D	06 Nov 2024 20:23		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051082.D	06 Nov 2024 20:54		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE110824AL

Review By	yogesh	Review On	11/7/2024 12:20:25 PM
Supervise By	Ankita	Supervise On	11/8/2024 9:59:23 AM
SubDirectory	FE110824AL	HP Acquire Method	HP Processing Method FE110724AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE051083.D	07 Nov 2024 06:31		YP\AJ	Ok
2	I.BLK	I.BLK	FE051084.D	07 Nov 2024 12:14		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051085.D	07 Nov 2024 12:44		YP\AJ	Ok
4	P4720-04	JC-701-02	FE051086.D	07 Nov 2024 16:10		YP\AJ	Ok,M
5	P4722-03	WC-1(0-6)	FE051087.D	07 Nov 2024 16:40	need 5x dilution	YP\AJ	Dilution
6	P4722-08	WC-2(0-6)	FE051088.D	07 Nov 2024 17:10	need 5x dilution	YP\AJ	Dilution
7	P4722-13	WC-3(0-6)	FE051089.D	07 Nov 2024 17:40	need 5x dilution	YP\AJ	Dilution
8	P4734-01	EO-03-11062024	FE051090.D	07 Nov 2024 18:11	need 5x dilution	YP\AJ	Dilution
9	P4734-02	EO-03-11062024-E2	FE051091.D	07 Nov 2024 18:41	need 5x dilution	YP\AJ	Dilution
10	P4737-01	TP2	FE051092.D	07 Nov 2024 19:11		YP\AJ	Ok,M
11	P4737-02	TP2-E2	FE051093.D	07 Nov 2024 19:41		YP\AJ	Ok
12	P4739-01	TP-14	FE051094.D	07 Nov 2024 20:11	need 10x dilution	YP\AJ	Dilution
13	P4739-02	TP-14-EPH	FE051095.D	07 Nov 2024 20:41	need 2x & 20x dilution	YP\AJ	Dilution
14	P4739-05	BP-G2	FE051096.D	07 Nov 2024 21:11	need 10x dilution	YP\AJ	Dilution
15	P4739-06	BP-G2-EPH	FE051097.D	07 Nov 2024 21:41	need 10x dilution	YP\AJ	Dilution
16	P4739-09	BP-B2	FE051098.D	07 Nov 2024 22:11	need 2x dilution	YP\AJ	Dilution
17	P4739-10	BP-B2-EPH	FE051099.D	07 Nov 2024 22:41	need 5x dilution	YP\AJ	Dilution
18	P4739-13	TP-11	FE051100.D	07 Nov 2024 23:11	need 5x dilution	YP\AJ	Dilution

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE110824AL

Review By	yogesh	Review On	11/7/2024 12:20:25 PM
Supervise By	Ankita	Supervise On	11/8/2024 9:59:23 AM
SubDirectory	FE110824AL	HP Acquire Method	HP Processing Method FE110724AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

19	P4739-14	TP-11-EPH	FE051101.D	07 Nov 2024 23:41	need 5x dilution	YP\AJ	Dilution
20	I.BLK	I.BLK	FE051102.D	08 Nov 2024 00:41		YP\AJ	Ok
21	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051103.D	08 Nov 2024 01:11		YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE110924AL

Review By	yogesh	Review On	11/8/2024 10:15:00 AM
Supervise By	Ankita	Supervise On	11/11/2024 9:52:08 AM
SubDirectory	FE110924AL	HP Acquire Method	HP Processing Method FE110724AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23647 PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE051104.D	08 Nov 2024 04:17		YP\AJ	Ok
2	I.BLK	I.BLK	FE051105.D	08 Nov 2024 04:47		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051106.D	08 Nov 2024 05:18		YP\AJ	Ok,M
4	P4722-03DL	WC-1(0-6)DL	FE051107.D	08 Nov 2024 08:06		YP\AJ	Ok
5	P4722-08DL	WC-2(0-6)DL	FE051108.D	08 Nov 2024 08:36		YP\AJ	Ok
6	P4722-13DL	WC-3(0-6)DL	FE051109.D	08 Nov 2024 09:06		YP\AJ	Ok
7	P4734-01DL	EO-03-11062024DL	FE051110.D	08 Nov 2024 09:36		YP\AJ	Ok
8	P4734-02DL	EO-03-11062024-E2DL	FE051111.D	08 Nov 2024 10:06		YP\AJ	Ok
9	P4739-01DL	TP-14DL	FE051112.D	08 Nov 2024 10:36		YP\AJ	Ok,M
10	P4739-02DL	TP-14-EPHDL	FE051113.D	08 Nov 2024 11:06	need further dilution	YP\AJ	Dilution
11	P4739-02DL2	TP-14-EPHDL2	FE051114.D	08 Nov 2024 11:36		YP\AJ	Ok,M
12	I.BLK	I.BLK	FE051115.D	08 Nov 2024 12:37		YP\AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051116.D	08 Nov 2024 13:07		YP\AJ	Ok
14	P4739-05DL	BP-G2DL	FE051117.D	08 Nov 2024 13:37		YP\AJ	Ok,M
15	P4739-09DL	BP-B2DL	FE051118.D	08 Nov 2024 14:07		YP\AJ	Ok
16	P4739-10DL	BP-B2-EPHDL	FE051119.D	08 Nov 2024 14:37		YP\AJ	Ok
17	P4739-13DL	TP-11DL	FE051120.D	08 Nov 2024 15:08		YP\AJ	Ok
18	P4739-14DL	TP-11-EPHDL	FE051121.D	08 Nov 2024 15:38		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE110924AL

Review By	yogesh	Review On	11/8/2024 10:15:00 AM
Supervise By	Ankita	Supervise On	11/11/2024 9:52:08 AM
SubDirectory	FE110924AL	HP Acquire Method	HP Processing Method FE110724AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

19	P4739-06DL	BP-G2-EPHDL	FE051122.D	08 Nov 2024 16:08		YP\AJ	Ok,M
20	I.BLK	I.BLK	FE051123.D	08 Nov 2024 17:08		YP\AJ	Ok
21	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051124.D	08 Nov 2024 17:38		YP\AJ	Ok
22	P4721-03	EX-2-TPH-3	FE051125.D	08 Nov 2024 18:38	need 20x dilution	YP\AJ	Dilution
23	P4721-04	EX-11-TPH-1	FE051126.D	08 Nov 2024 19:08	need 10x & 50x dilution	YP\AJ	Dilution
24	P4721-10	EX-9-TPH-3	FE051127.D	08 Nov 2024 19:38		YP\AJ	Ok
25	P4721-06	EX-11-TPH-3	FE051128.D	08 Nov 2024 20:08	need 2x dilution	YP\AJ	Dilution
26	P4721-07	EX-11-TPH-4	FE051129.D	08 Nov 2024 20:38	need 20x & 100x dilution	YP\AJ	Dilution
27	P4721-08	EX-9-TPH-1	FE051130.D	08 Nov 2024 21:08		YP\AJ	Ok
28	P4721-09	EX-9-TPH-2	FE051131.D	08 Nov 2024 21:39		YP\AJ	Ok
29	P4721-05	EX-11-TPH-2	FE051132.D	08 Nov 2024 22:09	need further 5x dilution	YP\AJ	Dilution
30	I.BLK	I.BLK	FE051133.D	08 Nov 2024 23:39		YP\AJ	Ok
31	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051134.D	09 Nov 2024 00:09		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: sohil
Analyst: jignesh
Date: 11/7/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 11/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/07/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133313

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
P4659-01	MH-2	39	1.13	8.64	9.77	8.64	86.9	
P4662-06	102524-D	29	1.00	1.00	2.00	2.00	100.0	oil sample
P4720-01	JC-701-COMP-01	1	1.16	8.49	9.65	8.85	90.6	
P4720-02	JC-701-VOC-01	2	1.16	8.49	9.65	8.85	90.6	
P4720-03	JC-701-01	3	1.15	8.58	9.73	8.99	91.4	
P4720-04	JC-701-02	4	1.13	8.65	9.78	8.73	87.9	
P4721-01	EX-2-TPH-1	5	1.15	8.82	9.97	8.8	86.7	
P4721-02	EX-2-TPH-2	6	1.18	8.47	9.65	8.21	83.0	
P4721-03	EX-2-TPH-3	7	1.16	8.82	9.98	8.95	88.3	
P4721-04	EX-11-TPH-1	8	1.15	8.53	9.68	7.95	79.7	
P4721-05	EX-11-TPH-2	9	1.12	8.56	9.68	8.95	91.5	
P4721-06	EX-11-TPH-3	10	1.15	8.80	9.95	8.14	79.4	
P4721-07	EX-11-TPH-4	11	1.14	8.83	9.97	8.7	85.6	
P4721-08	EX-9-TPH-1	12	1.16	8.53	9.69	8.3	83.7	
P4721-09	EX-9-TPH-2	13	1.12	8.47	9.59	8.36	85.5	
P4721-10	EX-9-TPH-3	14	1.15	8.42	9.57	8.32	85.2	
P4721-11	EX-9-TPH-4	15	1.12	8.81	9.93	9.00	89.4	
P4721-12	EX-9-TPH-5	16	1.17	8.81	9.98	8.83	86.9	
P4721-13	EX-9-TPH-6	17	1.19	8.79	9.98	8.54	83.6	
P4721-14	EX-9-TPH-7	18	1.19	8.42	9.61	8.5	86.8	
P4721-15	EX-9-TPH-8	19	1.15	8.83	9.98	8.85	87.2	
P4722-01	WC-1 (5.5)	20	1.18	8.44	9.62	8.64	88.4	
P4722-03	WC-1 (0-6)	21	1.15	8.81	9.96	9.41	93.8	
P4722-06	WC-2 (2)	22	1.14	8.61	9.75	8.87	89.8	
P4722-08	WC-2 (0-6)	23	1.13	8.79	9.92	9.05	90.1	
P4722-11	WC-3 (5)	24	1.14	8.40	9.54	7.17	71.8	
P4722-13	WC-3 (0-6)	25	1.17	8.61	9.78	8.63	86.6	
P4722-17	WC-1 (3.5)	26	1.19	8.47	9.66	7.95	79.8	

PERCENT SOLID

Supervisor: sohil
Analyst: jignesh
Date: 11/7/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 11/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:15
Out Date: 11/07/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133313

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
P4722-19	WC-2 (4)	27	1.18	8.78	9.96	9.03	89.4	
P4722-21	WC-3 (3)	28	1.17	8.69	9.86	8.79	87.7	
P4731-01	NASSAU-ST-CO	30	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4731-02	S.JEFFERSON-CO-1	31	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4731-03	S.JEFFERSON-CO-2	32	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4732-01	PPE-COMP	33	1.00	1.00	2.00	2.00	100.0	PPE- PLASTIC
P4732-02	PPE-COMP	34	1.00	1.00	2.00	2.00	100.0	PPE- PLASTIC
P4732-04	PPE-Grab	35	1.00	1.00	2.00	2.00	100.0	PPE- PLASTIC
P4732-05	PPE-Grab	36	1.00	1.00	2.00	2.00	100.0	PPE- PLASTIC
P4734-01	EO-03-11062024	37	1.16	8.48	9.64	9.11	93.7	
P4734-02	EO-03-11062024-E2	38	1.19	8.67	9.86	9.26	93.1	
P4737-01	TP2	40	1.15	8.35	9.5	8.78	91.4	
P4737-02	TP2-E2	41	1.16	8.67	9.83	8.94	89.7	
P4738-01	72-12018	42	1.14	8.70	9.84	2.66	17.5	GEL MARTIX
P4739-01	TP-14	43	1.14	8.71	9.85	8.87	88.7	
P4739-02	TP-14-EPH	44	1.18	8.52	9.7	8.71	88.4	
P4739-03	TP-14-VOC	45	1.13	8.73	9.86	8.75	87.3	
P4739-05	BP-G2	46	1.16	8.71	9.87	8.74	87.0	
P4739-06	BP-G2-EPH	47	1.13	8.52	9.65	8.5	86.5	
P4739-07	BP-G2-VOC	48	1.13	8.85	9.98	8.93	88.1	
P4739-09	BP-B2	49	1.15	8.62	9.77	8.68	87.4	
P4739-10	BP-B2-EPH	50	1.15	8.38	9.53	8.4	86.5	
P4739-11	BP-B2-VOC	51	1.15	8.73	9.88	8.66	86.0	
P4739-13	TP-11	52	1.16	8.37	9.53	8.85	91.9	
P4739-14	TP-11-EPH	53	1.16	8.75	9.91	9.17	91.5	
P4739-15	TP-11-VOC	54	1.12	8.74	9.86	9.11	91.4	

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

WORKLIST(Hardcopy Internal Chain)

133313

WorkList Name : %1-110624

WorkList ID : 185146

Department : Wet-Chemistry

Date : 11-06-2024 07:38:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4659-01	MH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-06	102524-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4720-01	JC-701-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	11/05/2024	Chemtech -SO
P4720-02	JC-701-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	11/05/2024	Chemtech -SO
P4720-03	JC-701-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	11/05/2024	Chemtech -SO
P4720-04	JC-701-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	11/05/2024	Chemtech -SO
P4721-01	EX-2-TPH-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K31	11/05/2024	Chemtech -SO
P4721-02	EX-2-TPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-03	EX-2-TPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-04	EX-11-TPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-05	EX-11-TPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-06	EX-11-TPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-07	EX-11-TPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-08	EX-9-TPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-09	EX-9-TPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-10	EX-9-TPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-11	EX-9-TPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-12	EX-9-TPH-5	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-13	EX-9-TPH-6	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-14	EX-9-TPH-7	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO
P4721-15	EX-9-TPH-8	Solid	Percent Solids	Cool 4 deg C	ENTA05	L23	11/05/2024	Chemtech -SO

Date/Time 11/06/24 15:40
 Raw Sample Received by: JWC
 Raw Sample Relinquished by: JWC

Date/Time 11/06/24 17:45
 Raw Sample Received by: JWC
 Raw Sample Relinquished by: JWC

WORKLIST(Hardcopy Internal Chain)

133313

WorkList Name : %1-110624

WorkList ID : 185146

Department : Wet-Chemistry

Date : 11-06-2024 07:38:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4722-01	WC-1(5.5)	Solid	Percent Solids	Cool 4 deg C	WALS01	L23	11/05/2024	Chemtech -SO
P4722-03	WC-1(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	L23	11/05/2024	Chemtech -SO
P4722-06	WC-2(2)	Solid	Percent Solids	Cool 4 deg C	WALS01	L23	11/05/2024	Chemtech -SO
P4722-08	WC-2(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	L23	11/05/2024	Chemtech -SO
P4722-11	WC-3(5)	Solid	Percent Solids	Cool 4 deg C	WALS01	L23	11/05/2024	Chemtech -SO
P4722-13	WC-3(0-6)	Solid	Percent Solids	Cool 4 deg C	WALS01	L23	11/05/2024	Chemtech -SO
P4722-17	WC-1(3.5)	Solid	Percent Solids	Cool 4 deg C	WALS01	L23	11/05/2024	Chemtech -SO
P4722-19	WC-2(4)	Solid	Percent Solids	Cool 4 deg C	WALS01	L23	11/05/2024	Chemtech -SO
P4722-21	WC-3(3)	Solid	Percent Solids	Cool 4 deg C	WALS01	L23	11/05/2024	Chemtech -SO
P4731-01	NASSAU-ST-CO	Solid	Percent Solids	Cool 4 deg C	PSEG03	L23	10/23/2024	Chemtech -SO
P4731-02	S.JEFFERSON-CO-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L23	10/23/2024	Chemtech -SO
P4731-03	S.JEFFERSON-CO-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L23	10/23/2024	Chemtech -SO
P4732-01	PPE-COMP	Solid	Percent Solids	Cool 4 deg C	FUR101	L11	11/06/2024	Chemtech -SO
P4732-02	PPE-COMP	Solid	Percent Solids	Cool 4 deg C	FUR101	L11	11/06/2024	Chemtech -SO
P4732-04	PPE-Grab	Solid	Percent Solids	Cool 4 deg C	FUR101	L11	11/06/2024	Chemtech -SO
P4732-05	PPE-Grab	Solid	Percent Solids	Cool 4 deg C	FUR101	L11	11/06/2024	Chemtech -SO
P4734-01	EO-03-11062024	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/06/2024	Chemtech -SO
P4734-02	EO-03-11062024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L23	11/06/2024	Chemtech -SO
P4737-01	TP2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L23	11/05/2024	Chemtech -SO
P4737-02	TP2-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L23	11/05/2024	Chemtech -SO
P4738-01	72-12018	Solid	Percent Solids	Cool 4 deg C	PSEG03	L23	11/06/2024	Chemtech -SO

Date/Time 11/06/24 15:40
 Raw Sample Received by: SO (WC)
 Raw Sample Relinquished by: SO (WC)

Date/Time 11/06/24
 Raw Sample Received by: SO (WC)
 Raw Sample Relinquished by: SO (WC)

WORKLIST(Hardcopy Internal Chain)

133313

WorkList Name : %1-110624

WorkList ID : 185146

Department : Wet-Chemistry

Date : 11-06-2024 07:38:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4739-01	TP-14	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-02	TP-14-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-03	TP-14-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-05	BP-G2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-06	BP-G2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-07	BP-G2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-09	BP-B2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-10	BP-B2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-11	BP-B2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-13	TP-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-14	TP-11-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO
P4739-15	TP-11-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/06/2024	Chemtech -SO

Date/Time 11/06/24 15:50

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 11/06/24

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Solid

Welgh By: RJ **Extraction By:** RJ

Balance check: RJ **Filter By:** RJ

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

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

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

Extraction Start Date : 11/07/2024

Extraction Start Time : 09:50

Extraction End Date : 11/07/2024

Extraction End Time : 13:50

Concentration By: EH

Supervisor By : rajesh

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP23916
Surrogate	1.0ML	100 PPM	PP23934
Fractionation Surrogate	1.0ML	100 PPM	PP23927
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	EP2538
Baked Na2SO4	N/A	EP2556
Sand	N/A	E2865
Hexane	N/A	e3825
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

KD Bath ID: N/A **Envap ID:** NEVAP-02

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

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/7/24	RP (Ed. Lab)	Y-P-Post (PB)
13:55	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-7

Concentration Date: 11/07/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164751BL	PB164751BL	EPH_NF	30.02	N/A	ritesh	Evelyn	2			U1-1
PB164751BS	PB164751BS	EPH_NF	30.01	N/A	ritesh	Evelyn	2			2
PB164751BS D	PB164751BSD	EPH_NF	30.03	N/A	ritesh	Evelyn	2			3
P4720-01	JC-701-COMP-01	EPH_NF	30.06	N/A	ritesh	Evelyn	2	B		4
P4720-01DUP	JC-701-COMP-01DUP	EPH_NF	30.02	N/A	ritesh	Evelyn	2	B		5
P4720-01MS	JC-701-COMP-01MS	EPH_NF	30.07	N/A	ritesh	Evelyn	2	B		6
P4720-01MS D	JC-701-COMP-01MSD	EPH_NF	30.03	N/A	ritesh	Evelyn	2	B		U5-1
P4720-03	JC-701-01	EPH_NF	30.01	N/A	ritesh	Evelyn	2			2
P4720-04	JC-701-02	EPH_NF	30.05	N/A	ritesh	Evelyn	2			3
P4722-03	WC-1(0-6)	EPH_NF	30.08	N/A	ritesh	Evelyn	2	D		4
P4722-08	WC-2(0-6)	EPH_NF	30.01	N/A	ritesh	Evelyn	2	E		5
P4722-13	WC-3(0-6)	EPH_NF	30.09	N/A	ritesh	Evelyn	2	D		6
P4734-01	EO-03-11062024	EPH_NF	30.07	N/A	ritesh	Evelyn	2	D		U6-1
P4734-02	EO-03-11062024-E2	EPH_NF	30.03	N/A	ritesh	Evelyn	2			2
P4737-01	TP2	EPH_NF	30.06	N/A	ritesh	Evelyn	2	D		3
P4737-02	TP2-E2	EPH_NF	30.02	N/A	ritesh	Evelyn	2			4
P4739-01	TP-14	EPH_NF	30.05	N/A	ritesh	Evelyn	2	D		5
P4739-02	TP-14-EPH	EPH_NF	30.03	N/A	ritesh	Evelyn	2			6
P4739-05	BP-G2	EPH_NF	30.04	N/A	ritesh	Evelyn	2	D		U7-1
P4739-06	BP-G2-EPH	EPH_NF	30.08	N/A	ritesh	Evelyn	2			2
P4739-09	BP-B2	EPH_NF	30.01	N/A	ritesh	Evelyn	2	D		3
P4739-10	BP-B2-EPH	EPH_NF	30.06	N/A	ritesh	Evelyn	2			4
P4739-13	TP-11	EPH_NF	30.07	N/A	ritesh	Evelyn	2	D		5
P4739-14	TP-11-EPH	EPH_NF	30.05	N/A	ritesh	Evelyn	2			6

* Extracts relinquished on the same date as received.

11/7/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4720 WorkList ID : 185193 Department : Extraction Date : 11-07-2024 08:27:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4720-01	JC-701-COMP-01	Solid	EPH_NF	Cool 4 deg C	PSEG03	K31	11/05/2024	NJEPH
P4720-03	JC-701-01	Solid	EPH_NF	Cool 4 deg C	PSEG03	K31	11/05/2024	NJEPH
P4720-04	JC-701-02	Solid	EPH_NF	Cool 4 deg C	PSEG03	K31	11/05/2024	NJEPH
P4722-03	WC-1(0-6)	Solid	EPH_NF	Cool 4 deg C	WALS01	L23	11/05/2024	NJEPH
P4722-08	WC-2(0-6)	Solid	EPH_NF	Cool 4 deg C	WALS01	L23	11/05/2024	NJEPH
P4722-13	WC-3(0-6)	Solid	EPH_NF	Cool 4 deg C	WALS01	L23	11/05/2024	NJEPH
P4734-01	EO-03-11062024	Solid	EPH_NF	Cool 4 deg C	PSEG05	L23	11/06/2024	NJEPH
P4734-02	EO-03-11062024-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	L23	11/06/2024	NJEPH
P4737-01	TP2	Solid	EPH_NF	Cool 4 deg C	PSEG03	L23	11/05/2024	NJEPH
P4737-02	TP2-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	L23	11/05/2024	NJEPH
P4739-01	TP-14	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	11/06/2024	NJEPH
P4739-02	TP-14-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	11/06/2024	NJEPH
P4739-05	BP-G2	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	11/06/2024	NJEPH
P4739-06	BP-G2-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	11/06/2024	NJEPH
P4739-09	BP-B2	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	11/06/2024	NJEPH
P4739-10	BP-B2-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	11/06/2024	NJEPH
P4739-13	TP-11	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	11/06/2024	NJEPH
P4739-14	TP-11-EPH	Solid	EPH_NF	Cool 4 deg C	PSEG03	L21	11/06/2024	NJEPH

Date/Time 11/7/24 9:45
 Raw Sample Received by: RJ (Eph Lab)
 Raw Sample Relinquished by: JDSM

Date/Time 11/7/24 10:15
 Raw Sample Received by: JDSM
 Raw Sample Relinquished by: RJ (Eph Lab)

Prep Standard - Chemical Standard Summary

Order ID : P4722

Test : EPH_NF

Prepbatch ID : PB164751,

Sequence ID/Qc Batch ID: FC110724AL,FE110824AL,FE110924AL,

Standard ID :

EP2538,EP2556,PP23644,PP23645,PP23646,PP23647,PP23648,PP23649,PP23650,PP23916,PP23927,PP23934,

Chemical ID :

E2865,E3551,E3789,E3793,E3794,E3818,E3819,e3825,P12362,P12972,P12979,P13017,P13023,P13024,P13025,P13046,P13049,P13051,P13098,P13100,P13101,P13102,P13267,P13270,P13278,P13299,P13423,P13427,P13461,P13462,P13625,P13626,P13627,P13645,P13718,P13719,P13720,P13721,P13722,P13723,P13724,P13725,P13726,P13727,

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>
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024

FROM 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 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	EP2556	11/03/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/03/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
781	100 PPM Aliphatic HC Working STD (Restek)	PP23644	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 1.25000ml of P12362 + 23.25000ml of E3789 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2900	100 PPM Aliphatic HC STD (Absolute)	PP23645	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 2.50000ml of P13278 + 22.00000ml of E3789 = Final Quantity: 25.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
783	50 PPM Aliphatic HC STD	PP23646	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.50000ml of E3789 + 0.50000ml of PP23644 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
784	20 PPM Aliphatic HC STD	PP23647	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23644 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
785	10 PPM Aliphatic HC STD	PP23648	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
09/10/2024								

FROM 0.90000ml of E3789 + 0.10000ml of PP23644 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
786	5 PPM Aliphatic HC STD	PP23649	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
09/10/2024								

FROM 0.90000ml of E3789 + 0.10000ml of PP23646 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2901	20 PPM Aliphatic HC STD ICV (Absolute)	PP23650	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23645 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1330	100 PPM NJEPH Spike Solution	PP23916	10/25/2024	04/25/2025	Yogesh Patel	None	None	Ankita Jodhani
								10/28/2024

FROM 5.00000ml of P13098 + 5.00000ml of P13100 + 5.00000ml of P13101 + 5.00000ml of P13102 + 5.00000ml of P13299 + 5.00000ml of P13423 + 5.00000ml of P13427 + 5.00000ml of P13625 + 5.00000ml of P13626 + 5.00000ml of P13627 + 5.00000ml of P13718 + 5.00000ml of P13719 + 5.00000ml of P13720 + 5.00000ml of P13721 + 5.00000ml of P13722 + 5.00000ml of P13723 + 5.00000ml of P13724 + 5.00000ml of P13725 + 5.00000ml of P13726 + 5.00000ml of P13727 = Final Quantity: 100.000 ml



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

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	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	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3789

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

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)	24G2362009	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	04/15/2025	10/15/2024 / Rajesh	10/09/2024 / Rajesh	E3819

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	11/06/2025	11/06/2024 / Rajesh	11/01/2024 / Rajesh	E3825

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	03/09/2025	09/09/2024 / yogesh	03/16/2023 / Yogesh	P12362

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	03/09/2025	09/09/2024 / yogesh	12/20/2023 / Yogesh	P12972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	04/30/2025	10/30/2024 / yogesh	12/20/2023 / Yogesh	P12979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/09/2025	09/09/2024 / yogesh	12/21/2023 / Yogesh	P13017

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	A0204177	04/30/2025	10/30/2024 / yogesh	12/21/2023 / Yogesh	P13023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	04/30/2025	10/30/2024 / yogesh	12/21/2023 / Yogesh	P13024

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	04/30/2025	10/30/2024 / yogesh	12/21/2023 / Yogesh	P13025

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13046

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13049

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13051

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	A0203911	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13098

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0200008	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13100

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0200008	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0200008	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13102

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0206496	04/29/2025	10/29/2024 / yogesh	02/20/2024 / yogesh	P13267

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0206496	04/29/2025	10/29/2024 / yogesh	02/20/2024 / yogesh	P13270

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	03/09/2025	09/09/2024 / yogesh	04/11/2024 / yogesh	P13278

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0207239	04/25/2025	10/25/2024 / yogesh	04/23/2024 / yogesh	P13299

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0207239	04/25/2025	10/25/2024 / yogesh	07/16/2024 / Yogesh	P13423

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0207239	04/25/2025	10/25/2024 / yogesh	07/16/2024 / Yogesh	P13427

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	04/29/2025	10/29/2024 / yogesh	07/23/2024 / yogesh	P13461

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	04/29/2025	10/29/2024 / yogesh	07/23/2024 / yogesh	P13462

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	A0211112	04/25/2025	10/25/2024 / yogesh	10/16/2024 / yogesh	P13625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	04/25/2025	10/25/2024 / yogesh	10/16/2024 / yogesh	P13626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	04/25/2025	10/25/2024 / yogesh	10/16/2024 / yogesh	P13627

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/30/2025	10/30/2024 / yogesh	10/16/2024 / yogesh	P13645

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13719

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13720

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13721

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13725

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13726

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13727

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

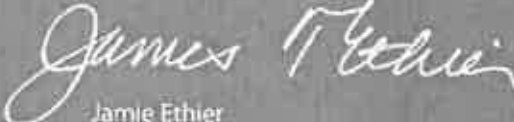
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


Jamie Ethier
Vice President Global Quality

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

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Material No.: 926
Batch No.: 24C186
Manufactured Date: 2024-0
Expiration Date: 2025-0
Revision N

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3789



Jamie Croak
Director Quality Operations, Bioscience Products

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

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Acetone
CMOS

avantor™



Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.5	0.1
Water (H ₂ O)	≤ 0.5 %	0.1 %
Solubility in H ₂ O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities – Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Acetone
CMOS



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
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For Microelectronic Use
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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 10/9/24

E 3818

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

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

avantorsm



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)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/09/24

E 3819

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700
Page 1 of 1

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

£ 3825

Jamie Croak
Director Quality Operations, Bioscience Production



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : NJEPH Aliphatics Calibration Standard

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

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

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

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

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

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

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

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

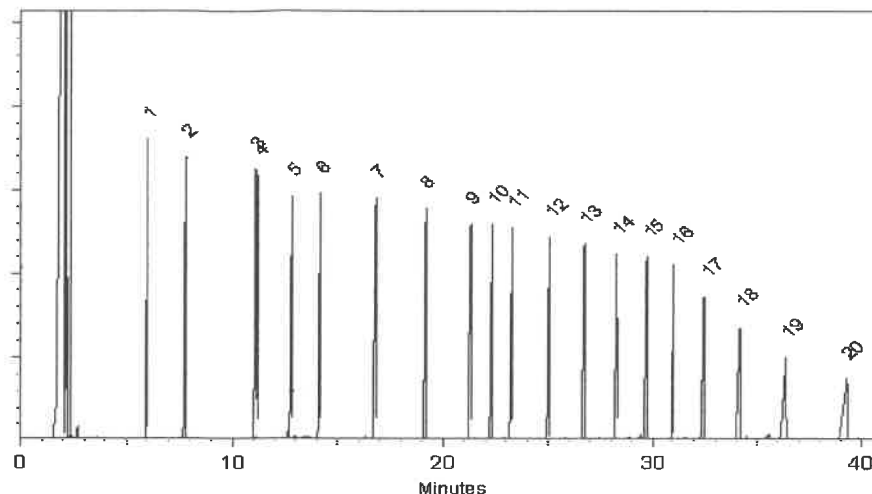
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31098 **Lot No.:** A0204989
Description: 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size: 2 mL **Pkg Amt:** > 1 mL
Expiration Date: January 31, 2031 **Storage:** 10°C or colder
Ship: Ambient

P12960
↓
P12991 } Y.P.
12/21/2023

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

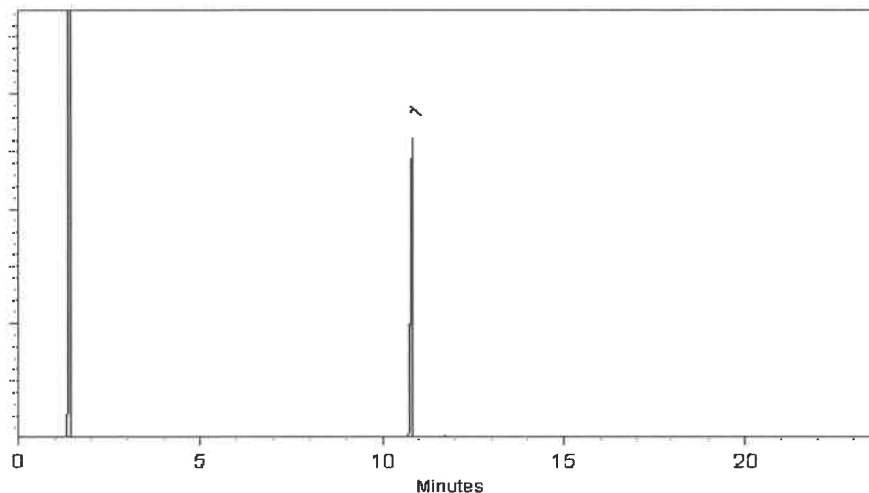
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023

Balance Serial # B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description: 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P12960
↓
P12991 } Y.P.
12/21/2023

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

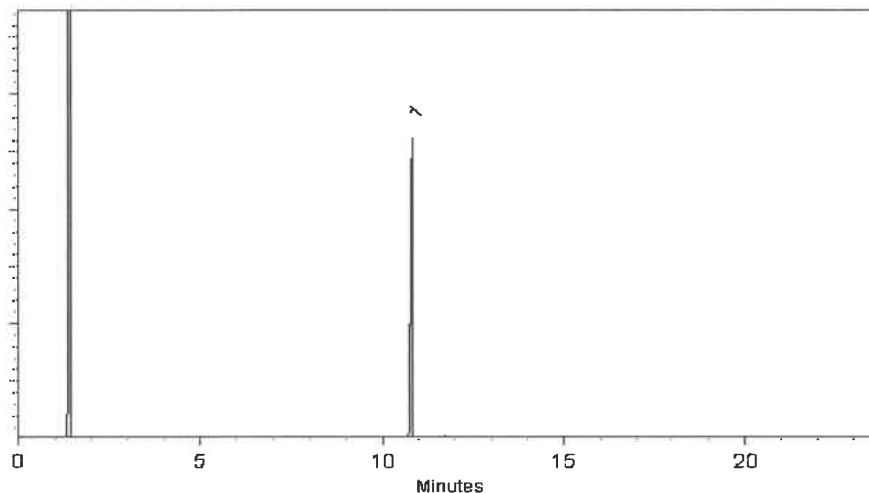
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023

Balance Serial # B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



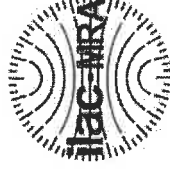
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31097 **Lot No.:** A0204177

Description: o-Terphenyl Standard

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

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

Expiration Date: June 30, 2027 **Storage:** 10°C or colder

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

P12992 } Y.P.
↓
P13031 } 12/21/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

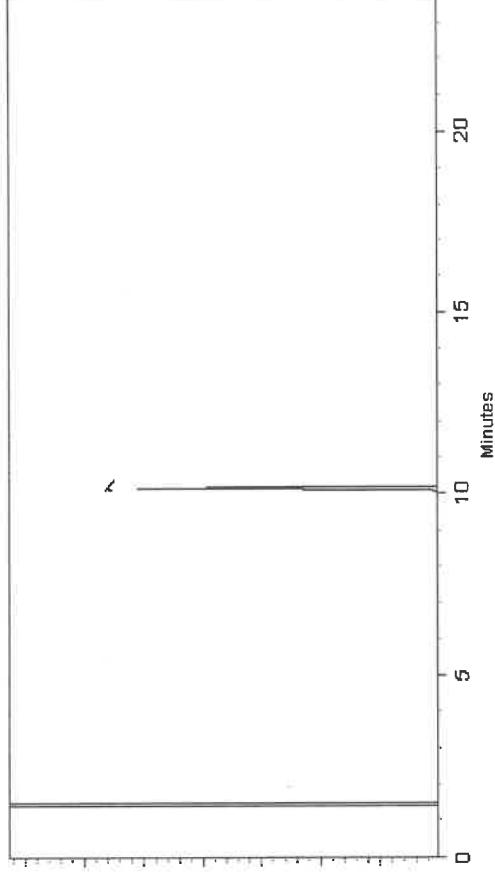
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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


Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905


Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.: 31097 **Lot No.:** A0204177

Description: o-Terphenyl Standard

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

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

Expiration Date: June 30, 2027 **Storage:** 10°C or colder

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

P12992 } Y.P.
↓
P13031 } 12/21/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

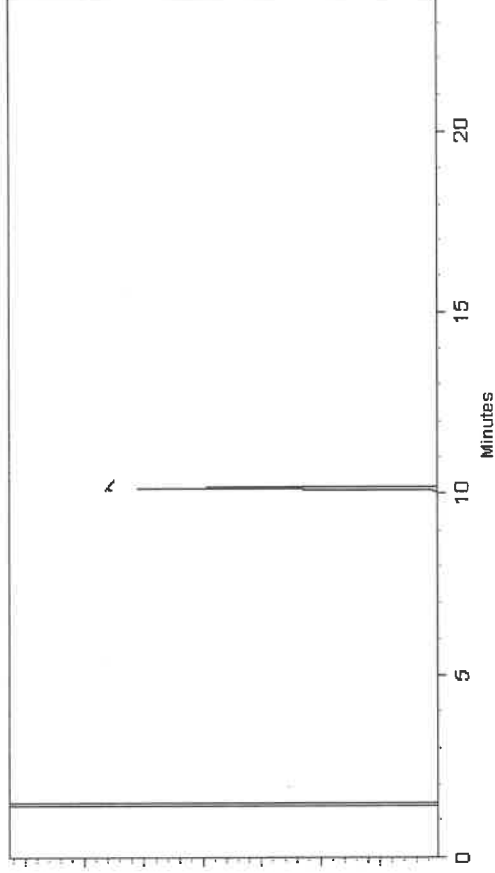
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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


Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905


Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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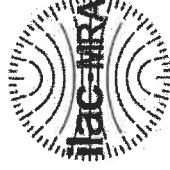
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31097 **Lot No.:** A0204177

Description: o-Terphenyl Standard

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

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

Expiration Date: June 30, 2027 **Storage:** 10°C or colder

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

P12992 } Y.P.
↓
P13031 } 12/21/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

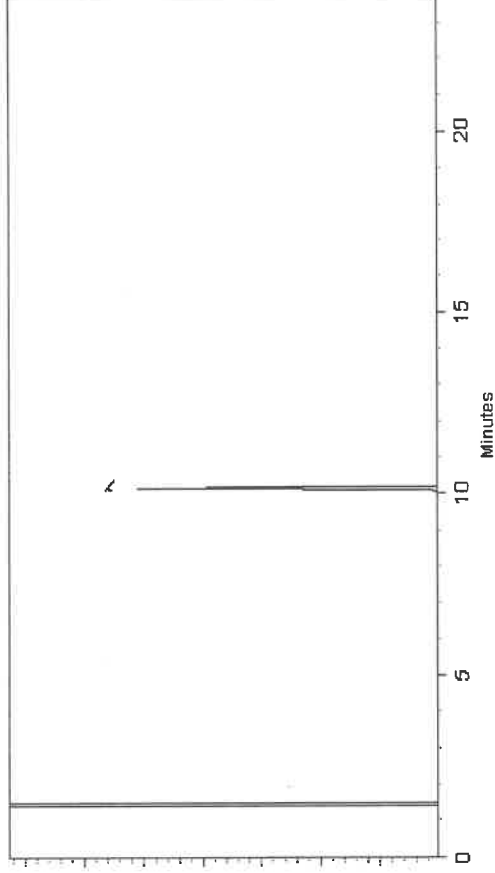
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905



Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

Manufacturing Notes:

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

Handling Notes:

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31097 **Lot No.:** A0204177

Description: o-Terphenyl Standard

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

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

Expiration Date: June 30, 2027 **Storage:** 10°C or colder

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

P12992 } Y.P.
↓
P13031 } 12/21/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

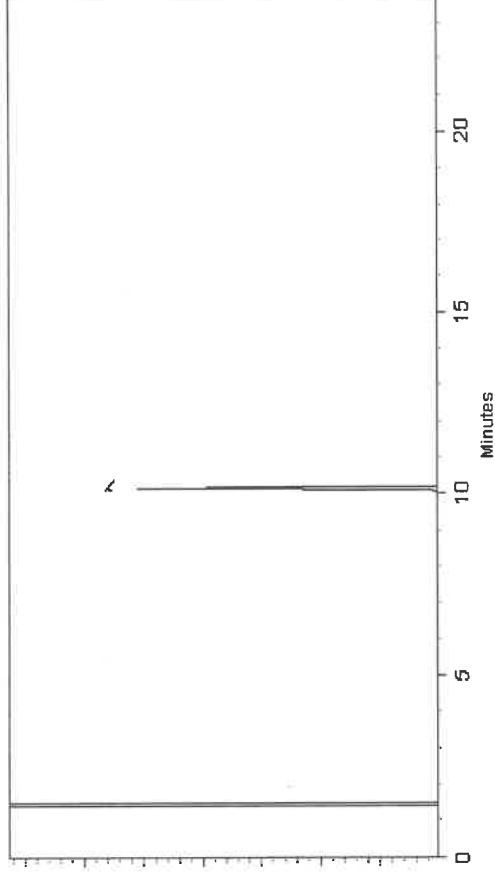
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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



Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905



Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31098 **Lot No.:** A0200707

Description : 1-Chlorooctadecane Standard

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

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

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

P130hh
2
P13051 } Y.B.
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

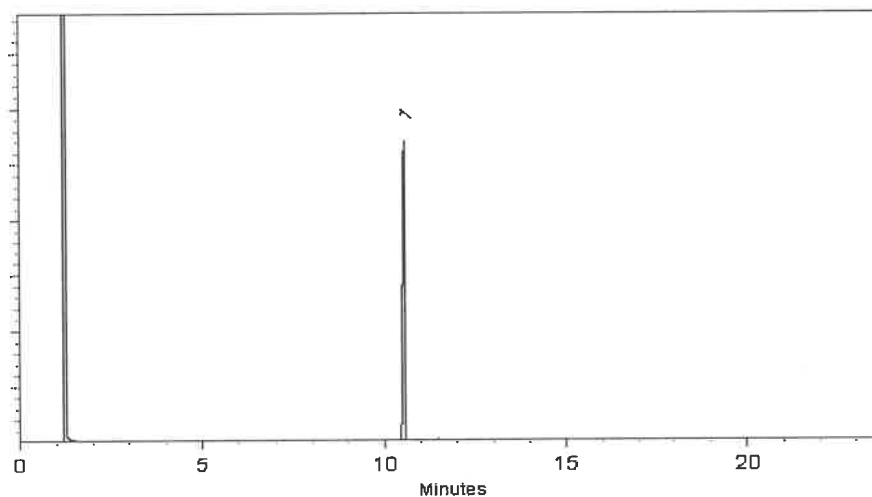
FID

Split Vent:

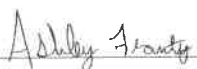
10 ml/min.

Inj. Vol

1µl



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


Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023

Balance Serial # 1128360905


Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31098 **Lot No.:** A0200707

Description : 1-Chlorooctadecane Standard

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

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

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

P130hh
2
P13051 } Y.B.
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

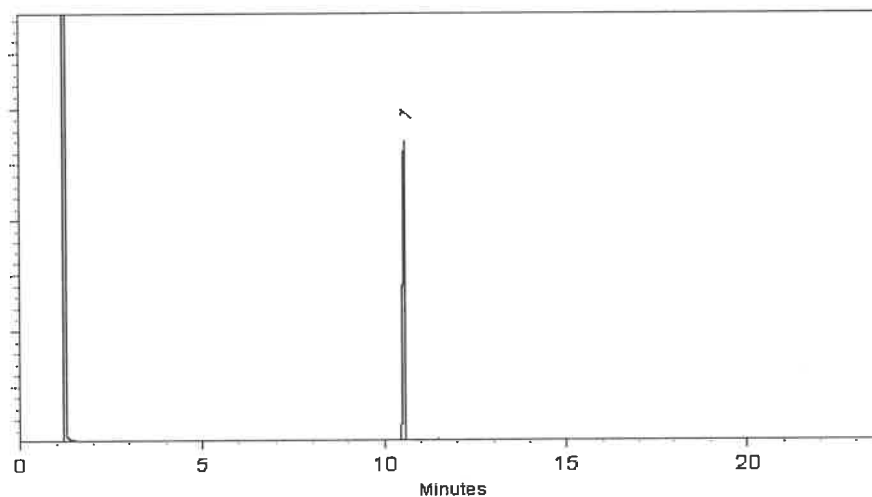
FID

Split Vent:

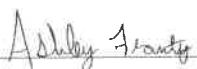
10 ml/min.

Inj. Vol

1µl



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


Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023

Balance Serial # 1128360905


Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31098 **Lot No.:** A0200707

Description : 1-Chlorooctadecane Standard

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

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

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

P130hh
2
P13051 } Y.B.
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

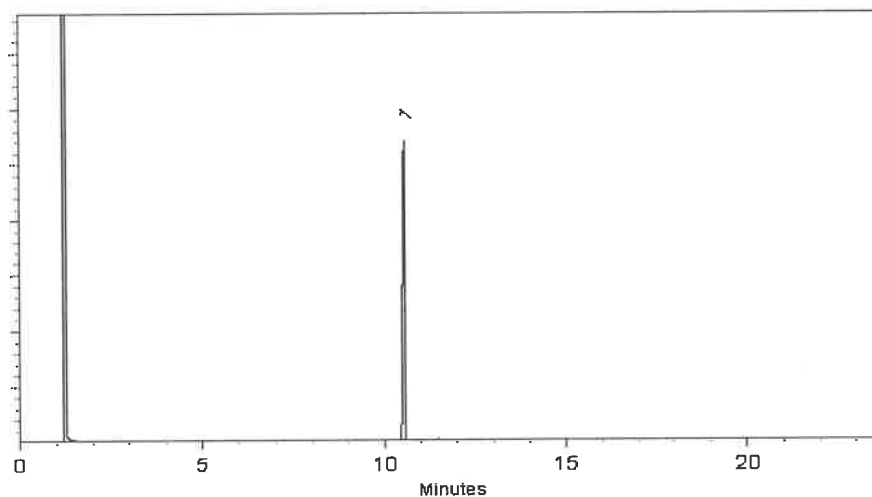
FID

Split Vent:

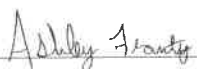
10 ml/min.

Inj. Vol

1µl



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


Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023

Balance Serial # 1128360905


Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

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



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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.:** A0203911

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, 2030 **Storage:** 10°C or colder

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

P13053 } Y.P.
↓
P13099 } 01/12/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.0 µg/mL	+/- 5.1667
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.0 µg/mL	+/- 5.1667
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.6 µg/mL	+/- 5.1815
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Heneicosane (C21)	629-94-7	MKCL8682	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	200.3 µg/mL	+/- 5.1753
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.0 µg/mL	+/- 5.1667

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

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

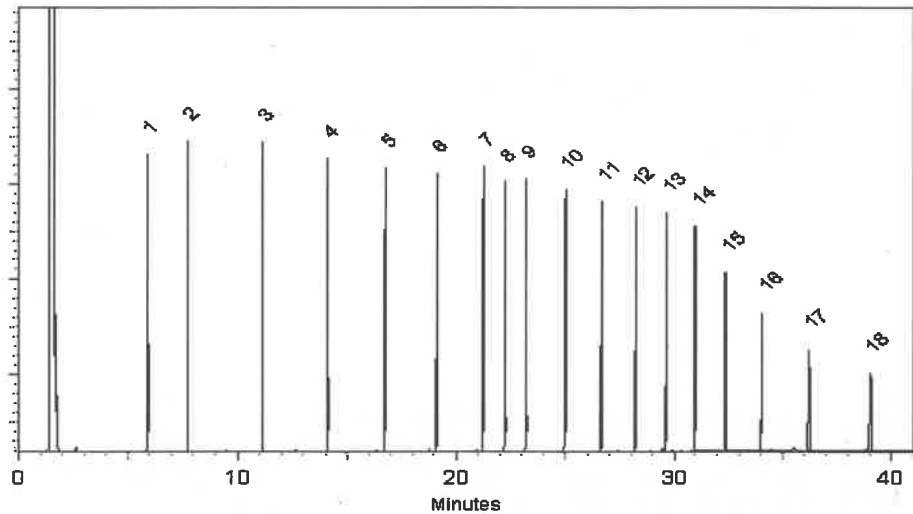
FID

Split Vent:

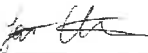
2 ml/min.

Inj. Vol

1µl



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


Laith Clemente - Operations Technician I

Date Mixed: 31-Oct-2023

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Nov-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0200008

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 : August 31, 2030 **Storage:** 10°C or colder

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

P13100 } Y.P.
2/
P13102 } 01/12/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.7 µg/mL	+/- 5.2098
2	n-Decane (C10)	124-18-5	SHBP4427	99%	201.3 µg/mL	+/- 5.2012
3	n-Dodecane (C12)	112-40-3	SHBN7174	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	201.0 µg/mL	+/- 5.1926
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	201.7 µg/mL	+/- 5.2098
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	201.2 µg/mL	+/- 5.1984
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	201.4 µg/mL	+/- 5.2038
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	201.3 µg/mL	+/- 5.2012
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	201.3 µg/mL	+/- 5.2012
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.7 µg/mL	+/- 5.2098
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	201.0 µg/mL	+/- 5.1926
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.3 µg/mL	+/- 5.2012
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.0 µg/mL	+/- 5.1926
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.3 µg/mL	+/- 5.1998

* 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.)

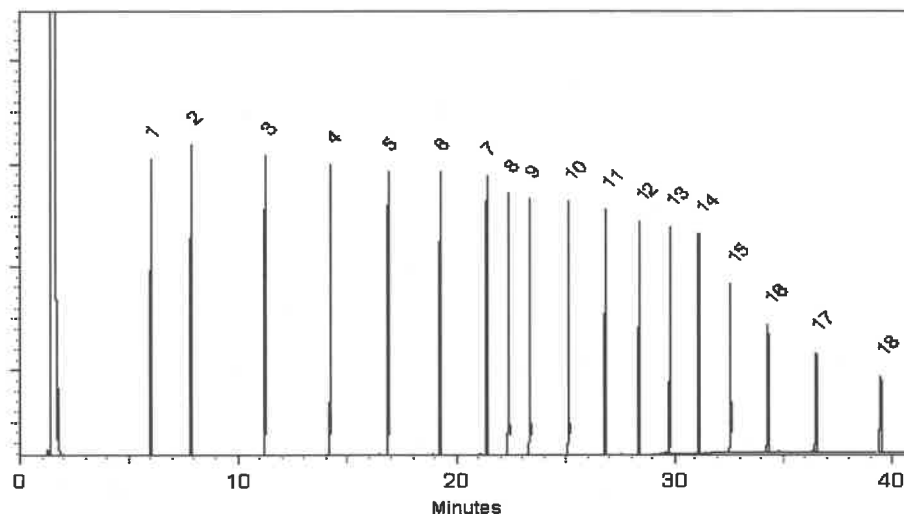
Inj. Temp:
250°C

Det. Temp:
330°C

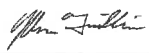
Det. Type:
FID

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.


John Friedline - Operations Technician I

Date Mixed: 18-Jul-2023 **Balance Serial #** 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Jul-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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.:** A0200008

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 : August 31, 2030 **Storage:** 10°C or colder

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

P13100 } Y.P.
2/
P13102 } 01/12/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.7 µg/mL	+/- 5.2098
2	n-Decane (C10)	124-18-5	SHBP4427	99%	201.3 µg/mL	+/- 5.2012
3	n-Dodecane (C12)	112-40-3	SHBN7174	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	201.0 µg/mL	+/- 5.1926
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	201.7 µg/mL	+/- 5.2098
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	201.2 µg/mL	+/- 5.1984
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	201.4 µg/mL	+/- 5.2038
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	201.3 µg/mL	+/- 5.2012
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	201.3 µg/mL	+/- 5.2012
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.7 µg/mL	+/- 5.2098
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	201.0 µg/mL	+/- 5.1926
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.3 µg/mL	+/- 5.2012
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.0 µg/mL	+/- 5.1926
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.3 µg/mL	+/- 5.1998

* 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.)

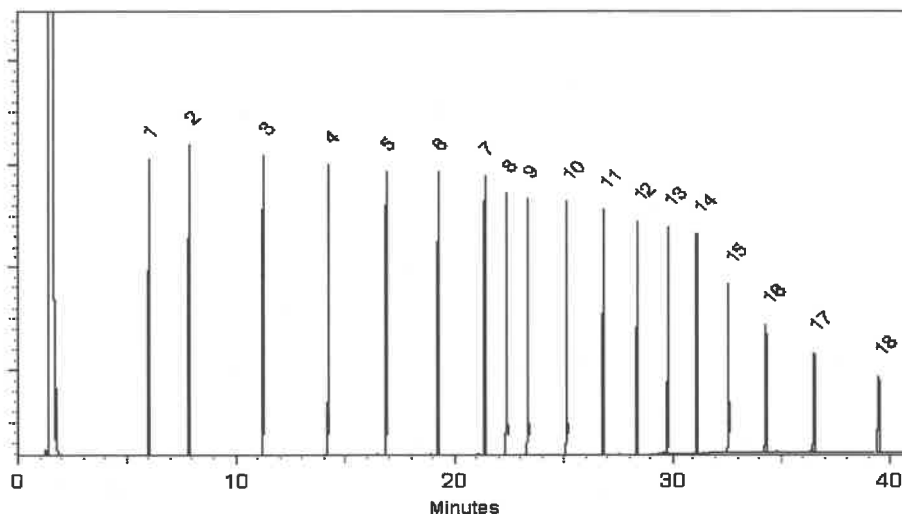
Inj. Temp:
250°C

Det. Temp:
330°C

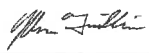
Det. Type:
FID

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.


John Friedline - Operations Technician I

Date Mixed: 18-Jul-2023 **Balance Serial #** 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Jul-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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0200008

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 : August 31, 2030 **Storage:** 10°C or colder

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

P13100 } Y.P.
2/ }
P13102 } 01/12/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.7 µg/mL	+/- 5.2098
2	n-Decane (C10)	124-18-5	SHBP4427	99%	201.3 µg/mL	+/- 5.2012
3	n-Dodecane (C12)	112-40-3	SHBN7174	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	201.0 µg/mL	+/- 5.1926
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	201.7 µg/mL	+/- 5.2098
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	201.2 µg/mL	+/- 5.1984
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	201.4 µg/mL	+/- 5.2038
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	201.3 µg/mL	+/- 5.2012
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	201.3 µg/mL	+/- 5.2012
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.7 µg/mL	+/- 5.2098
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	201.0 µg/mL	+/- 5.1926
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.3 µg/mL	+/- 5.2012
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.0 µg/mL	+/- 5.1926
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.3 µg/mL	+/- 5.1998

* 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.)

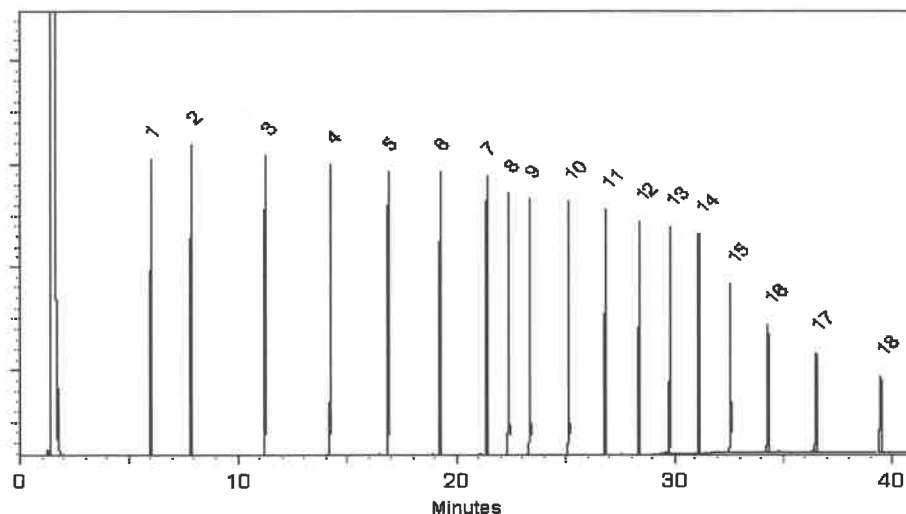
Inj. Temp:
250°C

Det. Temp:
330°C

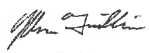
Det. Type:
FID

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.


John Friedline - Operations Technician I

Date Mixed: 18-Jul-2023 **Balance Serial #** 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Jul-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31480 **Lot No.:** A0206496

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 : December 31, 2029 **Storage:** 10°C or colder

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

P13258 } 7-P.
↓
P13277 } 02/20/24

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%	4,008.5 µg/mL	+/- 180.5736
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,001.5 µg/mL	+/- 180.2582

* 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:

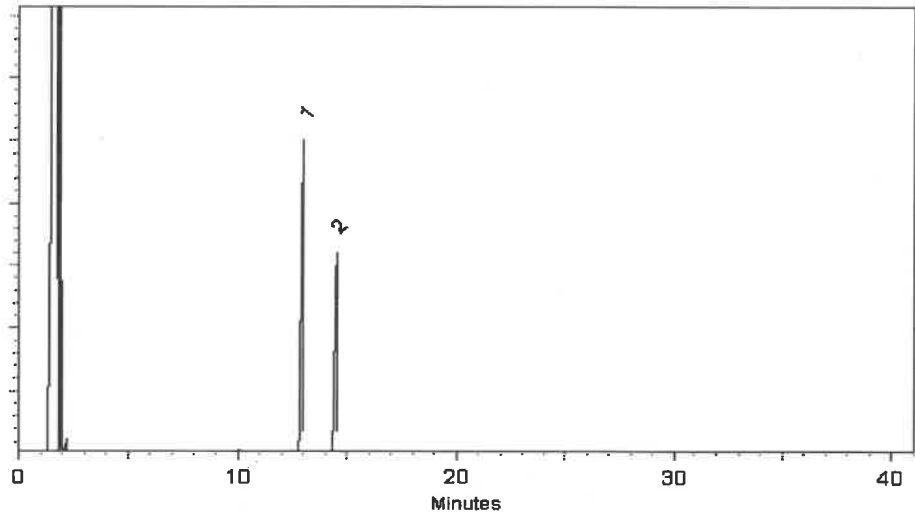
FID

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.

Rebecca Gingerich

Rebecca Gingerich - Operations Tech II

Date Mixed: 11-Jan-2024

Balance Serial # B345965662

Dillon Murphy

Dillon Murphy - Operations Technician I

Date Passed: 15-Jan-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31480 **Lot No.:** A0206496

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 : December 31, 2029 **Storage:** 10°C or colder

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

P13258 } 7-P.
↓
P13277 } 02/20/24

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%	4,008.5 µg/mL	+/- 180.5736
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,001.5 µg/mL	+/- 180.2582

* 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:

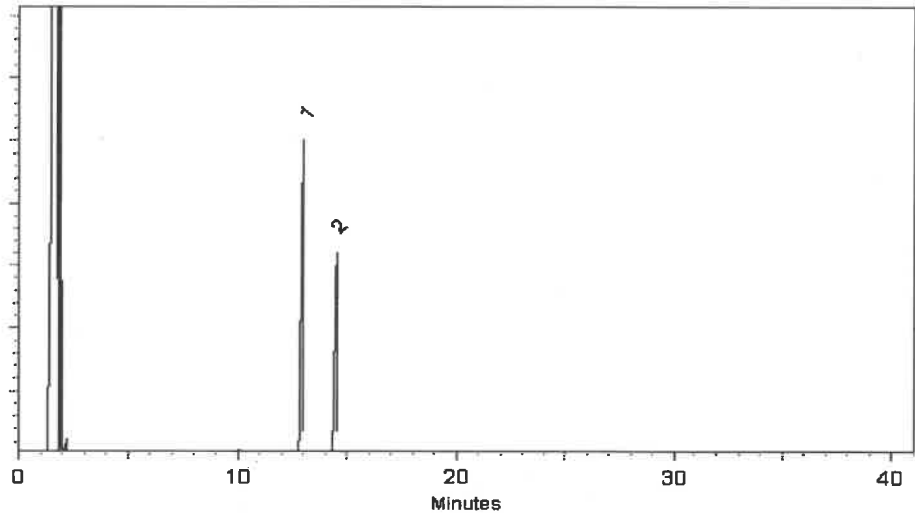
FID

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.

Rebecca Gingerich

Rebecca Gingerich - Operations Tech II

Date Mixed: 11-Jan-2024

Balance Serial # B345965662

Dylan Murphy

Dylan Murphy - Operations Technician I

Date Passed: 15-Jan-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%.

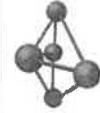
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

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.



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

• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and 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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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. : 30542 **Lot No.:** A0207239

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 : February 28, 2031 **Storage:** 10°C or colder

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

P13288 } Y.P.
↓
P13317 } 06/28/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.0 µg/mL	+/- 5.1926
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1839
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBM4146	98%	200.6 µg/mL	+/- 5.1815
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	199.9 µg/mL	+/- 5.1647
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	199.8 µg/mL	+/- 5.1621
8	n-Heneicosane (C21)	629-94-7	MKCL8682	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.7 µg/mL	+/- 5.1839
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.3 µg/mL	+/- 5.1753
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	199.8 µg/mL	+/- 5.1621
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.0 µg/mL	+/- 5.1926
15	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.0 µg/mL	+/- 5.1915

* 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.)

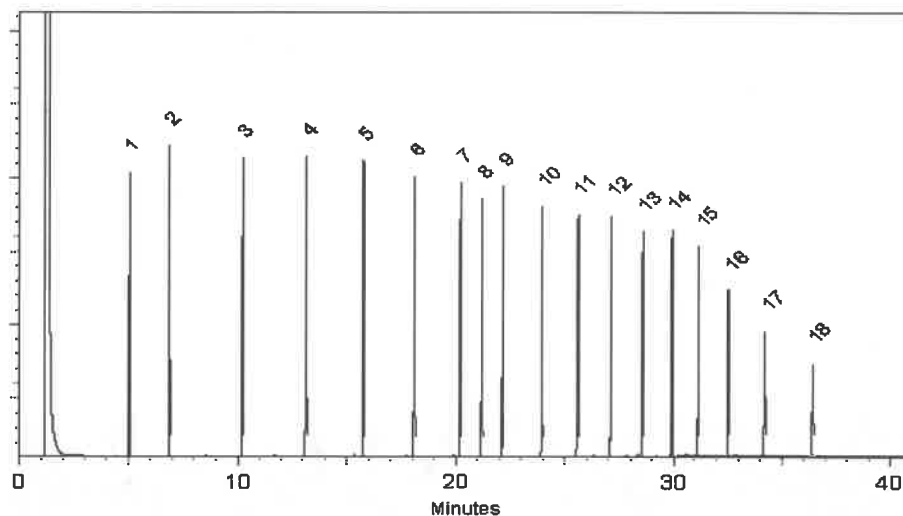
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

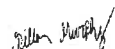
Inj. Vol
1µl



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.


Matt Fragassi - Mix Technician

Date Mixed: 31-Jan-2024 **Balance Serial #** 1128353505


Dillan Murphy - Operations Technician I

Date Passed: 02-Feb-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0207239

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 : February 28, 2031 **Storage:** 10°C or colder

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

P13h17 } Y-P.
2 }
P13h29 } 07/11/24.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.0 µg/mL	+/- 5.1926
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1839
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBM4146	98%	200.6 µg/mL	+/- 5.1815
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	199.9 µg/mL	+/- 5.1647
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	199.8 µg/mL	+/- 5.1621
8	n-Heneicosane (C21)	629-94-7	MKCL8682	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKQC3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.7 µg/mL	+/- 5.1839
11	n-Hexacosane (C26)	630-01-3	MKQC4814	99%	200.3 µg/mL	+/- 5.1753
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKQC9436	97%	199.8 µg/mL	+/- 5.1621
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.0 µg/mL	+/- 5.1926
15	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.0 µg/mL	+/- 5.1915

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.3 µg/mL	+/- 5.1753
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-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.)

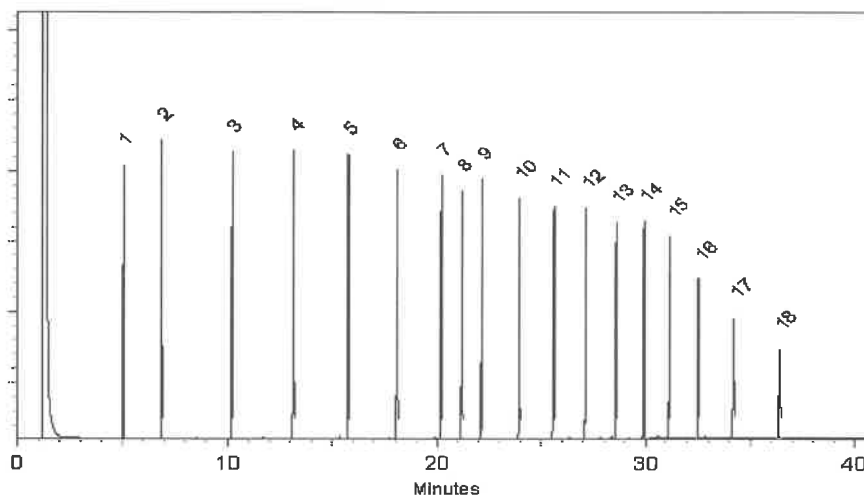
Inj. Temp:
250°C

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.

Matt Fraga
Matt Fragaesi - Mix Technician

Date Mixed: 31-Jan-2024 **Balance Serial #** 1128353505

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 02-Feb-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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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.:** A0207239

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 : February 28, 2031 **Storage:** 10°C or colder

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

P13h17 } Y-P.
2 }
P13h29 } 07/11/24.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.0 µg/mL	+/- 5.1926
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1839
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBM4146	98%	200.6 µg/mL	+/- 5.1815
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	199.9 µg/mL	+/- 5.1647
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	199.8 µg/mL	+/- 5.1621
8	n-Heneicosane (C21)	629-94-7	MKCL8682	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKQC3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.7 µg/mL	+/- 5.1839
11	n-Hexacosane (C26)	630-01-3	MKQC4814	99%	200.3 µg/mL	+/- 5.1753
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKQC9436	97%	199.8 µg/mL	+/- 5.1621
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.0 µg/mL	+/- 5.1926
15	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.0 µg/mL	+/- 5.1915

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.3 µg/mL	+/- 5.1753
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-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.)

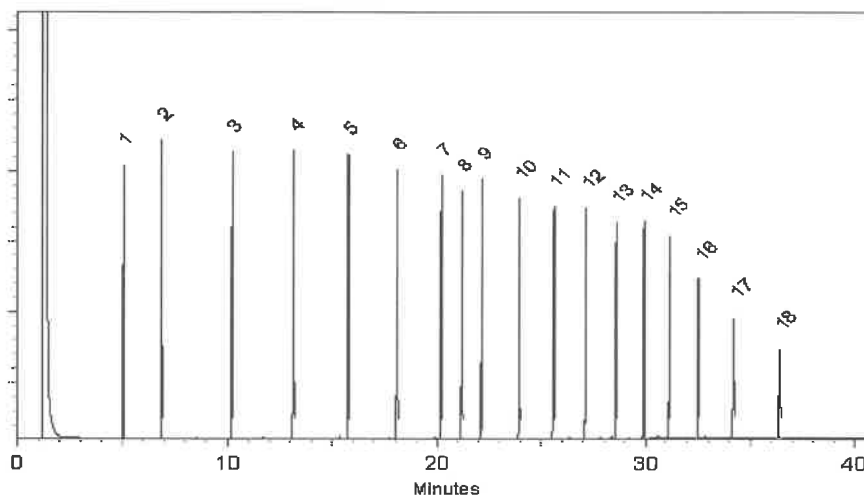
Inj. Temp:
250°C

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.

Matt Fraga
Matt Fragaesi - Mix Technician

Date Mixed: 31-Jan-2024 **Balance Serial #** 1128353505

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 02-Feb-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

Catalog No. : 31480 **Lot No.:** A0210831
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13h57
↓
P13h78 } Y.P.
67/23/24

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%	4,031.0 µg/mL	+/- 181.5871
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,037.5 µg/mL	+/- 181.8799

* 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:

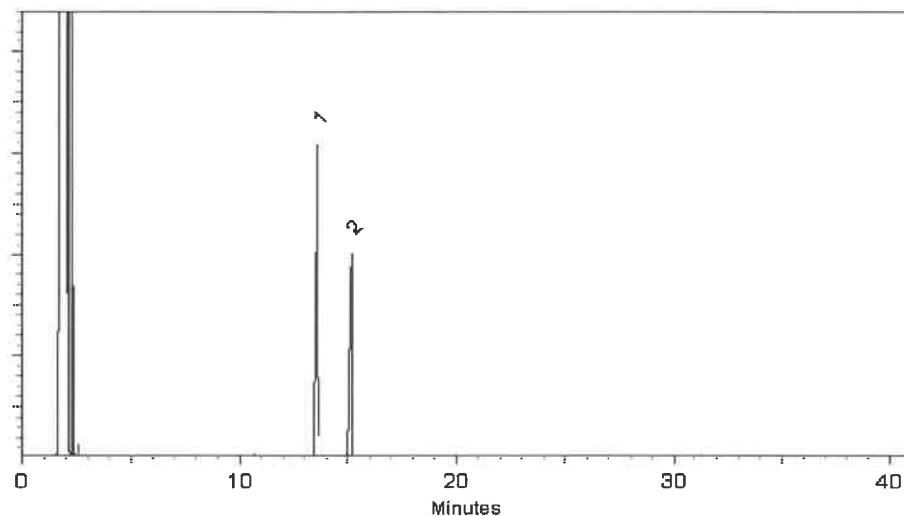
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 29-Apr-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 30-Apr-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

Catalog No. : 31480 **Lot No.:** A0210831
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13h57
↓
P13h78 } Y.P.
67/23/24

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%	4,031.0 µg/mL	+/- 181.5871
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,037.5 µg/mL	+/- 181.8799

* 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:

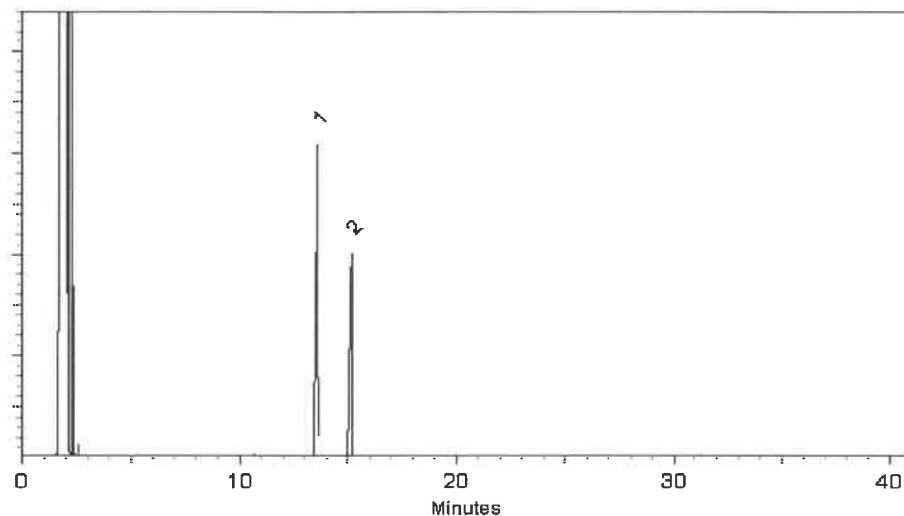
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 29-Apr-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 30-Apr-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

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

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

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

P13625
↓
P13644 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

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

Solvent: n-Pentane**CAS #** 109-66-0**Purity** 99%

Quality Confirmation Test

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

hydrogen-constant pressure 10 psi.

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

250°C

Det. Temp:

330°C

Det. Type:

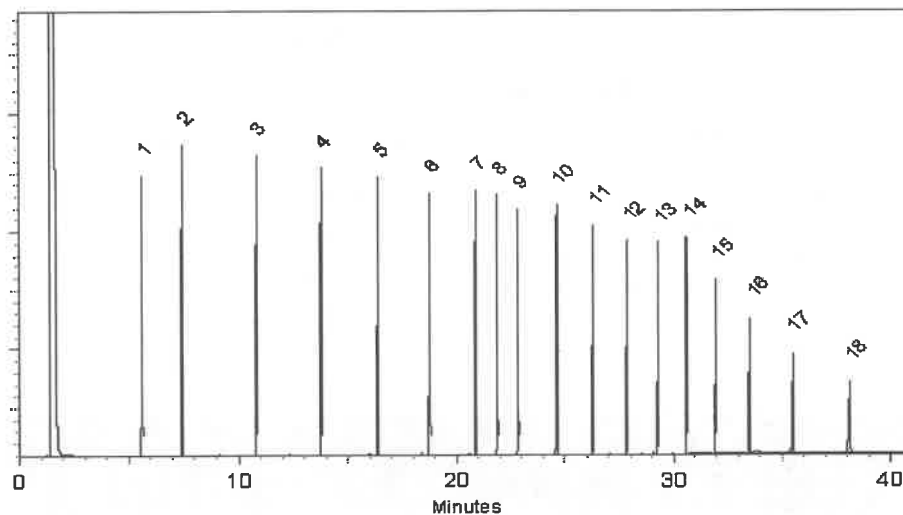
FID

Split Vent:

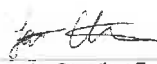
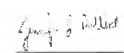
2 ml/min.

Inj. Vol

1µl



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


Laith Clemente - Operations Technician I**Date Mixed:** 07-May-2024**Balance Serial #** 1128360905
Jennifer Pollino - Operations Tech III - ARM QC**Date Passed:** 09-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

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

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

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

P13625
↓
P13644 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

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

Solvent: n-Pentane**CAS #** 109-66-0**Purity** 99%

Quality Confirmation Test

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

hydrogen-constant pressure 10 psi.

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

250°C

Det. Temp:

330°C

Det. Type:

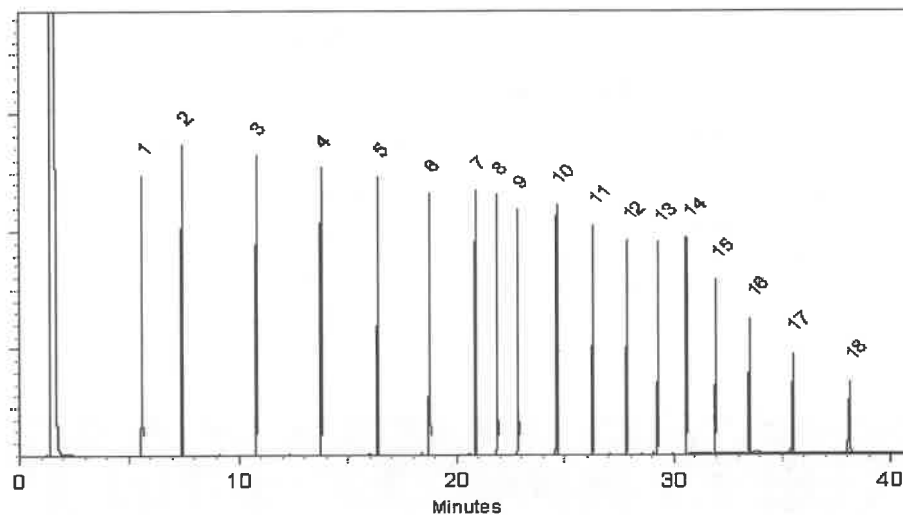
FID

Split Vent:

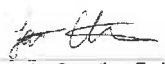
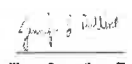
2 ml/min.

Inj. Vol

1µl



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


Laith Clemente - Operations Technician I**Date Mixed:** 07-May-2024**Balance Serial #** 1128360905
Jennifer Pollino - Operations Tech III - ARM QC**Date Passed:** 09-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- 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.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

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

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

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

P13625
↓
P13644 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

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

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

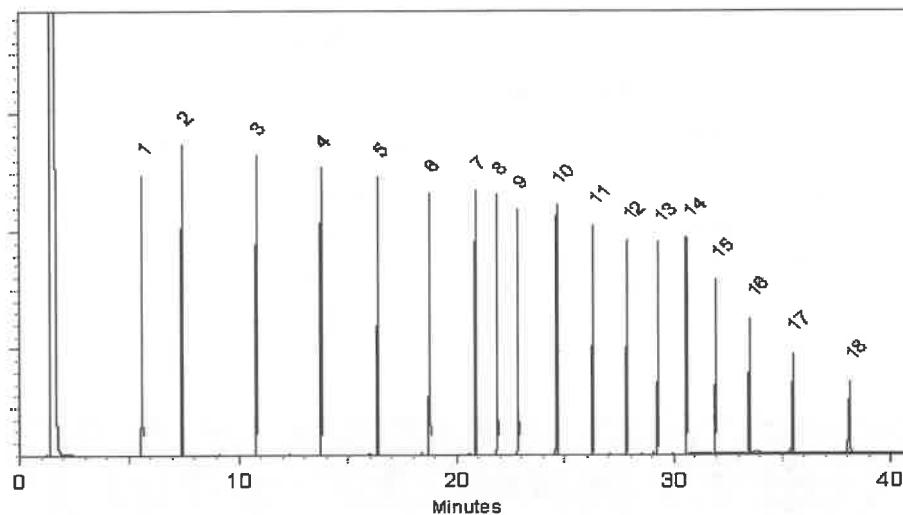
FID

Split Vent:

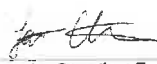
2 ml/min.

Inj. Vol

1µl

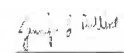


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

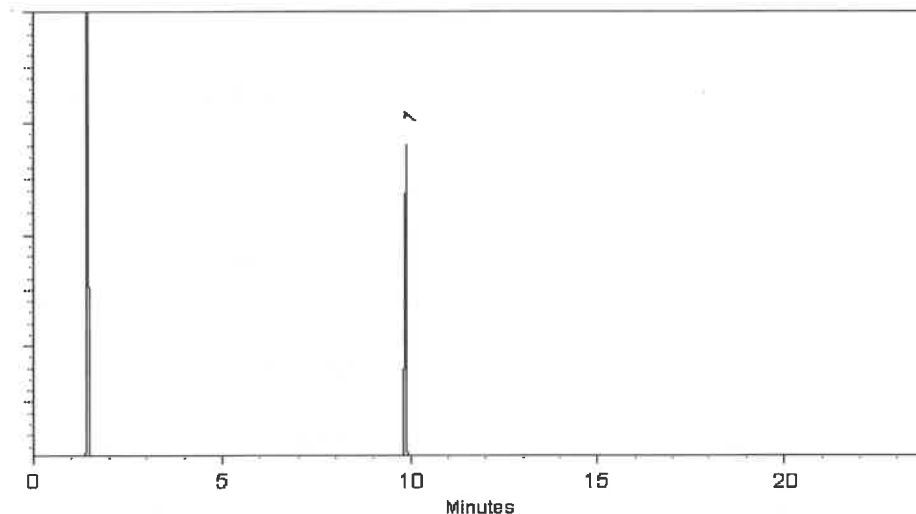
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543

Lot No.: A0217838

Description : NJEPH Aromatics Matrix Spike Mix

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

p137A } 7.P
↓
p13727 } 10/24/24

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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKQC4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

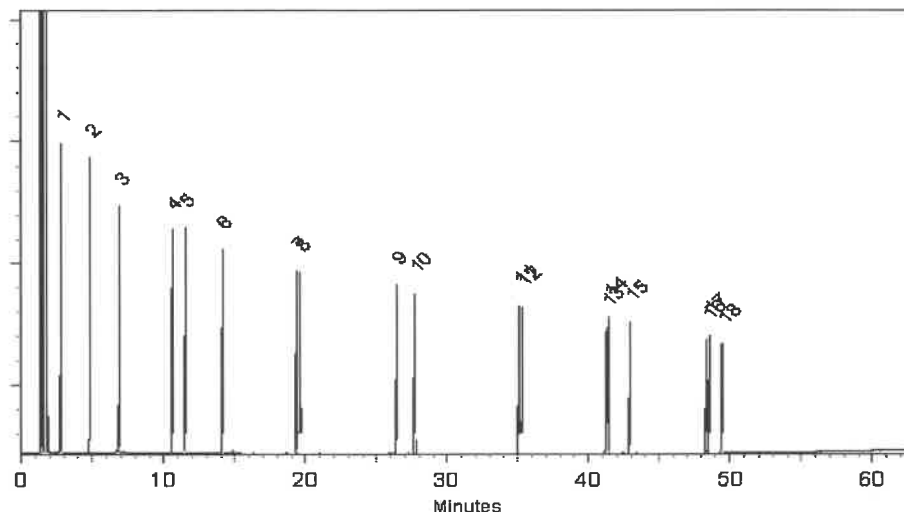
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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- 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.: A0217838

Description : NJEPH Aromatics Matrix Spike Mix

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

p137A
↓
p13727
7.P
10/24/24

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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKQC4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

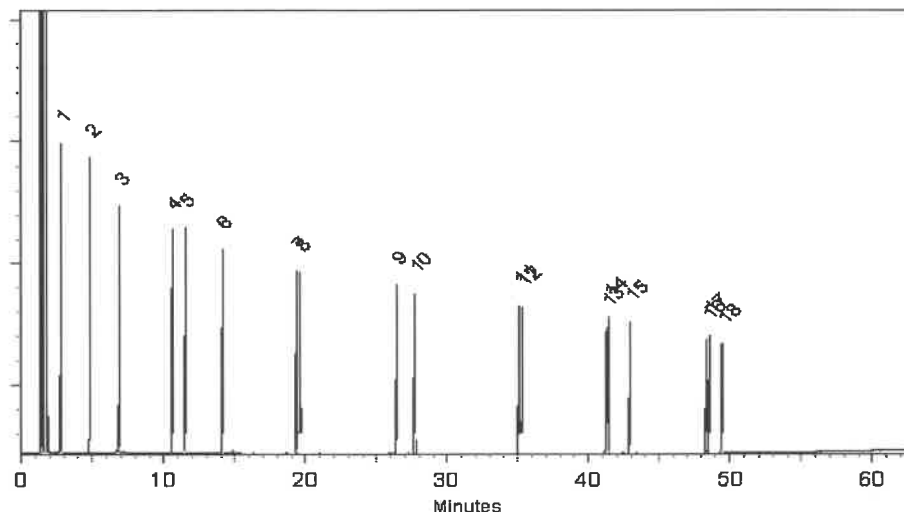
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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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:

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Handling Notes:

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chromatographic plus



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Catalog No. : 30543

Lot No.: A0217838

Description : NJEPH Aromatics Matrix Spike Mix

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is
photosensitive.

Ship: Ambient

p137A } 7.P
↓
p13727 } 10/24/24

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%	201.6 µg/mL	+/- 9.0835
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
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9	Fluoranthene	206-44-0	MKQC4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

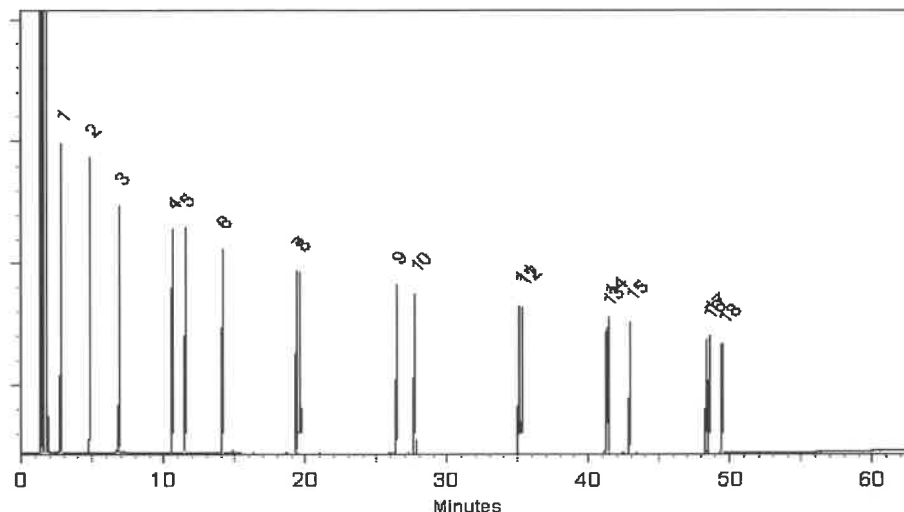
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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chromatographic plus



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Catalog No. : 30543

Lot No.: A0217838

Description : NJEPH Aromatics Matrix Spike Mix

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

p137A } 7.P
↓
p13727 } 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
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* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

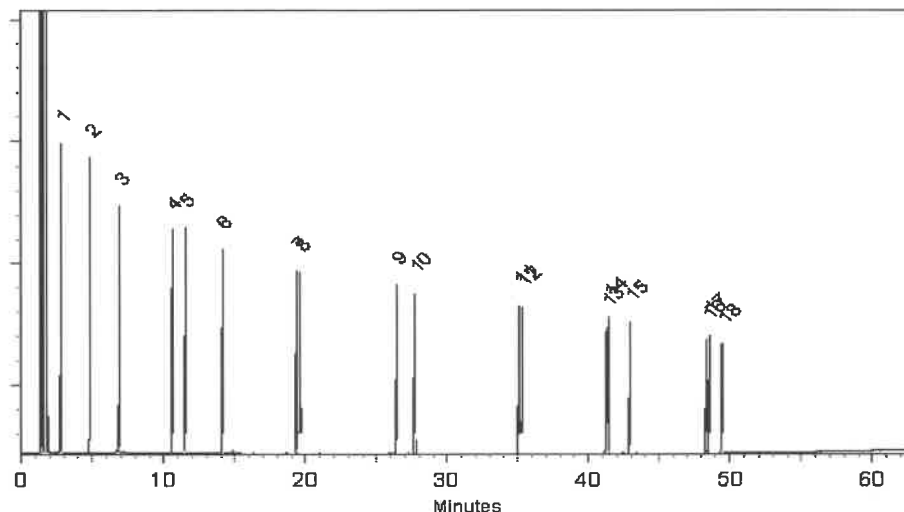
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

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p137A } 7.P
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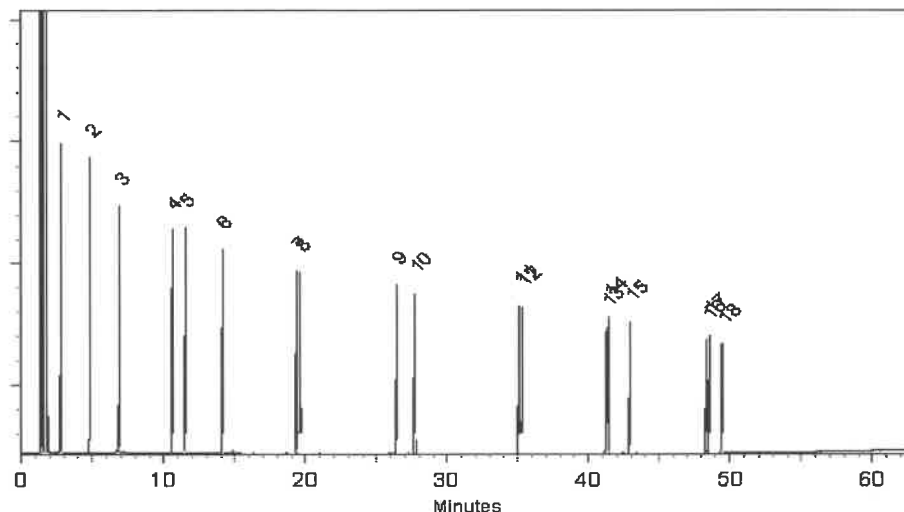
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Rtx-5 (cat.#10223)
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hydrogen-constant pressure 10 psi.
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@ 4°C/min. (hold 5 min.)
Inj. Temp:
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Det. Type:
FID
Split Vent:
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Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024

Balance Serial # 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543

Lot No.: A0217838

Description : NJEPH Aromatics Matrix Spike Mix

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

p137A } 7.P
↓
p13727 } 10/24/24

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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKQC4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

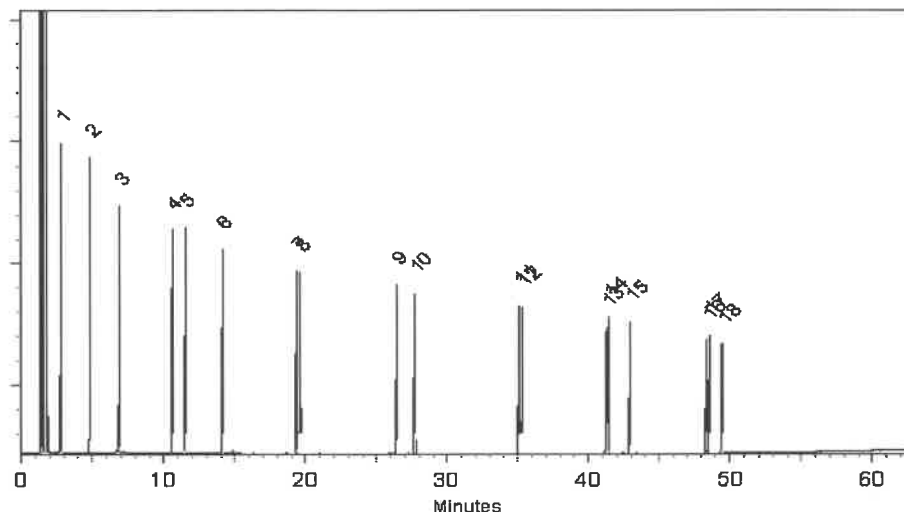
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

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

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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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Certificate of Analysis

chromatographic plus



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

Catalog No. : 30543

Lot No.: A0217838

Description : NJEPH Aromatics Matrix Spike Mix

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

p137A
↓
p13727
7.P
10/24/24

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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKQC4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

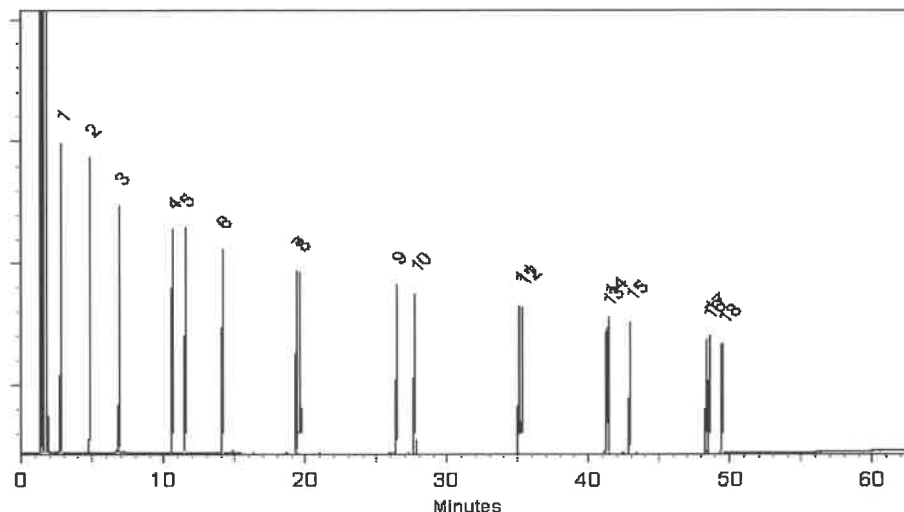
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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Manufacturing Notes:

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chromatographic plus



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Catalog No. : 30543

Lot No.: A0217838

Description : NJEPH Aromatics Matrix Spike Mix

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

p137A } 7.P
↓
p13727 } 10/24/24

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%	201.6 µg/mL	+/- 9.0835
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
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10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
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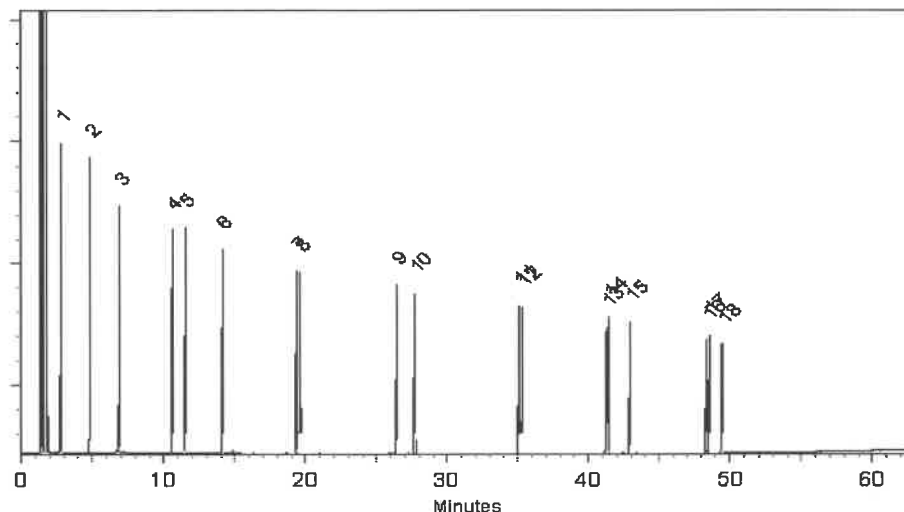
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18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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chromatographic plus



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Lot No.: A0217838

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

p137A } 7.P
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p13727 } 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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9	Fluoranthene	206-44-0	MKQC4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
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13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
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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.)

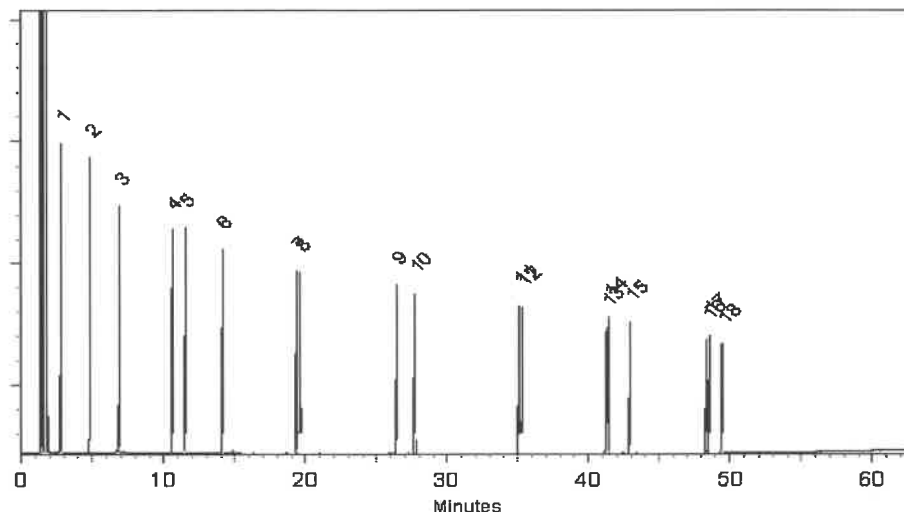
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- 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.: A0217838

Description : NJEPH Aromatics Matrix Spike Mix

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

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

p137A } 7.P
↓
p13727 } 10/24/24

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%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKQC4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

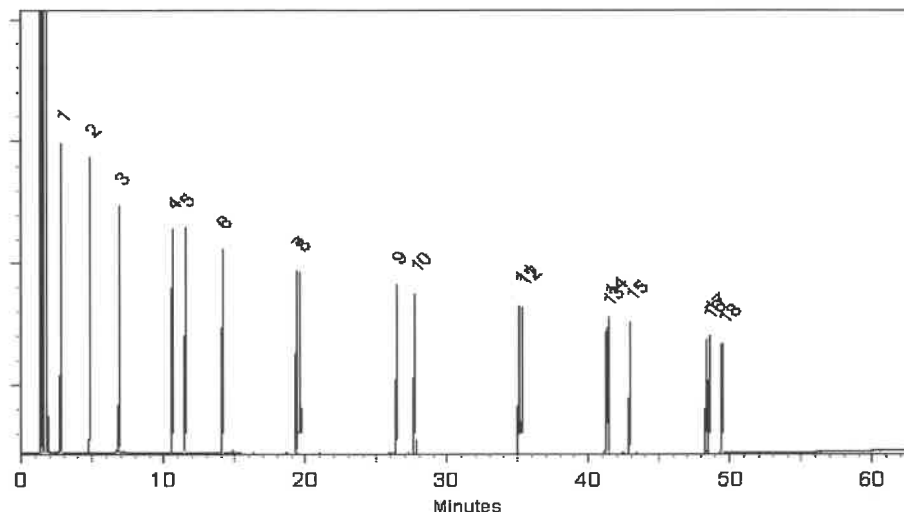
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Walsh Construction Company
ADDRESS: 150 CLOVE ROAD, 11th FLOOR
CITY LITTLE FALLS STATE: NJ ZIP: 07424
ATTENTION:
PHONE: 201-691-6800 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: C547A Construction of
PROJECT NO.: 220084 LOCATION: Shaft 18B
PROJECT MANAGER: Jesse SYLVESTRI
e-mail: JSYLVESTRI@WALSHGROUP.COM
PHONE: 201-681-9740 FAX:

CLIENT BILLING INFORMATION

BILL TO: JESSE SYLVESTRI PO#:
ADDRESS: 150 CLOVE ROAD, 11th FLOOR
CITY LITTLE FALLS STATE: NJ ZIP: 07424
ATTENTION: Jesse SYLVESTRI PHONE: 201-681-9740

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: Standard TAT DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data) ☐ Other _____
☐ EDD FORMAT

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.	WC-1 (5.5)	S		✓	11/5/24	1155	5	X									
2.	WC-1 (3.5)	S		✓		1225	5	X									
3.	WC-1 (0-6)	S	✓			1240	10		X	X	X	X	X	X	X	X	
4.	WC-2 (2)	S		✓		1000	5	X	1								
5.	WC-2 (4)	S		✓		1020	5	X									
6.	WC-2 (0-6)	S	✓			1045	10		X	X	X	X	X	X	X	X	
7.	WC-3 (5)	S		✓		815	5	X									
8.	WC-3 (3)	S		✓		845	5	X									
9.	WC-3 (0-6)	S	✓			910	10		X	X	X	X	X	X	X	X	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>WJS</u>	DATE/TIME: 11/5/24 11:50pm	RECEIVED BY: 1. <u>Benie DE</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP _____ °C Comments: <u>Additional Analysis: Paint Filter 9095A Total Solids 5m 254.03</u> <u>Total Volatile Solids 5m 254.03 Ammonia + Nitrogen 350.1</u> <u>Chemical Oxygen Demand 410.4 O.I. and Grease 907.13</u> <u>Full analysis list in email from Bill Fitchett 11/5/24</u>
RELINQUISHED BY SAMPLER: 2. <u>Benie DE</u>	DATE/TIME: 11-5-24 1406	RECEIVED BY: 2. <u>[Signature]</u> 1406	
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: 11-5-24 1732	RECEIVED BY: 3. <u>[Signature]</u>	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4722	WALS01	Order Date : 11/5/2024 3:33:08 PM	Project Mgr : Yazmeen
Client Name : Walsh Construction Compai		Project Name : NYCDEP C547A - Shafts 1	Report Type : Level 2
Client Contact : Kayla Timony		Receive DateTime : 11/5/2024 5:32:00 PM	EDD Type : Excel NY
Invoice Name : Walsh Construction Compai		Purchase Order :	Hard Copy Date :
Invoice Contact : Kayla Timony			Date Signoff : 11/6/2024 11:17:21 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4722-01	WC-1(5.5)	Solid	11/05/2024	11:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-06	WC-2(2)	Solid	11/05/2024	10:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-11	WC-3(5)	Solid	11/05/2024	08:15					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-17	WC-1(3.5)	Solid	11/05/2024	12:25					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-19	WC-2(4)	Solid	11/05/2024	10:20					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4722-21	WC-3(3)	Solid	11/05/2024	08:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4722	WALS01	Order Date : 11/5/2024 3:33:08 PM	Project Mgr : Yazmeen
Client Name : Walsh Construction Compai		Project Name : NYCDEP C547A - Shafts 1	Report Type : Level 2
Client Contact : Kayla Timony		Receive DateTime : 11/5/2024 5:32:00 PM	EDD Type : Excel NY
Invoice Name : Walsh Construction Compai		Purchase Order :	Hard Copy Date :
Invoice Contact : Kayla Timony			Date Signoff : 11/6/2024 11:17:21 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By :

Date / Time : 11/6/24 12:10

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room