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Cover Page

Order ID : P4822

Project ID : BAPS North Bergen

Client : BAPS North Bergen

Lab Sample Number	Client Sample Number
P4822-01	SOIL-1
P4822-02	SOIL-1
P4822-03	SOIL-2
P4822-04	SOIL-2
P4822-05	SOIL-3
P4822-06	SOIL-3
P4822-07	SOIL-4
P4822-08	SOIL-4
P4822-09	SOIL-5
P4822-10	SOIL-5
P4822-11	SOIL-6
P4822-12	SOIL-6

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

Signature : _____

Date: 11/23/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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 is 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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4822**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PRADIP PRAJAPATI** **Date:** **11/23/2024**

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LAB CHRONICLE

OrderID:	P4822	**OrderDate:**	11/12/2024 1:54:09 PM
Client:	BAPS North Bergen	**Project:**	BAPS North Bergen
Contact:	Rakesh Patel	**Location:**	L21,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4822-01	**SOIL-1**	**Solid**			**11/12/24**			**11/12/24**
			EPH	NJEPH		11/13/24	11/13/24	
P4822-03	**SOIL-2**	**Solid**			**11/12/24**			**11/12/24**
			EPH	NJEPH		11/13/24	11/13/24	
P4822-05	**SOIL-3**	**Solid**			**11/12/24**			**11/12/24**
			EPH	NJEPH		11/13/24	11/13/24	
			EPH	NJEPH		11/13/24	11/14/24	
P4822-07	**SOIL-4**	**Solid**			**11/12/24**			**11/12/24**
			EPH	NJEPH		11/13/24	11/13/24	
			EPH	NJEPH		11/13/24	11/14/24	
P4822-09	**SOIL-5**	**Solid**			**11/12/24**			**11/12/24**
			EPH	NJEPH		11/13/24	11/13/24	
			EPH	NJEPH		11/13/24	11/14/24	
P4822-11	**SOIL-6**	**Solid**			**11/12/24**			**11/12/24**
			EPH	NJEPH		11/13/24	11/13/24	
			EPH	NJEPH		11/13/24	11/14/24	

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: BAPS03

Lab Code: CHEM CASE No.: P4822 SAS No.: P4822 SDG No.: P4822

Run Number: FC111324AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
B-6-3MS	81			0
B-6-3MSD	90			0
SOIL-1	74			0
SOIL-2	94			0
PB164943BL	73			0
PB164943BS	80			0
PB164943BSD	90			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: BAPS03

Lab Code: CHEM CASE No.: P4822 SAS No.: P4822 SDG No.: P4822

Run Number: FD111324AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
B-6-3MS	101	101	53	0
B-6-3MSD	97	96	46	0
SOIL-1	93	94	66	0
SOIL-2	111	112	78	0
PB164943BL	94	94	86	0
PB164943BS	104	100	92	0
PB164943BSD	105	100	92	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (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

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: BAPS03

Lab Code: CHEM CASE No.: P4822 SAS No.: P4822 SDG No.: P4822

Run Number: FE111324AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
SOIL-3	85			0
SOIL-4	86			0
SOIL-5	105			0
SOIL-6	59			0

	QC LIMITS
1-chlorooctadecane (SURR)	(40-140)

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: BAPS03

Lab Code: CHEM CASE No.: P4822 SAS No.: P4822 SDG No.: P4822

Run Number: FF111324AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
SOIL-3	87	85	64	0
SOIL-4	109	108	72	0
SOIL-5	107	105	90	0
SOIL-6	98	97	50	0

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (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

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SOIL EPH SURROGATE RECOVERY

	QC LIMITS
2-Bromonaphthalene (SURR)	(40-140)
2-Flurobiphenyl (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

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** BAPS North Bergen

Lab Code: CHEM **Cas No:** P4822 **SAS No :** P4822 **SDG No:** P4822

Sample No : P4768-07MS **Datafile:** FC067740.D

Client ID : B-6-3MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10.5	0.42	7.83	71		(40-140)
Aliphatic C12-C16	7	0.53	7.46	99		(40-140)
Aliphatic C16-C21	10.5	0.40	11.7	107		(40-140)
Aliphatic C21-C28	14.0	0	15.8	113		(40-140)
Aliphatic C28-C40	21.0	6.13	36.3	144	*	(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** BAPS North Bergen

Lab Code: CHEM **Cas No:** P4822 **SAS No :** P4822 **SDG No:** P4822

Sample No : P4768-07MSD **Datafile:** FC067741.D

Client ID : B-6-3MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10.5	0.42	7.56	68		3.6 |	(40-140)	25
Aliphatic C12-C16	7	0.53	7.24	96		3.07 |	(40-140)	25
Aliphatic C16-C21	10.5	0.40	11.4	105		1.89 |	(40-140)	25
Aliphatic C21-C28	13.9	0	15.5	111		1.79 |	(40-140)	25
Aliphatic C28-C40	20.9	6.13	37.1	148	*	2.74 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** BAPS North Bergen

Lab Code: CHEM **Cas No:** P4822 **SAS No :** P4822 **SDG No:** P4822

Sample No : P4768-07MS **Datafile:** FD048721.D

Client ID : B-6-3MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	7	0	5.58	80		(40-140)
Aromatic C12-C16	10.5	0.76	10.3	91		(40-140)
Aromatic C16-C21	17.5	11.0	28.3	99		(40-140)
Aromatic C21-C36	27.9	13.1	43.5	108		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** BAPS North Bergen

Lab Code: CHEM **Cas No:** P4822 **SAS No :** P4822 **SDG No:** P4822

Sample No : P4768-07MSD **Datafile:** FD048722.D

Client ID : B-6-3MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	7	0	5.35	77		4.09 |	(40-140)	25
Aromatic C12-C16	10.5	0.76	12.9	116		24 |	(40-140)	25
Aromatic C16-C21	17.4	11.0	27.1	92		7 |	(40-140)	25
Aromatic C21-C36	27.9	13.1	41.7	102		5.71 |	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** BAPS North Bergen

Lab Code: CHEM **Cas No:** P4822 **SAS No :** P4822 **SDG No:** P4822

Sample No : PB164943BS **Datafile:** FC067736.D

Client ID : PB164943BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10.0	5.33	53		(40-140)
Aliphatic C12-C16	6.7	5.11	77		(40-140)
Aliphatic C16-C21	10.0	8.83	88		(40-140)
Aliphatic C21-C28	13.3	12.0	90		(40-140)
Aliphatic C28-C40	20.0	20.5	102		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** BAPS North Bergen

Lab Code: CHEM **Cas No:** P4822 **SAS No :** P4822 **SDG No:** P4822

Sample No : PB164943BSD **Datafile:** FC067737.D

Client ID : PB164943BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.59	56		4.8|	(40-140)	50
Aliphatic C12-C16	6.7	5.33	80		4.2|	(40-140)	50
Aliphatic C16-C21	10	9.21	92		4.3|	(40-140)	50
Aliphatic C21-C28	13.3	12.5	94		4.1|	(40-140)	50
Aliphatic C28-C40	20.0	21.4	107		4.9|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** BAPS North Bergen

Lab Code: CHEM **Cas No:** P4822 **SAS No :** P4822 **SDG No:** P4822

Sample No : PB164943BS **Datafile:** FD048717.D

Client ID : PB164943BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	4.64	70		(40-140)
Aromatic C12-C16	10.0	8.32	83		(40-140)
Aromatic C16-C21	16.7	16.9	101		(40-140)
Aromatic C21-C36	26.7	26.2	98		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** BAPS North Bergen

Lab Code: CHEM **Cas No:** P4822 **SAS No :** P4822 **SDG No:** P4822

Sample No : PB164943BSD **Datafile:** FD048718.D

Client ID : PB164943BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	4.65	70		0.28|	(40-140)	50
Aromatic C12-C16	10	8.33	83		0.18|	(40-140)	50
Aromatic C16-C21	16.7	17.0	102		1.1|	(40-140)	50
Aromatic C21-C36	26.6	26.3	99		0.39|	(40-140)	50

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164943BL

Lab Name: CHEMTECH Contract: BAPS03

Lab Code: CHEM Case No.: P4822 SAS No.: P4822 SDG NO.: P4822

Instrument ID: FID_C Lab Sample ID: PB164943BL

Matrix: (soil/water) Solid Date Extracted: 11/13/2024 9:40:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164943BS	PB164943BS
PB164943BSD	PB164943BSD
B-6-3MS	P4768-07MS
B-6-3MSD	P4768-07MSD
SOIL-1	P4822-01
SOIL-2	P4822-03
SOIL-3	P4822-05
SOIL-4	P4822-07
SOIL-5	P4822-09
SOIL-6	P4822-11

COMMENTS:

SAMPLE DATA

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Report of Analysis

Client:	BAPS North Bergen	Date Collected:	11/12/24
Project:	BAPS North Bergen	Date Received:	11/12/24
Client Sample ID:	SOIL-1	SDG No.:	P4822
Lab Sample ID:	P4822-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/13/24 20:16	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.40	U	1	0.40	1.06	mg/kg	FC067742.D
Aliphatic C12-C16	Aliphatic C12-C16	0.34	J	1	0.25	0.71	mg/kg	FC067742.D
Aliphatic C16-C21	Aliphatic C16-C21	0.32	U	1	0.32	1.06	mg/kg	FC067742.D
Aliphatic C21-C28	Aliphatic C21-C28	0.85	U	1	0.85	1.41	mg/kg	FC067742.D
Aliphatic C28-C40	Aliphatic C28-C40	9.55		1	1.91	2.12	mg/kg	FC067742.D
Aromatic C10-C12	Aromatic C10-C12	0.34	J	1	0.32	0.71	mg/kg	FD048723.D
Aromatic C12-C16	Aromatic C12-C16	0.44	J	1	0.36	1.06	mg/kg	FD048723.D
Aromatic C16-C21	Aromatic C16-C21	1.54	J	1	1.02	1.77	mg/kg	FD048723.D
Aromatic C21-C36	Aromatic C21-C36	6.53		1	2.12	2.83	mg/kg	FD048723.D
Total AliphaticEPH	Total AliphaticEPH	9.89			3.73	6.36	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.85			3.82	6.37	mg/kg	
Total EPH	Total EPH	18.7			7.55	12.7	mg/kg	

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

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Report of Analysis

Client:	BAPS North Bergen	Date Collected:	11/12/24
Project:	BAPS North Bergen	Date Received:	11/12/24
Client Sample ID:	SOIL-1	SDG No.:	P4822
Lab Sample ID:	P4822-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067742.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.40	U	0.40	1.06	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.34	J	0.25	0.71	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.32	U	0.32	1.06	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.85	U	0.85	1.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		9.55		1.91	2.12	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.0		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4822-01	Acq On:	13 Nov 2024 20:16
Client Sample ID:	SOIL-1	Operator:	YP/AJ
Data file:	FC067742.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.169	6.447	325097	2.4	300	ug/ml
Aliphatic C12-C16	6.448	9.836	625999	4.754	200	ug/ml
Aliphatic C16-C21	9.837	13.192	461136	3.624	300	ug/ml
Aliphatic C21-C28	13.193	16.845	841253	7.005	400	ug/ml
Aliphatic C28-C40	16.846	21.681	13669430	135.216	600	ug/ml
Aliphatic EPH	3.169	21.681	15922915	152.999		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.926	12.926	3994370	36.99		ug/ml
Aliphatic C9-C28	3.169	16.845	2253485	17.783	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067742.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 20:16
Operator : YP/AJ
Sample : P4822-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
SOIL-1

Integration File: autoint1.e
Quant Time: Nov 14 01:18:46 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			
12) S 1-chlorooctadecane (S...	12.926	3994370	36.989 ug/ml
Spiked Amount 50.000		Recovery = 73.98%	
Target Compounds			

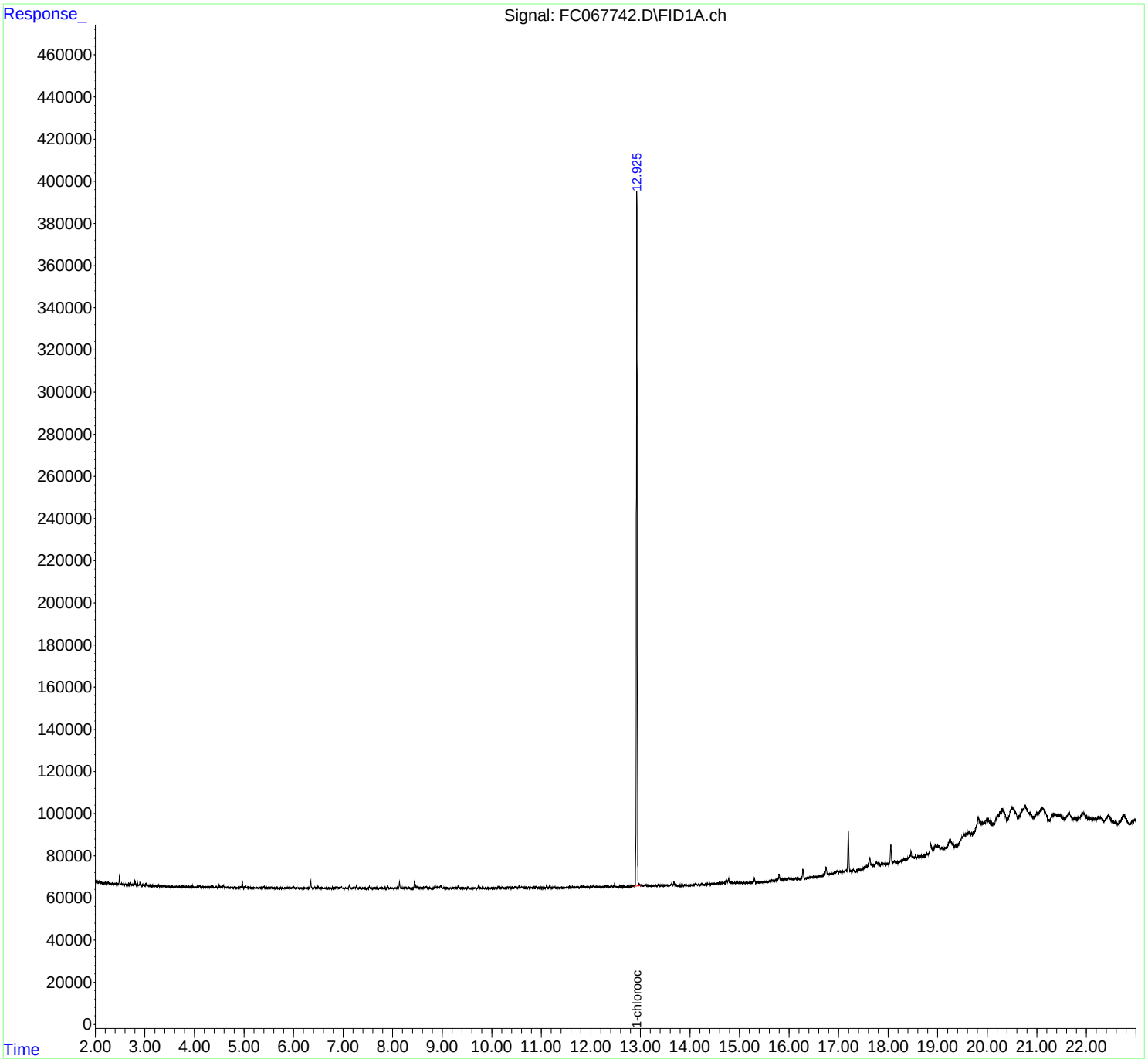
(f)=RT Delta > 1/2 Window (m)=manual int.

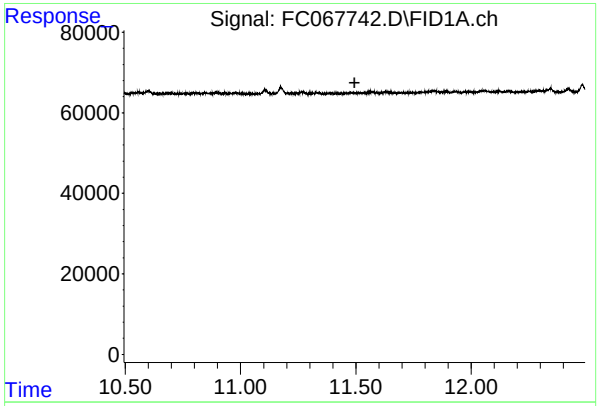
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067742.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 20:16
Operator : YP/AJ
Sample : P4822-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
SOIL-1

Integration File: autoint1.e
Quant Time: Nov 14 01:18:46 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

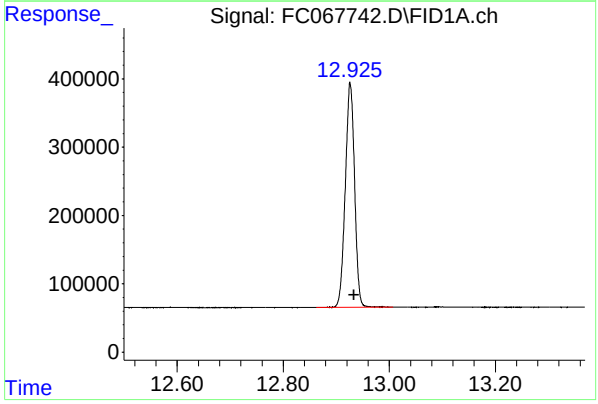




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
SOIL-1



#12 1-chlorooctadecane (SURR)

R.T.: 12.926 min
Delta R.T.: -0.007 min
Response: 3994370
Conc: 36.99 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067742.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 20:16
Sample : P4822-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

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	3.271	3.254	3.345	BV	201	3729	0.09%	0.018%
2	3.355	3.345	3.438	PV	57	3058	0.08%	0.015%
3	3.472	3.438	3.520	PV	142	2736	0.07%	0.013%
4	3.529	3.520	3.538	VV	102	528	0.01%	0.003%
5	3.547	3.538	3.578	VV	146	1962	0.05%	0.010%
6	3.589	3.578	3.611	VV	212	2435	0.06%	0.012%
7	3.643	3.611	3.738	VV	193	5515	0.14%	0.027%
8	3.762	3.738	3.774	PV	245	2640	0.07%	0.013%
9	3.784	3.774	3.810	VV	134	1836	0.05%	0.009%
10	3.845	3.810	3.918	VV	253	4810	0.12%	0.024%
11	3.935	3.918	3.948	VV	372	3439	0.09%	0.017%
12	3.963	3.948	4.018	VV	684	7187	0.18%	0.035%
13	4.042	4.018	4.071	PV	91	2085	0.05%	0.010%
14	4.107	4.071	4.163	VV	558	12104	0.30%	0.059%
15	4.171	4.163	4.198	VV	106	656	0.02%	0.003%
16	4.253	4.198	4.280	VV	151	2999	0.07%	0.015%
17	4.289	4.280	4.314	VV	143	1710	0.04%	0.008%
18	4.334	4.314	4.361	VV	510	6877	0.17%	0.034%
19	4.377	4.361	4.414	VV	263	4364	0.11%	0.021%
20	4.438	4.414	4.471	VV	384	6508	0.16%	0.032%
21	4.501	4.471	4.541	VV	898	14367	0.36%	0.071%
22	4.560	4.541	4.571	VV	664	8122	0.20%	0.040%
23	4.587	4.571	4.618	VV	1206	12592	0.31%	0.062%
24	4.635	4.618	4.654	VV	143	1890	0.05%	0.009%
25	4.675	4.654	4.688	VV	110	1716	0.04%	0.008%
26	4.705	4.688	4.745	VV	182	3261	0.08%	0.016%
27	4.754	4.745	4.764	VV	101	973	0.02%	0.005%
28	4.774	4.764	4.870	VV	168	2469	0.06%	0.012%
29	4.886	4.870	4.918	PV	175	2675	0.07%	0.013%
30	4.965	4.918	4.998	VV	2830	36829	0.91%	0.181%
31	5.021	4.998	5.038	VV	608	6814	0.17%	0.033%
32	5.050	5.038	5.120	VV	205	5323	0.13%	0.026%
33	5.129	5.120	5.147	PV	150	1443	0.04%	0.007%
34	5.157	5.147	5.168	VV	217	1770	0.04%	0.009%
35	5.190	5.168	5.224	VV	277	3668	0.09%	0.018%
36	5.248	5.224	5.297	VV	243	4193	0.10%	0.021%

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37	5.334	5.297	5.348	VV	236	3430	0.08%	0.017%
38	5.367	5.348	5.386	VV	545	6194	0.15%	0.030%
39	5.408	5.386	5.434	VV	913	11552	0.29%	0.057%
40	5.464	5.434	5.489	VV	235	3570	0.09%	0.018%
41	5.549	5.489	5.633	VV	218	8451	0.21%	0.042%
42	5.652	5.633	5.663	VV	244	2636	0.07%	0.013%
43	5.670	5.663	5.682	VV	244	1460	0.04%	0.007%
44	5.707	5.682	5.727	VV	146	2722	0.07%	0.013%
45	5.742	5.727	5.794	VV	255	4248	0.11%	0.021%
46	5.830	5.794	5.864	PV	190	4924	0.12%	0.024%
47	5.869	5.864	5.901	VV	125	2393	0.06%	0.012%
48	5.915	5.901	5.951	VV	348	6354	0.16%	0.031%
49	5.965	5.951	5.985	VV	295	3529	0.09%	0.017%
50	6.007	5.985	6.029	VV	484	6599	0.16%	0.032%
51	6.065	6.029	6.104	VV	324	6593	0.16%	0.032%
52	6.137	6.104	6.164	VV	269	5740	0.14%	0.028%
53	6.199	6.164	6.212	VV	153	3172	0.08%	0.016%
54	6.236	6.212	6.305	VV	173	6271	0.16%	0.031%
55	6.347	6.305	6.409	VV	3629	43489	1.08%	0.214%
56	6.431	6.409	6.450	VV	484	6487	0.16%	0.032%
57	6.465	6.450	6.481	VV	359	4634	0.11%	0.023%
58	6.496	6.481	6.518	VV	771	8209	0.20%	0.040%
59	6.531	6.518	6.549	VV	262	3566	0.09%	0.018%
60	6.568	6.549	6.642	VV	408	8080	0.20%	0.040%
61	6.676	6.642	6.701	VV	118	2447	0.06%	0.012%
62	6.743	6.701	6.767	VV	196	3812	0.09%	0.019%
63	6.788	6.767	6.819	VV	513	6779	0.17%	0.033%
64	6.843	6.819	6.856	PV	531	6781	0.17%	0.033%
65	6.864	6.856	6.878	VV	400	4328	0.11%	0.021%
66	6.890	6.878	6.934	VV	575	11541	0.29%	0.057%
67	6.968	6.934	7.031	VV	921	18736	0.46%	0.092%
68	7.048	7.031	7.089	VV	325	6634	0.16%	0.033%
69	7.129	7.089	7.162	VV	1859	23533	0.58%	0.116%
70	7.193	7.162	7.220	VV	321	6860	0.17%	0.034%
71	7.236	7.220	7.249	VV	367	4439	0.11%	0.022%
72	7.269	7.249	7.312	VV	1020	15010	0.37%	0.074%
73	7.334	7.312	7.347	VV	339	4840	0.12%	0.024%
74	7.360	7.347	7.396	VV	401	5665	0.14%	0.028%
75	7.441	7.396	7.468	VV	180	4929	0.12%	0.024%
76	7.472	7.468	7.507	VV	168	1866	0.05%	0.009%
77	7.530	7.507	7.577	PV	695	10583	0.26%	0.052%
78	7.611	7.577	7.659	VV	288	7798	0.19%	0.038%
79	7.695	7.659	7.776	VV	331	13156	0.33%	0.065%
80	7.789	7.776	7.816	VV	246	3263	0.08%	0.016%
81	7.837	7.816	7.871	VV	715	8840	0.22%	0.043%
82	7.891	7.871	7.915	VV	756	10114	0.25%	0.050%
83	7.961	7.915	7.995	VV	230	8217	0.20%	0.040%
84	8.001	7.995	8.009	VV	211	1330	0.03%	0.007%
85	8.046	8.009	8.108	VV	513	13942	0.35%	0.069%
86	8.139	8.108	8.211	VV	3059	43889	1.09%	0.216%
87	8.250	8.211	8.270	VV	426	9649	0.24%	0.047%
88	8.280	8.270	8.310	VV	322	5805	0.14%	0.029%
89	8.336	8.310	8.356	VV	298	5683	0.14%	0.028%

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90	8.373	8.356	8.407	VV	392	6172	0.15%	0.030%
91	8.445	8.407	8.528	VV	3265	70321	1.74%	0.346%
92	8.545	8.528	8.574	VV	469	10485	0.26%	0.052%
93	8.592	8.574	8.615	VV	532	9737	0.24%	0.048%
94	8.628	8.615	8.658	VV	489	9492	0.23%	0.047%
95	8.680	8.658	8.716	VV	647	14712	0.36%	0.072%
96	8.737	8.716	8.770	VV	304	4962	0.12%	0.024%
97	8.792	8.770	8.814	VV	328	5009	0.12%	0.025%
98	8.859	8.814	8.878	VV	1553	22978	0.57%	0.113%
99	8.894	8.878	8.941	VV	719	19627	0.49%	0.096%
100	8.974	8.941	9.025	VV	1476	35907	0.89%	0.176%
101	9.045	9.025	9.068	VV	444	7271	0.18%	0.036%
102	9.096	9.068	9.130	VV	357	7440	0.18%	0.037%
103	9.143	9.130	9.164	VV	283	4336	0.11%	0.021%
104	9.174	9.164	9.227	VV	265	7348	0.18%	0.036%
105	9.260	9.227	9.285	VV	386	9077	0.22%	0.045%
106	9.294	9.285	9.304	VV	190	1780	0.04%	0.009%
107	9.325	9.304	9.354	VV	759	12125	0.30%	0.060%
108	9.374	9.354	9.391	VV	244	4063	0.10%	0.020%
109	9.465	9.391	9.492	VV	413	11250	0.28%	0.055%
110	9.517	9.492	9.547	VV	622	8781	0.22%	0.043%
111	9.564	9.547	9.591	VV	185	3295	0.08%	0.016%
112	9.614	9.591	9.636	VV	183	3043	0.08%	0.015%
113	9.655	9.636	9.690	PV	459	6918	0.17%	0.034%
114	9.703	9.690	9.709	VV	143	1339	0.03%	0.007%
115	9.737	9.709	9.787	VV	1900	25897	0.64%	0.127%
116	9.807	9.787	9.867	VV	255	7676	0.19%	0.038%
117	9.879	9.867	9.962	VV	198	4375	0.11%	0.021%
118	10.017	9.962	10.031	PV	223	4064	0.10%	0.020%
119	10.060	10.031	10.092	VV	310	6218	0.15%	0.031%
120	10.127	10.092	10.145	VV	440	8332	0.21%	0.041%
121	10.168	10.145	10.188	VV	368	5998	0.15%	0.029%
122	10.216	10.188	10.304	VV	264	11387	0.28%	0.056%
123	10.358	10.304	10.390	VV	374	11193	0.28%	0.055%
124	10.407	10.390	10.437	VV	360	7179	0.18%	0.035%
125	10.473	10.437	10.512	VV	729	17988	0.45%	0.088%
126	10.528	10.512	10.541	VV	392	4485	0.11%	0.022%
127	10.557	10.541	10.575	VV	446	7433	0.18%	0.037%
128	10.602	10.575	10.638	VV	793	15192	0.38%	0.075%
129	10.662	10.638	10.674	VV	240	3938	0.10%	0.019%
130	10.693	10.674	10.741	VV	343	6831	0.17%	0.034%
131	10.795	10.741	10.825	VV	307	8660	0.21%	0.043%
132	10.850	10.825	10.861	VV	324	4361	0.11%	0.021%
133	10.898	10.861	10.941	VV	411	10791	0.27%	0.053%
134	10.976	10.941	11.073	VV	296	10643	0.26%	0.052%
135	11.105	11.073	11.146	VV	1040	14536	0.36%	0.071%
136	11.175	11.146	11.244	VV	1702	25885	0.64%	0.127%
137	11.267	11.244	11.291	VV	398	6859	0.17%	0.034%
138	11.329	11.291	11.370	PV	244	4141	0.10%	0.020%
139	11.399	11.370	11.414	VV	148	1580	0.04%	0.008%
140	11.421	11.414	11.443	PV	66	693	0.02%	0.003%
141	11.479	11.443	11.508	VV	245	5450	0.13%	0.027%

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142	11.564	11.508	11.608	VV	410	12534	0.31%	0.062%
143	11.629	11.608	11.678	VV	413	9317	0.23%	0.046%
144	11.698	11.678	11.721	VV	196	3238	0.08%	0.016%
145	11.749	11.721	11.761	VV	192	3734	0.09%	0.018%
146	11.783	11.761	11.794	VV	264	3951	0.10%	0.019%
147	11.837	11.794	11.873	VV	631	17310	0.43%	0.085%
148	11.889	11.873	11.910	VV	339	5357	0.13%	0.026%
149	11.931	11.910	11.958	VV	341	6175	0.15%	0.030%
150	11.985	11.958	12.016	VV	296	7621	0.19%	0.037%
151	12.058	12.016	12.086	VV	580	14638	0.36%	0.072%
152	12.123	12.086	12.151	VV	436	10335	0.26%	0.051%
153	12.163	12.151	12.187	VV	374	5200	0.13%	0.026%
154	12.221	12.187	12.236	VV	252	4523	0.11%	0.022%
155	12.256	12.236	12.270	VV	270	4596	0.11%	0.023%
156	12.295	12.270	12.321	VV	435	11100	0.27%	0.055%
157	12.344	12.321	12.378	VV	993	15820	0.39%	0.078%
158	12.421	12.378	12.452	VV	798	14604	0.36%	0.072%
159	12.482	12.452	12.514	VV	1879	25304	0.63%	0.124%
160	12.522	12.514	12.544	VV	241	3331	0.08%	0.016%
161	12.551	12.544	12.561	VV	224	1487	0.04%	0.007%
162	12.590	12.561	12.673	VV	412	11302	0.28%	0.056%
163	12.683	12.673	12.715	PV	136	1834	0.05%	0.009%
164	12.754	12.715	12.787	VV	269	7487	0.19%	0.037%
165	12.811	12.787	12.831	VV	303	5009	0.12%	0.025%
166	12.850	12.831	12.860	VV	256	3514	0.09%	0.017%
167	12.872	12.860	12.884	VV	309	3682	0.09%	0.018%
168	12.926	12.884	13.054	VV	325672	4040719	100.00%	19.856%
169	13.061	13.054	13.071	VV	463	4015	0.10%	0.020%
170	13.091	13.071	13.141	VV	807	23861	0.59%	0.117%
171	13.151	13.141	13.197	VV	427	12045	0.30%	0.059%
172	13.210	13.197	13.224	VV	343	5012	0.12%	0.025%
173	13.230	13.224	13.241	VV	335	2810	0.07%	0.014%
174	13.264	13.241	13.281	VV	335	6725	0.17%	0.033%
175	13.289	13.281	13.294	VV	371	2480	0.06%	0.012%
176	13.303	13.294	13.331	VV	410	7607	0.19%	0.037%
177	13.357	13.331	13.406	VV	524	15650	0.39%	0.077%
178	13.429	13.406	13.454	VV	293	6778	0.17%	0.033%
179	13.468	13.454	13.485	VV	278	4432	0.11%	0.022%
180	13.529	13.485	13.577	VV	375	14406	0.36%	0.071%
181	13.624	13.577	13.649	VV	865	16250	0.40%	0.080%
182	13.678	13.649	13.705	VV	1751	26421	0.65%	0.130%
183	13.724	13.705	13.761	VV	250	4170	0.10%	0.020%
184	13.782	13.761	13.828	VV	186	3419	0.08%	0.017%
185	13.833	13.828	13.862	VV	111	1436	0.04%	0.007%
186	13.892	13.862	13.931	VV	171	4950	0.12%	0.024%
187	13.940	13.931	13.954	VV	128	1398	0.03%	0.007%
188	13.982	13.954	13.992	VV	124	1524	0.04%	0.007%
189	14.007	13.992	14.028	PV	122	1464	0.04%	0.007%
190	14.036	14.028	14.041	VV	173	960	0.02%	0.005%
191	14.051	14.041	14.061	VV	173	1458	0.04%	0.007%
192	14.113	14.061	14.151	VV	1015	17743	0.44%	0.087%
193	14.183	14.151	14.208	VV	200	4728	0.12%	0.023%
194	14.239	14.208	14.276	PV	930	15177	0.38%	0.075%

195	14.396	14.276	14.431	VV	268	18988	0.47%	0.093%
196	14.486	14.431	14.511	VV	434	16485	0.41%	0.081%
197	14.540	14.511	14.566	VV	566	15930	0.39%	0.078%
198	14.587	14.566	14.603	VV	532	10490	0.26%	0.052%
199	14.632	14.603	14.691	VV	563	25472	0.63%	0.125%
200	14.779	14.691	14.918	VV	2589	113616	2.81%	0.558%
201	14.957	14.918	14.990	VV	518	17194	0.43%	0.084%
202	15.012	14.990	15.071	VV	411	14968	0.37%	0.074%
203	15.204	15.071	15.266	VV	312	21696	0.54%	0.107%
204	15.298	15.266	15.334	VV	2435	34759	0.86%	0.171%
205	15.351	15.334	15.404	VV	140	4468	0.11%	0.022%
206	15.798	15.404	15.871	PV	3177	116507	2.88%	0.573%
207	15.893	15.871	15.952	VV	651	25798	0.64%	0.127%
208	15.996	15.952	16.039	VV	807	30206	0.75%	0.148%
209	16.083	16.039	16.107	VV	428	14397	0.36%	0.071%
210	16.129	16.107	16.206	VV	358	13241	0.33%	0.065%
211	16.279	16.206	16.314	PV	4466	64423	1.59%	0.317%
212	16.446	16.314	16.488	PV	240	5190	0.13%	0.026%
213	16.746	16.488	16.808	PV	4040	110427	2.73%	0.543%
214	16.976	16.808	17.001	VV	1343	79936	1.98%	0.393%
215	17.061	17.001	17.094	VV	980	48807	1.21%	0.240%
216	17.195	17.094	17.278	VV	19691	338045	8.37%	1.661%
217	17.297	17.278	17.331	VV	894	14319	0.35%	0.070%
218	17.426	17.331	17.448	PV	393	12998	0.32%	0.064%
219	17.630	17.448	17.699	VV	5138	231773	5.74%	1.139%
220	17.763	17.699	17.838	VV	2518	118540	2.93%	0.583%
221	17.866	17.838	17.888	VV	984	25540	0.63%	0.126%
222	17.910	17.888	17.934	VV	1001	20633	0.51%	0.101%
223	17.957	17.934	18.018	VV	753	22381	0.55%	0.110%
224	18.053	18.018	18.084	PV	9188	132686	3.28%	0.652%
225	18.129	18.084	18.171	VV	1324	28369	0.70%	0.139%
226	18.461	18.171	18.524	PV	4125	179318	4.44%	0.881%
227	18.553	18.524	18.574	VV	1648	27503	0.68%	0.135%
228	18.603	18.574	18.642	VV	1255	30175	0.75%	0.148%
229	18.675	18.642	18.704	VV	818	18673	0.46%	0.092%
230	18.860	18.704	18.910	VV	5499	207706	5.14%	1.021%
231	18.951	18.910	18.981	VV	4391	143547	3.55%	0.705%
232	19.008	18.981	19.063	VV	3486	153022	3.79%	0.752%
233	19.098	19.063	19.127	VV	2225	80769	2.00%	0.397%
234	19.244	19.127	19.338	VV	5204	374975	9.28%	1.843%
235	19.522	19.338	19.554	VV	6086	461171	11.41%	2.266%
236	19.572	19.554	19.598	VV	6550	156467	3.87%	0.769%
237	19.618	19.598	19.674	VV	6863	289947	7.18%	1.425%
238	19.686	19.674	19.731	VV	6197	195102	4.83%	0.959%
239	19.819	19.731	19.919	VV	12599	1071617	26.52%	5.266%
240	19.937	19.919	19.964	VV	10061	267843	6.63%	1.316%
241	19.983	19.964	20.148	VV	10791	1019695	25.24%	5.011%
242	20.302	20.148	20.408	VV	14343	1775622	43.94%	8.725%
243	20.503	20.408	20.622	VV	14066	1451895	35.93%	7.135%
244	20.761	20.622	20.948	VV	13407	1958325	48.46%	9.623%
245	21.115	20.948	21.254	VV	10490	1452346	35.94%	7.137%
246	21.346	21.254	21.415	VV	6614	521521	12.91%	2.563%

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247	21.444	21.415	21.548	VV	5471	351431	8.70%	1.727%
248	21.660	21.548	21.744	VV	5306	406733	10.07%	1.999%
249	21.775	21.744	21.831	VV	2235	93009	2.30%	0.457%
250	21.935	21.831	22.084	VV	3582	293220	7.26%	1.441%

Sum of corrected areas: 20349864

Aliphatic EPH 102324.M Thu Nov 14 04:01:49 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-1		SDG No.:	P4822	
Lab Sample ID:	P4822-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	94.1	
Sample Wt/Vol:	30.08	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048723.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.34	J	0.32	0.71	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.44	J	0.36	1.06	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.54	J	1.02	1.77	mg/kg
Aromatic C21-C36	Aromatic C21-C36	6.53		2.12	2.83	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.5		40 - 140	93%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	47.1		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.0		40 - 140	66%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4822-01	Acq On:	13 Nov 2024 20:16
Client Sample ID:	SOIL-1	Operator:	YP/AJ
Data file:	FD048723.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.089	5.807	843321	4.786	200	ug/ml
Aromatic C12-C16	5.808	8.412	1099404	6.202	300	ug/ml
Aromatic C16-C21	8.413	12.673	3575104	21.822	500	ug/ml
Aromatic C21-C36	12.674	18.078	14116809	92.44	800	ug/ml
Aromatic EPH	4.089	18.078	19634638	125.25		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	7057358	46.5		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	4628849	47.14		ug/ml
ortho-Terphenyl (SURR)	11.252	11.252	5612416	32.95		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048723.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 20:16
Operator : YP/AJ
Sample : P4822-01
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
SOIL-1

Integration File: autoint1.e
Quant Time: Nov 14 01:46:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.367	7057358	46.498 ug/ml
Spiked Amount 50.000		Recovery =	93.00%
6) S 2-Flurobiphenyl (SURR)	8.217	4628849	47.141 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	94.28%
11) S ortho-Terphenyl (SURR)	11.252	5612416	32.948 ug/ml
Spiked Amount 50.000		Recovery =	65.90%
Target Compounds			

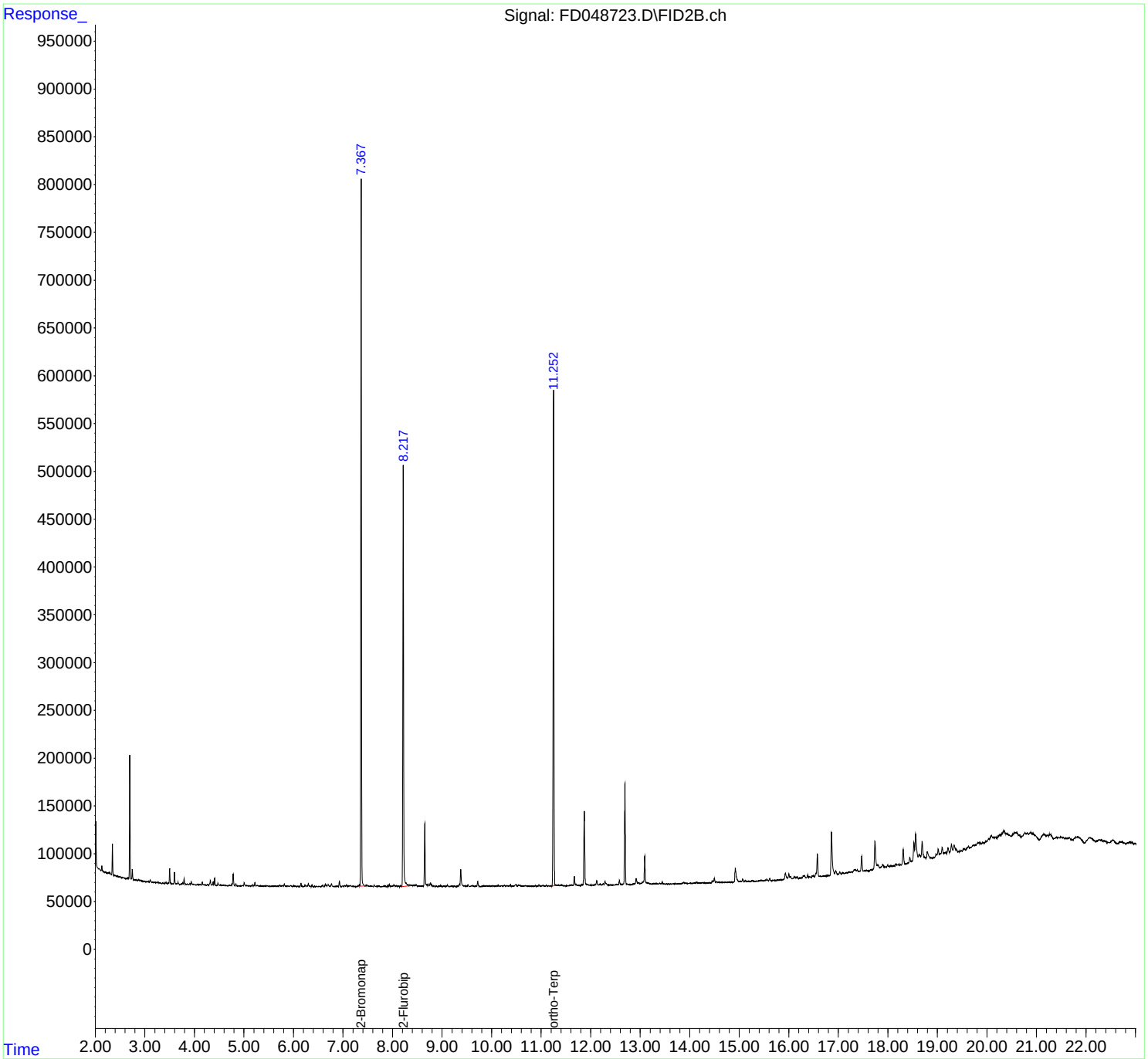
(f)=RT Delta > 1/2 Window (m)=manual int.

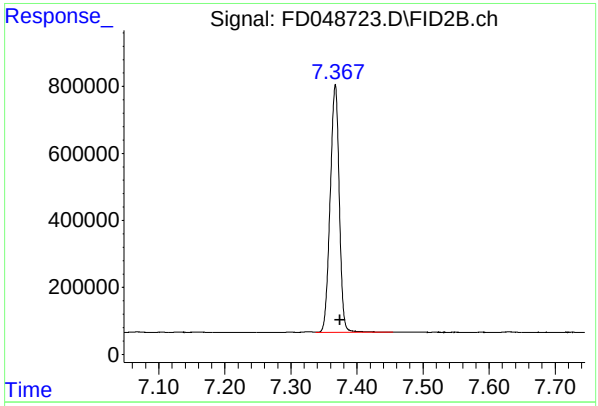
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048723.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 20:16
Operator : YP/AJ
Sample : P4822-01
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
SOIL-1

Integration File: autoint1.e
Quant Time: Nov 14 01:46:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

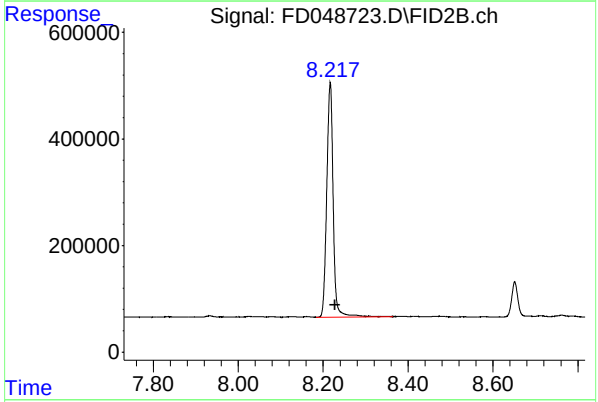




#4 2-Bromonaphthalene (SURR)

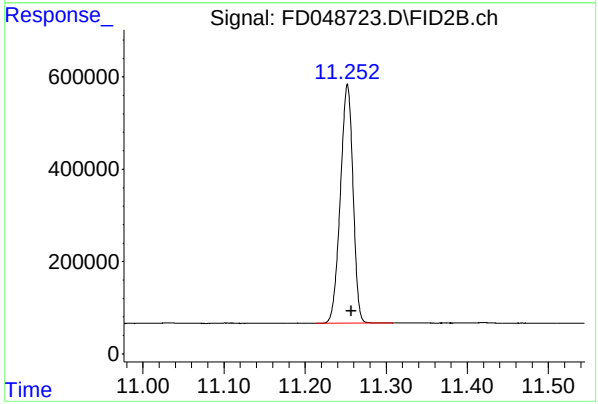
R.T.: 7.367 min
Delta R.T.: -0.008 min
Response: 7057358
Conc: 46.50 ug/ml

Instrument :
FID_D
ClientSampleId :
SOIL-1



#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.012 min
Response: 4628849
Conc: 47.14 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.252 min
Delta R.T.: -0.005 min
Response: 5612416
Conc: 32.95 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048723.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 20:16
Sample : P4822-01
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.062	4.042	4.075	BV	437	3620	0.05%	0.010%
2	4.108	4.075	4.125	VV	413	6399	0.09%	0.017%
3	4.158	4.136	4.179	PV	3275	31324	0.44%	0.083%
4	4.188	4.179	4.209	VV	367	4534	0.06%	0.012%
5	4.224	4.209	4.229	PV	230	1538	0.02%	0.004%
6	4.232	4.229	4.240	VV	277	1238	0.02%	0.003%
7	4.269	4.240	4.288	VV	1260	15581	0.22%	0.041%
8	4.322	4.288	4.342	VV	5310	64707	0.91%	0.171%
9	4.352	4.342	4.359	VV	511	4617	0.06%	0.012%
10	4.378	4.359	4.392	VV	4030	39125	0.55%	0.103%
11	4.407	4.392	4.432	VV	7894	73494	1.03%	0.194%
12	4.437	4.432	4.450	VV	311	1965	0.03%	0.005%
13	4.476	4.450	4.505	VV	2848	29608	0.42%	0.078%
14	4.523	4.505	4.546	VV	957	15423	0.22%	0.041%
15	4.550	4.546	4.558	VV	445	2991	0.04%	0.008%
16	4.564	4.558	4.572	VV	460	3398	0.05%	0.009%
17	4.576	4.572	4.579	VV	509	1945	0.03%	0.005%
18	4.594	4.579	4.643	VV	1018	17658	0.25%	0.047%
19	4.653	4.643	4.663	VV	286	2071	0.03%	0.005%
20	4.703	4.663	4.732	PV	800	14028	0.20%	0.037%
21	4.758	4.732	4.765	VV	2731	27053	0.38%	0.071%
22	4.782	4.765	4.818	VV	12758	151302	2.13%	0.399%
23	4.837	4.818	4.869	VV	2465	25345	0.36%	0.067%
24	4.875	4.869	4.883	VV	323	1525	0.02%	0.004%
25	4.888	4.883	4.897	VV	282	1797	0.03%	0.005%
26	4.905	4.897	4.925	VV	227	2389	0.03%	0.006%
27	4.933	4.925	4.952	VV	330	3217	0.05%	0.008%
28	4.971	4.952	4.987	VV	814	9286	0.13%	0.025%
29	5.005	4.987	5.045	VV	3513	48333	0.68%	0.128%
30	5.057	5.045	5.077	VV	683	8497	0.12%	0.022%
31	5.088	5.077	5.102	VV	417	4221	0.06%	0.011%
32	5.117	5.102	5.130	VV	435	5216	0.07%	0.014%
33	5.146	5.130	5.163	VV	633	6824	0.10%	0.018%
34	5.181	5.163	5.200	VV	1715	20486	0.29%	0.054%
35	5.221	5.200	5.240	VV	4108	43625	0.61%	0.115%
36	5.255	5.240	5.264	VV	686	7738	0.11%	0.020%

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37	5.278	5.264	5.302	VV	1163	13761	0.19%	0.036%
38	5.343	5.302	5.355	VV	700	13197	0.19%	0.035%
39	5.360	5.355	5.376	VV	557	5230	0.07%	0.014%
40	5.382	5.376	5.393	VV	410	2923	0.04%	0.008%
41	5.426	5.393	5.440	VV	803	10664	0.15%	0.028%
42	5.448	5.440	5.455	VV	453	3201	0.05%	0.008%
43	5.471	5.455	5.498	VV	848	13911	0.20%	0.037%
44	5.510	5.498	5.522	VV	603	5766	0.08%	0.015%
45	5.529	5.522	5.546	VV	542	4594	0.06%	0.012%
46	5.554	5.546	5.560	PV	271	1180	0.02%	0.003%
47	5.570	5.560	5.610	VV	330	6680	0.09%	0.018%
48	5.620	5.610	5.625	VV	372	3024	0.04%	0.008%
49	5.633	5.625	5.641	VV	383	3119	0.04%	0.008%
50	5.644	5.641	5.650	VV	363	1811	0.03%	0.005%
51	5.668	5.650	5.691	VV	473	8432	0.12%	0.022%
52	5.719	5.691	5.746	VV	1500	26545	0.37%	0.070%
53	5.771	5.746	5.795	VV	1191	20785	0.29%	0.055%
54	5.816	5.795	5.835	VV	3098	33327	0.47%	0.088%
55	5.842	5.835	5.856	VV	540	4354	0.06%	0.011%
56	5.886	5.856	5.914	VV	868	16562	0.23%	0.044%
57	5.945	5.914	5.989	VV	1146	26053	0.37%	0.069%
58	6.007	5.989	6.026	VV	768	10804	0.15%	0.029%
59	6.031	6.026	6.039	VV	431	2714	0.04%	0.007%
60	6.046	6.039	6.062	VV	422	4265	0.06%	0.011%
61	6.079	6.062	6.112	VV	338	6485	0.09%	0.017%
62	6.153	6.112	6.180	VV	3614	44198	0.62%	0.117%
63	6.194	6.180	6.210	VV	346	4703	0.07%	0.012%
64	6.234	6.210	6.255	VV	1537	19799	0.28%	0.052%
65	6.270	6.255	6.285	VV	1288	13553	0.19%	0.036%
66	6.300	6.285	6.320	VV	3560	36642	0.52%	0.097%
67	6.331	6.320	6.352	VV	990	10677	0.15%	0.028%
68	6.372	6.352	6.396	VV	1988	23019	0.32%	0.061%
69	6.406	6.396	6.417	VV	351	2150	0.03%	0.006%
70	6.426	6.417	6.446	PV	280	3401	0.05%	0.009%
71	6.458	6.446	6.466	VV	414	3630	0.05%	0.010%
72	6.472	6.466	6.480	VV	304	2262	0.03%	0.006%
73	6.487	6.480	6.497	VV	320	2261	0.03%	0.006%
74	6.512	6.497	6.537	VV	398	6419	0.09%	0.017%
75	6.542	6.537	6.554	VV	309	2237	0.03%	0.006%
76	6.591	6.554	6.618	VV	1756	24830	0.35%	0.066%
77	6.644	6.618	6.676	VV	2168	45624	0.64%	0.120%
78	6.691	6.676	6.700	VV	1955	22459	0.32%	0.059%
79	6.705	6.700	6.738	VV	1959	21767	0.31%	0.057%
80	6.768	6.738	6.798	VV	3209	45624	0.64%	0.120%
81	6.802	6.798	6.822	VV	401	3256	0.05%	0.009%
82	6.842	6.822	6.855	VV	458	5743	0.08%	0.015%
83	6.871	6.855	6.907	VV	729	12706	0.18%	0.034%
84	6.928	6.907	6.966	VV	5841	67299	0.95%	0.178%
85	6.986	6.966	7.020	VV	885	17092	0.24%	0.045%
86	7.035	7.020	7.049	VV	1364	13445	0.19%	0.035%
87	7.068	7.049	7.087	VV	1684	22083	0.31%	0.058%
88	7.105	7.087	7.116	VV	801	8542	0.12%	0.023%
89	7.131	7.116	7.145	VV	1083	12233	0.17%	0.032%

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90	7.160	7.145	7.192	VV	1377	17966	0.25%	0.047%
91	7.197	7.192	7.209	VV	264	2304	0.03%	0.006%
92	7.228	7.209	7.254	VV	333	6101	0.09%	0.016%
93	7.259	7.254	7.268	VV	340	1186	0.02%	0.003%
94	7.299	7.268	7.312	VV	835	12770	0.18%	0.034%
95	7.329	7.312	7.340	VV	2212	23182	0.33%	0.061%
96	7.367	7.340	7.455	VV	739833	7107178	100.00%	18.760%
97	7.467	7.455	7.512	VV	1311	34279	0.48%	0.090%
98	7.520	7.512	7.527	VV	766	6347	0.09%	0.017%
99	7.533	7.527	7.538	VV	651	3893	0.05%	0.010%
100	7.548	7.538	7.570	VV	746	10902	0.15%	0.029%
101	7.588	7.570	7.614	VV	944	13246	0.19%	0.035%
102	7.630	7.614	7.651	VV	1879	22221	0.31%	0.059%
103	7.659	7.651	7.662	VV	454	2738	0.04%	0.007%
104	7.674	7.662	7.682	VV	595	6375	0.09%	0.017%
105	7.687	7.682	7.702	VV	561	5238	0.07%	0.014%
106	7.725	7.702	7.772	VV	804	17634	0.25%	0.047%
107	7.777	7.772	7.784	VV	443	1848	0.03%	0.005%
108	7.792	7.784	7.798	VV	344	2284	0.03%	0.006%
109	7.835	7.798	7.868	VV	894	22196	0.31%	0.059%
110	7.875	7.868	7.887	VV	416	4030	0.06%	0.011%
111	7.897	7.887	7.917	VV	547	6808	0.10%	0.018%
112	7.933	7.917	7.951	VV	2772	31526	0.44%	0.083%
113	7.960	7.951	7.975	VV	736	8864	0.12%	0.023%
114	7.983	7.975	7.985	VV	520	2756	0.04%	0.007%
115	7.995	7.985	8.008	VV	718	7714	0.11%	0.020%
116	8.027	8.008	8.044	VV	1417	22617	0.32%	0.060%
117	8.049	8.044	8.068	VV	1193	12631	0.18%	0.033%
118	8.077	8.068	8.102	VV	912	12502	0.18%	0.033%
119	8.125	8.102	8.147	VV	1124	16366	0.23%	0.043%
120	8.163	8.147	8.185	VV	1322	14297	0.20%	0.038%
121	8.217	8.185	8.270	PV	441007	4583799	64.50%	12.100%
122	8.274	8.270	8.331	VV	3964	85673	1.21%	0.226%
123	8.343	8.331	8.370	VV	1521	32225	0.45%	0.085%
124	8.384	8.370	8.401	VV	1592	26467	0.37%	0.070%
125	8.418	8.401	8.431	VV	1588	23448	0.33%	0.062%
126	8.435	8.431	8.439	VV	1198	5623	0.08%	0.015%
127	8.443	8.439	8.454	VV	1195	9593	0.13%	0.025%
128	8.469	8.454	8.512	VV	1809	41173	0.58%	0.109%
129	8.529	8.512	8.550	VV	805	13371	0.19%	0.035%
130	8.578	8.550	8.609	VV	942	21062	0.30%	0.056%
131	8.616	8.609	8.625	VV	681	5387	0.08%	0.014%
132	8.651	8.625	8.679	VV	66566	674539	9.49%	1.781%
133	8.685	8.679	8.698	VV	2227	22491	0.32%	0.059%
134	8.713	8.698	8.733	VV	2881	40544	0.57%	0.107%
135	8.762	8.733	8.779	VV	3782	65568	0.92%	0.173%
136	8.788	8.779	8.822	VV	2351	31285	0.44%	0.083%
137	8.836	8.822	8.856	VV	1098	13185	0.19%	0.035%
138	8.862	8.856	8.865	VV	271	1117	0.02%	0.003%
139	8.882	8.865	8.914	VV	804	12213	0.17%	0.032%
140	8.921	8.914	8.929	VV	448	3408	0.05%	0.009%
141	8.943	8.929	8.947	VV	444	4170	0.06%	0.011%

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142	8.969	8.947	9.008	VV	1389	21166	0.30%	0.056%
143	9.030	9.008	9.044	PV	619	8116	0.11%	0.021%
144	9.051	9.044	9.073	VV	679	6455	0.09%	0.017%
145	9.077	9.073	9.083	VV	271	1132	0.02%	0.003%
146	9.110	9.090	9.164	VV	1668	26811	0.38%	0.071%
147	9.188	9.164	9.230	VV	727	15253	0.21%	0.040%
148	9.250	9.230	9.264	VV	981	10723	0.15%	0.028%
149	9.309	9.277	9.324	VV	535	7861	0.11%	0.021%
150	9.351	9.324	9.360	VV	2596	29350	0.41%	0.077%
151	9.378	9.360	9.430	VV	17934	244527	3.44%	0.645%
152	9.441	9.430	9.500	VV	1042	24737	0.35%	0.065%
153	9.520	9.500	9.559	VV	2053	27148	0.38%	0.072%
154	9.596	9.559	9.652	VV	810	26715	0.38%	0.071%
155	9.666	9.652	9.671	VV	433	3641	0.05%	0.010%
156	9.675	9.671	9.680	VV	306	1368	0.02%	0.004%
157	9.691	9.680	9.700	VV	396	3540	0.05%	0.009%
158	9.720	9.700	9.758	VV	5506	67531	0.95%	0.178%
159	9.774	9.758	9.779	VV	270	1848	0.03%	0.005%
160	9.792	9.779	9.804	VV	397	3670	0.05%	0.010%
161	9.835	9.804	9.853	VV	888	13616	0.19%	0.036%
162	9.866	9.853	9.873	VV	586	5778	0.08%	0.015%
163	9.879	9.873	9.882	VV	553	2528	0.04%	0.007%
164	9.890	9.882	9.896	VV	688	4887	0.07%	0.013%
165	9.916	9.896	9.927	VV	846	12532	0.18%	0.033%
166	9.945	9.927	9.968	VV	893	15605	0.22%	0.041%
167	9.973	9.968	9.978	VV	417	2374	0.03%	0.006%
168	9.998	9.978	10.008	VV	561	8324	0.12%	0.022%
169	10.023	10.008	10.050	VV	1131	13966	0.20%	0.037%
170	10.063	10.050	10.092	VV	502	9041	0.13%	0.024%
171	10.134	10.092	10.171	VV	994	31783	0.45%	0.084%
172	10.204	10.171	10.240	VV	886	23798	0.33%	0.063%
173	10.255	10.240	10.287	VV	1415	22152	0.31%	0.058%
174	10.308	10.287	10.323	VV	1007	13580	0.19%	0.036%
175	10.338	10.323	10.355	VV	852	12472	0.18%	0.033%
176	10.380	10.355	10.401	VV	1774	27676	0.39%	0.073%
177	10.413	10.401	10.417	VV	318	2293	0.03%	0.006%
178	10.428	10.417	10.443	VV	571	6468	0.09%	0.017%
179	10.489	10.443	10.527	VV	1936	48130	0.68%	0.127%
180	10.541	10.527	10.556	VV	1053	14887	0.21%	0.039%
181	10.572	10.556	10.608	VV	1081	22659	0.32%	0.060%
182	10.615	10.608	10.621	VV	496	3533	0.05%	0.009%
183	10.625	10.621	10.640	VV	480	3934	0.06%	0.010%
184	10.659	10.640	10.663	VV	657	6474	0.09%	0.017%
185	10.678	10.663	10.695	VV	948	12612	0.18%	0.033%
186	10.703	10.695	10.721	VV	640	7407	0.10%	0.020%
187	10.725	10.721	10.730	VV	232	1183	0.02%	0.003%
188	10.747	10.730	10.792	VV	467	9352	0.13%	0.025%
189	10.808	10.803	10.824	VV	281	1773	0.02%	0.005%
190	10.834	10.824	10.841	PV	257	1503	0.02%	0.004%
191	10.852	10.848	10.869	VV	225	1529	0.02%	0.004%
192	10.888	10.869	10.917	VV	764	11882	0.17%	0.031%
193	10.954	10.917	10.978	VV	1769	25653	0.36%	0.068%
194	10.984	10.978	10.990	VV	328	1695	0.02%	0.004%

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195	11.000	10.990	11.014	VV	524	6040	0.08%	0.016%
196	11.032	11.014	11.054	VV	1144	17002	0.24%	0.045%
197	11.060	11.054	11.078	VV	420	3283	0.05%	0.009%
198	11.103	11.078	11.129	PV	755	10911	0.15%	0.029%
199	11.142	11.129	11.167	VV	474	6126	0.09%	0.016%
200	11.190	11.167	11.215	VV	664	10280	0.14%	0.027%
201	11.252	11.215	11.308	VV	518002	5633390	79.26%	14.870%
202	11.341	11.308	11.362	VV	1076	26740	0.38%	0.071%
203	11.371	11.362	11.382	VV	716	6982	0.10%	0.018%
204	11.402	11.382	11.408	VV	851	11760	0.17%	0.031%
205	11.419	11.408	11.450	VV	1490	19481	0.27%	0.051%
206	11.467	11.450	11.484	VV	478	6022	0.08%	0.016%
207	11.496	11.484	11.501	PV	222	1163	0.02%	0.003%
208	11.522	11.501	11.533	VV	270	3015	0.04%	0.008%
209	11.609	11.533	11.642	VV	959	33078	0.47%	0.087%
210	11.671	11.642	11.692	VV	9979	118111	1.66%	0.312%
211	11.706	11.692	11.727	VV	1538	19006	0.27%	0.050%
212	11.753	11.727	11.760	VV	511	5531	0.08%	0.015%
213	11.766	11.760	11.794	VV	556	7178	0.10%	0.019%
214	11.824	11.794	11.843	VV	1263	24322	0.34%	0.064%
215	11.872	11.843	11.938	VV	77720	933095	13.13%	2.463%
216	11.944	11.938	11.975	VV	844	12882	0.18%	0.034%
217	11.980	11.975	11.985	VV	442	2376	0.03%	0.006%
218	11.996	11.985	12.004	VV	523	5200	0.07%	0.014%
219	12.026	12.004	12.044	VV	720	11372	0.16%	0.030%
220	12.096	12.044	12.100	VV	949	19104	0.27%	0.050%
221	12.121	12.100	12.149	VV	5186	72040	1.01%	0.190%
222	12.155	12.149	12.169	VV	669	7180	0.10%	0.019%
223	12.195	12.169	12.227	VV	1479	29242	0.41%	0.077%
224	12.253	12.227	12.270	VV	2038	28052	0.39%	0.074%
225	12.288	12.270	12.308	VV	4532	60040	0.84%	0.158%
226	12.316	12.308	12.357	VV	2055	27745	0.39%	0.073%
227	12.396	12.357	12.409	VV	420	9597	0.14%	0.025%
228	12.417	12.409	12.422	VV	309	1635	0.02%	0.004%
229	12.426	12.422	12.434	VV	320	1686	0.02%	0.004%
230	12.438	12.434	12.450	VV	255	1316	0.02%	0.003%
231	12.462	12.450	12.467	PV	352	1783	0.03%	0.005%
232	12.473	12.467	12.486	VV	270	2084	0.03%	0.006%
233	12.502	12.486	12.519	VV	730	8837	0.12%	0.023%
234	12.525	12.519	12.539	VV	501	4502	0.06%	0.012%
235	12.548	12.539	12.558	VV	524	3927	0.06%	0.010%
236	12.579	12.558	12.624	VV	5183	72530	1.02%	0.191%
237	12.692	12.624	12.725	VV	106258	1255933	17.67%	3.315%
238	12.734	12.725	12.756	VV	887	12367	0.17%	0.033%
239	12.768	12.756	12.804	VV	680	13205	0.19%	0.035%
240	12.809	12.804	12.819	VV	295	2028	0.03%	0.005%
241	12.822	12.819	12.828	VV	320	1294	0.02%	0.003%
242	12.878	12.835	12.893	VV	1168	26935	0.38%	0.071%
243	12.918	12.893	12.952	VV	6840	119234	1.68%	0.315%
244	12.966	12.952	13.000	VV	2361	51030	0.72%	0.135%
245	13.059	13.000	13.065	VV	3055	78934	1.11%	0.208%
246	13.092	13.065	13.137	VV	30055	395708	5.57%	1.045%

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247	13.144	13.137	13.172	VV	1832	32844	0.46%	0.087%
248	13.177	13.172	13.229	VV	1454	29032	0.41%	0.077%
249	13.243	13.229	13.251	VV	721	8569	0.12%	0.023%
250	13.264	13.251	13.277	VV	1005	12265	0.17%	0.032%
251	13.281	13.277	13.302	VV	890	11391	0.16%	0.030%
252	13.316	13.302	13.334	VV	1136	16147	0.23%	0.043%
253	13.341	13.334	13.375	VV	707	12734	0.18%	0.034%
254	13.393	13.375	13.415	VV	1107	18225	0.26%	0.048%
255	13.442	13.415	13.473	VV	2129	38192	0.54%	0.101%
256	13.482	13.473	13.514	VV	612	9504	0.13%	0.025%
257	13.520	13.514	13.535	VV	191	1760	0.02%	0.005%
258	13.547	13.535	13.564	VV	276	2505	0.04%	0.007%
259	13.594	13.564	13.607	VV	305	3914	0.06%	0.010%
260	13.612	13.607	13.626	VV	352	2240	0.03%	0.006%
261	13.639	13.626	13.647	VV	299	2752	0.04%	0.007%
262	13.661	13.647	13.675	VV	559	5259	0.07%	0.014%
263	13.695	13.675	13.704	VV	571	5560	0.08%	0.015%
264	13.713	13.704	13.726	VV	338	3043	0.04%	0.008%
265	13.738	13.726	13.762	VV	207	4031	0.06%	0.011%
266	13.769	13.762	13.774	VV	313	1633	0.02%	0.004%
267	13.788	13.774	13.800	VV	356	3667	0.05%	0.010%
268	13.803	13.800	13.816	VV	281	1470	0.02%	0.004%
269	13.840	13.816	13.849	PV	717	8491	0.12%	0.022%
270	13.878	13.849	13.897	VV	1620	31252	0.44%	0.082%
271	13.904	13.897	13.915	VV	801	7579	0.11%	0.020%
272	13.923	13.915	13.964	VV	806	15926	0.22%	0.042%
273	13.974	13.964	13.982	VV	447	3812	0.05%	0.010%
274	14.005	13.982	14.021	VV	761	12569	0.18%	0.033%
275	14.026	14.021	14.034	VV	452	2768	0.04%	0.007%
276	14.038	14.034	14.049	VV	362	2650	0.04%	0.007%
277	14.057	14.049	14.064	VV	429	3287	0.05%	0.009%
278	14.066	14.064	14.077	VV	509	3486	0.05%	0.009%
279	14.099	14.077	14.119	VV	883	14146	0.20%	0.037%
280	14.142	14.119	14.172	VV	1333	25253	0.36%	0.067%
281	14.177	14.172	14.192	VV	603	5294	0.07%	0.014%
282	14.220	14.192	14.232	VV	785	12430	0.17%	0.033%
283	14.252	14.232	14.272	VV	691	12446	0.18%	0.033%
284	14.283	14.272	14.287	VV	623	4572	0.06%	0.012%
285	14.293	14.287	14.316	VV	832	9231	0.13%	0.024%
286	14.329	14.316	14.335	VV	300	2968	0.04%	0.008%
287	14.343	14.335	14.364	VV	465	5342	0.08%	0.014%
288	14.375	14.364	14.382	VV	553	4436	0.06%	0.012%
289	14.384	14.382	14.397	VV	465	3115	0.04%	0.008%
290	14.402	14.397	14.407	VV	326	1774	0.02%	0.005%
291	14.409	14.407	14.427	VV	329	2499	0.04%	0.007%
292	14.452	14.427	14.472	VV	2221	33895	0.48%	0.089%
293	14.493	14.472	14.524	VV	4655	77044	1.08%	0.203%
294	14.541	14.524	14.566	VV	1596	23381	0.33%	0.062%
295	14.584	14.566	14.597	VV	1006	14152	0.20%	0.037%
296	14.604	14.597	14.628	VV	929	11798	0.17%	0.031%
297	14.652	14.628	14.684	VV	648	10875	0.15%	0.029%
298	14.698	14.684	14.702	VV	341	2313	0.03%	0.006%
299	14.711	14.702	14.739	VV	697	8356	0.12%	0.022%

300	14.752	14.739	14.760	VV	349	3657	0.05%	0.010%
301	14.769	14.760	14.778	VV	479	3660	0.05%	0.010%
302	14.793	14.778	14.802	VV	622	6619	0.09%	0.017%
303	14.806	14.802	14.835	VV	466	6565	0.09%	0.017%
304	14.845	14.835	14.858	VV	393	4533	0.06%	0.012%
305	14.863	14.858	14.875	VV	320	3038	0.04%	0.008%
306	14.919	14.875	14.995	VV	14891	323510	4.55%	0.854%
307	15.002	14.995	15.015	VV	1168	12855	0.18%	0.034%
308	15.017	15.015	15.042	VV	1123	12215	0.17%	0.032%
309	15.069	15.042	15.094	VV	3317	52752	0.74%	0.139%
310	15.121	15.094	15.140	VV	1544	27644	0.39%	0.073%
311	15.157	15.140	15.185	VV	994	21060	0.30%	0.056%
312	15.188	15.185	15.193	VV	716	3000	0.04%	0.008%
313	15.204	15.193	15.213	VV	853	7911	0.11%	0.021%
314	15.257	15.213	15.275	VV	1509	34533	0.49%	0.091%
315	15.281	15.275	15.325	VV	1022	21634	0.30%	0.057%
316	15.362	15.325	15.374	VV	875	21185	0.30%	0.056%
317	15.381	15.374	15.404	VV	906	14618	0.21%	0.039%
318	15.444	15.404	15.469	VV	1614	44852	0.63%	0.118%
319	15.472	15.469	15.497	VV	975	13767	0.19%	0.036%
320	15.520	15.497	15.534	VV	1472	25763	0.36%	0.068%
321	15.558	15.534	15.580	VV	2338	43632	0.61%	0.115%
322	15.586	15.580	15.594	VV	1246	8368	0.12%	0.022%
323	15.615	15.594	15.639	VV	3142	51551	0.73%	0.136%
324	15.646	15.639	15.665	VV	922	13388	0.19%	0.035%
325	15.673	15.665	15.678	VV	974	6167	0.09%	0.016%
326	15.689	15.678	15.696	VV	1013	9575	0.13%	0.025%
327	15.709	15.696	15.744	VV	1247	27948	0.39%	0.074%
328	15.766	15.744	15.784	VV	1390	27705	0.39%	0.073%
329	15.788	15.784	15.798	VV	1218	10385	0.15%	0.027%
330	15.807	15.798	15.835	VV	1435	29068	0.41%	0.077%
331	15.852	15.835	15.857	VV	1407	16867	0.24%	0.045%
332	15.874	15.857	15.882	VV	1669	23089	0.32%	0.061%
333	15.929	15.882	15.975	VV	7831	223853	3.15%	0.591%
334	15.999	15.975	16.017	VV	7651	128792	1.81%	0.340%
335	16.031	16.017	16.067	VV	4631	102221	1.44%	0.270%
336	16.105	16.067	16.145	VV	4138	141718	1.99%	0.374%
337	16.164	16.145	16.197	VV	4205	98941	1.39%	0.261%
338	16.224	16.197	16.240	VV	2878	69216	0.97%	0.183%
339	16.290	16.240	16.304	VV	5275	133015	1.87%	0.351%
340	16.315	16.304	16.350	VV	5538	109209	1.54%	0.288%
341	16.380	16.350	16.407	VV	5532	135473	1.91%	0.358%
342	16.416	16.407	16.447	VV	3812	83395	1.17%	0.220%
343	16.479	16.447	16.494	VV	4758	114959	1.62%	0.303%
344	16.500	16.494	16.518	VV	4554	61628	0.87%	0.163%
345	16.544	16.518	16.553	VV	7541	118304	1.66%	0.312%
346	16.575	16.553	16.635	VV	27821	495550	6.97%	1.308%
347	16.645	16.635	16.655	VV	3836	45351	0.64%	0.120%
348	16.658	16.655	16.663	VV	3673	17618	0.25%	0.047%
349	16.698	16.663	16.717	VV	4167	125942	1.77%	0.332%
350	16.752	16.717	16.764	VV	4410	119499	1.68%	0.315%
351	16.787	16.764	16.799	VV	4458	89100	1.25%	0.235%

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352	16.804	16.799	16.807	VV	4359	21613	0.30%	0.057%
353	16.860	16.807	16.926	VV	49779	1124834	15.83%	2.969%
354	16.947	16.926	16.979	VV	9274	235830	3.32%	0.623%
355	17.030	16.979	17.060	VV	7900	302327	4.25%	0.798%
356	17.085	17.060	17.119	VV	7335	225887	3.18%	0.596%
357	17.153	17.119	17.163	VV	6973	173395	2.44%	0.458%
358	17.167	17.163	17.180	VV	6843	70057	0.99%	0.185%
359	17.198	17.180	17.204	VV	7153	101718	1.43%	0.268%
360	17.220	17.204	17.242	VV	7761	166573	2.34%	0.440%
361	17.283	17.242	17.288	VV	7652	204429	2.88%	0.540%
362	17.316	17.288	17.324	VV	9599	188436	2.65%	0.497%
363	17.343	17.324	17.367	VV	9687	237411	3.34%	0.627%
364	17.378	17.367	17.415	VV	9356	249214	3.51%	0.658%
365	17.420	17.415	17.424	VV	7958	42431	0.60%	0.112%
366	17.433	17.424	17.442	VV	8409	88619	1.25%	0.234%
367	17.469	17.442	17.508	VV	23883	532371	7.49%	1.405%
368	17.555	17.508	17.564	VV	8772	279778	3.94%	0.739%
369	17.567	17.564	17.610	VV	8680	230952	3.25%	0.610%
370	17.658	17.610	17.665	VV	9418	284331	4.00%	0.751%
371	17.672	17.665	17.685	VV	9576	112165	1.58%	0.296%
372	17.691	17.685	17.693	VV	9276	44283	0.62%	0.117%
373	17.738	17.693	17.790	VV	38926	1109644	15.61%	2.929%
374	17.805	17.790	17.834	VV	14212	331081	4.66%	0.874%
375	17.897	17.834	17.923	VV	14040	656732	9.24%	1.734%
376	17.945	17.923	17.965	VV	12150	296866	4.18%	0.784%
377	17.994	17.965	18.020	VV	13781	417138	5.87%	1.101%
378	18.025	18.020	18.030	VV	12191	67918	0.96%	0.179%
379	18.061	18.030	18.085	VV	12821	413333	5.82%	1.091%
380	18.125	18.085	18.136	VV	12806	385020	5.42%	1.016%
381	18.162	18.136	18.200	VBA	14553	536207	7.54%	1.415%
			Sum of corrected areas:			37883852		

Aromatic EPH 102324.M Thu Nov 14 02:56:21 2024

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

Report of Analysis

Client:	BAPS North Bergen	Date Collected:	11/12/24
Project:	BAPS North Bergen	Date Received:	11/12/24
Client Sample ID:	SOIL-2	SDG No.:	P4822
Lab Sample ID:	P4822-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.8
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/13/24 20:52	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.41	U	1	0.41	1.09	mg/kg	FC067743.D
Aliphatic C12-C16	Aliphatic C12-C16	0.37	J	1	0.26	0.73	mg/kg	FC067743.D
Aliphatic C16-C21	Aliphatic C16-C21	0.34	J	1	0.33	1.09	mg/kg	FC067743.D
Aliphatic C21-C28	Aliphatic C21-C28	0.87	U	1	0.87	1.45	mg/kg	FC067743.D
Aliphatic C28-C40	Aliphatic C28-C40	11.5		1	1.96	2.18	mg/kg	FC067743.D
Aromatic C10-C12	Aromatic C10-C12	0.45	J	1	0.33	0.73	mg/kg	FD048724.D
Aromatic C12-C16	Aromatic C12-C16	4.11		1	0.37	1.09	mg/kg	FD048724.D
Aromatic C16-C21	Aromatic C16-C21	2.40		1	1.04	1.81	mg/kg	FD048724.D
Aromatic C21-C36	Aromatic C21-C36	3.54		1	2.18	2.90	mg/kg	FD048724.D
Total AliphaticEPH	Total AliphaticEPH	12.2			3.83	6.54	mg/kg	
Total AromaticEPH	Total AromaticEPH	10.5			3.92	6.53	mg/kg	
Total EPH	Total EPH	22.7			7.75	13.1	mg/kg	

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

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-2		SDG No.:	P4822	
Lab Sample ID:	P4822-03		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	91.8	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067743.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.41	U	0.41	1.09	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.37	J	0.26	0.73	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.34	J	0.33	1.09	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.87	U	0.87	1.45	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.5		1.96	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.9		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4822-03	Acq On:	13 Nov 2024 20:52
Client Sample ID:	SOIL-2	Operator:	YP/AJ
Data file:	FC067743.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.169	6.447	394175	2.91	300	ug/ml
Aliphatic C12-C16	6.448	9.836	670276	5.09	200	ug/ml
Aliphatic C16-C21	9.837	13.192	597908	4.699	300	ug/ml
Aliphatic C21-C28	13.193	16.845	902161	7.512	400	ug/ml
Aliphatic C28-C40	16.846	21.681	15993949	158.21	600	ug/ml
Aliphatic EPH	3.169	21.681	18558469	178.421		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.927	12.927	5060163	46.86		ug/ml
Aliphatic C9-C28	3.169	16.845	2564520	20.211	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067743.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 20:52
Operator : YP/AJ
Sample : P4822-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
SOIL-2

Integration File: autoint1.e
Quant Time: Nov 14 01:18:56 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			
12) S 1-chlorooctadecane (S...	12.927	5060163	46.858 ug/ml
Spiked Amount 50.000		Recovery = 93.72%	
Target Compounds			

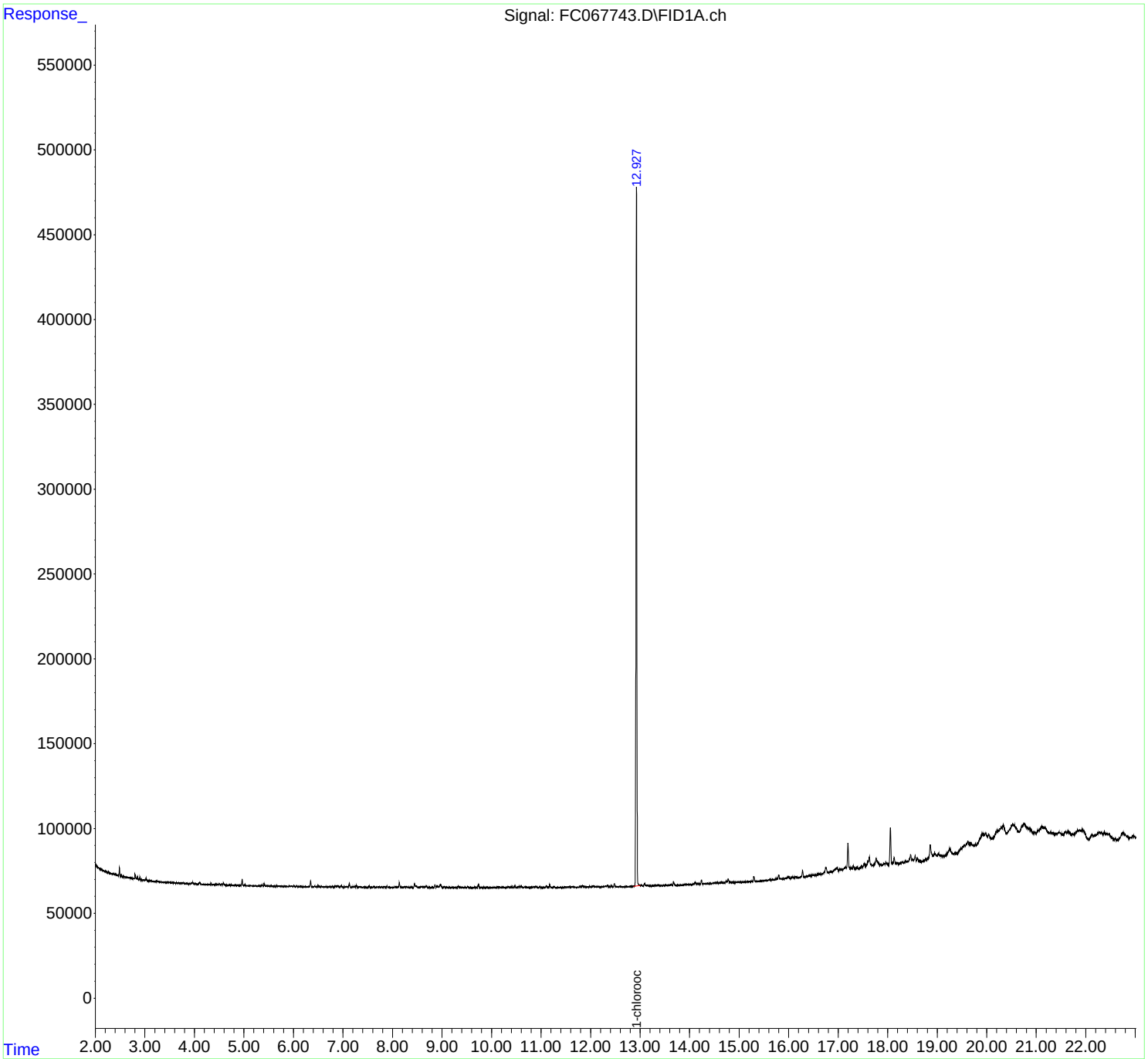
(f)=RT Delta > 1/2 Window (m)=manual int.

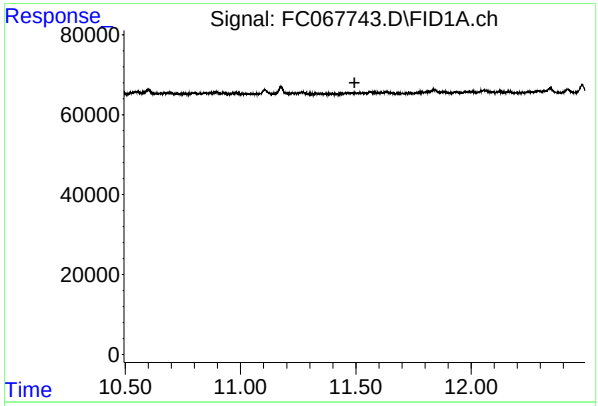
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067743.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 20:52
Operator : YP/AJ
Sample : P4822-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
SOIL-2

Integration File: autoint1.e
Quant Time: Nov 14 01:18:56 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

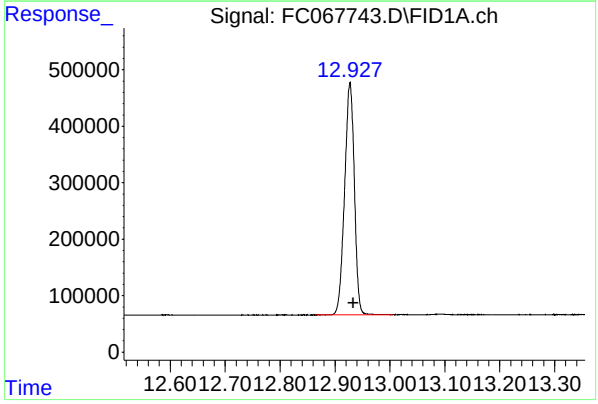




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
SOIL-2



#12 1-chlorooctadecane (SURR)

R.T.: 12.927 min
Delta R.T.: -0.006 min
Response: 5060163
Conc: 46.86 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067743.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 20:52
Sample : P4822-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

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	3.269	3.255	3.311	BV	240	1958	0.04%	0.008%
2	3.317	3.311	3.344	VV	89	1086	0.02%	0.004%
3	3.357	3.344	3.401	PV	197	3023	0.06%	0.012%
4	3.408	3.401	3.432	VV	98	1181	0.02%	0.005%
5	3.446	3.432	3.471	VV	147	1619	0.03%	0.007%
6	3.476	3.471	3.512	VV	129	1461	0.03%	0.006%
7	3.530	3.512	3.561	VV	173	2893	0.06%	0.012%
8	3.573	3.561	3.628	VV	188	4692	0.09%	0.019%
9	3.638	3.628	3.735	VV	184	4717	0.09%	0.019%
10	3.761	3.735	3.798	PV	322	6002	0.12%	0.024%
11	3.806	3.798	3.831	VV	191	2398	0.05%	0.010%
12	3.844	3.831	3.888	VV	278	4813	0.09%	0.020%
13	3.898	3.888	3.908	PV	127	1228	0.02%	0.005%
14	3.936	3.908	3.948	VV	488	6521	0.13%	0.027%
15	3.963	3.948	4.015	VV	997	12303	0.24%	0.050%
16	4.028	4.015	4.060	VV	196	2323	0.05%	0.009%
17	4.107	4.060	4.239	PV	802	19896	0.39%	0.081%
18	4.267	4.239	4.308	VV	205	3405	0.07%	0.014%
19	4.334	4.308	4.361	PV	773	8944	0.17%	0.036%
20	4.376	4.361	4.419	VV	307	5789	0.11%	0.024%
21	4.438	4.419	4.468	VV	413	6868	0.13%	0.028%
22	4.501	4.468	4.521	VV	1101	14138	0.28%	0.058%
23	4.535	4.521	4.545	VV	273	2946	0.06%	0.012%
24	4.557	4.545	4.570	VV	778	7621	0.15%	0.031%
25	4.586	4.570	4.629	VV	1554	16161	0.32%	0.066%
26	4.639	4.629	4.675	VV	125	1980	0.04%	0.008%
27	4.681	4.675	4.691	VV	118	1160	0.02%	0.005%
28	4.706	4.691	4.726	VV	242	3427	0.07%	0.014%
29	4.738	4.726	4.763	VV	118	2195	0.04%	0.009%
30	4.775	4.763	4.835	VV	171	3724	0.07%	0.015%
31	4.888	4.835	4.916	PV	314	5838	0.11%	0.024%
32	4.965	4.916	4.998	VV	3842	47932	0.94%	0.195%
33	5.022	4.998	5.062	VV	744	11084	0.22%	0.045%
34	5.074	5.062	5.117	VV	119	2095	0.04%	0.009%
35	5.127	5.117	5.146	PV	139	1513	0.03%	0.006%
36	5.158	5.146	5.176	VV	257	2928	0.06%	0.012%

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37	5.188	5.176	5.225	VV	193	3375	0.07%	0.014%
38	5.242	5.225	5.298	VV	182	5430	0.11%	0.022%
39	5.332	5.298	5.347	VV	233	3855	0.08%	0.016%
40	5.368	5.347	5.388	VV	834	10334	0.20%	0.042%
41	5.408	5.388	5.446	VV	1345	18007	0.35%	0.073%
42	5.465	5.446	5.521	VV	406	6237	0.12%	0.025%
43	5.529	5.521	5.535	VV	144	1008	0.02%	0.004%
44	5.550	5.535	5.604	VV	343	5256	0.10%	0.021%
45	5.614	5.604	5.631	VV	99	871	0.02%	0.004%
46	5.653	5.631	5.691	PV	233	4173	0.08%	0.017%
47	5.701	5.691	5.763	PV	189	4854	0.09%	0.020%
48	5.773	5.763	5.785	VV	150	1389	0.03%	0.006%
49	5.822	5.785	5.851	VV	184	3843	0.08%	0.016%
50	5.868	5.851	5.878	PV	188	2306	0.05%	0.009%
51	5.916	5.878	5.955	VV	418	10166	0.20%	0.041%
52	5.963	5.955	5.986	VV	297	4066	0.08%	0.017%
53	6.007	5.986	6.038	VV	679	8632	0.17%	0.035%
54	6.068	6.038	6.113	VV	347	6991	0.14%	0.028%
55	6.140	6.113	6.181	VV	316	6873	0.13%	0.028%
56	6.195	6.181	6.217	VV	121	2197	0.04%	0.009%
57	6.232	6.217	6.321	VV	179	5158	0.10%	0.021%
58	6.348	6.321	6.410	VV	3661	43836	0.86%	0.179%
59	6.431	6.410	6.451	VV	664	7456	0.15%	0.030%
60	6.464	6.451	6.481	VV	433	4774	0.09%	0.019%
61	6.496	6.481	6.515	VV	1029	11400	0.22%	0.046%
62	6.529	6.515	6.548	VV	419	4125	0.08%	0.017%
63	6.568	6.548	6.611	VV	609	7415	0.14%	0.030%
64	6.618	6.611	6.632	VV	147	1247	0.02%	0.005%
65	6.668	6.632	6.691	VV	198	3634	0.07%	0.015%
66	6.715	6.691	6.760	VV	203	5387	0.11%	0.022%
67	6.789	6.760	6.816	VV	652	8263	0.16%	0.034%
68	6.841	6.816	6.874	PV	751	13674	0.27%	0.056%
69	6.891	6.874	6.938	VV	729	16385	0.32%	0.067%
70	6.967	6.938	6.992	VV	1060	17267	0.34%	0.070%
71	7.001	6.992	7.030	VV	236	3049	0.06%	0.012%
72	7.048	7.030	7.088	VV	303	7385	0.14%	0.030%
73	7.129	7.088	7.161	VV	2604	31122	0.61%	0.127%
74	7.203	7.161	7.218	VV	413	8528	0.17%	0.035%
75	7.236	7.218	7.247	VV	464	5919	0.12%	0.024%
76	7.269	7.247	7.314	VV	1262	19413	0.38%	0.079%
77	7.332	7.314	7.348	VV	445	6040	0.12%	0.025%
78	7.359	7.348	7.413	VV	503	8717	0.17%	0.036%
79	7.434	7.413	7.465	VV	221	3253	0.06%	0.013%
80	7.475	7.465	7.502	PV	122	1704	0.03%	0.007%
81	7.530	7.502	7.581	VV	913	12843	0.25%	0.052%
82	7.620	7.581	7.654	VV	245	6300	0.12%	0.026%
83	7.691	7.654	7.710	VV	325	6996	0.14%	0.029%
84	7.721	7.710	7.737	VV	286	3592	0.07%	0.015%
85	7.749	7.737	7.770	VV	241	3652	0.07%	0.015%
86	7.790	7.770	7.813	VV	278	3925	0.08%	0.016%
87	7.835	7.813	7.865	PV	770	8915	0.17%	0.036%
88	7.891	7.865	7.915	VV	771	10552	0.21%	0.043%
89	7.927	7.915	7.947	VV	237	2937	0.06%	0.012%

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90	7.961	7.947	7.981	VV	230	2809	0.05%	0.011%
91	7.989	7.981	7.998	VV	183	1322	0.03%	0.005%
92	8.012	7.998	8.028	VV	191	2307	0.05%	0.009%
93	8.047	8.028	8.105	VV	393	9951	0.19%	0.041%
94	8.139	8.105	8.213	VV	2967	44359	0.87%	0.181%
95	8.237	8.213	8.311	VV	513	19261	0.38%	0.078%
96	8.329	8.311	8.351	VV	360	4275	0.08%	0.017%
97	8.372	8.351	8.418	VV	511	7317	0.14%	0.030%
98	8.445	8.418	8.544	VV	2252	54134	1.06%	0.221%
99	8.596	8.544	8.613	VV	528	16327	0.32%	0.067%
100	8.627	8.613	8.641	VV	450	6147	0.12%	0.025%
101	8.679	8.641	8.721	VV	945	23455	0.46%	0.096%
102	8.736	8.721	8.771	VV	357	4720	0.09%	0.019%
103	8.792	8.771	8.809	PV	296	4218	0.08%	0.017%
104	8.859	8.809	8.879	VV	1806	25391	0.50%	0.103%
105	8.895	8.879	8.909	VV	950	12037	0.24%	0.049%
106	8.916	8.909	8.941	VV	676	10120	0.20%	0.041%
107	8.974	8.941	9.025	VV	2011	43710	0.85%	0.178%
108	9.047	9.025	9.071	VV	534	6926	0.14%	0.028%
109	9.094	9.071	9.123	VV	372	4742	0.09%	0.019%
110	9.147	9.123	9.164	VV	204	3360	0.07%	0.014%
111	9.178	9.164	9.189	VV	229	2743	0.05%	0.011%
112	9.195	9.189	9.228	VV	195	3098	0.06%	0.013%
113	9.260	9.228	9.303	VV	442	10432	0.20%	0.043%
114	9.325	9.303	9.364	VV	990	15783	0.31%	0.064%
115	9.376	9.364	9.408	VV	282	5693	0.11%	0.023%
116	9.419	9.408	9.441	VV	242	3219	0.06%	0.013%
117	9.462	9.441	9.496	VV	482	8003	0.16%	0.033%
118	9.515	9.496	9.556	VV	582	8835	0.17%	0.036%
119	9.575	9.556	9.601	VV	194	3610	0.07%	0.015%
120	9.606	9.601	9.628	VV	172	1156	0.02%	0.005%
121	9.656	9.628	9.700	PV	436	8333	0.16%	0.034%
122	9.737	9.700	9.786	VV	2159	30982	0.61%	0.126%
123	9.815	9.786	9.871	VV	366	13088	0.26%	0.053%
124	9.883	9.871	9.935	VV	301	6319	0.12%	0.026%
125	9.972	9.935	9.988	PV	224	3260	0.06%	0.013%
126	10.013	9.988	10.035	VV	280	4881	0.10%	0.020%
127	10.055	10.035	10.071	VV	396	6215	0.12%	0.025%
128	10.080	10.071	10.097	VV	312	3747	0.07%	0.015%
129	10.127	10.097	10.148	VV	610	12924	0.25%	0.053%
130	10.167	10.148	10.186	VV	491	8694	0.17%	0.035%
131	10.215	10.186	10.252	VV	450	11794	0.23%	0.048%
132	10.266	10.252	10.298	VV	222	5501	0.11%	0.022%
133	10.338	10.298	10.355	VV	534	12058	0.24%	0.049%
134	10.361	10.355	10.388	VV	487	7770	0.15%	0.032%
135	10.408	10.388	10.438	VV	526	11477	0.22%	0.047%
136	10.472	10.438	10.507	VV	1171	23566	0.46%	0.096%
137	10.553	10.507	10.574	VV	707	18762	0.37%	0.076%
138	10.600	10.574	10.635	VV	1132	21594	0.42%	0.088%
139	10.691	10.635	10.743	VV	362	15947	0.31%	0.065%
140	10.752	10.743	10.773	VV	229	3075	0.06%	0.013%
141	10.798	10.773	10.831	VV	381	8945	0.17%	0.036%

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142	10.897	10.831	10.914	VV	599	18030	0.35%	0.073%
143	10.924	10.914	10.950	VV	341	4809	0.09%	0.020%
144	10.978	10.950	11.070	VV	417	12746	0.25%	0.052%
145	11.105	11.070	11.136	VV	1207	18809	0.37%	0.077%
146	11.175	11.136	11.215	VV	1897	29152	0.57%	0.119%
147	11.268	11.215	11.313	VV	557	15081	0.29%	0.061%
148	11.332	11.313	11.342	PV	235	2571	0.05%	0.010%
149	11.351	11.342	11.365	VV	218	1764	0.03%	0.007%
150	11.369	11.365	11.376	VV	98	542	0.01%	0.002%
151	11.401	11.376	11.435	VV	129	2380	0.05%	0.010%
152	11.471	11.435	11.491	VV	298	6683	0.13%	0.027%
153	11.498	11.491	11.510	VV	328	2982	0.06%	0.012%
154	11.563	11.510	11.592	VV	575	14816	0.29%	0.060%
155	11.629	11.592	11.672	VV	504	14462	0.28%	0.059%
156	11.693	11.672	11.715	VV	183	2344	0.05%	0.010%
157	11.729	11.715	11.741	VV	153	1923	0.04%	0.008%
158	11.779	11.741	11.793	VV	385	8019	0.16%	0.033%
159	11.839	11.793	11.866	VV	1037	25122	0.49%	0.102%
160	11.884	11.866	11.918	VV	403	8566	0.17%	0.035%
161	11.931	11.918	11.959	VV	326	6294	0.12%	0.026%
162	11.975	11.959	11.985	VV	384	4886	0.10%	0.020%
163	11.994	11.985	12.021	VV	348	6453	0.13%	0.026%
164	12.058	12.021	12.104	VV	801	22215	0.43%	0.091%
165	12.123	12.104	12.147	VV	486	8434	0.16%	0.034%
166	12.162	12.147	12.191	VV	401	6337	0.12%	0.026%
167	12.252	12.191	12.271	VV	355	9502	0.19%	0.039%
168	12.294	12.271	12.305	VV	532	8581	0.17%	0.035%
169	12.344	12.305	12.390	VV	1310	25624	0.50%	0.104%
170	12.418	12.390	12.450	VV	925	13959	0.27%	0.057%
171	12.481	12.450	12.535	VV	2037	30205	0.59%	0.123%
172	12.541	12.535	12.564	VV	182	2595	0.05%	0.011%
173	12.594	12.564	12.684	VV	469	12451	0.24%	0.051%
174	12.695	12.684	12.710	VV	142	1079	0.02%	0.004%
175	12.738	12.710	12.787	PV	297	9423	0.18%	0.038%
176	12.806	12.787	12.819	VV	263	3962	0.08%	0.016%
177	12.845	12.819	12.854	VV	252	3490	0.07%	0.014%
178	12.927	12.854	13.060	VV	410826	5114860	100.00%	20.844%
179	13.092	13.060	13.120	VV	1524	29239	0.57%	0.119%
180	13.145	13.120	13.185	VV	500	15849	0.31%	0.065%
181	13.209	13.185	13.240	VV	257	7318	0.14%	0.030%
182	13.254	13.240	13.278	VV	302	4810	0.09%	0.020%
183	13.312	13.278	13.328	VV	397	8867	0.17%	0.036%
184	13.371	13.328	13.405	VV	488	14136	0.28%	0.058%
185	13.416	13.405	13.446	VV	172	2309	0.05%	0.009%
186	13.522	13.446	13.571	VV	315	11861	0.23%	0.048%
187	13.583	13.571	13.592	VV	206	1433	0.03%	0.006%
188	13.625	13.592	13.648	VV	763	11769	0.23%	0.048%
189	13.677	13.648	13.709	VV	2025	28376	0.55%	0.116%
190	13.718	13.709	13.725	VV	127	1100	0.02%	0.004%
191	13.732	13.725	13.739	VV	169	935	0.02%	0.004%
192	13.745	13.739	13.755	VV	139	530	0.01%	0.002%
193	13.900	13.755	13.925	PV	305	9594	0.19%	0.039%
194	13.938	13.925	13.961	VV	223	3175	0.06%	0.013%

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195	13.984	13.961	14.000	VV	223	3311	0.06%	0.013%
196	14.056	14.000	14.068	VV	173	4789	0.09%	0.020%
197	14.113	14.068	14.157	VV	1399	26512	0.52%	0.108%
198	14.182	14.157	14.212	VV	418	8498	0.17%	0.035%
199	14.240	14.212	14.274	VV	2471	34325	0.67%	0.140%
200	14.297	14.274	14.323	VV	337	7587	0.15%	0.031%
201	14.349	14.323	14.375	VV	287	8026	0.16%	0.033%
202	14.388	14.375	14.454	VV	325	11532	0.23%	0.047%
203	14.493	14.454	14.511	VV	469	11089	0.22%	0.045%
204	14.535	14.511	14.546	VV	501	8340	0.16%	0.034%
205	14.556	14.546	14.568	VV	441	5263	0.10%	0.021%
206	14.588	14.568	14.604	VV	408	7867	0.15%	0.032%
207	14.632	14.604	14.672	VV	422	12767	0.25%	0.052%
208	14.738	14.672	14.757	VV	1053	26402	0.52%	0.108%
209	14.778	14.757	14.807	VV	2415	37545	0.73%	0.153%
210	14.830	14.807	14.865	VV	351	9378	0.18%	0.038%
211	14.871	14.865	14.888	VV	215	2450	0.05%	0.010%
212	14.904	14.888	14.921	VV	262	3924	0.08%	0.016%
213	14.944	14.921	14.960	VV	371	5660	0.11%	0.023%
214	14.979	14.960	14.994	VV	270	4144	0.08%	0.017%
215	15.022	14.994	15.051	VV	295	6231	0.12%	0.025%
216	15.096	15.051	15.105	VV	251	4869	0.10%	0.020%
217	15.116	15.105	15.135	VV	205	2867	0.06%	0.012%
218	15.144	15.135	15.174	VV	209	3960	0.08%	0.016%
219	15.203	15.174	15.231	PV	418	9588	0.19%	0.039%
220	15.244	15.231	15.267	VV	308	5465	0.11%	0.022%
221	15.298	15.267	15.332	VV	3074	44199	0.86%	0.180%
222	15.347	15.332	15.358	VV	232	2763	0.05%	0.011%
223	15.425	15.358	15.449	VV	327	6549	0.13%	0.027%
224	15.459	15.449	15.490	VV	151	3106	0.06%	0.013%
225	15.517	15.490	15.551	PV	411	8074	0.16%	0.033%
226	15.558	15.551	15.567	VV	199	1558	0.03%	0.006%
227	15.618	15.567	15.638	VV	492	12901	0.25%	0.053%
228	15.676	15.638	15.696	VV	443	11591	0.23%	0.047%
229	15.761	15.696	15.772	VV	738	14668	0.29%	0.060%
230	15.798	15.772	15.871	VV	2545	52689	1.03%	0.215%
231	15.881	15.871	15.899	VV	296	4213	0.08%	0.017%
232	15.931	15.899	15.955	VV	469	9729	0.19%	0.040%
233	15.998	15.955	16.026	VV	1191	28634	0.56%	0.117%
234	16.085	16.026	16.110	VV	778	23148	0.45%	0.094%
235	16.134	16.110	16.171	VV	783	19632	0.38%	0.080%
236	16.183	16.171	16.204	VV	354	3922	0.08%	0.016%
237	16.279	16.204	16.311	PV	4069	64843	1.27%	0.264%
238	16.440	16.311	16.465	PV	728	26207	0.51%	0.107%
239	16.485	16.465	16.515	VV	550	10950	0.21%	0.045%
240	16.534	16.515	16.565	VV	420	9141	0.18%	0.037%
241	16.602	16.565	16.642	VV	756	22225	0.43%	0.091%
242	16.751	16.642	16.788	VV	4031	131340	2.57%	0.535%
243	16.794	16.788	16.808	VV	1014	11477	0.22%	0.047%
244	16.864	16.808	16.894	VV	1334	55607	1.09%	0.227%
245	16.933	16.894	16.944	VV	2148	52666	1.03%	0.215%
246	16.973	16.944	17.015	VV	3099	96360	1.88%	0.393%

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247	17.038	17.015	17.059	VV	1990	43313	0.85%	0.177%
248	17.073	17.059	17.098	VV	1773	36404	0.71%	0.148%
249	17.153	17.098	17.165	VV	2731	87692	1.71%	0.357%
250	17.196	17.165	17.245	VV	16491	286922	5.61%	1.169%
251	17.256	17.245	17.275	VV	2073	30855	0.60%	0.126%
252	17.305	17.275	17.341	VV	2716	66653	1.30%	0.272%
253	17.388	17.341	17.408	VV	1559	48159	0.94%	0.196%
254	17.475	17.408	17.496	VV	2145	70985	1.39%	0.289%
255	17.522	17.496	17.555	VV	3393	83618	1.63%	0.341%
256	17.628	17.555	17.715	VV	6914	295952	5.79%	1.206%
257	17.766	17.715	17.845	VV	5345	233287	4.56%	0.951%
258	17.863	17.845	17.895	VV	1718	38471	0.75%	0.157%
259	17.965	17.895	18.012	VV	2245	108946	2.13%	0.444%
260	18.053	18.012	18.087	VV	22044	347299	6.79%	1.415%
261	18.130	18.087	18.154	VV	4794	93368	1.83%	0.380%
262	18.167	18.154	18.184	VV	1425	20381	0.40%	0.083%
263	18.204	18.184	18.221	VV	1305	20262	0.40%	0.083%
264	18.290	18.221	18.323	VV	1291	50599	0.99%	0.206%
265	18.370	18.323	18.395	VV	1524	52410	1.02%	0.214%
266	18.462	18.395	18.491	VV	5021	143228	2.80%	0.584%
267	18.502	18.491	18.524	VV	1971	35375	0.69%	0.144%
268	18.551	18.524	18.581	VV	3860	75580	1.48%	0.308%
269	18.601	18.581	18.648	VV	2471	50784	0.99%	0.207%
270	18.658	18.648	18.678	VV	202	2564	0.05%	0.010%
271	18.685	18.678	18.692	PV	258	1501	0.03%	0.006%
272	18.765	18.692	18.785	VV	1324	35574	0.70%	0.145%
273	18.859	18.785	18.914	VV	9357	287269	5.62%	1.171%
274	18.950	18.914	19.001	VV	3924	161269	3.15%	0.657%
275	19.028	19.001	19.058	VV	3200	91974	1.80%	0.375%
276	19.068	19.058	19.125	VV	2110	74254	1.45%	0.303%
277	19.247	19.125	19.259	VV	5562	230110	4.50%	0.938%
278	19.264	19.259	19.332	VV	5252	133060	2.60%	0.542%
279	19.356	19.332	19.378	VV	2983	65328	1.28%	0.266%
280	19.478	19.378	19.497	VV	4821	232411	4.54%	0.947%
281	19.521	19.497	19.534	VV	5705	114897	2.25%	0.468%
282	19.549	19.534	19.570	VV	6460	131134	2.56%	0.534%
283	19.586	19.570	19.594	VV	7082	95286	1.86%	0.388%
284	19.617	19.594	19.639	VV	8449	200894	3.93%	0.819%
285	19.657	19.639	19.758	VV	7450	442864	8.66%	1.805%
286	19.772	19.758	19.791	VV	6063	113385	2.22%	0.462%
287	19.915	19.791	19.955	VV	11859	886940	17.34%	3.614%
288	19.978	19.955	20.018	VV	11560	408316	7.98%	1.664%
289	20.042	20.018	20.079	VV	10824	351182	6.87%	1.431%
290	20.087	20.079	20.101	VV	8669	107449	2.10%	0.438%
291	20.114	20.101	20.123	VV	8430	107380	2.10%	0.438%
292	20.228	20.123	20.252	VV	12561	835848	16.34%	3.406%
293	20.335	20.252	20.395	VV	15249	1119543	21.89%	4.562%
294	20.404	20.395	20.412	VV	10355	102819	2.01%	0.419%
295	20.535	20.412	20.549	VV	14861	1055255	20.63%	4.300%
296	20.559	20.549	20.665	VV	14106	804594	15.73%	3.279%
297	20.747	20.665	20.829	VV	13961	1229096	24.03%	5.009%
298	20.840	20.829	20.933	VV	11539	636923	12.45%	2.596%
299	20.950	20.933	21.001	VV	8489	330123	6.45%	1.345%

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300	21.118	21.001	21.146	VV	11494	844278	16.51%	3.441%
301	21.154	21.146	21.275	VV	10645	672490	13.15%	2.741%
302	21.307	21.275	21.365	VV	7100	349889	6.84%	1.426%
303	21.375	21.365	21.380	VV	5983	55053	1.08%	0.224%
304	21.391	21.380	21.421	VV	6035	143676	2.81%	0.586%
305	21.461	21.421	21.525	VV	6740	362344	7.08%	1.477%
306	21.580	21.525	21.619	VV	6416	310554	6.07%	1.266%
307	21.648	21.619	21.730	VV	6379	341247	6.67%	1.391%
308	21.742	21.730	21.760	VV	4308	75259	1.47%	0.307%
309	21.845	21.760	21.863	VV	6201	322050	6.30%	1.312%
310	21.875	21.863	21.901	VV	6302	135553	2.65%	0.552%
311	21.911	21.901	21.920	VV	5750	63668	1.24%	0.259%
312	21.932	21.920	22.048	VV	6205	267335	5.23%	1.089%
313	22.058	22.048	22.068	PV	255	1387	0.03%	0.006%

Sum of corrected areas: 24538579

Aliphatic EPH 102324.M Thu Nov 14 04:02:10 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-2		SDG No.:	P4822	
Lab Sample ID:	P4822-03		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	91.8	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048724.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.45	J	0.33	0.73	mg/kg
Aromatic C12-C16	Aromatic C12-C16	4.11		0.37	1.09	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.40		1.04	1.81	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.54		2.18	2.90	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.7		40 - 140	111%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.2		40 - 140	112%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.2		40 - 140	78%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4822-03	Acq On:	13 Nov 2024 20:52
Client Sample ID:	SOIL-2	Operator:	YP/AJ
Data file:	FD048724.D	Misc:	
Instrument:	FID_D	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.089	5.807	1080905	6.134	200	ug/ml
Aromatic C12-C16	5.808	8.412	10044459	56.661	300	ug/ml
Aromatic C16-C21	8.413	12.673	5430237	33.145	500	ug/ml
Aromatic C21-C36	12.674	18.078	7443564	48.742	800	ug/ml
Aromatic EPH	4.089	18.078	23999165	144.682		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	8457342	55.72		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	5519312	56.21		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	6678235	39.21		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048724.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 20:52
Operator : YP/AJ
Sample : P4822-03
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
SOIL-2

Integration File: autoint1.e
Quant Time: Nov 14 01:46:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.368	8457342	55.721 ug/ml
Spiked Amount 50.000		Recovery = 111.44%	
6) S 2-Flurobiphenyl (SURR)	8.218	5519312	56.209 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 112.42%	
11) S ortho-Terphenyl (SURR)	11.253	6678235	39.205 ug/ml
Spiked Amount 50.000		Recovery = 78.41%	
Target Compounds			

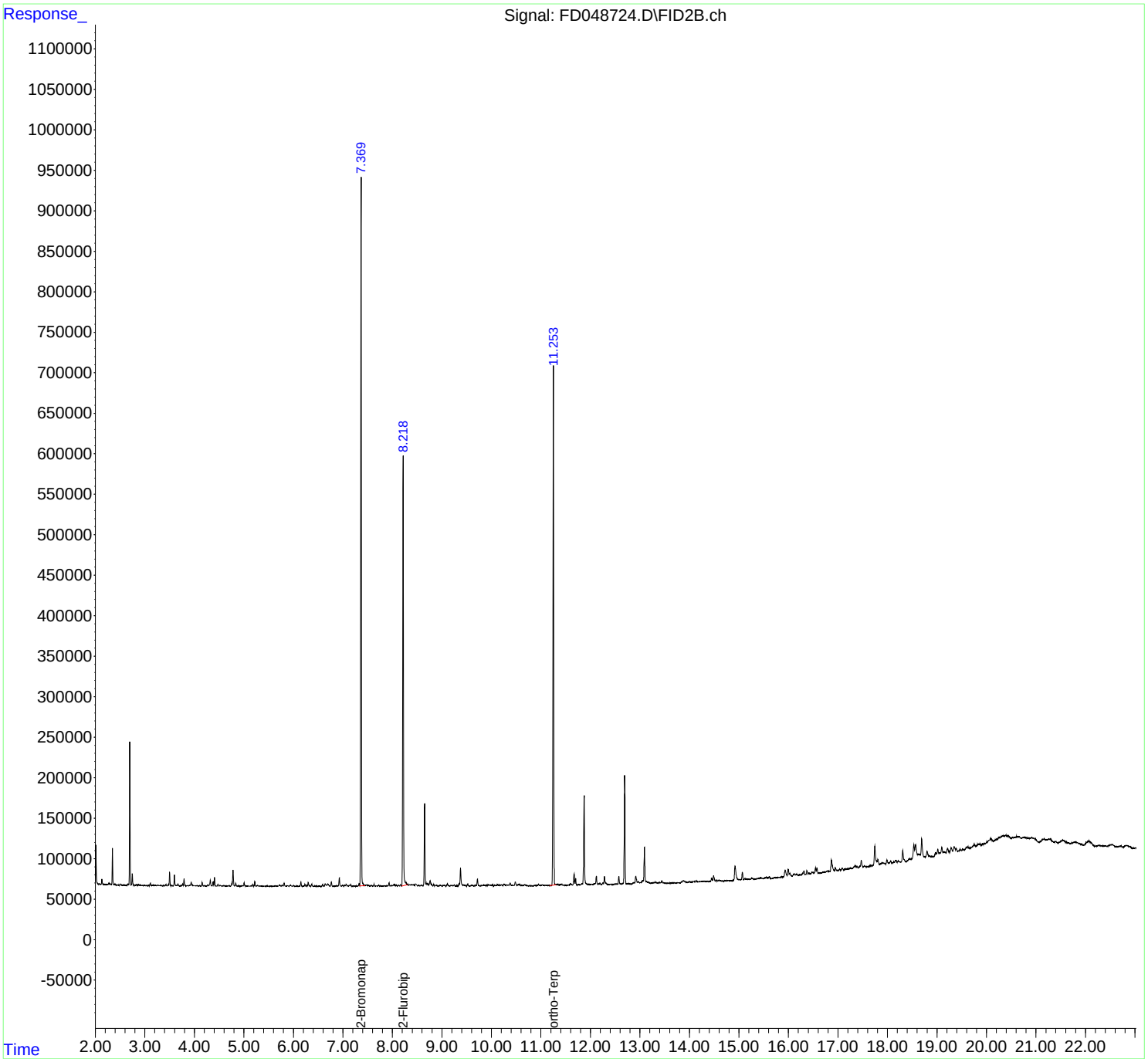
(f)=RT Delta > 1/2 Window (m)=manual int.

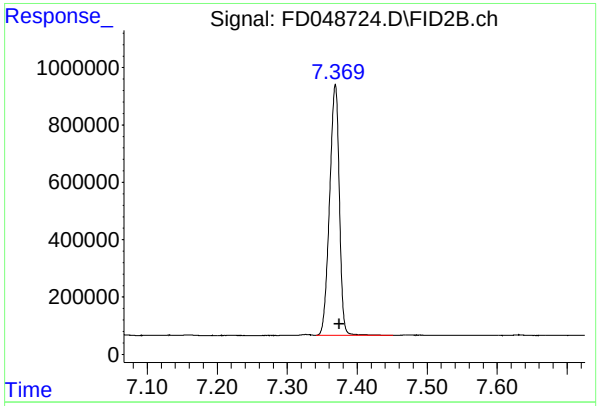
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048724.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 20:52
Operator : YP/AJ
Sample : P4822-03
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
SOIL-2

Integration File: autoint1.e
Quant Time: Nov 14 01:46:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

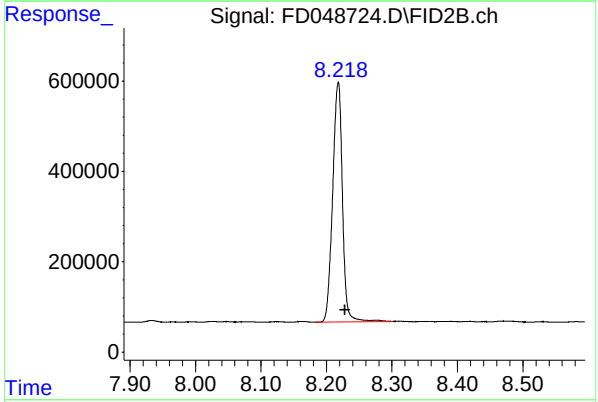




#4 2-Bromonaphthalene (SURR)

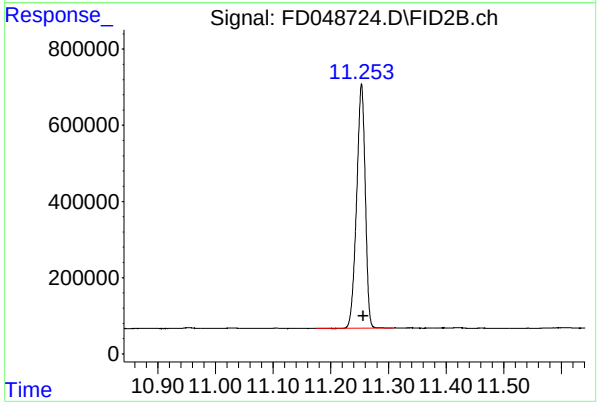
R.T.: 7.368 min
Delta R.T.: -0.006 min
Response: 8457342
Conc: 55.72 ug/ml

Instrument :
FID_D
ClientSampleId :
SOIL-2



#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: -0.010 min
Response: 5519312
Conc: 56.21 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: -0.004 min
Response: 6678235
Conc: 39.21 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048724.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 20:52
Sample : P4822-03
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.059	4.042	4.080	BV	458	2721	0.03%	0.007%
2	4.093	4.080	4.105	PV	426	4512	0.05%	0.012%
3	4.110	4.105	4.129	VV	469	4322	0.05%	0.012%
4	4.158	4.140	4.184	VV	4375	42565	0.50%	0.117%
5	4.196	4.184	4.209	VV	443	3872	0.05%	0.011%
6	4.224	4.209	4.237	PV	273	2175	0.03%	0.006%
7	4.244	4.237	4.249	VV	243	1409	0.02%	0.004%
8	4.270	4.249	4.290	VV	1755	19250	0.23%	0.053%
9	4.322	4.290	4.343	VV	7508	90871	1.07%	0.250%
10	4.351	4.343	4.361	VV	674	6030	0.07%	0.017%
11	4.378	4.361	4.392	VV	5570	53043	0.62%	0.146%
12	4.407	4.392	4.430	VV	10974	100134	1.18%	0.276%
13	4.437	4.430	4.455	VV	299	2364	0.03%	0.007%
14	4.476	4.455	4.499	VV	2503	24848	0.29%	0.068%
15	4.520	4.499	4.557	VV	1209	20195	0.24%	0.056%
16	4.566	4.557	4.573	VV	404	2562	0.03%	0.007%
17	4.595	4.573	4.635	VV	1125	14723	0.17%	0.041%
18	4.650	4.635	4.662	VV	346	3528	0.04%	0.010%
19	4.675	4.671	4.683	VV	355	1009	0.01%	0.003%
20	4.703	4.683	4.727	VV	1093	12526	0.15%	0.034%
21	4.758	4.727	4.765	VV	3595	34047	0.40%	0.094%
22	4.781	4.765	4.812	VV	20330	222065	2.61%	0.611%
23	4.837	4.812	4.879	VV	3745	43824	0.52%	0.121%
24	4.887	4.879	4.932	VV	660	7684	0.09%	0.021%
25	4.948	4.932	4.953	VV	305	2161	0.03%	0.006%
26	4.970	4.953	4.986	VV	1021	12095	0.14%	0.033%
27	5.004	4.986	5.043	VV	4432	56936	0.67%	0.157%
28	5.057	5.043	5.062	VV	541	5263	0.06%	0.014%
29	5.067	5.062	5.077	VV	482	3290	0.04%	0.009%
30	5.082	5.077	5.100	VV	390	3787	0.04%	0.010%
31	5.144	5.100	5.164	VV	862	15581	0.18%	0.043%
32	5.181	5.164	5.202	VV	2703	31326	0.37%	0.086%
33	5.221	5.202	5.239	VV	6112	62259	0.73%	0.171%
34	5.255	5.239	5.265	VV	696	8002	0.09%	0.022%
35	5.277	5.265	5.304	VV	1600	19769	0.23%	0.054%
36	5.318	5.304	5.327	VV	560	5890	0.07%	0.016%

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37	5.346	5.327	5.352	VV	637	6420	0.08%	0.018%
38	5.362	5.352	5.384	VV	594	8544	0.10%	0.024%
39	5.394	5.384	5.403	VV	320	2417	0.03%	0.007%
40	5.423	5.403	5.442	PV	545	6035	0.07%	0.017%
41	5.470	5.442	5.492	VV	1035	12584	0.15%	0.035%
42	5.511	5.492	5.516	VV	405	3769	0.04%	0.010%
43	5.523	5.516	5.529	VV	374	2413	0.03%	0.007%
44	5.537	5.529	5.559	VV	369	4718	0.06%	0.013%
45	5.566	5.559	5.573	VV	222	1436	0.02%	0.004%
46	5.598	5.573	5.604	VV	348	3482	0.04%	0.010%
47	5.617	5.604	5.630	VV	539	6125	0.07%	0.017%
48	5.640	5.630	5.646	VV	488	4098	0.05%	0.011%
49	5.661	5.646	5.680	VV	520	8694	0.10%	0.024%
50	5.688	5.680	5.696	VV	443	3829	0.05%	0.011%
51	5.719	5.696	5.757	VV	1878	38358	0.45%	0.106%
52	5.772	5.757	5.795	VV	1794	24066	0.28%	0.066%
53	5.814	5.795	5.845	VV	4170	48136	0.57%	0.133%
54	5.851	5.845	5.860	VV	481	3646	0.04%	0.010%
55	5.885	5.860	5.915	VV	1060	20639	0.24%	0.057%
56	5.946	5.915	5.968	VV	1748	31913	0.38%	0.088%
57	5.973	5.968	5.985	VV	476	3896	0.05%	0.011%
58	6.005	5.985	6.030	VV	1074	16165	0.19%	0.044%
59	6.053	6.030	6.084	VV	567	10901	0.13%	0.030%
60	6.093	6.084	6.104	PV	172	1264	0.01%	0.003%
61	6.152	6.104	6.174	VV	5402	63029	0.74%	0.174%
62	6.194	6.174	6.200	VV	565	6775	0.08%	0.019%
63	6.208	6.200	6.213	VV	703	4239	0.05%	0.012%
64	6.235	6.213	6.253	VV	2608	29787	0.35%	0.082%
65	6.270	6.253	6.284	VV	1831	17815	0.21%	0.049%
66	6.300	6.284	6.320	VV	5212	56372	0.66%	0.155%
67	6.333	6.320	6.354	VV	1570	16494	0.19%	0.045%
68	6.372	6.354	6.414	VV	2964	35968	0.42%	0.099%
69	6.425	6.414	6.445	VV	595	5346	0.06%	0.015%
70	6.464	6.445	6.494	VV	524	8222	0.10%	0.023%
71	6.518	6.502	6.534	VV	658	7733	0.09%	0.021%
72	6.539	6.534	6.562	VV	332	2899	0.03%	0.008%
73	6.590	6.562	6.615	PV	2753	30625	0.36%	0.084%
74	6.643	6.615	6.659	VV	3452	47905	0.56%	0.132%
75	6.667	6.659	6.678	VV	1728	17685	0.21%	0.049%
76	6.692	6.678	6.700	VV	3055	33408	0.39%	0.092%
77	6.705	6.700	6.738	VV	2590	30689	0.36%	0.084%
78	6.768	6.738	6.798	VV	5531	69181	0.81%	0.190%
79	6.805	6.798	6.824	VV	399	3702	0.04%	0.010%
80	6.843	6.824	6.852	VV	586	7124	0.08%	0.020%
81	6.873	6.852	6.889	VV	1287	14503	0.17%	0.040%
82	6.896	6.889	6.905	VV	570	4308	0.05%	0.012%
83	6.928	6.905	6.959	VV	10708	117350	1.38%	0.323%
84	6.986	6.959	7.020	VV	1388	32021	0.38%	0.088%
85	7.035	7.020	7.048	VV	1854	19866	0.23%	0.055%
86	7.067	7.048	7.087	VV	2544	33860	0.40%	0.093%
87	7.105	7.087	7.115	VV	830	9461	0.11%	0.026%
88	7.131	7.115	7.145	VV	1536	18860	0.22%	0.052%
89	7.160	7.145	7.186	VV	2154	24672	0.29%	0.068%

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90	7.193	7.186	7.197	VV	268	1058	0.01%	0.003%
91	7.223	7.197	7.255	VV	501	10085	0.12%	0.028%
92	7.276	7.255	7.287	PV	420	5406	0.06%	0.015%
93	7.300	7.287	7.307	VV	632	6200	0.07%	0.017%
94	7.327	7.307	7.341	VV	3704	40136	0.47%	0.110%
95	7.369	7.341	7.452	VV	875424	8502819	100.00%	23.406%
96	7.472	7.452	7.513	VV	1794	48121	0.57%	0.132%
97	7.521	7.513	7.540	VV	1082	14569	0.17%	0.040%
98	7.547	7.540	7.566	VV	852	10709	0.13%	0.029%
99	7.571	7.566	7.575	VV	636	2997	0.04%	0.008%
100	7.586	7.575	7.610	VV	1015	13924	0.16%	0.038%
101	7.631	7.610	7.656	VV	2462	29975	0.35%	0.083%
102	7.687	7.656	7.703	VV	608	12927	0.15%	0.036%
103	7.725	7.703	7.773	VV	1138	25779	0.30%	0.071%
104	7.777	7.773	7.786	VV	328	2101	0.02%	0.006%
105	7.797	7.786	7.803	VV	362	2675	0.03%	0.007%
106	7.838	7.803	7.865	VV	899	20259	0.24%	0.056%
107	7.878	7.865	7.899	VV	627	9723	0.11%	0.027%
108	7.933	7.899	7.952	VV	4322	52413	0.62%	0.144%
109	7.965	7.952	7.980	VV	999	12792	0.15%	0.035%
110	7.998	7.980	8.009	VV	1149	14924	0.18%	0.041%
111	8.026	8.009	8.038	VV	2122	24856	0.29%	0.068%
112	8.049	8.038	8.065	VV	1683	20568	0.24%	0.057%
113	8.082	8.065	8.104	VV	1404	20918	0.25%	0.058%
114	8.125	8.104	8.144	VV	1760	22460	0.26%	0.062%
115	8.163	8.144	8.185	VV	2078	25025	0.29%	0.069%
116	8.218	8.185	8.267	VV	534124	5528134	65.02%	15.218%
117	8.278	8.267	8.300	VV	4618	71332	0.84%	0.196%
118	8.313	8.300	8.333	VV	2438	39393	0.46%	0.108%
119	8.356	8.333	8.367	VV	1905	33325	0.39%	0.092%
120	8.389	8.367	8.405	VV	2147	40531	0.48%	0.112%
121	8.419	8.405	8.433	VV	2137	27932	0.33%	0.077%
122	8.440	8.433	8.452	VV	1539	15474	0.18%	0.043%
123	8.469	8.452	8.515	VV	2812	65274	0.77%	0.180%
124	8.531	8.515	8.546	VV	1417	17577	0.21%	0.048%
125	8.555	8.546	8.566	VV	703	7381	0.09%	0.020%
126	8.582	8.566	8.610	VV	1598	25587	0.30%	0.070%
127	8.652	8.610	8.676	VV	102275	1029766	12.11%	2.835%
128	8.684	8.676	8.698	VV	3606	38931	0.46%	0.107%
129	8.710	8.698	8.732	VV	3204	48279	0.57%	0.133%
130	8.763	8.732	8.817	VV	7150	143115	1.68%	0.394%
131	8.835	8.817	8.862	VV	1874	24760	0.29%	0.068%
132	8.883	8.862	8.907	VV	1373	18399	0.22%	0.051%
133	8.914	8.907	8.929	VV	435	4076	0.05%	0.011%
134	8.933	8.929	8.947	VV	441	4222	0.05%	0.012%
135	8.970	8.947	9.008	VV	1433	25038	0.29%	0.069%
136	9.029	9.008	9.039	VV	1166	13544	0.16%	0.037%
137	9.048	9.039	9.084	VV	1060	15829	0.19%	0.044%
138	9.110	9.084	9.153	VV	2852	45470	0.53%	0.125%
139	9.180	9.153	9.192	VV	789	11116	0.13%	0.031%
140	9.196	9.192	9.223	VV	679	8462	0.10%	0.023%
141	9.229	9.223	9.232	VV	298	1309	0.02%	0.004%

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142	9.250	9.232	9.280	VV	1616	19402	0.23%	0.053%
143	9.308	9.280	9.313	VV	829	7410	0.09%	0.020%
144	9.315	9.313	9.327	VV	575	3347	0.04%	0.009%
145	9.351	9.327	9.360	VV	3540	39214	0.46%	0.108%
146	9.378	9.360	9.427	VV	22357	285996	3.36%	0.787%
147	9.438	9.427	9.485	VV	1195	29909	0.35%	0.082%
148	9.492	9.485	9.499	VV	442	2973	0.03%	0.008%
149	9.522	9.499	9.559	VV	2892	38073	0.45%	0.105%
150	9.595	9.566	9.653	VV	1060	30539	0.36%	0.084%
151	9.669	9.653	9.680	VV	796	9138	0.11%	0.025%
152	9.691	9.680	9.699	VV	619	5890	0.07%	0.016%
153	9.719	9.699	9.756	VV	8712	103205	1.21%	0.284%
154	9.764	9.756	9.776	VV	445	4150	0.05%	0.011%
155	9.800	9.776	9.812	VV	813	11062	0.13%	0.030%
156	9.839	9.812	9.857	VV	1388	24058	0.28%	0.066%
157	9.863	9.857	9.874	VV	739	6179	0.07%	0.017%
158	9.891	9.874	9.897	VV	743	8913	0.10%	0.025%
159	9.914	9.897	9.929	VV	1175	16539	0.19%	0.046%
160	9.943	9.929	9.967	VV	1493	26712	0.31%	0.074%
161	9.991	9.967	10.012	VV	1088	24521	0.29%	0.068%
162	10.025	10.012	10.044	VV	1630	18003	0.21%	0.050%
163	10.061	10.044	10.073	VV	694	8279	0.10%	0.023%
164	10.077	10.073	10.088	VV	655	4919	0.06%	0.014%
165	10.119	10.088	10.131	VV	1488	26594	0.31%	0.073%
166	10.138	10.131	10.145	VV	1282	10702	0.13%	0.029%
167	10.149	10.145	10.172	VV	1258	14341	0.17%	0.039%
168	10.201	10.172	10.219	VV	1718	34036	0.40%	0.094%
169	10.223	10.219	10.237	VV	932	9024	0.11%	0.025%
170	10.255	10.237	10.287	VV	2056	38949	0.46%	0.107%
171	10.309	10.287	10.327	VV	1714	25731	0.30%	0.071%
172	10.339	10.327	10.354	VV	1340	17692	0.21%	0.049%
173	10.380	10.354	10.402	VV	3782	59965	0.71%	0.165%
174	10.427	10.402	10.435	VV	927	14199	0.17%	0.039%
175	10.440	10.435	10.455	VV	757	6904	0.08%	0.019%
176	10.484	10.455	10.525	VV	5284	86422	1.02%	0.238%
177	10.539	10.525	10.553	VV	1801	22961	0.27%	0.063%
178	10.569	10.553	10.606	VV	2104	40243	0.47%	0.111%
179	10.618	10.606	10.632	VV	578	7835	0.09%	0.022%
180	10.646	10.632	10.654	VV	784	7354	0.09%	0.020%
181	10.676	10.654	10.694	VV	1763	26510	0.31%	0.073%
182	10.708	10.694	10.729	VV	766	9982	0.12%	0.027%
183	10.744	10.729	10.774	VV	359	6376	0.07%	0.018%
184	10.780	10.774	10.794	PV	122	1267	0.01%	0.003%
185	10.820	10.794	10.850	VV	352	7447	0.09%	0.020%
186	10.882	10.850	10.909	VV	897	13950	0.16%	0.038%
187	10.925	10.909	10.934	VV	606	5570	0.07%	0.015%
188	10.954	10.934	10.977	VV	2321	28917	0.34%	0.080%
189	11.000	10.977	11.010	VV	747	9943	0.12%	0.027%
190	11.030	11.010	11.064	VV	1513	25904	0.30%	0.071%
191	11.073	11.064	11.089	VV	488	5434	0.06%	0.015%
192	11.106	11.089	11.125	VV	1118	13244	0.16%	0.036%
193	11.142	11.125	11.164	VV	781	10511	0.12%	0.029%
194	11.185	11.164	11.207	VV	430	8016	0.09%	0.022%

195	11.253	11.207	11.307	PV	642648	6739292	79.26%	18.552%
196	11.313	11.307	11.329	VV	1701	19688	0.23%	0.054%
197	11.339	11.329	11.360	VV	1690	25214	0.30%	0.069%
198	11.373	11.360	11.380	VV	1179	11723	0.14%	0.032%
199	11.395	11.380	11.405	VV	1568	19855	0.23%	0.055%
200	11.421	11.405	11.444	VV	2107	29958	0.35%	0.082%
201	11.463	11.444	11.487	VV	861	12995	0.15%	0.036%
202	11.542	11.487	11.557	VV	557	12459	0.15%	0.034%
203	11.607	11.557	11.632	VV	1834	49300	0.58%	0.136%
204	11.671	11.632	11.688	VV	14043	168033	1.98%	0.463%
205	11.702	11.688	11.735	VV	8277	96518	1.14%	0.266%
206	11.753	11.735	11.765	VV	888	12284	0.14%	0.034%
207	11.774	11.765	11.797	VV	884	12342	0.15%	0.034%
208	11.831	11.797	11.844	VV	2308	37979	0.45%	0.105%
209	11.875	11.844	11.968	VV	110795	1366757	16.07%	3.762%
210	11.987	11.968	12.005	VV	925	15709	0.18%	0.043%
211	12.020	12.005	12.047	VV	1122	21103	0.25%	0.058%
212	12.069	12.047	12.074	VV	1129	13719	0.16%	0.038%
213	12.121	12.074	12.151	VV	10627	164100	1.93%	0.452%
214	12.193	12.151	12.222	VV	2227	52324	0.62%	0.144%
215	12.252	12.222	12.265	VV	2542	33304	0.39%	0.092%
216	12.284	12.265	12.307	VV	10293	129375	1.52%	0.356%
217	12.314	12.307	12.355	VV	2185	29822	0.35%	0.082%
218	12.392	12.355	12.411	VV	647	12061	0.14%	0.033%
219	12.419	12.411	12.444	VV	473	5495	0.06%	0.015%
220	12.466	12.451	12.482	PV	370	3301	0.04%	0.009%
221	12.504	12.482	12.515	VV	641	8624	0.10%	0.024%
222	12.521	12.515	12.531	VV	661	5823	0.07%	0.016%
223	12.535	12.531	12.551	VV	739	7405	0.09%	0.020%
224	12.576	12.551	12.605	VV	10199	119756	1.41%	0.330%
225	12.610	12.605	12.623	VV	719	6206	0.07%	0.017%
226	12.644	12.623	12.647	VV	960	11010	0.13%	0.030%
227	12.692	12.647	12.725	VV	134747	1578637	18.57%	4.346%
228	12.729	12.725	12.731	VV	611	2173	0.03%	0.006%
229	12.739	12.731	12.749	VV	720	6722	0.08%	0.019%
230	12.761	12.749	12.835	VV	872	22715	0.27%	0.063%
231	12.875	12.835	12.894	PV	2078	44098	0.52%	0.121%
232	12.918	12.894	12.949	VV	9519	174271	2.05%	0.480%
233	12.965	12.949	12.996	VV	2877	64053	0.75%	0.176%
234	13.055	12.996	13.067	VV	3847	105793	1.24%	0.291%
235	13.092	13.067	13.136	VV	45512	600869	7.07%	1.654%
236	13.144	13.136	13.162	VV	2552	35821	0.42%	0.099%
237	13.171	13.162	13.221	VV	2226	45556	0.54%	0.125%
238	13.240	13.221	13.248	VV	911	11097	0.13%	0.031%
239	13.277	13.248	13.297	VV	1441	31928	0.38%	0.088%
240	13.315	13.297	13.333	VV	1971	27203	0.32%	0.075%
241	13.344	13.333	13.367	VV	1042	16897	0.20%	0.047%
242	13.392	13.367	13.412	VV	1560	26827	0.32%	0.074%
243	13.442	13.412	13.467	VV	3206	53456	0.63%	0.147%
244	13.482	13.467	13.524	VV	1032	18060	0.21%	0.050%
245	13.532	13.524	13.560	VV	310	3636	0.04%	0.010%
246	13.619	13.560	13.639	PV	341	7431	0.09%	0.020%

247	13.672	13.639	13.684	VV	460	8035	0.09%	0.022%
248	13.700	13.684	13.724	VV	453	6684	0.08%	0.018%
249	13.737	13.724	13.742	PV	252	1846	0.02%	0.005%
250	13.747	13.742	13.762	VV	252	1666	0.02%	0.005%
251	13.775	13.762	13.792	VV	461	5584	0.07%	0.015%
252	13.806	13.792	13.816	VV	350	3438	0.04%	0.009%
253	13.843	13.816	13.849	VV	1460	18698	0.22%	0.051%
254	13.875	13.849	13.892	VV	2919	54305	0.64%	0.149%
255	13.896	13.892	13.913	VV	2251	22141	0.26%	0.061%
256	13.920	13.913	13.955	VV	1257	20142	0.24%	0.055%
257	14.002	13.955	14.049	VV	1257	37439	0.44%	0.103%
258	14.096	14.049	14.114	VV	1498	34642	0.41%	0.095%
259	14.137	14.114	14.155	VV	2175	32128	0.38%	0.088%
260	14.160	14.155	14.187	VV	609	8863	0.10%	0.024%
261	14.218	14.187	14.240	VV	1118	25284	0.30%	0.070%
262	14.254	14.240	14.270	VV	1158	15577	0.18%	0.043%
263	14.296	14.270	14.315	VV	1413	26445	0.31%	0.073%
264	14.320	14.315	14.336	VV	944	9751	0.11%	0.027%
265	14.348	14.336	14.368	VV	884	12178	0.14%	0.034%
266	14.407	14.368	14.413	VV	755	14911	0.18%	0.041%
267	14.448	14.413	14.467	VV	4738	68060	0.80%	0.187%
268	14.488	14.467	14.523	VV	7256	127475	1.50%	0.351%
269	14.540	14.523	14.557	VV	2287	29146	0.34%	0.080%
270	14.587	14.557	14.594	VV	1470	23703	0.28%	0.065%
271	14.604	14.594	14.635	VV	1791	25832	0.30%	0.071%
272	14.641	14.635	14.692	VV	983	15178	0.18%	0.042%
273	14.714	14.692	14.739	PV	1062	16914	0.20%	0.047%
274	14.749	14.739	14.760	VV	815	7733	0.09%	0.021%
275	14.767	14.760	14.775	VV	678	5371	0.06%	0.015%
276	14.790	14.775	14.814	VV	840	13779	0.16%	0.038%
277	14.822	14.814	14.831	VV	381	2639	0.03%	0.007%
278	14.843	14.831	14.857	VV	400	3538	0.04%	0.010%
279	14.921	14.857	14.998	PV	18314	396452	4.66%	1.091%
280	15.009	14.998	15.040	VV	1343	28955	0.34%	0.080%
281	15.069	15.040	15.093	VV	9648	129820	1.53%	0.357%
282	15.119	15.093	15.139	VV	2231	38147	0.45%	0.105%
283	15.155	15.139	15.189	VV	1511	30309	0.36%	0.083%
284	15.196	15.189	15.218	VV	882	11842	0.14%	0.033%
285	15.224	15.218	15.227	VV	649	3246	0.04%	0.009%
286	15.256	15.227	15.271	VV	2214	38259	0.45%	0.105%
287	15.275	15.271	15.315	VV	1728	27409	0.32%	0.075%
288	15.320	15.315	15.326	VV	467	2709	0.03%	0.007%
289	15.383	15.326	15.397	VV	1143	34533	0.41%	0.095%
290	15.421	15.397	15.427	VV	1467	21334	0.25%	0.059%
291	15.444	15.427	15.495	VV	1998	47430	0.56%	0.131%
292	15.520	15.495	15.534	VV	1382	23604	0.28%	0.065%
293	15.554	15.534	15.589	VV	2596	49258	0.58%	0.136%
294	15.612	15.589	15.657	VV	2592	43786	0.51%	0.121%
295	15.719	15.657	15.735	PV	871	14547	0.17%	0.040%
296	15.738	15.735	15.742	VV	417	1491	0.02%	0.004%
297	15.763	15.742	15.774	VV	546	7605	0.09%	0.021%
298	15.811	15.774	15.830	VV	725	16576	0.19%	0.046%
299	15.834	15.830	15.839	VV	322	1415	0.02%	0.004%

300	15.869	15.839	15.885	VV	606	10420	0.12%	0.029%
301	15.932	15.885	15.973	VV	8615	189479	2.23%	0.522%
302	15.995	15.973	16.016	VV	9340	139088	1.64%	0.383%
303	16.027	16.016	16.062	VV	3861	61981	0.73%	0.171%
304	16.123	16.062	16.147	VV	2611	78474	0.92%	0.216%
305	16.163	16.147	16.198	VV	2192	37266	0.44%	0.103%
306	16.221	16.198	16.242	VV	1092	17549	0.21%	0.048%
307	16.313	16.242	16.339	VV	4984	101212	1.19%	0.279%
308	16.344	16.339	16.352	VV	441	2689	0.03%	0.007%
309	16.374	16.352	16.399	VV	5050	68629	0.81%	0.189%
310	16.425	16.399	16.450	VV	1542	31479	0.37%	0.087%
311	16.471	16.450	16.492	VV	2473	40752	0.48%	0.112%
312	16.498	16.492	16.519	VV	1982	24993	0.29%	0.069%
313	16.545	16.519	16.560	VV	7398	102949	1.21%	0.283%
314	16.575	16.560	16.607	VV	7142	92317	1.09%	0.254%
315	16.617	16.607	16.621	VV	456	3136	0.04%	0.009%
316	16.626	16.621	16.631	VV	360	1874	0.02%	0.005%
317	16.639	16.631	16.651	VV	380	2195	0.03%	0.006%
318	16.663	16.651	16.667	PV	327	1507	0.02%	0.004%
319	16.706	16.667	16.718	VV	963	16928	0.20%	0.047%
320	16.749	16.718	16.753	VV	926	16305	0.19%	0.045%
321	16.786	16.753	16.805	VV	2005	37165	0.44%	0.102%
322	16.821	16.805	16.839	VV	1208	16697	0.20%	0.046%
323	16.867	16.839	16.927	VV	14787	297818	3.50%	0.820%
324	16.947	16.927	16.994	VV	3925	75078	0.88%	0.207%
325	17.030	16.994	17.052	VV	1944	31333	0.37%	0.086%
326	17.084	17.052	17.111	VV	3089	50605	0.60%	0.139%
327	17.153	17.111	17.167	PV	1297	27305	0.32%	0.075%
328	17.184	17.167	17.208	VV	1427	22840	0.27%	0.063%
329	17.226	17.208	17.238	VV	1532	20615	0.24%	0.057%
330	17.257	17.238	17.269	VV	1370	19165	0.23%	0.053%
331	17.277	17.269	17.296	VV	1151	16003	0.19%	0.044%
332	17.316	17.296	17.322	VV	2713	26904	0.32%	0.074%
333	17.344	17.322	17.369	VV	3353	75740	0.89%	0.208%
334	17.379	17.369	17.407	VV	2770	42245	0.50%	0.116%
335	17.414	17.407	17.418	VV	560	3209	0.04%	0.009%
336	17.471	17.418	17.511	VV	9609	183978	2.16%	0.506%
337	17.535	17.511	17.573	VV	1712	39783	0.47%	0.110%
338	17.582	17.573	17.588	VV	796	5202	0.06%	0.014%
339	17.593	17.588	17.606	VV	762	5556	0.07%	0.015%
340	17.657	17.606	17.662	PV	1262	19746	0.23%	0.054%
341	17.673	17.662	17.697	VV	1539	18088	0.21%	0.050%
342	17.743	17.697	17.790	VV	24652	489652	5.76%	1.348%
343	17.806	17.790	17.834	VV	7371	115419	1.36%	0.318%
344	17.839	17.834	17.848	VV	912	6858	0.08%	0.019%
345	17.900	17.848	17.930	VV	2683	75329	0.89%	0.207%
346	17.934	17.930	17.964	VV	1355	12854	0.15%	0.035%
347	17.989	17.964	18.018	PV	4896	72016	0.85%	0.198%
348	18.063	18.018	18.089	VV	2712	50044	0.59%	0.138%
349	18.094	18.089	18.107	VV	451	2980	0.04%	0.008%
350	18.136	18.107	18.143	PV	915	10976	0.13%	0.030%
351	18.165	18.143	18.197	VV	2659	43662	0.51%	0.120%

rteres
Sum of corrected areas: 36326934

Aromatic EPH 102324.M Thu Nov 14 02:56:42 2024

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

Report of Analysis

Client:	BAPS North Bergen	Date Collected:	11/12/24
Project:	BAPS North Bergen	Date Received:	11/12/24
Client Sample ID:	SOIL-3	SDG No.:	P4822
Lab Sample ID:	P4822-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.5
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/14/24 1:44	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.41	U	1	0.41	1.08	mg/kg	FE051218.D
Aliphatic C12-C16	Aliphatic C12-C16	0.56	J	1	0.26	0.72	mg/kg	FE051218.D
Aliphatic C16-C21	Aliphatic C16-C21	0.48	J	1	0.32	1.08	mg/kg	FE051218.D
Aliphatic C21-C28	Aliphatic C21-C28	0.86	U	1	0.86	1.44	mg/kg	FE051218.D
Aliphatic C28-C40	Aliphatic C28-C40	7.69		1	1.94	2.16	mg/kg	FE051218.D
Aromatic C10-C12	Aromatic C10-C12	0.32	U	1	0.32	0.72	mg/kg	FF015018.D
Aromatic C12-C16	Aromatic C12-C16	2.11		1	0.37	1.08	mg/kg	FF015018.D
Aromatic C16-C21	Aromatic C16-C21	2.12		1	1.04	1.80	mg/kg	FF015018.D
Aromatic C21-C36	Aromatic C21-C36	2.58	J	1	2.16	2.88	mg/kg	FF015018.D
Total AliphaticEPH	Total AliphaticEPH	8.72			3.80	6.48	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.81			3.89	6.48	mg/kg	
Total EPH	Total EPH	15.5			7.69	13.0	mg/kg	

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

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-3		SDG No.:	P4822	
Lab Sample ID:	P4822-05		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	92.5	
Sample Wt/Vol:	30.02	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051218.D	1	11/13/24	11/14/24	PB164943

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.41	U	0.41	1.08	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.56	J	0.26	0.72	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.48	J	0.32	1.08	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.86	U	0.86	1.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		7.69		1.94	2.16	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		42.5		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4822-05	Acq On:	14 Nov 2024 01:44
Client Sample ID:	SOIL-3	Operator:	YP\AJ
Data file:	FE051218.D	Misc:	
Instrument:	FID_E	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.138	6.755	421102	3.01	300	ug/ml
Aliphatic C12-C16	6.756	10.187	1092301	7.767	200	ug/ml
Aliphatic C16-C21	10.188	13.546	909053	6.598	300	ug/ml
Aliphatic C21-C28	13.547	17.200	1037219	7.743	400	ug/ml
Aliphatic C28-C40	17.201	22.043	13755270	106.838	600	ug/ml
Aliphatic EPH	3.138	22.043	17214945	131.957		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.281	13.281	4822095	42.47		ug/ml
Aliphatic C9-C28	3.138	17.200	3459675	25.118	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051218.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 01:44
Operator : YP\AJ
Sample : P4822-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SOIL-3

Integration File: autoint1.e
Quant Time: Nov 14 04:08:28 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			
12) S 1-chlorooctadecane (S...	13.281	4822095	42.474 ug/ml
Spiked Amount 50.000		Recovery = 84.95%	
Target Compounds			

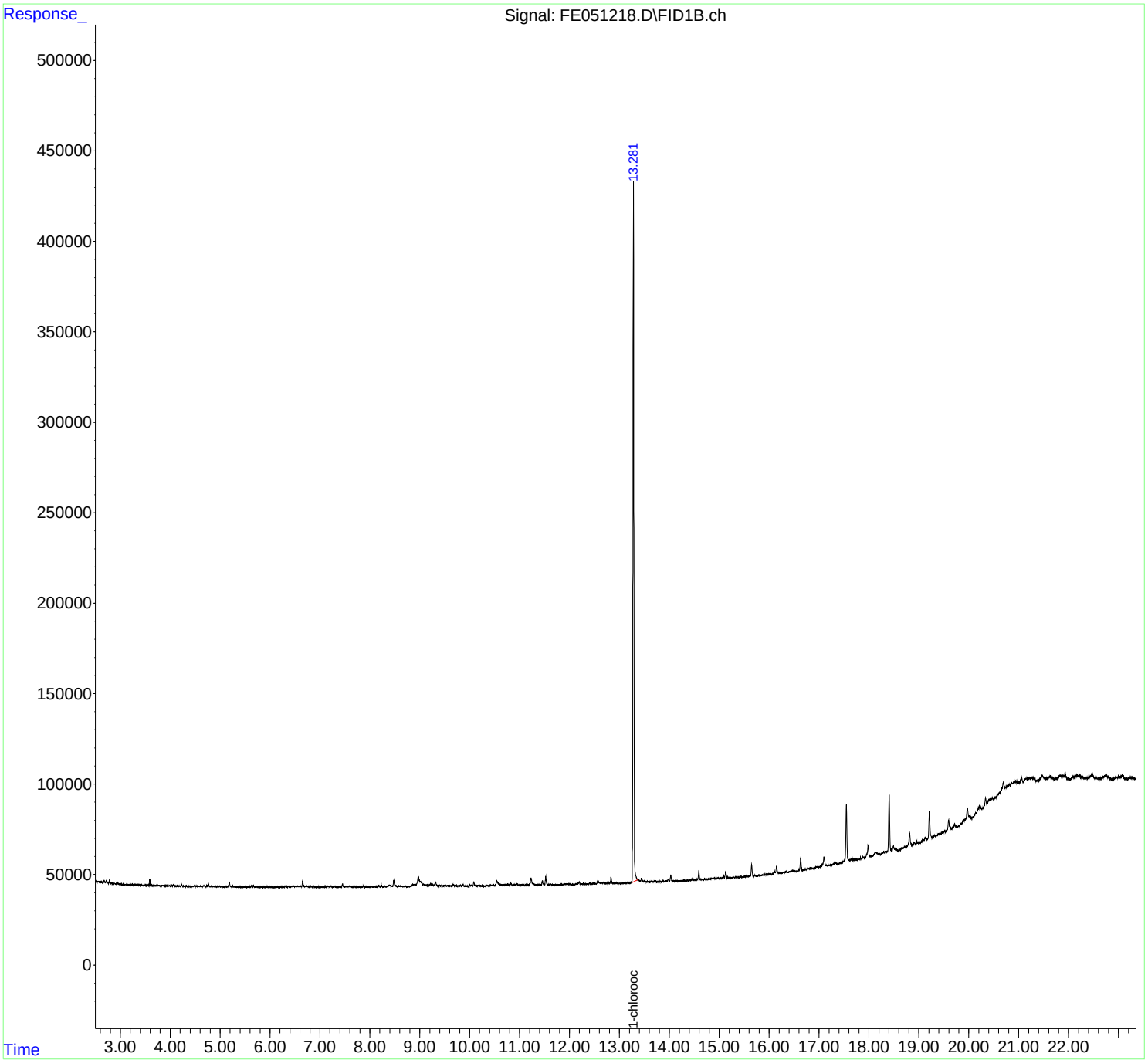
(f)=RT Delta > 1/2 Window (m)=manual int.

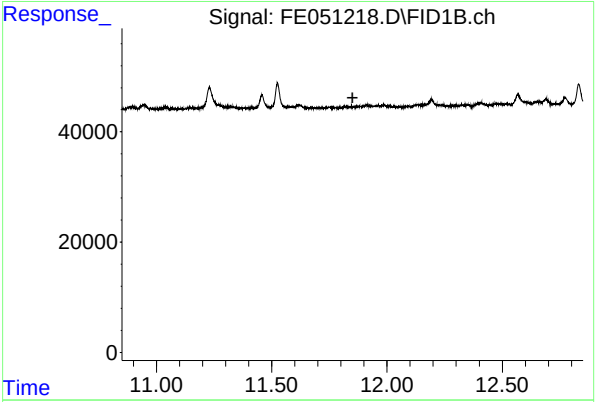
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051218.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 01:44
Operator : YP\AJ
Sample : P4822-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SOIL-3

Integration File: autoint1.e
Quant Time: Nov 14 04:08:28 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

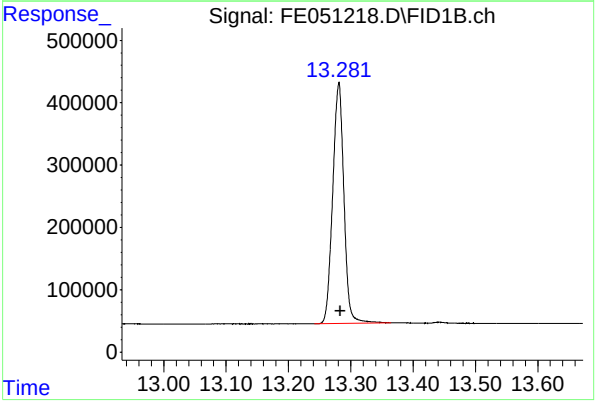




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
SOIL-3



#12 1-chlorooctadecane (SURR)

R.T.: 13.281 min
Delta R.T.: -0.002 min
Response: 4822095
Conc: 42.47 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051218.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 01:44
Sample : P4822-05
Misc :
ALS Vial : 24 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	3.205	3.375	BV	197	1377	0.03%	0.006%
2	3.380	3.375	3.465	PV	91	2324	0.05%	0.010%
3	3.474	3.465	3.492	VV	120	1221	0.02%	0.005%
4	3.501	3.492	3.533	PV	142	1871	0.04%	0.008%
5	3.592	3.533	3.607	VV	1145	8361	0.17%	0.037%
6	3.624	3.607	3.658	VV	212	4092	0.08%	0.018%
7	3.679	3.658	3.728	VV	223	4827	0.10%	0.021%
8	3.732	3.728	3.792	VV	140	3187	0.06%	0.014%
9	3.835	3.792	3.907	PV	209	8286	0.17%	0.037%
10	3.927	3.907	3.969	VV	256	4617	0.09%	0.020%
11	4.028	3.969	4.044	VV	375	6257	0.13%	0.028%
12	4.061	4.044	4.092	VV	625	8198	0.17%	0.036%
13	4.102	4.092	4.125	VV	103	1094	0.02%	0.005%
14	4.135	4.125	4.146	VV	114	1204	0.02%	0.005%
15	4.228	4.146	4.312	VV	757	20603	0.42%	0.091%
16	4.321	4.312	4.339	VV	100	1218	0.02%	0.005%
17	4.387	4.339	4.445	PV	149	4850	0.10%	0.021%
18	4.452	4.445	4.461	PV	95	555	0.01%	0.002%
19	4.489	4.461	4.518	VV	479	6847	0.14%	0.030%
20	4.538	4.518	4.562	VV	277	3991	0.08%	0.018%
21	4.570	4.562	4.582	VV	147	1070	0.02%	0.005%
22	4.611	4.582	4.646	VV	317	4391	0.09%	0.019%
23	4.674	4.646	4.695	PV	819	10157	0.21%	0.045%
24	4.703	4.695	4.716	VV	186	1678	0.03%	0.007%
25	4.736	4.716	4.752	VV	557	6653	0.13%	0.029%
26	4.769	4.752	4.813	VV	1137	13321	0.27%	0.059%
27	4.902	4.813	4.929	VV	225	7991	0.16%	0.035%
28	4.937	4.929	4.973	VV	126	2709	0.05%	0.012%
29	4.987	4.973	5.025	VV	199	3567	0.07%	0.016%
30	5.031	5.025	5.078	VV	94	1855	0.04%	0.008%
31	5.099	5.078	5.138	VV	175	3663	0.07%	0.016%
32	5.185	5.138	5.224	VV	2540	36285	0.73%	0.160%
33	5.247	5.224	5.268	VV	608	7419	0.15%	0.033%
34	5.285	5.268	5.350	VV	166	3912	0.08%	0.017%
35	5.366	5.350	5.375	PV	139	994	0.02%	0.004%
36	5.392	5.375	5.418	VV	193	2071	0.04%	0.009%

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37	5.423	5.418	5.471	VV	62	1390	0.03%	0.006%
38	5.493	5.471	5.531	VV	114	2468	0.05%	0.011%
39	5.537	5.531	5.571	VV	115	1498	0.03%	0.007%
40	5.585	5.571	5.600	VV	162	1213	0.02%	0.005%
41	5.626	5.600	5.645	PV	599	7657	0.15%	0.034%
42	5.665	5.645	5.705	VV	1016	13613	0.28%	0.060%
43	5.728	5.705	5.752	VV	255	4263	0.09%	0.019%
44	5.761	5.752	5.781	VV	117	1357	0.03%	0.006%
45	5.810	5.781	5.861	VV	169	5528	0.11%	0.024%
46	5.925	5.861	5.963	VV	226	7556	0.15%	0.033%
47	5.986	5.963	6.008	VV	162	2952	0.06%	0.013%
48	6.022	6.008	6.068	VV	139	2991	0.06%	0.013%
49	6.075	6.068	6.095	VV	48	883	0.02%	0.004%
50	6.104	6.095	6.118	VV	126	1214	0.02%	0.005%
51	6.211	6.118	6.237	PV	211	8230	0.17%	0.036%
52	6.255	6.237	6.275	VV	359	5578	0.11%	0.025%
53	6.299	6.275	6.325	VV	602	9785	0.20%	0.043%
54	6.370	6.325	6.391	VV	422	10757	0.22%	0.048%
55	6.395	6.391	6.401	VV	296	1494	0.03%	0.007%
56	6.447	6.401	6.461	VV	503	14923	0.30%	0.066%
57	6.482	6.461	6.500	VV	440	9699	0.20%	0.043%
58	6.543	6.500	6.567	VV	501	17268	0.35%	0.076%
59	6.655	6.567	6.718	VV	3650	75530	1.53%	0.334%
60	6.738	6.718	6.757	VV	698	10539	0.21%	0.047%
61	6.777	6.757	6.790	VV	476	6988	0.14%	0.031%
62	6.807	6.790	6.825	VV	957	11503	0.23%	0.051%
63	6.839	6.825	6.861	VV	419	5703	0.12%	0.025%
64	6.880	6.861	6.909	VV	558	7693	0.16%	0.034%
65	6.935	6.909	6.969	VV	216	4713	0.10%	0.021%
66	6.982	6.969	7.010	VV	195	2972	0.06%	0.013%
67	7.038	7.010	7.049	VV	190	3598	0.07%	0.016%
68	7.055	7.049	7.079	VV	149	2218	0.04%	0.010%
69	7.107	7.079	7.137	VV	508	8281	0.17%	0.037%
70	7.162	7.137	7.195	VV	518	11288	0.23%	0.050%
71	7.211	7.195	7.255	VV	525	12532	0.25%	0.055%
72	7.290	7.255	7.314	VV	851	14598	0.30%	0.065%
73	7.326	7.314	7.358	VV	231	4350	0.09%	0.019%
74	7.395	7.358	7.425	VV	306	9328	0.19%	0.041%
75	7.454	7.425	7.486	VV	1948	25685	0.52%	0.114%
76	7.517	7.486	7.548	VV	443	11639	0.24%	0.051%
77	7.564	7.548	7.577	VV	461	6572	0.13%	0.029%
78	7.601	7.577	7.641	VV	1061	20931	0.42%	0.093%
79	7.661	7.641	7.676	VV	412	6969	0.14%	0.031%
80	7.691	7.676	7.751	VV	446	10213	0.21%	0.045%
81	7.760	7.751	7.827	VV	200	5456	0.11%	0.024%
82	7.863	7.827	7.904	PV	773	10705	0.22%	0.047%
83	7.964	7.904	7.989	VV	238	7648	0.15%	0.034%
84	8.023	7.989	8.055	VV	307	7820	0.16%	0.035%
85	8.065	8.055	8.104	VV	253	5503	0.11%	0.024%
86	8.128	8.104	8.151	VV	266	4719	0.10%	0.021%
87	8.173	8.151	8.210	VV	710	12406	0.25%	0.055%
88	8.230	8.210	8.254	VV	1085	14488	0.29%	0.064%
89	8.299	8.254	8.315	VV	328	8216	0.17%	0.036%

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90	8.389	8.315	8.447	VV	1047	44519	0.90%	0.197%
91	8.480	8.447	8.560	VV	3615	68858	1.39%	0.304%
92	8.584	8.560	8.612	VV	555	13451	0.27%	0.059%
93	8.628	8.612	8.658	VV	447	7926	0.16%	0.035%
94	8.673	8.658	8.692	VV	318	4859	0.10%	0.021%
95	8.712	8.692	8.751	VV	390	7156	0.14%	0.032%
96	8.760	8.751	8.790	VV	149	2492	0.05%	0.011%
97	8.883	8.790	8.912	VV	1227	54170	1.10%	0.239%
98	8.972	8.912	9.111	VV	5383	272061	5.51%	1.202%
99	9.132	9.111	9.156	VV	974	22500	0.46%	0.099%
100	9.166	9.156	9.185	VV	755	12490	0.25%	0.055%
101	9.218	9.185	9.281	VV	1456	60853	1.23%	0.269%
102	9.316	9.281	9.370	VV	2281	58084	1.18%	0.257%
103	9.393	9.370	9.421	VV	743	15629	0.32%	0.069%
104	9.441	9.421	9.470	VV	558	12134	0.25%	0.054%
105	9.494	9.470	9.515	VV	589	12011	0.24%	0.053%
106	9.520	9.515	9.535	VV	444	5023	0.10%	0.022%
107	9.544	9.535	9.572	VV	443	7793	0.16%	0.034%
108	9.605	9.572	9.626	VV	543	12834	0.26%	0.057%
109	9.635	9.626	9.648	VV	222	3024	0.06%	0.013%
110	9.671	9.648	9.707	VV	813	16195	0.33%	0.072%
111	9.729	9.707	9.754	VV	405	8612	0.17%	0.038%
112	9.812	9.754	9.840	VV	570	16758	0.34%	0.074%
113	9.865	9.840	9.941	VV	869	17556	0.36%	0.078%
114	9.958	9.941	9.981	VV	160	3153	0.06%	0.014%
115	10.007	9.981	10.060	VV	678	15991	0.32%	0.071%
116	10.085	10.060	10.136	VV	2412	38298	0.78%	0.169%
117	10.160	10.136	10.238	VV	369	13136	0.27%	0.058%
118	10.255	10.238	10.277	VV	215	3225	0.07%	0.014%
119	10.293	10.277	10.304	PV	119	1185	0.02%	0.005%
120	10.362	10.304	10.375	VV	255	6339	0.13%	0.028%
121	10.399	10.375	10.419	VV	310	6026	0.12%	0.027%
122	10.431	10.419	10.442	VV	274	3291	0.07%	0.015%
123	10.473	10.442	10.495	VV	670	13399	0.27%	0.059%
124	10.542	10.495	10.658	VV	2592	98665	2.00%	0.436%
125	10.685	10.658	10.706	VV	541	13843	0.28%	0.061%
126	10.710	10.706	10.734	VV	534	7858	0.16%	0.035%
127	10.756	10.734	10.781	VV	753	15556	0.31%	0.069%
128	10.824	10.781	10.861	VV	1426	31686	0.64%	0.140%
129	10.896	10.861	10.918	VV	662	15754	0.32%	0.070%
130	10.947	10.918	11.000	VV	965	23612	0.48%	0.104%
131	11.041	11.000	11.064	VV	455	11379	0.23%	0.050%
132	11.076	11.064	11.119	VV	239	5444	0.11%	0.024%
133	11.148	11.119	11.174	VV	354	7881	0.16%	0.035%
134	11.230	11.174	11.312	VV	4068	96688	1.96%	0.427%
135	11.327	11.312	11.385	VV	484	12097	0.24%	0.053%
136	11.415	11.385	11.423	VV	276	3859	0.08%	0.017%
137	11.458	11.423	11.491	VV	2472	37945	0.77%	0.168%
138	11.525	11.491	11.571	VV	4690	68463	1.39%	0.303%
139	11.578	11.571	11.601	VV	372	5937	0.12%	0.026%
140	11.618	11.601	11.657	VV	656	11834	0.24%	0.052%
141	11.688	11.657	11.698	VV	116	2141	0.04%	0.009%

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142	11.750	11.698	11.798	VV	152	4657	0.09%	0.021%
143	11.826	11.798	11.865	VV	275	7457	0.15%	0.033%
144	11.912	11.865	11.942	VV	437	13826	0.28%	0.061%
145	11.960	11.942	11.971	VV	408	5214	0.11%	0.023%
146	11.985	11.971	12.062	VV	518	11278	0.23%	0.050%
147	12.133	12.062	12.148	PV	468	10873	0.22%	0.048%
148	12.193	12.148	12.273	VV	1364	35357	0.72%	0.156%
149	12.295	12.273	12.307	VV	181	2776	0.06%	0.012%
150	12.323	12.307	12.334	VV	243	3020	0.06%	0.013%
151	12.348	12.334	12.365	VV	232	3512	0.07%	0.016%
152	12.409	12.365	12.451	VV	556	15312	0.31%	0.068%
153	12.473	12.451	12.505	VV	450	9953	0.20%	0.044%
154	12.519	12.505	12.541	VV	366	6300	0.13%	0.028%
155	12.567	12.541	12.628	VV	2016	45571	0.92%	0.201%
156	12.649	12.628	12.658	VV	662	9498	0.19%	0.042%
157	12.689	12.658	12.728	VV	1121	24207	0.49%	0.107%
158	12.772	12.728	12.799	VV	1371	22789	0.46%	0.101%
159	12.832	12.799	12.912	VV	3724	57454	1.16%	0.254%
160	12.948	12.912	13.012	VV	490	11920	0.24%	0.053%
161	13.046	13.012	13.054	VV	114	1328	0.03%	0.006%
162	13.104	13.054	13.136	PV	269	8150	0.16%	0.036%
163	13.160	13.136	13.177	VV	261	3987	0.08%	0.018%
164	13.230	13.177	13.240	VV	282	7787	0.16%	0.034%
165	13.281	13.240	13.418	VV	387609	4941511	100.00%	21.841%
166	13.442	13.418	13.571	VV	2502	82720	1.67%	0.366%
167	13.575	13.571	13.599	VV	470	6515	0.13%	0.029%
168	13.653	13.599	13.685	VV	424	18748	0.38%	0.083%
169	13.716	13.685	13.755	VV	615	17591	0.36%	0.078%
170	13.792	13.755	13.818	VV	360	9683	0.20%	0.043%
171	13.825	13.818	13.852	VV	340	4986	0.10%	0.022%
172	13.876	13.852	13.914	VV	427	11366	0.23%	0.050%
173	13.937	13.914	13.951	VV	399	6698	0.14%	0.030%
174	13.978	13.951	14.001	VV	1290	20370	0.41%	0.090%
175	14.028	14.001	14.059	VV	3545	49551	1.00%	0.219%
176	14.073	14.059	14.108	VV	329	6820	0.14%	0.030%
177	14.123	14.108	14.150	VV	186	3555	0.07%	0.016%
178	14.172	14.150	14.205	VV	162	3197	0.06%	0.014%
179	14.258	14.205	14.281	PV	308	6782	0.14%	0.030%
180	14.289	14.281	14.305	VV	190	1950	0.04%	0.009%
181	14.329	14.305	14.341	VV	212	3252	0.07%	0.014%
182	14.470	14.341	14.497	VV	1107	27398	0.55%	0.121%
183	14.541	14.497	14.560	VV	571	13064	0.26%	0.058%
184	14.590	14.560	14.628	VV	4559	63758	1.29%	0.282%
185	14.658	14.628	14.694	VV	323	9545	0.19%	0.042%
186	14.706	14.694	14.712	VV	306	2789	0.06%	0.012%
187	14.718	14.712	14.772	VV	295	7555	0.15%	0.033%
188	14.836	14.772	14.851	VV	353	8832	0.18%	0.039%
189	14.882	14.851	14.901	VV	510	9647	0.20%	0.043%
190	14.908	14.901	14.926	VV	347	3840	0.08%	0.017%
191	14.938	14.926	14.953	VV	345	3610	0.07%	0.016%
192	14.981	14.953	14.995	VV	314	5369	0.11%	0.024%
193	14.999	14.995	15.020	VV	231	2645	0.05%	0.012%
194	15.032	15.020	15.037	VV	173	1362	0.03%	0.006%

195	15.086	15.037	15.103	VV	1297	21288	0.43%	0.094%
196	15.130	15.103	15.167	VV	3696	58450	1.18%	0.258%
197	15.184	15.167	15.217	VV	346	7750	0.16%	0.034%
198	15.259	15.217	15.275	VV	196	5325	0.11%	0.024%
199	15.295	15.275	15.308	VV	271	3852	0.08%	0.017%
200	15.323	15.308	15.348	VV	318	4971	0.10%	0.022%
201	15.378	15.348	15.391	VV	177	3789	0.08%	0.017%
202	15.403	15.391	15.410	VV	86	520	0.01%	0.002%
203	15.445	15.410	15.469	PV	224	5378	0.11%	0.024%
204	15.479	15.469	15.487	VV	176	1481	0.03%	0.007%
205	15.541	15.487	15.584	VV	267	10913	0.22%	0.048%
206	15.605	15.584	15.620	VV	529	6804	0.14%	0.030%
207	15.648	15.620	15.691	VV	6777	94804	1.92%	0.419%
208	15.704	15.691	15.741	VV	346	7512	0.15%	0.033%
209	15.751	15.741	15.759	VV	83	470	0.01%	0.002%
210	15.865	15.759	15.875	PV	208	8950	0.18%	0.040%
211	15.966	15.875	15.995	VV	527	14797	0.30%	0.065%
212	16.030	15.995	16.061	VV	330	7583	0.15%	0.034%
213	16.111	16.061	16.128	VV	1157	20407	0.41%	0.090%
214	16.148	16.128	16.218	VV	4054	66630	1.35%	0.294%
215	16.285	16.218	16.301	VV	325	7756	0.16%	0.034%
216	16.348	16.301	16.373	VV	638	16128	0.33%	0.071%
217	16.437	16.373	16.448	VV	424	9935	0.20%	0.044%
218	16.492	16.448	16.551	VV	598	21839	0.44%	0.097%
219	16.631	16.551	16.665	PV	7159	110009	2.23%	0.486%
220	16.728	16.665	16.742	VV	302	9237	0.19%	0.041%
221	16.805	16.742	16.814	VV	450	13863	0.28%	0.061%
222	16.835	16.814	16.875	VV	471	11325	0.23%	0.050%
223	16.894	16.875	16.913	VV	227	3443	0.07%	0.015%
224	16.972	16.913	17.000	VV	516	17929	0.36%	0.079%
225	17.029	17.000	17.037	VV	392	4958	0.10%	0.022%
226	17.097	17.037	17.138	VV	5310	116783	2.36%	0.516%
227	17.146	17.138	17.171	VV	540	7083	0.14%	0.031%
228	17.182	17.171	17.195	VV	433	4779	0.10%	0.021%
229	17.218	17.195	17.243	VV	327	6405	0.13%	0.028%
230	17.280	17.243	17.297	PV	598	10340	0.21%	0.046%
231	17.333	17.297	17.365	VV	860	20511	0.42%	0.091%
232	17.429	17.365	17.444	VV	382	9114	0.18%	0.040%
233	17.547	17.444	17.602	VV	31884	515417	10.43%	2.278%
234	17.658	17.602	17.701	VV	1679	56585	1.15%	0.250%
235	17.712	17.701	17.728	VV	587	7425	0.15%	0.033%
236	17.744	17.728	17.768	VV	569	9080	0.18%	0.040%
237	17.831	17.768	17.851	VV	815	12330	0.25%	0.054%
238	17.877	17.851	17.904	PV	1303	20494	0.41%	0.091%
239	17.982	17.904	18.061	VV	6914	153740	3.11%	0.680%
240	18.122	18.061	18.135	VV	2318	45091	0.91%	0.199%
241	18.145	18.135	18.199	VV	1773	42884	0.87%	0.190%
242	18.218	18.199	18.235	VV	473	7488	0.15%	0.033%
243	18.325	18.235	18.338	VV	1104	47882	0.97%	0.212%
244	18.405	18.338	18.445	VV	32054	493776	9.99%	2.182%
245	18.489	18.445	18.515	VV	3119	79823	1.62%	0.353%
246	18.526	18.515	18.540	VV	1304	16004	0.32%	0.071%

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247	18.552	18.540	18.591	VV	822	12868	0.26%	0.057%
248	18.612	18.591	18.625	PV	283	3333	0.07%	0.015%
249	18.657	18.625	18.671	PV	456	8244	0.17%	0.036%
250	18.714	18.671	18.740	VV	1060	25735	0.52%	0.114%
251	18.815	18.740	18.865	VV	7253	153329	3.10%	0.678%
252	18.875	18.865	18.881	VV	379	3198	0.06%	0.014%
253	18.908	18.881	18.934	VV	1418	22493	0.46%	0.099%
254	18.960	18.934	18.991	VV	979	16396	0.33%	0.072%
255	19.078	18.991	19.088	PV	771	14374	0.29%	0.064%
256	19.125	19.088	19.158	VV	1917	38065	0.77%	0.168%
257	19.211	19.158	19.275	VV	15046	247190	5.00%	1.093%
258	19.312	19.275	19.328	VV	788	12075	0.24%	0.053%
259	19.460	19.328	19.475	VV	841	53203	1.08%	0.235%
260	19.508	19.475	19.530	VV	998	23628	0.48%	0.104%
261	19.597	19.530	19.654	VV	6378	168495	3.41%	0.745%
262	19.719	19.654	19.741	VV	2353	85553	1.73%	0.378%
263	19.754	19.741	19.777	VV	1397	22731	0.46%	0.100%
264	19.971	19.777	20.004	VV	8837	406050	8.22%	1.795%
265	20.014	20.004	20.061	VV	4254	115067	2.33%	0.509%
266	20.215	20.061	20.261	VV	7017	579232	11.72%	2.560%
267	20.337	20.261	20.359	VV	10793	424934	8.60%	1.878%
268	20.407	20.359	20.421	VV	9017	307877	6.23%	1.361%
269	20.436	20.421	20.448	VV	9292	143779	2.91%	0.635%
270	20.472	20.448	20.494	VV	9082	245221	4.96%	1.084%
271	20.532	20.494	20.545	VV	8826	261807	5.30%	1.157%
272	20.692	20.545	20.719	VV	15540	1192082	24.12%	5.269%
273	20.731	20.719	20.740	VV	12450	153441	3.11%	0.678%
274	20.760	20.740	20.775	VV	12501	254393	5.15%	1.124%
275	20.817	20.775	20.828	VV	13014	401655	8.13%	1.775%
276	20.932	20.828	20.973	VV	13459	1131376	22.90%	5.001%
277	20.986	20.973	21.001	VV	12617	213742	4.33%	0.945%
278	21.058	21.001	21.088	VV	14327	661816	13.39%	2.925%
279	21.139	21.088	21.150	VV	12860	453494	9.18%	2.004%
280	21.168	21.150	21.195	VV	12667	333912	6.76%	1.476%
281	21.256	21.195	21.345	VV	12106	1027974	20.80%	4.544%
282	21.470	21.345	21.555	VV	11179	1188639	24.05%	5.254%
283	21.628	21.555	21.716	VV	8452	753024	15.24%	3.328%
284	21.829	21.716	21.856	VV	6870	546375	11.06%	2.415%
285	21.874	21.856	21.891	VV	6276	130175	2.63%	0.575%
286	21.932	21.891	21.979	VV	6319	283539	5.74%	1.253%
287	21.989	21.979	22.019	VV	3500	80367	1.63%	0.355%
288	22.086	22.019	22.119	VV	3529	190522	3.86%	0.842%
289	22.192	22.119	22.283	VV	3349	260996	5.28%	1.154%
290	22.287	22.283	22.331	VV	1208	17032	0.34%	0.075%

Sum of corrected areas: 22625000

Aliphatic EPH 110724.M Thu Nov 14 05:29:19 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-3		SDG No.:	P4822	
Lab Sample ID:	P4822-05		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	92.5	
Sample Wt/Vol:	30.02	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015018.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.32	U	0.32	0.72	mg/kg
Aromatic C12-C16	Aromatic C12-C16	2.11		0.37	1.08	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.12		1.04	1.80	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.58	J	2.16	2.88	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	43.7		40 - 140	87%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	42.6		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.8		40 - 140	64%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4822-05	Acq On:	13 Nov 2024 19:07
Client Sample ID:	SOIL-3	Operator:	YP\AJ
Data file:	FF015018.D	Misc:	
Instrument:	FID_F	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	541822	3.505	200	ug/ml
Aromatic C12-C16	6.373	9.063	4499622	29.302	300	ug/ml
Aromatic C16-C21	9.064	13.374	4186325	29.461	500	ug/ml
Aromatic C21-C36	13.375	18.815	4952742	35.879	800	ug/ml
Aromatic EPH	4.508	18.815	14180511	98.147		ug/ml
ortho-Terphenyl (SURR)	11.927	11.927	4688162	31.83		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	5816772	43.71		ug/ml
2-Flurobiphenyl (SURR)	8.865	8.865	3795887	42.56		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015018.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:07
Operator : YP\AJ
Sample : P4822-05
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
SOIL-3

Integration File: autoint1.e
Quant Time: Nov 14 02:59:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.992	5816772	43.708 ug/ml
Spiked Amount 50.000		Recovery =	87.42%
6) S 2-Flurobiphenyl (SURR)	8.865	3795887	42.561 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	85.12%
11) S ortho-Terphenyl (SURR)	11.927	4688162	31.830 ug/ml
Spiked Amount 50.000		Recovery =	63.66%
Target Compounds			

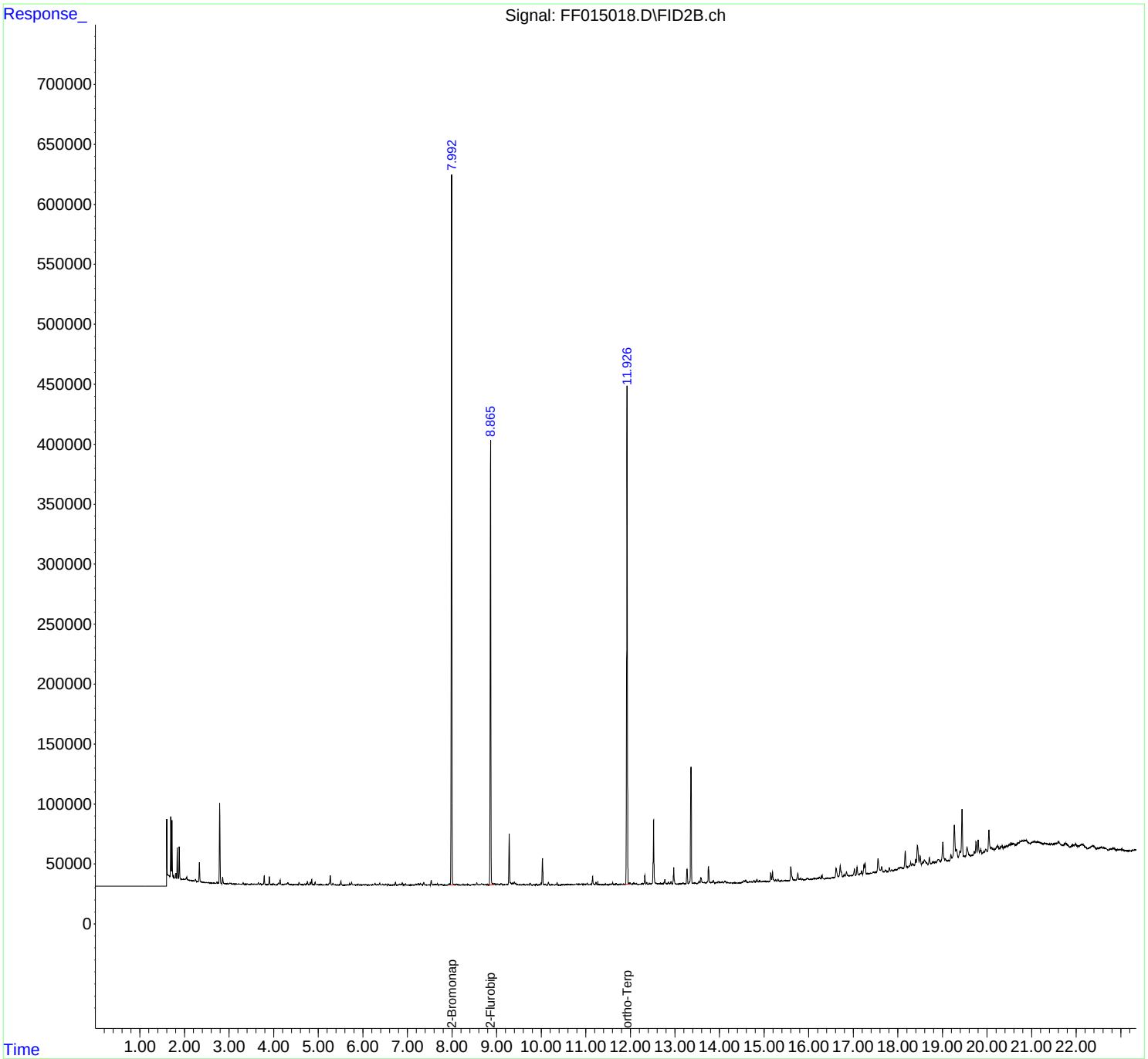
(f)=RT Delta > 1/2 Window (m)=manual int.

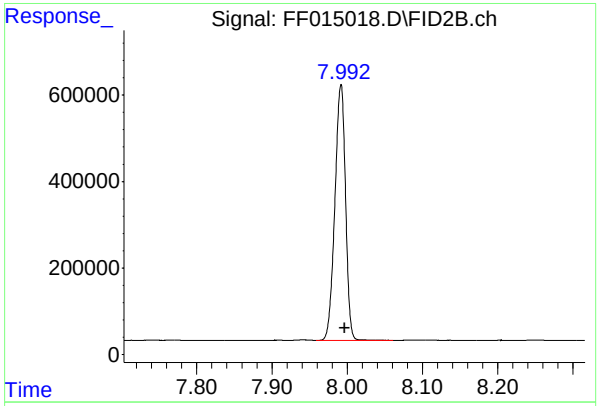
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015018.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:07
Operator : YP\AJ
Sample : P4822-05
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
SOIL-3

Integration File: autoint1.e
Quant Time: Nov 14 02:59:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

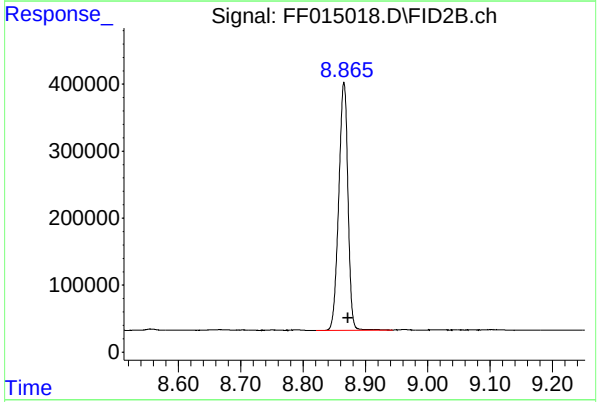




#4 2-Bromonaphthalene (SURR)

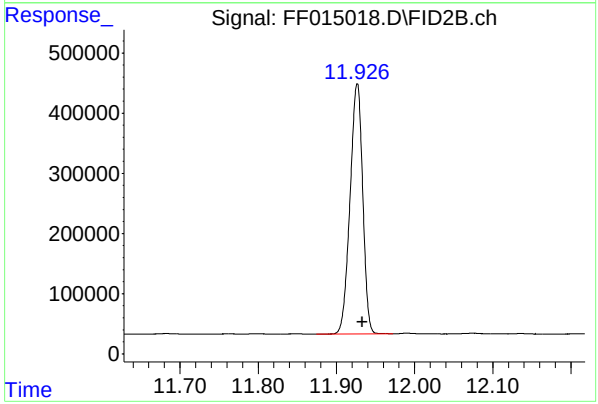
R.T.: 7.992 min
Delta R.T.: -0.005 min
Response: 5816772
Conc: 43.71 ug/ml

Instrument :
FID_F
ClientSampleId :
SOIL-3



#6 2-Flurobiphenyl (SURR)

R.T.: 8.865 min
Delta R.T.: -0.007 min
Response: 3795887
Conc: 42.56 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: -0.007 min
Response: 4688162
Conc: 31.83 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015018.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:07
Sample : P4822-05
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.456	4.411	4.487	BV	222	2110	0.04%	0.009%
2	4.510	4.496	4.535	VV	216	2981	0.05%	0.012%
3	4.570	4.535	4.594	VV	2054	22892	0.39%	0.093%
4	4.606	4.594	4.627	VV	496	5778	0.10%	0.023%
5	4.648	4.627	4.671	VV	229	3800	0.07%	0.015%
6	4.696	4.671	4.713	PV	705	8370	0.14%	0.034%
7	4.733	4.713	4.744	PV	1198	11903	0.20%	0.048%
8	4.758	4.744	4.782	VV	2845	31131	0.53%	0.126%
9	4.795	4.782	4.801	VV	353	2793	0.05%	0.011%
10	4.820	4.801	4.837	VV	2254	24868	0.43%	0.101%
11	4.853	4.837	4.884	VV	4491	46441	0.80%	0.188%
12	4.928	4.898	4.960	VV	2412	29337	0.50%	0.119%
13	4.980	4.960	5.004	VV	532	8756	0.15%	0.035%
14	5.062	5.016	5.084	VV	566	10336	0.18%	0.042%
15	5.113	5.099	5.143	VV	237	3173	0.05%	0.013%
16	5.184	5.143	5.212	VV	701	11783	0.20%	0.048%
17	5.244	5.212	5.252	VV	1549	16689	0.29%	0.068%
18	5.270	5.252	5.303	VV	7862	94673	1.62%	0.383%
19	5.330	5.303	5.370	PV	1586	20998	0.36%	0.085%
20	5.382	5.370	5.436	VV	390	4313	0.07%	0.017%
21	5.475	5.436	5.487	VV	393	5020	0.09%	0.020%
22	5.507	5.487	5.548	VV	3330	35241	0.60%	0.143%
23	5.559	5.548	5.596	VV	160	2627	0.05%	0.011%
24	5.604	5.596	5.629	VV	92	1088	0.02%	0.004%
25	5.647	5.629	5.658	PV	296	3010	0.05%	0.012%
26	5.667	5.658	5.684	VV	304	2704	0.05%	0.011%
27	5.703	5.684	5.719	VV	1202	12468	0.21%	0.050%
28	5.748	5.719	5.770	VV	2392	29680	0.51%	0.120%
29	5.776	5.770	5.789	VV	216	2178	0.04%	0.009%
30	5.809	5.789	5.850	VV	580	8449	0.14%	0.034%
31	5.874	5.850	5.884	VV	323	4214	0.07%	0.017%
32	5.891	5.884	5.932	VV	373	5450	0.09%	0.022%
33	5.964	5.932	5.986	VV	315	6141	0.11%	0.025%
34	6.015	5.994	6.039	VV	502	7001	0.12%	0.028%
35	6.054	6.039	6.074	VV	299	4514	0.08%	0.018%
36	6.079	6.074	6.104	VV	284	2847	0.05%	0.012%

rteres

37	6.109	6.104	6.126	VV	118	1073	0.02%	0.004%
38	6.184	6.136	6.202	VV	270	6253	0.11%	0.025%
39	6.217	6.202	6.248	VV	294	5969	0.10%	0.024%
40	6.273	6.248	6.314	VV	1698	24665	0.42%	0.100%
41	6.334	6.314	6.356	VV	697	10215	0.18%	0.041%
42	6.378	6.356	6.401	VV	1897	21800	0.37%	0.088%
43	6.403	6.401	6.417	VV	269	1916	0.03%	0.008%
44	6.421	6.417	6.427	VV	239	1184	0.02%	0.005%
45	6.444	6.427	6.475	VV	917	12553	0.22%	0.051%
46	6.517	6.475	6.549	VV	745	17070	0.29%	0.069%
47	6.569	6.549	6.593	VV	1120	12707	0.22%	0.051%
48	6.604	6.593	6.631	VV	147	2025	0.03%	0.008%
49	6.673	6.660	6.678	VV	190	1031	0.02%	0.004%
50	6.686	6.678	6.708	VV	100	1616	0.03%	0.007%
51	6.731	6.708	6.759	VV	2432	26912	0.46%	0.109%
52	6.776	6.759	6.782	VV	216	2446	0.04%	0.010%
53	6.818	6.782	6.837	VV	1064	15753	0.27%	0.064%
54	6.852	6.837	6.867	VV	828	9021	0.15%	0.036%
55	6.885	6.867	6.907	VV	2042	22563	0.39%	0.091%
56	6.919	6.907	6.941	VV	548	5694	0.10%	0.023%
57	6.960	6.941	6.980	PV	1222	12893	0.22%	0.052%
58	6.996	6.980	7.012	VV	130	1449	0.02%	0.006%
59	7.018	7.012	7.039	VV	108	1023	0.02%	0.004%
60	7.065	7.039	7.100	VV	184	4530	0.08%	0.018%
61	7.112	7.100	7.128	VV	293	2936	0.05%	0.012%
62	7.136	7.128	7.151	VV	159	1544	0.03%	0.006%
63	7.186	7.167	7.219	VV	1042	14292	0.25%	0.058%
64	7.240	7.219	7.272	VV	1435	26668	0.46%	0.108%
65	7.290	7.272	7.337	VV	1178	27501	0.47%	0.111%
66	7.368	7.337	7.399	VV	2298	33153	0.57%	0.134%
67	7.406	7.399	7.413	VV	228	1483	0.03%	0.006%
68	7.424	7.413	7.439	VV	359	3383	0.06%	0.014%
69	7.454	7.439	7.461	VV	255	2665	0.05%	0.011%
70	7.479	7.461	7.491	VV	410	5294	0.09%	0.021%
71	7.501	7.491	7.514	VV	392	3938	0.07%	0.016%
72	7.534	7.514	7.562	VV	4015	48095	0.83%	0.195%
73	7.594	7.562	7.606	VV	572	10212	0.18%	0.041%
74	7.613	7.606	7.625	VV	534	4887	0.08%	0.020%
75	7.643	7.625	7.657	VV	766	9059	0.16%	0.037%
76	7.675	7.657	7.696	VV	1213	15231	0.26%	0.062%
77	7.714	7.696	7.720	VV	405	3267	0.06%	0.013%
78	7.741	7.720	7.755	VV	602	8763	0.15%	0.035%
79	7.769	7.755	7.788	VV	826	9685	0.17%	0.039%
80	7.816	7.788	7.822	VV	201	2597	0.04%	0.011%
81	7.834	7.822	7.869	VV	189	2824	0.05%	0.011%
82	7.889	7.869	7.895	PV	221	1906	0.03%	0.008%
83	7.910	7.895	7.924	VV	475	5636	0.10%	0.023%
84	7.942	7.924	7.959	VV	1366	15168	0.26%	0.061%
85	7.992	7.959	8.061	VV	595000	5829466	100.00%	23.584%
86	8.088	8.061	8.126	VV	827	22009	0.38%	0.089%
87	8.136	8.126	8.157	VV	397	5387	0.09%	0.022%
88	8.162	8.157	8.183	VV	307	3408	0.06%	0.014%
89	8.203	8.183	8.227	VV	421	5918	0.10%	0.024%

rteres

90	8.250	8.227	8.279	VV	1025	13388	0.23%	0.054%
91	8.285	8.279	8.296	VV	269	1950	0.03%	0.008%
92	8.304	8.296	8.317	VV	284	2527	0.04%	0.010%
93	8.339	8.317	8.367	VV	459	9609	0.16%	0.039%
94	8.379	8.374	8.403	VV	284	2888	0.05%	0.012%
95	8.451	8.403	8.472	VV	659	12856	0.22%	0.052%
96	8.481	8.472	8.493	VV	346	3796	0.07%	0.015%
97	8.505	8.493	8.518	VV	347	3885	0.07%	0.016%
98	8.556	8.518	8.577	VV	2145	28875	0.50%	0.117%
99	8.587	8.577	8.599	VV	408	4853	0.08%	0.020%
100	8.616	8.599	8.634	VV	649	8463	0.15%	0.034%
101	8.666	8.634	8.691	VV	1227	26723	0.46%	0.108%
102	8.704	8.691	8.731	VV	722	12059	0.21%	0.049%
103	8.751	8.731	8.771	VV	815	10621	0.18%	0.043%
104	8.789	8.771	8.819	VV	882	11612	0.20%	0.047%
105	8.866	8.819	8.912	PV	370339	3801139	65.21%	15.378%
106	8.916	8.912	8.943	VV	1356	17933	0.31%	0.073%
107	8.961	8.943	8.991	VV	1372	24139	0.41%	0.098%
108	9.020	8.991	9.035	VV	990	20791	0.36%	0.084%
109	9.049	9.035	9.059	VV	822	10420	0.18%	0.042%
110	9.070	9.059	9.081	VV	839	9465	0.16%	0.038%
111	9.102	9.081	9.139	VV	1177	29415	0.50%	0.119%
112	9.162	9.139	9.173	VV	540	7538	0.13%	0.030%
113	9.180	9.173	9.196	VV	454	5482	0.09%	0.022%
114	9.210	9.196	9.226	VV	611	8690	0.15%	0.035%
115	9.237	9.226	9.253	VV	522	6538	0.11%	0.026%
116	9.284	9.253	9.347	VV	42655	489376	8.39%	1.980%
117	9.361	9.347	9.375	VV	1899	24038	0.41%	0.097%
118	9.400	9.375	9.421	VV	2697	46966	0.81%	0.190%
119	9.433	9.421	9.453	VV	1599	19457	0.33%	0.079%
120	9.471	9.453	9.502	VV	734	11318	0.19%	0.046%
121	9.525	9.502	9.547	VV	435	7224	0.12%	0.029%
122	9.571	9.547	9.589	VV	433	6708	0.12%	0.027%
123	9.608	9.589	9.647	VV	686	11949	0.20%	0.048%
124	9.668	9.647	9.704	VV	585	11708	0.20%	0.047%
125	9.710	9.704	9.726	VV	355	3365	0.06%	0.014%
126	9.750	9.726	9.791	VV	1565	23530	0.40%	0.095%
127	9.826	9.800	9.872	VV	360	9840	0.17%	0.040%
128	9.889	9.872	9.918	VV	675	9600	0.16%	0.039%
129	9.961	9.918	9.976	PV	348	7504	0.13%	0.030%
130	9.999	9.976	10.010	VV	1972	22877	0.39%	0.093%
131	10.030	10.010	10.062	VV	22182	235161	4.03%	0.951%
132	10.083	10.062	10.091	VV	629	8123	0.14%	0.033%
133	10.095	10.091	10.122	VV	634	6161	0.11%	0.025%
134	10.163	10.133	10.208	VV	2342	32074	0.55%	0.130%
135	10.235	10.208	10.257	VV	451	7639	0.13%	0.031%
136	10.262	10.257	10.295	VV	353	4250	0.07%	0.017%
137	10.359	10.295	10.381	VV	1912	26008	0.45%	0.105%
138	10.395	10.381	10.416	VV	118	1466	0.03%	0.006%
139	10.436	10.416	10.456	VV	205	2724	0.05%	0.011%
140	10.486	10.456	10.523	VV	425	11158	0.19%	0.045%
141	10.556	10.523	10.574	VV	526	10195	0.17%	0.041%

rteres

142	10.596	10.574	10.614	VV	682	11106	0.19%	0.045%
143	10.628	10.614	10.660	VV	549	10819	0.19%	0.044%
144	10.683	10.660	10.706	VV	776	11306	0.19%	0.046%
145	10.722	10.706	10.732	VV	332	3966	0.07%	0.016%
146	10.750	10.732	10.762	VV	583	7614	0.13%	0.031%
147	10.768	10.762	10.772	VV	539	2797	0.05%	0.011%
148	10.804	10.772	10.818	VV	931	19520	0.33%	0.079%
149	10.853	10.818	10.876	VV	983	22139	0.38%	0.090%
150	10.901	10.876	10.936	VV	886	21718	0.37%	0.088%
151	10.956	10.936	10.979	VV	938	15322	0.26%	0.062%
152	10.991	10.979	11.005	VV	586	8035	0.14%	0.033%
153	11.031	11.005	11.069	VV	1367	27208	0.47%	0.110%
154	11.091	11.069	11.104	VV	422	6892	0.12%	0.028%
155	11.123	11.104	11.134	VV	1120	13272	0.23%	0.054%
156	11.154	11.134	11.207	VV	7216	93959	1.61%	0.380%
157	11.229	11.207	11.265	VV	2375	31910	0.55%	0.129%
158	11.269	11.265	11.295	VV	1808	7305	0.13%	0.030%
159	11.325	11.295	11.349	VV	705	13922	0.24%	0.056%
160	11.355	11.349	11.374	VV	347	3231	0.06%	0.013%
161	11.442	11.374	11.481	VV	888	17428	0.30%	0.071%
162	11.486	11.481	11.501	PV	110	1031	0.02%	0.004%
163	11.539	11.509	11.560	VV	911	12960	0.22%	0.052%
164	11.576	11.560	11.589	VV	580	7011	0.12%	0.028%
165	11.605	11.589	11.642	VV	1761	24201	0.42%	0.098%
166	11.684	11.642	11.733	VV	1108	23762	0.41%	0.096%
167	11.764	11.733	11.782	VV	650	8837	0.15%	0.036%
168	11.799	11.782	11.831	VV	727	9337	0.16%	0.038%
169	11.850	11.831	11.881	VV	633	9291	0.16%	0.038%
170	11.927	11.881	11.973	VV	417752	4705911	80.73%	19.038%
171	11.990	11.973	12.042	VV	1592	31122	0.53%	0.126%
172	12.074	12.042	12.096	VV	1512	28406	0.49%	0.115%
173	12.107	12.096	12.119	VV	649	7369	0.13%	0.030%
174	12.135	12.119	12.167	VV	922	12551	0.22%	0.051%
175	12.181	12.167	12.187	VV	167	1284	0.02%	0.005%
176	12.215	12.187	12.229	VV	359	6376	0.11%	0.026%
177	12.268	12.229	12.289	VV	1022	21802	0.37%	0.088%
178	12.325	12.289	12.349	VV	7632	99818	1.71%	0.404%
179	12.366	12.349	12.391	VV	1653	20628	0.35%	0.083%
180	12.431	12.391	12.455	VV	1030	18841	0.32%	0.076%
181	12.521	12.455	12.592	VV	53740	659251	11.31%	2.667%
182	12.604	12.592	12.617	VV	677	8507	0.15%	0.034%
183	12.661	12.617	12.670	VV	653	16354	0.28%	0.066%
184	12.676	12.670	12.695	VV	582	8377	0.14%	0.034%
185	12.700	12.695	12.721	VV	602	7059	0.12%	0.029%
186	12.774	12.721	12.797	VV	4075	68658	1.18%	0.278%
187	12.807	12.797	12.829	VV	740	9113	0.16%	0.037%
188	12.854	12.829	12.878	VV	1805	26438	0.45%	0.107%
189	12.914	12.878	12.937	VV	2256	33154	0.57%	0.134%
190	12.943	12.937	12.947	VV	281	1508	0.03%	0.006%
191	12.973	12.947	13.027	VV	13848	168584	2.89%	0.682%
192	13.032	13.027	13.059	VV	119	1211	0.02%	0.005%
193	13.063	13.059	13.092	PV	71	1074	0.02%	0.004%
194	13.110	13.092	13.138	VV	273	4911	0.08%	0.020%

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195	13.163	13.138	13.232	VV	692	20143	0.35%	0.081%
196	13.271	13.232	13.301	VV	12365	139275	2.39%	0.563%
197	13.360	13.301	13.393	VV	97200	1201065	20.60%	4.859%
198	13.404	13.393	13.424	VV	532	8291	0.14%	0.034%
199	13.444	13.424	13.465	VV	812	13770	0.24%	0.056%
200	13.472	13.465	13.500	VV	427	5640	0.10%	0.023%
201	13.540	13.500	13.559	VV	2141	37492	0.64%	0.152%
202	13.583	13.559	13.641	VV	4833	104281	1.79%	0.422%
203	13.648	13.641	13.655	VV	808	6564	0.11%	0.027%
204	13.670	13.655	13.687	VV	971	14648	0.25%	0.059%
205	13.752	13.687	13.819	VV	14070	217719	3.73%	0.881%
206	13.859	13.819	13.888	VV	2446	47152	0.81%	0.191%
207	13.929	13.888	13.949	VV	884	19254	0.33%	0.078%
208	13.968	13.949	13.991	VV	1548	26173	0.45%	0.106%
209	14.007	13.991	14.031	VV	1234	18954	0.33%	0.077%
210	14.059	14.031	14.084	VV	1524	27698	0.48%	0.112%
211	14.114	14.084	14.127	VV	2003	30596	0.52%	0.124%
212	14.135	14.127	14.156	VV	1567	19045	0.33%	0.077%
213	14.177	14.156	14.204	VV	902	14300	0.25%	0.058%
214	14.207	14.204	14.230	VV	269	2903	0.05%	0.012%
215	14.247	14.230	14.261	VV	264	3664	0.06%	0.015%
216	14.278	14.261	14.307	VV	255	4350	0.07%	0.018%
217	14.348	14.307	14.362	VV	264	5926	0.10%	0.024%
218	14.367	14.362	14.374	VV	205	1306	0.02%	0.005%
219	14.381	14.374	14.393	VV	194	1542	0.03%	0.006%
220	14.398	14.393	14.414	VV	117	1135	0.02%	0.005%
221	14.448	14.427	14.463	PV	246	3296	0.06%	0.013%
222	14.471	14.463	14.482	VV	205	1628	0.03%	0.007%
223	14.505	14.482	14.525	VV	780	13256	0.23%	0.054%
224	14.549	14.525	14.567	VV	1916	30472	0.52%	0.123%
225	14.586	14.567	14.629	VV	2347	42211	0.72%	0.171%
226	14.632	14.629	14.646	VV	310	2446	0.04%	0.010%
227	14.675	14.646	14.691	VV	1153	17688	0.30%	0.072%
228	14.712	14.691	14.745	VV	699	16752	0.29%	0.068%
229	14.774	14.745	14.794	VV	1484	25101	0.43%	0.102%
230	14.805	14.794	14.815	VV	497	5508	0.09%	0.022%
231	14.837	14.815	14.865	VV	2506	35453	0.61%	0.143%
232	14.895	14.865	14.944	VV	1432	25724	0.44%	0.104%
233	14.969	14.944	14.973	VV	394	5622	0.10%	0.023%
234	14.995	14.973	15.010	VV	713	11597	0.20%	0.047%
235	15.021	15.010	15.048	VV	698	10499	0.18%	0.042%
236	15.063	15.048	15.093	VV	388	7724	0.13%	0.031%
237	15.105	15.093	15.121	VV	365	4313	0.07%	0.017%
238	15.147	15.121	15.166	VV	7333	91796	1.57%	0.371%
239	15.187	15.166	15.241	VV	8238	133781	2.29%	0.541%
240	15.259	15.241	15.288	VV	1633	23538	0.40%	0.095%
241	15.310	15.288	15.338	VV	1737	25763	0.44%	0.104%
242	15.343	15.338	15.364	VV	398	3986	0.07%	0.016%
243	15.386	15.364	15.411	VV	917	13283	0.23%	0.054%
244	15.454	15.424	15.470	PV	683	11201	0.19%	0.045%
245	15.487	15.470	15.500	VV	594	8797	0.15%	0.036%
246	15.513	15.500	15.540	VV	454	6883	0.12%	0.028%

247	15.597	15.561	15.674	VV	11528	227710	3.91%	0.921%
248	15.695	15.674	15.710	VV	585	9757	0.17%	0.039%
249	15.754	15.710	15.777	VV	5976	96045	1.65%	0.389%
250	15.790	15.777	15.802	VV	974	13002	0.22%	0.053%
251	15.821	15.802	15.844	VV	1829	26377	0.45%	0.107%
252	15.859	15.844	15.889	VV	1262	18052	0.31%	0.073%
253	15.904	15.889	15.916	VV	361	4200	0.07%	0.017%
254	15.960	15.916	15.971	VV	1026	19812	0.34%	0.080%
255	15.982	15.971	16.015	VV	1062	18117	0.31%	0.073%
256	16.056	16.015	16.086	VV	610	14441	0.25%	0.058%
257	16.120	16.086	16.162	VV	951	28656	0.49%	0.116%
258	16.196	16.162	16.214	VV	981	20176	0.35%	0.082%
259	16.238	16.214	16.272	VV	1768	30089	0.52%	0.122%
260	16.298	16.272	16.341	VV	3255	48302	0.83%	0.195%
261	16.371	16.361	16.393	VV	217	2774	0.05%	0.011%
262	16.430	16.393	16.445	PV	652	11213	0.19%	0.045%
263	16.454	16.445	16.470	VV	270	2217	0.04%	0.009%
264	16.531	16.470	16.554	PV	454	10389	0.18%	0.042%
265	16.612	16.554	16.669	VV	7897	170610	2.93%	0.690%
266	16.705	16.669	16.724	VV	9741	157715	2.71%	0.638%
267	16.730	16.724	16.766	VV	4574	51793	0.89%	0.210%
268	16.794	16.766	16.818	VV	1650	30664	0.53%	0.124%
269	16.845	16.818	16.901	VV	3982	78610	1.35%	0.318%
270	16.914	16.901	16.937	VV	551	8636	0.15%	0.035%
271	16.956	16.937	16.976	VV	399	6136	0.11%	0.025%
272	17.024	16.976	17.051	VV	5716	92831	1.59%	0.376%
273	17.082	17.051	17.129	VV	7083	104088	1.79%	0.421%
274	17.154	17.129	17.166	VV	1445	21034	0.36%	0.085%
275	17.185	17.166	17.208	VV	3284	46266	0.79%	0.187%
276	17.236	17.208	17.249	VV	8234	113006	1.94%	0.457%
277	17.263	17.249	17.297	VV	9093	128088	2.20%	0.518%
278	17.301	17.297	17.314	VV	549	5075	0.09%	0.021%
279	17.337	17.314	17.354	VV	587	11032	0.19%	0.045%
280	17.388	17.354	17.412	VV	703	15436	0.26%	0.062%
281	17.455	17.412	17.481	VV	1335	34202	0.59%	0.138%
282	17.498	17.481	17.503	VV	808	9444	0.16%	0.038%
283	17.553	17.503	17.602	VV	11998	270586	4.64%	1.095%
284	17.607	17.602	17.612	VV	2149	12586	0.22%	0.051%
285	17.636	17.612	17.666	VV	4982	85574	1.47%	0.346%
286	17.673	17.666	17.681	VV	720	6312	0.11%	0.026%
287	17.722	17.681	17.769	VV	1885	45316	0.78%	0.183%
288	17.807	17.769	17.832	VV	3436	50370	0.86%	0.204%
289	17.860	17.832	17.890	VV	1620	29418	0.50%	0.119%
290	17.934	17.890	17.941	PV	1074	18124	0.31%	0.073%
291	17.951	17.941	17.976	VV	1143	18008	0.31%	0.073%
292	18.008	17.976	18.026	VV	2121	40667	0.70%	0.165%
293	18.046	18.026	18.059	VV	2351	37441	0.64%	0.151%
294	18.071	18.059	18.098	VV	2216	36414	0.62%	0.147%
295	18.115	18.098	18.126	VV	1123	15488	0.27%	0.063%
296	18.163	18.126	18.192	VV	15176	242222	4.16%	0.980%
297	18.205	18.192	18.233	VV	1563	28202	0.48%	0.114%
298	18.256	18.233	18.266	VV	2077	28744	0.49%	0.116%
299	18.285	18.266	18.309	VV	4405	72934	1.25%	0.295%

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300	18.330	18.309	18.351	VV	3341	62310	1.07%	0.252%
301	18.359	18.351	18.372	VV	2019	21986	0.38%	0.089%
302	18.398	18.372	18.412	VV	6361	96201	1.65%	0.389%
303	18.436	18.412	18.475	VV	17572	393460	6.75%	1.592%
304	18.497	18.475	18.524	VV	8465	152779	2.62%	0.618%
305	18.558	18.524	18.570	VV	2817	55060	0.94%	0.223%
306	18.592	18.570	18.636	VV	4525	118415	2.03%	0.479%
307	18.644	18.636	18.675	VV	1537	19821	0.34%	0.080%
308	18.704	18.675	18.739	PV	5450	75913	1.30%	0.307%
309	18.743	18.739	18.752	VV	337	1231	0.02%	0.005%
310	18.794	18.752	18.801	PBA	618	20444	0.35%	0.083%

Sum of corrected areas: 24718006

Aromatic EPH 110724.M Thu Nov 14 03:16:57 2024

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

Report of Analysis

Client:	BAPS North Bergen	Date Collected:	11/12/24
Project:	BAPS North Bergen	Date Received:	11/12/24
Client Sample ID:	SOIL-4	SDG No.:	P4822
Lab Sample ID:	P4822-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/14/24 2:13	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.41	U	1	0.41	1.07	mg/kg	FE051219.D
Aliphatic C12-C16	Aliphatic C12-C16	0.58	J	1	0.26	0.71	mg/kg	FE051219.D
Aliphatic C16-C21	Aliphatic C16-C21	0.48	J	1	0.32	1.07	mg/kg	FE051219.D
Aliphatic C21-C28	Aliphatic C21-C28	1.27	J	1	0.85	1.42	mg/kg	FE051219.D
Aliphatic C28-C40	Aliphatic C28-C40	18.9		1	1.92	2.13	mg/kg	FE051219.D
Aromatic C10-C12	Aromatic C10-C12	0.45	J	1	0.32	0.71	mg/kg	FF015019.D
Aromatic C12-C16	Aromatic C12-C16	4.10		1	0.36	1.07	mg/kg	FF015019.D
Aromatic C16-C21	Aromatic C16-C21	10.1		1	1.02	1.78	mg/kg	FF015019.D
Aromatic C21-C36	Aromatic C21-C36	14.6		1	2.13	2.85	mg/kg	FF015019.D
Total AliphaticEPH	Total AliphaticEPH	21.2			3.75	6.40	mg/kg	
Total AromaticEPH	Total AromaticEPH	29.3			3.83	6.41	mg/kg	
Total EPH	Total EPH	50.5			7.59	12.8	mg/kg	

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

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-4		SDG No.:	P4822	
Lab Sample ID:	P4822-07		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	93.5	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051219.D	1	11/13/24	11/14/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.41	U	0.41	1.07	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.58	J	0.26	0.71	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.48	J	0.32	1.07	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	1.27	J	0.85	1.42	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	18.9		1.92	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.9		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4822-07	Acq On:	14 Nov 2024 02:13
Client Sample ID:	SOIL-4	Operator:	YP\AJ
Data file:	FE051219.D	Misc:	
Instrument:	FID_E	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.138	6.755	431903	3.087	300	ug/ml
Aliphatic C12-C16	6.756	10.187	1142258	8.122	200	ug/ml
Aliphatic C16-C21	10.188	13.546	933124	6.773	300	ug/ml
Aliphatic C21-C28	13.547	17.200	2388026	17.828	400	ug/ml
Aliphatic C28-C40	17.201	22.043	34293646	266.362	600	ug/ml
Aliphatic EPH	3.138	22.043	39188957	302.171		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.281	13.281	4869544	42.89		ug/ml
Aliphatic C9-C28	3.138	17.200	4895311	35.81	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051219.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 02:13
Operator : YP\AJ
Sample : P4822-07
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SOIL-4

Integration File: autoint1.e
Quant Time: Nov 14 04:08:36 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			
12) S 1-chlorooctadecane (S...	13.281	4869544	42.892 ug/ml
Spiked Amount 50.000		Recovery = 85.78%	
Target Compounds			

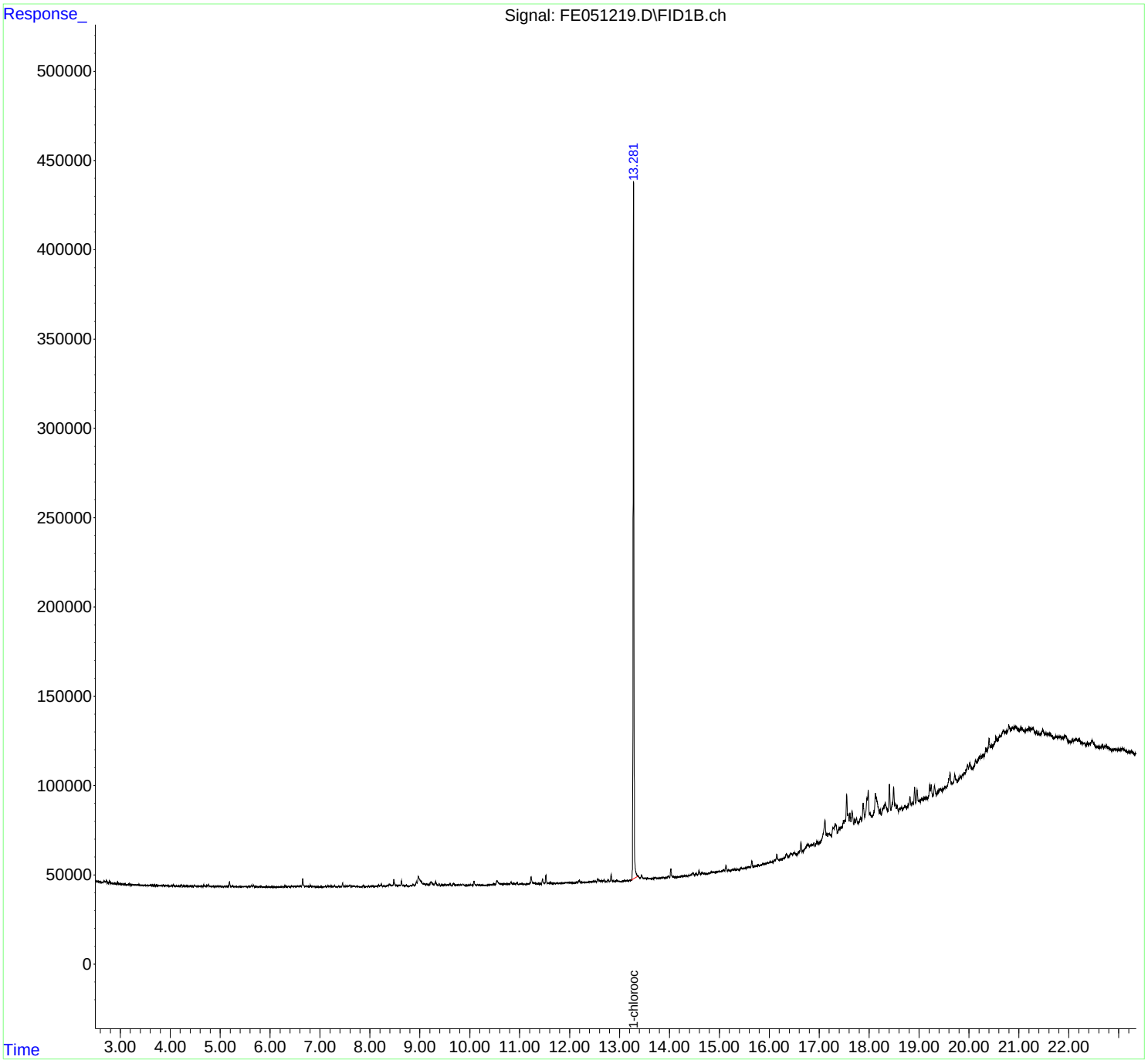
(f)=RT Delta > 1/2 Window (m)=manual int.

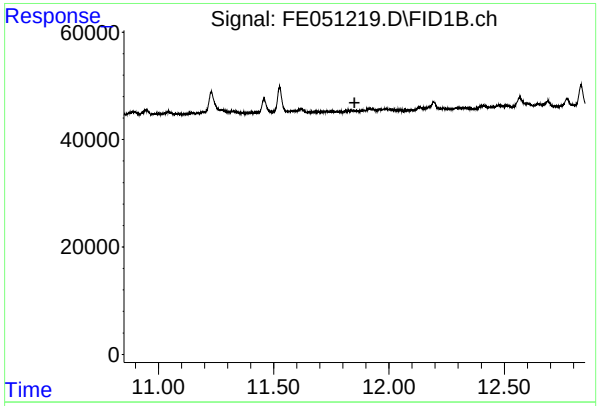
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051219.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 02:13
Operator : YP\AJ
Sample : P4822-07
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SOIL-4

Integration File: autoint1.e
Quant Time: Nov 14 04:08:36 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

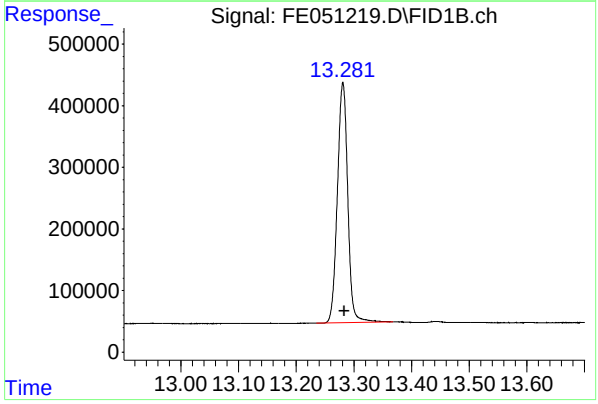




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
SOIL-4



#12 1-chlorooctadecane (SURR)

R.T.: 13.281 min
Delta R.T.: -0.002 min
Response: 4869544
Conc: 42.89 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051219.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 02:13
Sample : P4822-07
Misc :
ALS Vial : 25 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	3.239	3.205	3.316	BV	277	3443	0.07%	0.008%
2	3.328	3.316	3.382	PV	79	2731	0.05%	0.006%
3	3.390	3.382	3.428	VV	100	1855	0.04%	0.004%
4	3.450	3.428	3.467	PV	114	1364	0.03%	0.003%
5	3.484	3.467	3.528	VV	113	2377	0.05%	0.005%
6	3.547	3.528	3.605	VV	159	4843	0.10%	0.011%
7	3.622	3.605	3.667	VV	233	3646	0.07%	0.008%
8	3.684	3.667	3.714	VV	189	2361	0.05%	0.005%
9	3.729	3.714	3.763	VV	88	1425	0.03%	0.003%
10	3.770	3.763	3.807	VV	60	1103	0.02%	0.002%
11	3.818	3.807	3.824	PV	102	486	0.01%	0.001%
12	3.835	3.824	3.849	VV	106	1443	0.03%	0.003%
13	3.865	3.849	3.912	VV	275	4675	0.09%	0.010%
14	3.928	3.912	3.991	VV	211	3936	0.08%	0.009%
15	4.028	3.991	4.042	PV	304	4277	0.08%	0.010%
16	4.060	4.042	4.132	VV	672	9816	0.19%	0.022%
17	4.143	4.132	4.188	VV	117	1746	0.03%	0.004%
18	4.195	4.188	4.207	VV	123	954	0.02%	0.002%
19	4.229	4.207	4.344	VV	667	12635	0.25%	0.028%
20	4.390	4.344	4.434	VV	126	3612	0.07%	0.008%
21	4.438	4.434	4.465	VV	111	733	0.01%	0.002%
22	4.488	4.465	4.526	PV	563	7519	0.15%	0.017%
23	4.535	4.526	4.591	VV	150	2249	0.04%	0.005%
24	4.612	4.591	4.643	VV	311	4604	0.09%	0.010%
25	4.674	4.643	4.720	VV	828	13251	0.26%	0.029%
26	4.736	4.720	4.751	VV	659	6582	0.13%	0.015%
27	4.769	4.751	4.840	VV	1242	16149	0.32%	0.036%
28	4.850	4.840	4.884	VV	147	1983	0.04%	0.004%
29	4.918	4.884	4.965	VV	243	6296	0.12%	0.014%
30	4.985	4.965	5.056	VV	173	4628	0.09%	0.010%
31	5.073	5.056	5.088	PV	86	1240	0.02%	0.003%
32	5.100	5.088	5.138	VV	234	3508	0.07%	0.008%
33	5.186	5.138	5.220	VV	2839	39060	0.78%	0.087%
34	5.247	5.220	5.272	VV	704	9151	0.18%	0.020%
35	5.288	5.272	5.350	VV	176	4884	0.10%	0.011%
36	5.394	5.350	5.409	VV	228	4345	0.09%	0.010%

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37	5.414	5.409	5.455	VV	152	2734	0.05%	0.006%
38	5.499	5.455	5.545	VV	274	8468	0.17%	0.019%
39	5.585	5.545	5.602	VV	265	4374	0.09%	0.010%
40	5.627	5.602	5.645	VV	742	9868	0.20%	0.022%
41	5.665	5.645	5.710	VV	1249	16150	0.32%	0.036%
42	5.728	5.710	5.760	VV	292	4489	0.09%	0.010%
43	5.801	5.760	5.869	VV	360	10026	0.20%	0.022%
44	5.883	5.869	5.901	VV	114	1372	0.03%	0.003%
45	5.926	5.901	5.971	VV	299	6152	0.12%	0.014%
46	5.979	5.971	6.003	VV	130	2430	0.05%	0.005%
47	6.016	6.003	6.028	VV	169	1803	0.04%	0.004%
48	6.033	6.028	6.087	VV	164	2610	0.05%	0.006%
49	6.101	6.087	6.129	PV	168	1945	0.04%	0.004%
50	6.148	6.129	6.165	VV	139	1932	0.04%	0.004%
51	6.178	6.165	6.188	VV	102	1035	0.02%	0.002%
52	6.218	6.188	6.230	VV	151	3063	0.06%	0.007%
53	6.256	6.230	6.274	VV	283	5521	0.11%	0.012%
54	6.300	6.274	6.322	VV	609	9447	0.19%	0.021%
55	6.365	6.322	6.388	VV	431	9377	0.19%	0.021%
56	6.438	6.388	6.461	VV	453	13650	0.27%	0.030%
57	6.477	6.461	6.525	VV	397	12837	0.25%	0.029%
58	6.546	6.525	6.598	VV	473	17894	0.36%	0.040%
59	6.614	6.598	6.627	VV	460	7748	0.15%	0.017%
60	6.655	6.627	6.718	VV	4674	70371	1.40%	0.157%
61	6.736	6.718	6.761	VV	753	11697	0.23%	0.026%
62	6.777	6.761	6.788	VV	500	6059	0.12%	0.013%
63	6.806	6.788	6.831	VV	1048	14605	0.29%	0.032%
64	6.839	6.831	6.862	VV	414	5103	0.10%	0.011%
65	6.880	6.862	6.938	VV	515	7996	0.16%	0.018%
66	6.944	6.938	6.955	VV	56	719	0.01%	0.002%
67	6.971	6.955	6.998	VV	141	1556	0.03%	0.003%
68	7.024	6.998	7.078	PV	185	3407	0.07%	0.008%
69	7.106	7.078	7.133	VV	533	6430	0.13%	0.014%
70	7.159	7.133	7.197	VV	515	11075	0.22%	0.025%
71	7.211	7.197	7.258	VV	529	11607	0.23%	0.026%
72	7.289	7.258	7.317	VV	781	12922	0.26%	0.029%
73	7.337	7.317	7.353	VV	142	2638	0.05%	0.006%
74	7.378	7.353	7.389	VV	311	4434	0.09%	0.010%
75	7.395	7.389	7.428	VV	242	3070	0.06%	0.007%
76	7.454	7.428	7.485	VV	2108	24749	0.49%	0.055%
77	7.513	7.485	7.528	VV	315	5915	0.12%	0.013%
78	7.534	7.528	7.548	VV	293	3123	0.06%	0.007%
79	7.564	7.548	7.575	VV	482	5424	0.11%	0.012%
80	7.600	7.575	7.645	VV	1092	20887	0.41%	0.046%
81	7.660	7.645	7.678	VV	427	5524	0.11%	0.012%
82	7.690	7.678	7.716	VV	328	5048	0.10%	0.011%
83	7.728	7.716	7.745	VV	149	1954	0.04%	0.004%
84	7.764	7.745	7.801	VV	176	2787	0.06%	0.006%
85	7.811	7.801	7.838	VV	93	869	0.02%	0.002%
86	7.862	7.838	7.917	PV	757	12002	0.24%	0.027%
87	7.942	7.917	7.989	VV	174	4497	0.09%	0.010%
88	8.029	7.989	8.047	PV	392	7522	0.15%	0.017%
89	8.062	8.047	8.104	VV	280	5755	0.11%	0.013%

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90	8.130	8.104	8.148	VV	290	3623	0.07%	0.008%
91	8.172	8.148	8.192	VV	840	11031	0.22%	0.025%
92	8.231	8.192	8.253	VV	1323	23900	0.47%	0.053%
93	8.271	8.253	8.287	VV	378	5007	0.10%	0.011%
94	8.390	8.287	8.451	VV	1218	54444	1.08%	0.121%
95	8.480	8.451	8.548	VV	3876	69979	1.39%	0.156%
96	8.578	8.548	8.608	VV	551	15122	0.30%	0.034%
97	8.633	8.608	8.661	VV	3066	39752	0.79%	0.088%
98	8.673	8.661	8.693	VV	393	5247	0.10%	0.012%
99	8.715	8.693	8.791	VV	580	14189	0.28%	0.032%
100	8.862	8.791	8.884	VV	1027	24221	0.48%	0.054%
101	8.931	8.884	8.945	VV	2373	44466	0.88%	0.099%
102	8.972	8.945	9.119	VV	5432	249565	4.95%	0.555%
103	9.134	9.119	9.181	VV	965	30333	0.60%	0.067%
104	9.219	9.181	9.282	VV	2326	79041	1.57%	0.176%
105	9.316	9.282	9.368	VV	2413	58882	1.17%	0.131%
106	9.390	9.368	9.421	VV	877	17152	0.34%	0.038%
107	9.440	9.421	9.461	VV	588	9201	0.18%	0.020%
108	9.519	9.461	9.574	VV	614	29501	0.59%	0.066%
109	9.606	9.574	9.644	VV	1062	23353	0.46%	0.052%
110	9.669	9.644	9.714	VV	1122	27553	0.55%	0.061%
111	9.726	9.714	9.748	VV	378	6444	0.13%	0.014%
112	9.770	9.748	9.791	VV	597	10697	0.21%	0.024%
113	9.809	9.791	9.844	VV	520	10992	0.22%	0.024%
114	9.864	9.844	9.917	VV	903	15408	0.31%	0.034%
115	9.960	9.917	9.984	VV	218	4772	0.09%	0.011%
116	10.008	9.984	10.029	VV	649	9764	0.19%	0.022%
117	10.043	10.029	10.060	VV	268	4381	0.09%	0.010%
118	10.085	10.060	10.138	VV	2435	36800	0.73%	0.082%
119	10.156	10.138	10.224	VV	306	9761	0.19%	0.022%
120	10.256	10.224	10.310	VV	199	5417	0.11%	0.012%
121	10.367	10.310	10.379	PV	244	4524	0.09%	0.010%
122	10.404	10.379	10.418	VV	292	4213	0.08%	0.009%
123	10.476	10.418	10.496	VV	692	15884	0.32%	0.035%
124	10.542	10.496	10.658	VV	2386	93326	1.85%	0.208%
125	10.681	10.658	10.694	VV	499	9261	0.18%	0.021%
126	10.707	10.694	10.731	VV	515	9435	0.19%	0.021%
127	10.755	10.731	10.783	VV	636	15016	0.30%	0.033%
128	10.824	10.783	10.858	VV	1410	31076	0.62%	0.069%
129	10.897	10.858	10.919	VV	623	15704	0.31%	0.035%
130	10.947	10.919	10.974	VV	921	17224	0.34%	0.038%
131	11.043	10.974	11.101	VV	533	16536	0.33%	0.037%
132	11.108	11.101	11.118	VV	94	911	0.02%	0.002%
133	11.147	11.118	11.161	VV	282	4975	0.10%	0.011%
134	11.172	11.161	11.181	VV	203	2142	0.04%	0.005%
135	11.229	11.181	11.308	VV	4136	92780	1.84%	0.206%
136	11.320	11.308	11.375	VV	476	10702	0.21%	0.024%
137	11.403	11.375	11.407	VV	134	2143	0.04%	0.005%
138	11.458	11.407	11.490	VV	2733	40481	0.80%	0.090%
139	11.525	11.490	11.558	VV	4843	68227	1.35%	0.152%
140	11.620	11.558	11.667	VV	795	21137	0.42%	0.047%
141	11.692	11.667	11.707	PV	136	2354	0.05%	0.005%

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142	11.722	11.707	11.745	VV	190	2804	0.06%	0.006%
143	11.762	11.745	11.788	VV	138	2171	0.04%	0.005%
144	11.839	11.788	11.873	VV	243	8198	0.16%	0.018%
145	11.916	11.873	11.947	VV	529	12935	0.26%	0.029%
146	11.984	11.947	12.061	VV	464	16679	0.33%	0.037%
147	12.096	12.061	12.106	PV	63	1940	0.04%	0.004%
148	12.132	12.106	12.151	VV	561	9231	0.18%	0.021%
149	12.194	12.151	12.267	VV	1541	35516	0.71%	0.079%
150	12.301	12.267	12.308	VV	316	4789	0.10%	0.011%
151	12.326	12.308	12.378	VV	266	7613	0.15%	0.017%
152	12.406	12.378	12.434	VV	650	13905	0.28%	0.031%
153	12.477	12.434	12.499	VV	647	17589	0.35%	0.039%
154	12.515	12.499	12.535	VV	515	8898	0.18%	0.020%
155	12.568	12.535	12.625	VV	2066	52082	1.03%	0.116%
156	12.647	12.625	12.661	VV	665	12563	0.25%	0.028%
157	12.690	12.661	12.734	VV	1217	24766	0.49%	0.055%
158	12.771	12.734	12.803	VV	1550	27002	0.54%	0.060%
159	12.833	12.803	12.911	VV	4130	64897	1.29%	0.144%
160	12.949	12.911	13.008	VV	653	19032	0.38%	0.042%
161	13.036	13.008	13.055	PV	174	2081	0.04%	0.005%
162	13.091	13.055	13.136	VV	365	10034	0.20%	0.022%
163	13.153	13.136	13.171	PV	308	4386	0.09%	0.010%
164	13.281	13.171	13.419	VV	390899	5036705	100.00%	11.205%
165	13.443	13.419	13.500	VV	2798	69291	1.38%	0.154%
166	13.516	13.500	13.549	VV	940	21254	0.42%	0.047%
167	13.606	13.549	13.625	VV	651	21462	0.43%	0.048%
168	13.712	13.625	13.762	VV	927	34725	0.69%	0.077%
169	13.786	13.762	13.807	VV	299	6175	0.12%	0.014%
170	13.827	13.807	13.844	VV	338	5875	0.12%	0.013%
171	13.879	13.844	13.918	VV	452	11769	0.23%	0.026%
172	13.937	13.918	13.949	VV	313	4298	0.09%	0.010%
173	13.978	13.949	14.002	VV	1323	19676	0.39%	0.044%
174	14.028	14.002	14.121	VV	4955	82518	1.64%	0.184%
175	14.129	14.121	14.145	VV	92	880	0.02%	0.002%
176	14.181	14.145	14.216	PV	211	4190	0.08%	0.009%
177	14.242	14.216	14.278	PV	487	9739	0.19%	0.022%
178	14.296	14.278	14.312	VV	364	4332	0.09%	0.010%
179	14.333	14.312	14.366	VV	410	6917	0.14%	0.015%
180	14.439	14.366	14.451	VV	845	16789	0.33%	0.037%
181	14.472	14.451	14.503	VV	1616	28328	0.56%	0.063%
182	14.533	14.503	14.568	VV	1136	20374	0.40%	0.045%
183	14.590	14.568	14.626	VV	2355	37383	0.74%	0.083%
184	14.649	14.626	14.685	VV	1278	23608	0.47%	0.053%
185	14.702	14.685	14.741	VV	577	9596	0.19%	0.021%
186	14.758	14.741	14.780	PV	252	3074	0.06%	0.007%
187	14.838	14.780	14.858	VV	905	16455	0.33%	0.037%
188	14.880	14.858	14.897	VV	746	11872	0.24%	0.026%
189	14.910	14.897	14.924	VV	520	6073	0.12%	0.014%
190	14.939	14.924	14.957	VV	390	5577	0.11%	0.012%
191	14.996	14.957	15.025	VV	592	15597	0.31%	0.035%
192	15.054	15.025	15.063	VV	591	9537	0.19%	0.021%
193	15.086	15.063	15.104	VV	1233	19261	0.38%	0.043%
194	15.130	15.104	15.158	VV	3624	56488	1.12%	0.126%

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195	15.175	15.158	15.225	VV	647	15838	0.31%	0.035%
196	15.261	15.225	15.275	VV	856	11558	0.23%	0.026%
197	15.299	15.275	15.318	VV	698	12356	0.25%	0.027%
198	15.327	15.318	15.346	VV	546	6854	0.14%	0.015%
199	15.387	15.346	15.408	VV	359	8420	0.17%	0.019%
200	15.438	15.408	15.461	PV	782	16238	0.32%	0.036%
201	15.472	15.461	15.488	VV	491	6573	0.13%	0.015%
202	15.502	15.488	15.511	VV	448	5006	0.10%	0.011%
203	15.518	15.511	15.531	VV	317	2917	0.06%	0.006%
204	15.554	15.531	15.571	VV	591	11254	0.22%	0.025%
205	15.584	15.571	15.625	VV	652	13387	0.27%	0.030%
206	15.649	15.625	15.691	VV	3770	54521	1.08%	0.121%
207	15.722	15.691	15.731	VV	331	6005	0.12%	0.013%
208	15.780	15.731	15.803	VV	937	16544	0.33%	0.037%
209	15.869	15.803	15.894	PV	685	19799	0.39%	0.044%
210	15.907	15.894	15.926	VV	501	6536	0.13%	0.015%
211	15.962	15.926	15.990	PV	808	15970	0.32%	0.036%
212	16.021	15.990	16.038	VV	635	14192	0.28%	0.032%
213	16.062	16.038	16.070	VV	300	5279	0.10%	0.012%
214	16.113	16.070	16.123	VV	1067	18710	0.37%	0.042%
215	16.151	16.123	16.214	VV	3870	75459	1.50%	0.168%
216	16.250	16.214	16.260	VV	345	7624	0.15%	0.017%
217	16.282	16.260	16.305	PV	743	12195	0.24%	0.027%
218	16.346	16.305	16.381	VV	2356	55809	1.11%	0.124%
219	16.435	16.381	16.462	VV	1996	57849	1.15%	0.129%
220	16.503	16.462	16.548	VV	1594	57451	1.14%	0.128%
221	16.632	16.548	16.661	PV	6346	126064	2.50%	0.280%
222	16.672	16.661	16.678	VV	767	7289	0.14%	0.016%
223	16.777	16.678	16.806	VV	3500	175410	3.48%	0.390%
224	16.841	16.806	16.873	VV	2701	96574	1.92%	0.215%
225	16.891	16.873	16.921	VV	3154	63830	1.27%	0.142%
226	16.955	16.921	16.991	VV	3247	101487	2.01%	0.226%
227	17.113	16.991	17.139	VV	13687	500977	9.95%	1.115%
228	17.153	17.139	17.169	VV	5832	91283	1.81%	0.203%
229	17.190	17.169	17.244	VV	5248	198200	3.94%	0.441%
230	17.286	17.244	17.295	VV	7535	191222	3.80%	0.425%
231	17.329	17.295	17.367	VV	8887	307157	6.10%	0.683%
232	17.429	17.367	17.444	VV	6247	256953	5.10%	0.572%
233	17.484	17.444	17.496	VV	9413	221227	4.39%	0.492%
234	17.512	17.496	17.523	VV	9347	143783	2.85%	0.320%
235	17.549	17.523	17.597	VV	23219	612560	12.16%	1.363%
236	17.614	17.597	17.633	VV	12157	209719	4.16%	0.467%
237	17.658	17.633	17.691	VV	12785	322854	6.41%	0.718%
238	17.710	17.691	17.726	VV	7441	136170	2.70%	0.303%
239	17.746	17.726	17.766	VV	8239	162772	3.23%	0.362%
240	17.775	17.766	17.794	VV	5474	88955	1.77%	0.198%
241	17.829	17.794	17.849	VV	7638	206417	4.10%	0.459%
242	17.880	17.849	17.911	VV	14662	363378	7.21%	0.808%
243	17.954	17.911	17.964	VV	17034	373315	7.41%	0.831%
244	17.980	17.964	18.006	VV	21300	377613	7.50%	0.840%
245	18.018	18.006	18.043	VV	8197	158516	3.15%	0.353%
246	18.056	18.043	18.068	VV	6055	86316	1.71%	0.192%

247	18.123	18.068	18.203	VV	18050	869399	17.26%	1.934%
248	18.220	18.203	18.243	VV	7538	153014	3.04%	0.340%
249	18.295	18.243	18.303	VV	9139	261338	5.19%	0.581%
250	18.321	18.303	18.378	VV	10718	359330	7.13%	0.799%
251	18.405	18.378	18.433	VV	20026	367165	7.29%	0.817%
252	18.489	18.433	18.513	VV	17868	473300	9.40%	1.053%
253	18.522	18.513	18.543	VV	7770	120262	2.39%	0.268%
254	18.557	18.543	18.587	VV	6078	129213	2.57%	0.287%
255	18.642	18.587	18.665	VV	4525	178495	3.54%	0.397%
256	18.712	18.665	18.736	VV	4402	161878	3.21%	0.360%
257	18.743	18.736	18.757	VV	3704	45039	0.89%	0.100%
258	18.816	18.757	18.841	VV	8447	257754	5.12%	0.573%
259	18.864	18.841	18.880	VV	5202	102072	2.03%	0.227%
260	18.911	18.880	18.935	VV	13079	246455	4.89%	0.548%
261	18.960	18.935	18.992	VV	11196	239690	4.76%	0.533%
262	19.011	18.992	19.023	VV	4704	79107	1.57%	0.176%
263	19.051	19.023	19.064	VV	5349	110638	2.20%	0.246%
264	19.104	19.064	19.117	VV	4769	142574	2.83%	0.317%
265	19.128	19.117	19.171	VV	4915	147549	2.93%	0.328%
266	19.212	19.171	19.226	VV	11268	233308	4.63%	0.519%
267	19.242	19.226	19.280	VV	10886	230129	4.57%	0.512%
268	19.309	19.280	19.358	VV	9426	286501	5.69%	0.637%
269	19.427	19.358	19.454	VV	6493	328522	6.52%	0.731%
270	19.520	19.454	19.538	VV	6805	300916	5.97%	0.669%
271	19.621	19.538	19.651	VV	13606	602582	11.96%	1.341%
272	19.714	19.651	19.765	VV	11630	569859	11.31%	1.268%
273	19.831	19.765	19.850	VV	9419	427307	8.48%	0.951%
274	19.875	19.850	19.886	VV	10152	209518	4.16%	0.466%
275	19.898	19.886	19.920	VV	10983	205979	4.09%	0.458%
276	19.973	19.920	19.990	VV	14249	512091	10.17%	1.139%
277	20.018	19.990	20.073	VV	14965	626602	12.44%	1.394%
278	20.129	20.073	20.163	VV	15493	706463	14.03%	1.572%
279	20.209	20.163	20.224	VV	16619	555426	11.03%	1.236%
280	20.242	20.224	20.255	VV	16722	301551	5.99%	0.671%
281	20.276	20.255	20.302	VV	16919	454973	9.03%	1.012%
282	20.337	20.302	20.358	VV	19930	587633	11.67%	1.307%
283	20.402	20.358	20.433	VV	24524	921704	18.30%	2.050%
284	20.462	20.433	20.471	VV	19757	451060	8.96%	1.003%
285	20.540	20.471	20.563	VV	23992	1167832	23.19%	2.598%
286	20.575	20.563	20.581	VV	22123	231200	4.59%	0.514%
287	20.608	20.581	20.635	VV	23866	742471	14.74%	1.652%
288	20.693	20.635	20.716	VV	26165	1216538	24.15%	2.706%
289	20.727	20.716	20.743	VV	24680	393531	7.81%	0.875%
290	20.756	20.743	20.765	VV	24781	312475	6.20%	0.695%
291	20.796	20.765	20.841	VV	27878	1184977	23.53%	2.636%
292	20.868	20.841	20.892	VV	25691	763064	15.15%	1.698%
293	20.911	20.892	20.921	VV	25943	441466	8.76%	0.982%
294	20.931	20.921	20.941	VV	25278	309352	6.14%	0.688%
295	20.950	20.941	20.974	VV	25267	473717	9.41%	1.054%
296	20.992	20.974	21.011	VV	23505	519537	10.32%	1.156%
297	21.056	21.011	21.122	VV	23590	1489958	29.58%	3.315%
298	21.142	21.122	21.165	VV	21824	559747	11.11%	1.245%
299	21.208	21.165	21.235	VV	21783	891529	17.70%	1.983%

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300	21.244	21.235	21.254	VV	21298	228943	4.55%	0.509%
301	21.290	21.254	21.341	VV	21248	1035344	20.56%	2.303%
302	21.359	21.341	21.376	VV	17740	360400	7.16%	0.802%
303	21.397	21.376	21.431	VV	17105	549078	10.90%	1.222%
304	21.475	21.431	21.514	VV	18408	821938	16.32%	1.829%
305	21.527	21.514	21.546	VV	15517	293784	5.83%	0.654%
306	21.558	21.546	21.568	VV	15139	195036	3.87%	0.434%
307	21.580	21.568	21.607	VV	14937	333809	6.63%	0.743%
308	21.618	21.607	21.628	VV	14404	179421	3.56%	0.399%
309	21.631	21.628	21.701	VV	14264	551669	10.95%	1.227%
310	21.740	21.701	21.788	VV	11835	579309	11.50%	1.289%
311	21.805	21.788	21.819	VV	10847	191974	3.81%	0.427%
312	21.841	21.819	21.858	VV	10479	234416	4.65%	0.522%
313	21.868	21.858	21.894	VV	9694	203734	4.04%	0.453%
314	21.932	21.894	22.003	VV	10050	536161	10.65%	1.193%
315	22.019	22.003	22.041	VV	5901	125913	2.50%	0.280%
316	22.072	22.041	22.088	VV	5801	154379	3.07%	0.343%
317	22.148	22.088	22.178	VV	6118	288641	5.73%	0.642%
318	22.213	22.178	22.294	VV	4700	235439	4.67%	0.524%
319	22.305	22.294	22.344	VV	2017	33385	0.66%	0.074%
320	22.370	22.344	22.402	PV	963	12823	0.25%	0.029%

Sum of corrected areas: 44950333

Aliphatic EPH 110724.M Thu Nov 14 05:29:39 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-4		SDG No.:	P4822	
Lab Sample ID:	P4822-07		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	93.5	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015019.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.45	J	0.32	0.71	mg/kg
Aromatic C12-C16	Aromatic C12-C16	4.10		0.36	1.07	mg/kg
Aromatic C16-C21	Aromatic C16-C21	10.1		1.02	1.78	mg/kg
Aromatic C21-C36	Aromatic C21-C36	14.6		2.13	2.85	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	54.6		40 - 140	109%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.2		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.1		40 - 140	72%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4822-07	Acq On:	13 Nov 2024 19:35
Client Sample ID:	SOIL-4	Operator:	YP\AJ
Data file:	FF015019.D	Misc:	
Instrument:	FID_F	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	983824	6.365	200	ug/ml
Aromatic C12-C16	6.373	9.063	8842076	57.58	300	ug/ml
Aromatic C16-C21	9.064	13.374	20256671	142.556	500	ug/ml
Aromatic C21-C36	13.375	18.815	28393433	205.688	800	ug/ml
Aromatic EPH	4.508	18.815	58476004	412.19		ug/ml
ortho-Terphenyl (SURR)	11.927	11.927	5314266	36.08		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	7267116	54.61		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	4837517	54.24		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015019.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:35
Operator : YP\AJ
Sample : P4822-07
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
SOIL-4

Integration File: autoint1.e
Quant Time: Nov 14 02:59:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.992	7267116	54.606 ug/ml
Spiked Amount 50.000		Recovery = 109.21%	
6) S 2-Flurobiphenyl (SURR)	8.867	4837517	54.240 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 108.48%	
11) S ortho-Terphenyl (SURR)	11.927	5314266	36.081 ug/ml
Spiked Amount 50.000		Recovery = 72.16%	
Target Compounds			

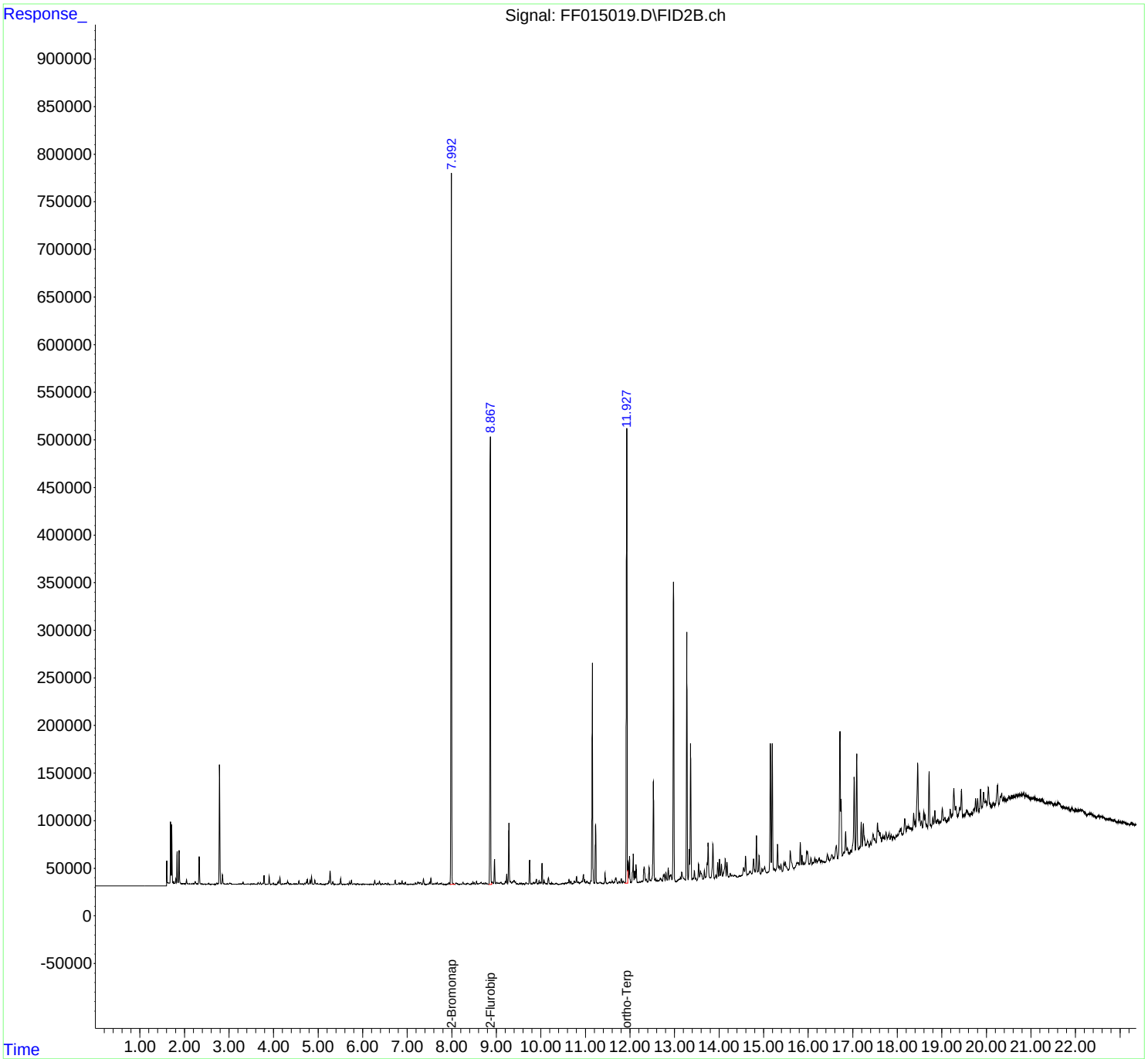
(f)=RT Delta > 1/2 Window (m)=manual int.

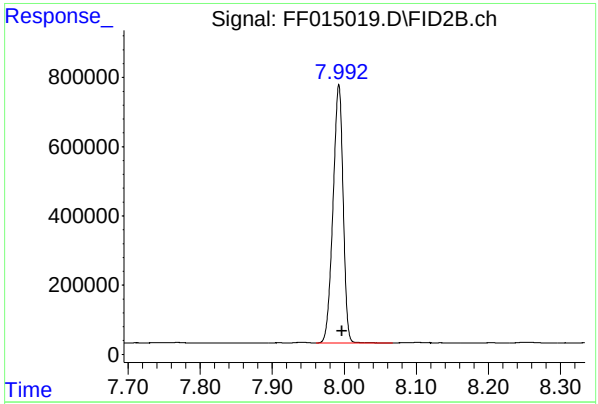
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015019.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:35
Operator : YP\AJ
Sample : P4822-07
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
SOIL-4

Integration File: autoint1.e
Quant Time: Nov 14 02:59:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

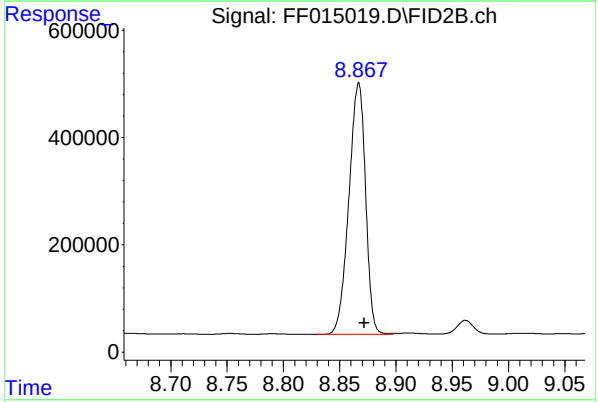




#4 2-Bromonaphthalene (SURR)

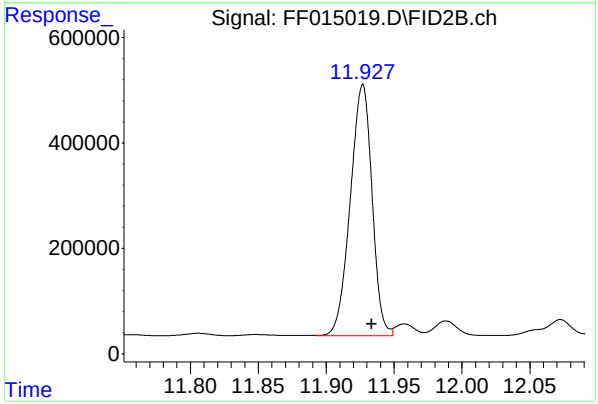
R.T.: 7.992 min
Delta R.T.: -0.004 min
Response: 7267116
Conc: 54.61 ug/ml

Instrument :
FID_F
ClientSampleId :
SOIL-4



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: -0.005 min
Response: 4837517
Conc: 54.24 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: -0.007 min
Response: 5314266
Conc: 36.08 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015019.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:35
Sample : P4822-07
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.456	4.401	4.479	BV	401	3278	0.05%	0.005%
2	4.515	4.479	4.534	VV	381	5017	0.07%	0.007%
3	4.570	4.534	4.591	VV	3763	40665	0.56%	0.059%
4	4.604	4.591	4.623	VV	654	6794	0.09%	0.010%
5	4.639	4.623	4.669	VV	252	4239	0.06%	0.006%
6	4.697	4.669	4.716	PV	1119	12239	0.17%	0.018%
7	4.733	4.716	4.742	VV	2111	18957	0.26%	0.028%
8	4.758	4.742	4.781	VV	5260	58287	0.80%	0.085%
9	4.820	4.781	4.836	VV	4211	47256	0.65%	0.069%
10	4.853	4.836	4.876	VV	8489	86374	1.19%	0.126%
11	4.881	4.876	4.901	VV	208	2401	0.03%	0.003%
12	4.928	4.901	4.958	VV	4493	51747	0.71%	0.075%
13	4.980	4.958	5.007	VV	851	14767	0.20%	0.022%
14	5.012	5.007	5.021	VV	258	1481	0.02%	0.002%
15	5.038	5.021	5.042	VV	373	3643	0.05%	0.005%
16	5.062	5.042	5.091	VV	928	13146	0.18%	0.019%
17	5.112	5.091	5.151	VV	307	5538	0.08%	0.008%
18	5.182	5.151	5.202	VV	783	13011	0.18%	0.019%
19	5.219	5.202	5.228	VV	1229	12742	0.17%	0.019%
20	5.244	5.228	5.252	VV	3029	29696	0.41%	0.043%
21	5.270	5.252	5.304	VV	14254	174011	2.39%	0.254%
22	5.331	5.304	5.363	VV	2806	35164	0.48%	0.051%
23	5.385	5.363	5.418	VV	521	8067	0.11%	0.012%
24	5.451	5.418	5.457	PV	228	3184	0.04%	0.005%
25	5.477	5.457	5.488	VV	717	8708	0.12%	0.013%
26	5.507	5.488	5.543	VV	6181	66252	0.91%	0.097%
27	5.551	5.543	5.557	VV	228	1644	0.02%	0.002%
28	5.564	5.557	5.598	VV	319	5897	0.08%	0.009%
29	5.605	5.598	5.628	VV	195	2229	0.03%	0.003%
30	5.648	5.628	5.657	VV	499	5583	0.08%	0.008%
31	5.666	5.657	5.684	VV	519	5773	0.08%	0.008%
32	5.703	5.684	5.721	VV	2239	25339	0.35%	0.037%
33	5.749	5.721	5.771	VV	4435	53514	0.73%	0.078%
34	5.778	5.771	5.790	VV	361	3596	0.05%	0.005%
35	5.808	5.790	5.833	VV	1187	15185	0.21%	0.022%
36	5.881	5.833	5.885	VV	505	8997	0.12%	0.013%

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37	5.896	5.885	5.928	VV	603	8743	0.12%	0.013%
38	5.963	5.928	5.986	VV	521	8820	0.12%	0.013%
39	6.014	5.986	6.041	VV	885	13418	0.18%	0.020%
40	6.078	6.041	6.131	VV	460	14254	0.20%	0.021%
41	6.141	6.131	6.151	VV	254	2062	0.03%	0.003%
42	6.174	6.151	6.199	VV	358	6884	0.09%	0.010%
43	6.230	6.199	6.247	VV	358	8172	0.11%	0.012%
44	6.272	6.247	6.314	VV	4308	53675	0.74%	0.078%
45	6.334	6.314	6.357	VV	1266	16653	0.23%	0.024%
46	6.378	6.357	6.409	VV	3593	41054	0.56%	0.060%
47	6.416	6.409	6.421	VV	285	1680	0.02%	0.002%
48	6.445	6.421	6.475	VV	1122	16848	0.23%	0.025%
49	6.515	6.475	6.548	VV	1222	28220	0.39%	0.041%
50	6.569	6.548	6.603	VV	1741	19898	0.27%	0.029%
51	6.620	6.603	6.635	VV	200	2728	0.04%	0.004%
52	6.642	6.635	6.647	VV	191	1090	0.01%	0.002%
53	6.651	6.647	6.667	VV	160	1398	0.02%	0.002%
54	6.672	6.667	6.686	VV	157	1374	0.02%	0.002%
55	6.693	6.686	6.703	VV	165	1369	0.02%	0.002%
56	6.731	6.703	6.760	VV	4590	51037	0.70%	0.074%
57	6.776	6.760	6.791	VV	415	5998	0.08%	0.009%
58	6.818	6.791	6.837	VV	1791	22851	0.31%	0.033%
59	6.853	6.837	6.869	VV	1412	16003	0.22%	0.023%
60	6.885	6.869	6.909	VV	4033	44235	0.61%	0.064%
61	6.920	6.909	6.940	VV	1039	10103	0.14%	0.015%
62	6.960	6.940	6.985	VV	2290	24048	0.33%	0.035%
63	6.995	6.985	7.006	VV	239	2276	0.03%	0.003%
64	7.010	7.006	7.028	VV	227	2029	0.03%	0.003%
65	7.057	7.028	7.077	VV	330	6478	0.09%	0.009%
66	7.081	7.077	7.099	VV	246	2418	0.03%	0.004%
67	7.111	7.099	7.125	VV	455	4846	0.07%	0.007%
68	7.130	7.125	7.158	VV	307	3677	0.05%	0.005%
69	7.185	7.158	7.201	VV	1835	20925	0.29%	0.030%
70	7.209	7.201	7.217	VV	567	4863	0.07%	0.007%
71	7.240	7.217	7.256	VV	2641	36356	0.50%	0.053%
72	7.260	7.256	7.273	VV	1380	12826	0.18%	0.019%
73	7.290	7.273	7.297	VV	2108	23754	0.33%	0.035%
74	7.303	7.297	7.337	VV	2074	24184	0.33%	0.035%
75	7.367	7.337	7.399	VV	5758	75215	1.03%	0.110%
76	7.421	7.399	7.439	VV	338	6132	0.08%	0.009%
77	7.456	7.439	7.466	VV	458	5940	0.08%	0.009%
78	7.476	7.466	7.486	VV	662	6734	0.09%	0.010%
79	7.502	7.486	7.515	VV	2387	23887	0.33%	0.035%
80	7.534	7.515	7.566	VV	6631	80483	1.11%	0.117%
81	7.593	7.566	7.605	VV	1006	15797	0.22%	0.023%
82	7.613	7.605	7.627	VV	746	7968	0.11%	0.012%
83	7.641	7.627	7.656	VV	1277	14577	0.20%	0.021%
84	7.676	7.656	7.697	VV	2156	27663	0.38%	0.040%
85	7.711	7.697	7.723	VV	591	6868	0.09%	0.010%
86	7.740	7.723	7.754	VV	1080	13872	0.19%	0.020%
87	7.768	7.754	7.792	VV	1633	18647	0.26%	0.027%
88	7.811	7.792	7.867	VV	317	9555	0.13%	0.014%
89	7.887	7.867	7.892	PV	325	2608	0.04%	0.004%

90	7.909	7.892	7.922	VV	708	8619	0.12%	0.013%
91	7.941	7.922	7.961	VV	2267	25441	0.35%	0.037%
92	7.993	7.961	8.067	VV	746958	7282563	100.00%	10.612%
93	8.102	8.067	8.126	VV	1709	34125	0.47%	0.050%
94	8.133	8.126	8.151	VV	641	7020	0.10%	0.010%
95	8.156	8.151	8.161	VV	349	1862	0.03%	0.003%
96	8.163	8.161	8.184	VV	327	3402	0.05%	0.005%
97	8.203	8.184	8.225	VV	725	9020	0.12%	0.013%
98	8.252	8.225	8.297	VV	2267	39803	0.55%	0.058%
99	8.306	8.297	8.320	VV	506	5498	0.08%	0.008%
100	8.356	8.320	8.367	VV	1362	23730	0.33%	0.035%
101	8.373	8.367	8.404	VV	1246	12937	0.18%	0.019%
102	8.450	8.404	8.461	VV	1003	15825	0.22%	0.023%
103	8.478	8.461	8.493	VV	2842	33317	0.46%	0.049%
104	8.506	8.493	8.524	VV	1869	19560	0.27%	0.029%
105	8.556	8.524	8.579	VV	3504	45258	0.62%	0.066%
106	8.590	8.579	8.599	VV	747	7389	0.10%	0.011%
107	8.616	8.599	8.626	VV	1158	14641	0.20%	0.021%
108	8.654	8.626	8.688	VV	2079	55877	0.77%	0.081%
109	8.711	8.688	8.730	VV	1232	22172	0.30%	0.032%
110	8.753	8.730	8.774	VV	1893	24454	0.34%	0.036%
111	8.791	8.774	8.829	VV	1368	18159	0.25%	0.026%
112	8.867	8.829	8.897	PV	470480	4836898	66.42%	7.048%
113	8.911	8.897	8.936	VV	2576	43082	0.59%	0.063%
114	8.962	8.936	8.992	VV	26323	279614	3.84%	0.407%
115	9.012	8.992	9.034	VV	2171	40245	0.55%	0.059%
116	9.046	9.034	9.059	VV	1399	17951	0.25%	0.026%
117	9.075	9.059	9.084	VV	1421	18732	0.26%	0.027%
118	9.101	9.084	9.142	VV	2279	48655	0.67%	0.071%
119	9.162	9.142	9.174	VV	789	11502	0.16%	0.017%
120	9.206	9.174	9.219	VV	3540	48173	0.66%	0.070%
121	9.236	9.219	9.257	VV	11000	116476	1.60%	0.170%
122	9.284	9.257	9.349	VV	64660	748345	10.28%	1.091%
123	9.363	9.349	9.385	VV	2884	53906	0.74%	0.079%
124	9.401	9.385	9.425	VV	4387	78292	1.08%	0.114%
125	9.433	9.425	9.454	VV	2490	26076	0.36%	0.038%
126	9.472	9.454	9.495	VV	1126	13772	0.19%	0.020%
127	9.528	9.495	9.547	VV	1477	21437	0.29%	0.031%
128	9.564	9.547	9.589	VV	1389	18338	0.25%	0.027%
129	9.607	9.589	9.633	VV	1042	17046	0.23%	0.025%
130	9.667	9.633	9.699	VV	1947	35398	0.49%	0.052%
131	9.705	9.699	9.724	VV	824	9226	0.13%	0.013%
132	9.749	9.724	9.802	VV	25483	281308	3.86%	0.410%
133	9.830	9.802	9.857	VV	2132	37051	0.51%	0.054%
134	9.872	9.857	9.881	VV	2086	22948	0.32%	0.033%
135	9.901	9.881	9.924	VV	5690	77753	1.07%	0.113%
136	9.962	9.924	9.981	VV	4181	59444	0.82%	0.087%
137	9.998	9.981	10.008	VV	2239	25878	0.36%	0.038%
138	10.029	10.008	10.052	VV	22359	237105	3.26%	0.346%
139	10.073	10.052	10.115	VV	4665	70549	0.97%	0.103%
140	10.127	10.115	10.142	VV	633	8588	0.12%	0.013%
141	10.171	10.142	10.216	VV	6816	108585	1.49%	0.158%

142	10.234	10.216	10.255	VV	1651	23059	0.32%	0.034%
143	10.267	10.255	10.302	VV	981	15382	0.21%	0.022%
144	10.315	10.302	10.319	VV	356	3078	0.04%	0.004%
145	10.336	10.319	10.383	VV	1064	23479	0.32%	0.034%
146	10.441	10.409	10.454	VV	441	6699	0.09%	0.010%
147	10.493	10.454	10.532	VV	1203	31626	0.43%	0.046%
148	10.552	10.532	10.576	VV	1700	28924	0.40%	0.042%
149	10.601	10.576	10.614	VV	1880	31846	0.44%	0.046%
150	10.633	10.614	10.657	VV	4983	70096	0.96%	0.102%
151	10.674	10.657	10.706	VV	3168	47034	0.65%	0.069%
152	10.750	10.706	10.782	VV	3405	75381	1.04%	0.110%
153	10.802	10.782	10.822	VV	7934	101958	1.40%	0.149%
154	10.828	10.822	10.839	VV	1891	18461	0.25%	0.027%
155	10.850	10.839	10.868	VV	1858	25385	0.35%	0.037%
156	10.921	10.868	10.933	VV	3226	72555	1.00%	0.106%
157	10.956	10.933	10.974	VV	10311	152414	2.09%	0.222%
158	10.985	10.974	11.005	VV	4595	53618	0.74%	0.078%
159	11.030	11.005	11.046	VV	2854	50308	0.69%	0.073%
160	11.054	11.046	11.072	VV	2043	22526	0.31%	0.033%
161	11.091	11.072	11.103	VV	1072	16065	0.22%	0.023%
162	11.122	11.103	11.129	VV	3555	35147	0.48%	0.051%
163	11.156	11.129	11.201	VV	232124	2526764	34.70%	3.682%
164	11.228	11.201	11.269	VV	62007	677706	9.31%	0.988%
165	11.310	11.269	11.315	VV	1035	22544	0.31%	0.033%
166	11.329	11.315	11.355	VV	1762	30634	0.42%	0.045%
167	11.362	11.355	11.396	VV	868	11707	0.16%	0.017%
168	11.442	11.396	11.483	VV	11474	143630	1.97%	0.209%
169	11.515	11.483	11.521	PV	904	12225	0.17%	0.018%
170	11.543	11.521	11.566	VV	1753	34632	0.48%	0.050%
171	11.602	11.566	11.627	VV	2914	55635	0.76%	0.081%
172	11.681	11.627	11.723	VV	6029	143670	1.97%	0.209%
173	11.757	11.723	11.777	VV	2219	34797	0.48%	0.051%
174	11.806	11.777	11.829	VV	4892	65193	0.90%	0.095%
175	11.848	11.829	11.892	VV	2463	44616	0.61%	0.065%
176	11.927	11.892	11.948	VV	478396	5307508	72.88%	7.734%
177	11.958	11.948	11.972	VV	22511	229977	3.16%	0.335%
178	11.988	11.972	12.029	VV	28179	329567	4.53%	0.480%
179	12.073	12.029	12.091	VV	30613	445352	6.12%	0.649%
180	12.106	12.091	12.120	VV	12669	143219	1.97%	0.209%
181	12.137	12.120	12.164	VV	19524	231762	3.18%	0.338%
182	12.178	12.164	12.194	VV	697	6878	0.09%	0.010%
183	12.214	12.194	12.231	VV	1410	16076	0.22%	0.023%
184	12.273	12.231	12.286	VV	1720	37744	0.52%	0.055%
185	12.315	12.286	12.351	VV	16178	313758	4.31%	0.457%
186	12.364	12.351	12.401	VV	3786	58158	0.80%	0.085%
187	12.428	12.401	12.449	VV	16158	192406	2.64%	0.280%
188	12.458	12.449	12.472	VV	2463	28823	0.40%	0.042%
189	12.491	12.472	12.496	VV	3968	42943	0.59%	0.063%
190	12.526	12.496	12.556	VV	105714	1324775	18.19%	1.930%
191	12.575	12.556	12.593	VV	3998	59837	0.82%	0.087%
192	12.604	12.593	12.619	VV	2044	24391	0.33%	0.036%
193	12.635	12.619	12.646	VV	1694	20886	0.29%	0.030%
194	12.678	12.646	12.692	VV	4401	74857	1.03%	0.109%

195	12.702	12.692	12.726	VV	3208	45330	0.62%	0.066%
196	12.748	12.726	12.757	VV	7375	86235	1.18%	0.126%
197	12.770	12.757	12.789	VV	8067	109133	1.50%	0.159%
198	12.806	12.789	12.836	VV	9775	136667	1.88%	0.199%
199	12.858	12.836	12.877	VV	14991	197037	2.71%	0.287%
200	12.895	12.877	12.904	VV	6268	79226	1.09%	0.115%
201	12.918	12.904	12.942	VV	7621	125277	1.72%	0.183%
202	12.977	12.942	13.027	VV	314791	3607535	49.54%	5.257%
203	13.071	13.027	13.081	PV	1314	16444	0.23%	0.024%
204	13.104	13.081	13.113	VV	2528	36904	0.51%	0.054%
205	13.131	13.113	13.144	VV	4184	58524	0.80%	0.085%
206	13.161	13.144	13.244	VV	9818	245983	3.38%	0.358%
207	13.275	13.244	13.303	VV	260799	2911121	39.97%	4.242%
208	13.329	13.303	13.340	VV	32775	374229	5.14%	0.545%
209	13.359	13.340	13.392	VV	143997	1742240	23.92%	2.539%
210	13.411	13.392	13.423	VV	2588	37570	0.52%	0.055%
211	13.445	13.423	13.465	VV	10428	135674	1.86%	0.198%
212	13.478	13.465	13.499	VV	2581	31001	0.43%	0.045%
213	13.538	13.499	13.560	PV	17556	233626	3.21%	0.340%
214	13.581	13.560	13.598	VV	9508	159942	2.20%	0.233%
215	13.605	13.598	13.638	VV	6564	93544	1.28%	0.136%
216	13.668	13.638	13.687	VV	9984	127989	1.76%	0.187%
217	13.700	13.687	13.706	VV	2869	29819	0.41%	0.043%
218	13.732	13.706	13.737	VV	16768	190020	2.61%	0.277%
219	13.753	13.737	13.801	VV	38727	521031	7.15%	0.759%
220	13.860	13.801	13.896	VV	36975	615340	8.45%	0.897%
221	13.928	13.896	13.944	VV	4288	68540	0.94%	0.100%
222	13.968	13.944	13.989	VV	17159	228222	3.13%	0.333%
223	14.007	13.989	14.028	VV	20443	252155	3.46%	0.367%
224	14.051	14.028	14.079	VV	15343	227631	3.13%	0.332%
225	14.138	14.079	14.159	VV	20322	439569	6.04%	0.641%
226	14.178	14.159	14.222	VV	16434	222365	3.05%	0.324%
227	14.250	14.222	14.271	VV	4773	80410	1.10%	0.117%
228	14.285	14.271	14.310	VV	2435	47664	0.65%	0.069%
229	14.318	14.310	14.327	VV	1633	16055	0.22%	0.023%
230	14.343	14.327	14.381	VV	2377	57851	0.79%	0.084%
231	14.386	14.381	14.406	VV	1415	11843	0.16%	0.017%
232	14.418	14.406	14.429	PV	206	1541	0.02%	0.002%
233	14.448	14.429	14.459	PV	1409	15050	0.21%	0.022%
234	14.477	14.459	14.489	VV	1111	16260	0.22%	0.024%
235	14.508	14.489	14.517	VV	1589	20517	0.28%	0.030%
236	14.548	14.517	14.569	VV	9304	179329	2.46%	0.261%
237	14.594	14.569	14.629	VV	20859	318749	4.38%	0.464%
238	14.644	14.629	14.654	VV	2008	23178	0.32%	0.034%
239	14.696	14.654	14.731	VV	5033	143434	1.97%	0.209%
240	14.773	14.731	14.794	VV	17008	305884	4.20%	0.446%
241	14.802	14.794	14.814	VV	5049	51066	0.70%	0.074%
242	14.838	14.814	14.861	VV	41004	517371	7.10%	0.754%
243	14.868	14.861	14.875	VV	3580	29358	0.40%	0.043%
244	14.898	14.875	14.932	VV	19726	268477	3.69%	0.391%
245	14.963	14.932	14.980	VV	5586	83495	1.15%	0.122%
246	15.021	14.980	15.066	VV	7410	202292	2.78%	0.295%

247	15.102	15.066	15.112	VV	1568	30560	0.42%	0.045%
248	15.151	15.112	15.171	VV	136155	1704099	23.40%	2.483%
249	15.193	15.171	15.224	VV	135466	1620046	22.25%	2.361%
250	15.240	15.224	15.269	VV	3855	77590	1.07%	0.113%
251	15.312	15.269	15.332	VV	29416	418917	5.75%	0.610%
252	15.346	15.332	15.368	VV	6208	99290	1.36%	0.145%
253	15.387	15.368	15.419	VV	7517	116474	1.60%	0.170%
254	15.454	15.419	15.473	PV	8907	154122	2.12%	0.225%
255	15.488	15.473	15.551	VV	9224	195432	2.68%	0.285%
256	15.597	15.551	15.677	PV	19861	470629	6.46%	0.686%
257	15.698	15.677	15.703	VV	1595	16570	0.23%	0.024%
258	15.752	15.703	15.767	VV	6012	155736	2.14%	0.227%
259	15.779	15.767	15.796	VV	6070	84200	1.16%	0.123%
260	15.822	15.796	15.843	VV	26511	356188	4.89%	0.519%
261	15.860	15.843	15.883	VV	12806	174784	2.40%	0.255%
262	15.903	15.883	15.919	VV	5249	77838	1.07%	0.113%
263	15.966	15.919	15.971	VV	15220	217296	2.98%	0.317%
264	15.981	15.971	16.022	VV	15547	279934	3.84%	0.408%
265	16.060	16.022	16.089	VV	7704	145385	2.00%	0.212%
266	16.102	16.089	16.114	VV	2476	31213	0.43%	0.045%
267	16.121	16.114	16.125	VV	2191	14767	0.20%	0.022%
268	16.147	16.125	16.164	VV	6895	99578	1.37%	0.145%
269	16.179	16.164	16.201	VV	5309	75242	1.03%	0.110%
270	16.241	16.201	16.279	VV	5752	166994	2.29%	0.243%
271	16.298	16.279	16.319	VV	3387	55076	0.76%	0.080%
272	16.330	16.319	16.340	VV	1719	18121	0.25%	0.026%
273	16.353	16.340	16.368	VV	1344	15545	0.21%	0.023%
274	16.387	16.368	16.392	VV	378	3960	0.05%	0.006%
275	16.431	16.392	16.452	PV	7796	142822	1.96%	0.208%
276	16.458	16.452	16.479	VV	2925	27929	0.38%	0.041%
277	16.532	16.479	16.560	VV	6086	152645	2.10%	0.222%
278	16.574	16.560	16.586	VV	2796	39249	0.54%	0.057%
279	16.631	16.586	16.662	VV	14123	334562	4.59%	0.488%
280	16.712	16.662	16.729	PV	132813	1955675	26.85%	2.850%
281	16.738	16.729	16.771	VV	61260	684328	9.40%	0.997%
282	16.807	16.771	16.812	VV	4243	85217	1.17%	0.124%
283	16.840	16.812	16.864	VV	25674	391473	5.38%	0.570%
284	16.879	16.864	16.922	VV	7879	152519	2.09%	0.222%
285	16.959	16.922	16.974	VV	4396	82741	1.14%	0.121%
286	17.032	16.974	17.061	VV	79874	1222472	16.79%	1.781%
287	17.090	17.061	17.132	VV	103561	1399066	19.21%	2.039%
288	17.162	17.132	17.168	VV	4575	73671	1.01%	0.107%
289	17.190	17.168	17.211	VV	30124	399864	5.49%	0.583%
290	17.238	17.211	17.256	VV	28028	442033	6.07%	0.644%
291	17.263	17.256	17.292	VV	12949	172524	2.37%	0.251%
292	17.299	17.292	17.307	VV	4851	40835	0.56%	0.060%
293	17.329	17.307	17.367	VV	8019	201867	2.77%	0.294%
294	17.397	17.367	17.415	VV	5859	106847	1.47%	0.156%
295	17.458	17.415	17.484	VV	13247	359658	4.94%	0.524%
296	17.494	17.484	17.527	VV	7467	147145	2.02%	0.214%
297	17.555	17.527	17.572	VV	23660	383274	5.26%	0.559%
298	17.582	17.572	17.601	VV	15039	232191	3.19%	0.338%
299	17.613	17.601	17.653	VV	12667	234652	3.22%	0.342%

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300	17.677	17.653	17.693	VV	7750	137061	1.88%	0.200%
301	17.704	17.693	17.722	VV	6391	91463	1.26%	0.133%
302	17.748	17.722	17.774	VV	10750	214271	2.94%	0.312%
303	17.816	17.774	17.836	VV	8584	186865	2.57%	0.272%
304	17.863	17.836	17.889	VV	5157	111355	1.53%	0.162%
305	17.917	17.889	17.929	VV	3292	53863	0.74%	0.078%
306	17.933	17.929	17.949	VV	2570	21011	0.29%	0.031%
307	17.979	17.949	17.989	VV	3049	53372	0.73%	0.078%
308	18.012	17.989	18.025	VV	3820	69147	0.95%	0.101%
309	18.048	18.025	18.058	VV	7621	111580	1.53%	0.163%
310	18.082	18.058	18.121	VV	9429	207897	2.85%	0.303%
311	18.168	18.121	18.202	VV	18208	413543	5.68%	0.603%
312	18.219	18.202	18.223	VV	8229	85166	1.17%	0.124%
313	18.229	18.223	18.237	VV	8501	66667	0.92%	0.097%
314	18.257	18.237	18.279	VV	8983	185449	2.55%	0.270%
315	18.291	18.279	18.304	VV	6528	89884	1.23%	0.131%
316	18.312	18.304	18.322	VV	5789	57953	0.80%	0.084%
317	18.327	18.322	18.340	VV	5558	49726	0.68%	0.072%
318	18.367	18.340	18.385	VV	21010	324874	4.46%	0.473%
319	18.399	18.385	18.415	VV	11845	170338	2.34%	0.248%
320	18.458	18.415	18.484	VV	72247	1453061	19.95%	2.117%
321	18.500	18.484	18.524	VV	18877	323566	4.44%	0.472%
322	18.543	18.524	18.569	VV	9746	173242	2.38%	0.252%
323	18.593	18.569	18.609	VV	19175	281238	3.86%	0.410%
324	18.623	18.609	18.652	VV	15051	242180	3.33%	0.353%
325	18.657	18.652	18.680	VV	4370	47810	0.66%	0.070%
326	18.714	18.680	18.741	VV	59223	801038	11.00%	1.167%
327	18.750	18.741	18.767	VV	2759	25106	0.34%	0.037%

Sum of corrected areas: 68623696

Aromatic EPH 110724.M Thu Nov 14 03:17:19 2024

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

Report of Analysis

Client:	BAPS North Bergen	Date Collected:	11/12/24
Project:	BAPS North Bergen	Date Received:	11/12/24
Client Sample ID:	SOIL-5	SDG No.:	P4822
Lab Sample ID:	P4822-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/14/24 2:44	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	1	0.43	1.12	mg/kg	FE051220.D
Aliphatic C12-C16	Aliphatic C12-C16	0.54	J	1	0.27	0.75	mg/kg	FE051220.D
Aliphatic C16-C21	Aliphatic C16-C21	0.49	J	1	0.34	1.12	mg/kg	FE051220.D
Aliphatic C21-C28	Aliphatic C21-C28	0.90	U	1	0.90	1.50	mg/kg	FE051220.D
Aliphatic C28-C40	Aliphatic C28-C40	9.66		1	2.02	2.25	mg/kg	FE051220.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.75	mg/kg	FF015020.D
Aromatic C12-C16	Aromatic C12-C16	6.17		1	0.38	1.12	mg/kg	FF015020.D
Aromatic C16-C21	Aromatic C16-C21	6.10		1	1.08	1.87	mg/kg	FF015020.D
Aromatic C21-C36	Aromatic C21-C36	2.32	J	1	2.25	2.99	mg/kg	FF015020.D
Total AliphaticEPH	Total AliphaticEPH	10.7			3.95	6.74	mg/kg	
Total AromaticEPH	Total AromaticEPH	14.6			4.05	6.73	mg/kg	
Total EPH	Total EPH	25.3			8.00	13.5	mg/kg	

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

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Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-5		SDG No.:	P4822	
Lab Sample ID:	P4822-09		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	88.9	
Sample Wt/Vol:	30.05	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051220.D	1	11/13/24	11/14/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	0.43	1.12	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.54	J	0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.49	J	0.34	1.12	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.90	U	0.90	1.50	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.66		2.02	2.25	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	52.4		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4822-09	Acq On:	14 Nov 2024 02:44
Client Sample ID:	SOIL-5	Operator:	YP\AJ
Data file:	FE051220.D	Misc:	
Instrument:	FID_E	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.138	6.755	408234	2.918	300	ug/ml
Aliphatic C12-C16	6.756	10.187	1010694	7.187	200	ug/ml
Aliphatic C16-C21	10.188	13.546	900447	6.536	300	ug/ml
Aliphatic C21-C28	13.547	17.200	967484	7.223	400	ug/ml
Aliphatic C28-C40	17.201	22.043	16607250	128.99	600	ug/ml
Aliphatic EPH	3.138	22.043	19894109	152.853		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.281	13.281	5946625	52.38		ug/ml
Aliphatic C9-C28	3.138	17.200	3286859	23.864	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051220.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 02:44
Operator : YP\AJ
Sample : P4822-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SOIL-5

Integration File: autoint1.e
Quant Time: Nov 14 04:08:44 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			
12) S 1-chlorooctadecane (S...	13.281	5946625	52.379 ug/ml
Spiked Amount 50.000		Recovery = 104.76%	
Target Compounds			

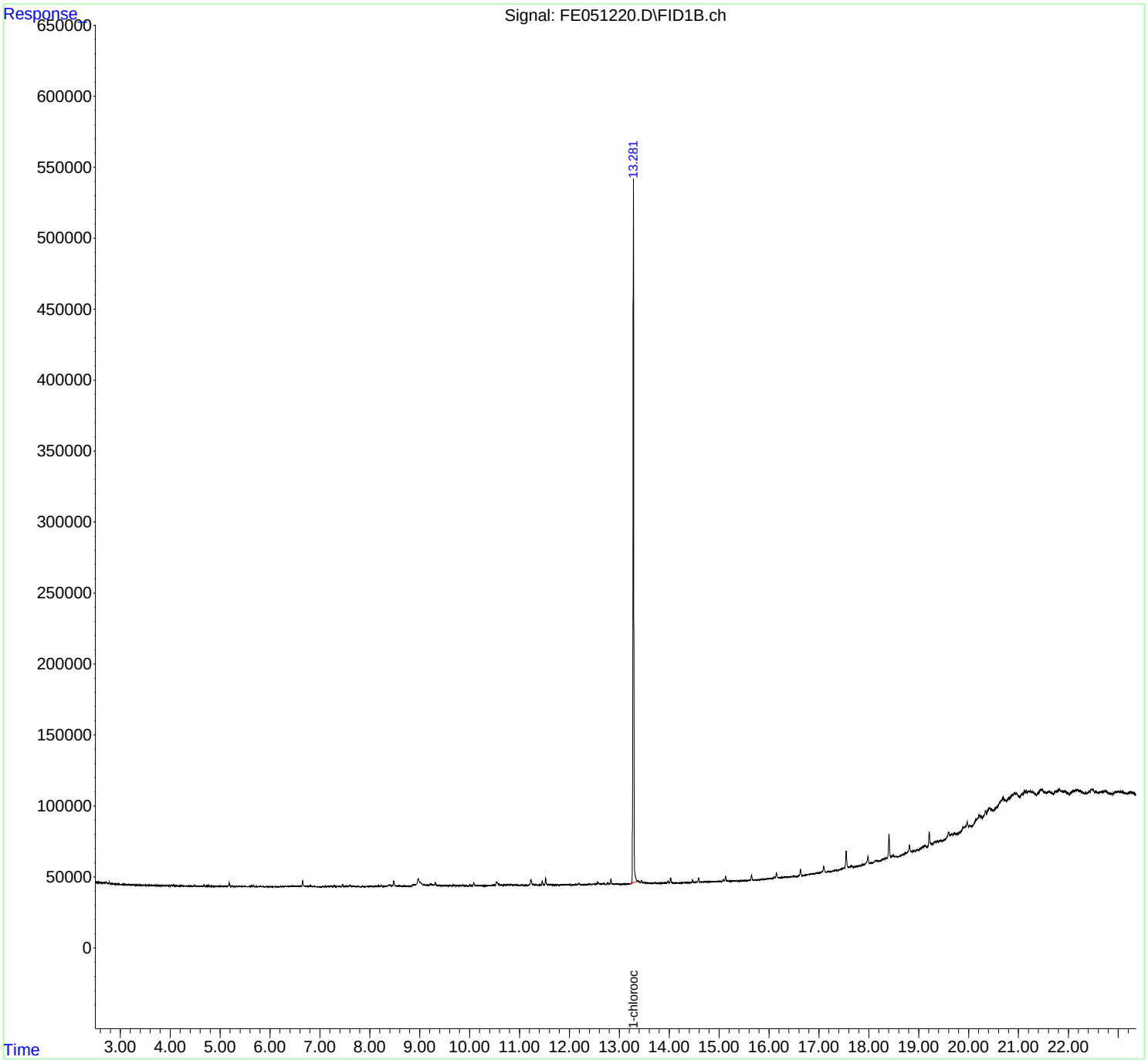
(f)=RT Delta > 1/2 Window (m)=manual int.

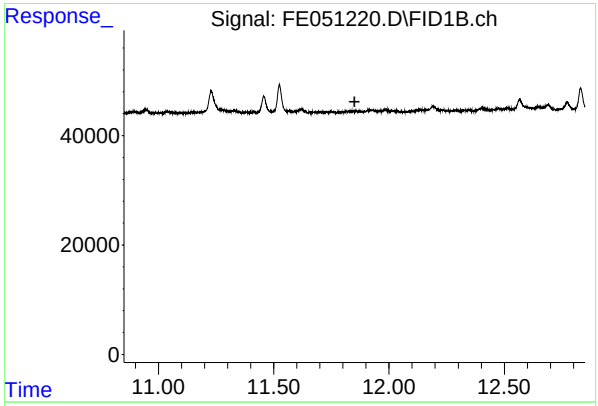
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051220.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 02:44
Operator : YP\AJ
Sample : P4822-09
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SOIL-5

Integration File: autoint1.e
Quant Time: Nov 14 04:08:44 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

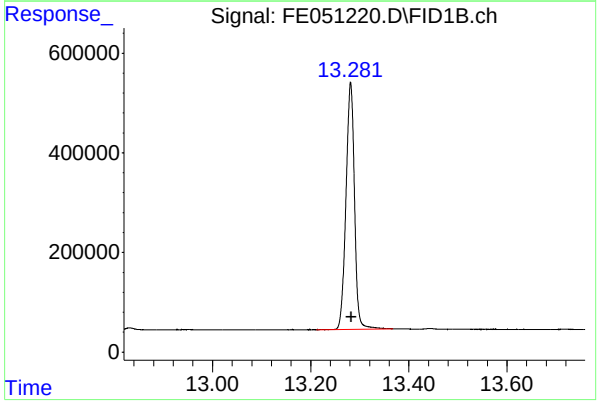




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
SOIL-5



#12 1-chlorooctadecane (SURR)

R.T.: 13.281 min
Delta R.T.: -0.002 min
Response: 5946625
Conc: 52.38 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051220.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 02:44
Sample : P4822-09
Misc :
ALS Vial : 26 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	3.291	BV	262	3142	0.05%	0.012%
2	3.295	3.291	3.311	PV	49	255	0.00%	0.001%
3	3.318	3.311	3.338	VV	44	391	0.01%	0.001%
4	3.347	3.338	3.404	PV	80	2277	0.04%	0.009%
5	3.413	3.404	3.526	VV	77	5180	0.08%	0.019%
6	3.535	3.526	3.553	VV	77	983	0.02%	0.004%
7	3.564	3.553	3.571	VV	109	898	0.01%	0.003%
8	3.585	3.571	3.599	VV	168	1602	0.03%	0.006%
9	3.625	3.599	3.659	VV	141	2943	0.05%	0.011%
10	3.676	3.659	3.706	PV	133	1968	0.03%	0.007%
11	3.770	3.706	3.817	VV	144	3010	0.05%	0.011%
12	3.837	3.817	3.913	VV	113	4768	0.08%	0.018%
13	3.924	3.913	3.951	VV	198	2563	0.04%	0.010%
14	3.958	3.951	3.978	VV	107	1088	0.02%	0.004%
15	3.985	3.978	3.996	VV	83	605	0.01%	0.002%
16	4.027	3.996	4.043	PV	254	5192	0.09%	0.019%
17	4.061	4.043	4.116	VV	595	10465	0.17%	0.039%
18	4.138	4.116	4.168	VV	144	3050	0.05%	0.011%
19	4.201	4.168	4.208	PV	213	2933	0.05%	0.011%
20	4.228	4.208	4.335	VV	657	14344	0.24%	0.054%
21	4.348	4.335	4.359	VV	117	1307	0.02%	0.005%
22	4.391	4.359	4.449	VV	147	4582	0.08%	0.017%
23	4.488	4.449	4.519	VV	535	7960	0.13%	0.030%
24	4.530	4.519	4.551	VV	174	1728	0.03%	0.006%
25	4.561	4.551	4.571	VV	93	628	0.01%	0.002%
26	4.575	4.571	4.586	VV	99	432	0.01%	0.002%
27	4.610	4.586	4.641	VV	297	4574	0.07%	0.017%
28	4.673	4.641	4.696	VV	732	9495	0.16%	0.036%
29	4.735	4.696	4.751	VV	472	6903	0.11%	0.026%
30	4.769	4.751	4.789	VV	1015	10478	0.17%	0.039%
31	4.802	4.789	4.886	VV	87	4442	0.07%	0.017%
32	4.901	4.886	4.944	VV	207	4095	0.07%	0.015%
33	4.960	4.944	4.977	VV	148	1327	0.02%	0.005%
34	4.994	4.977	5.029	VV	146	2056	0.03%	0.008%
35	5.041	5.029	5.079	PV	77	1772	0.03%	0.007%
36	5.095	5.079	5.110	VV	199	2145	0.04%	0.008%

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37	5.123	5.110	5.137	VV	177	1465	0.02%	0.005%
38	5.185	5.137	5.224	VV	2489	33965	0.56%	0.127%
39	5.246	5.224	5.269	VV	594	6805	0.11%	0.025%
40	5.288	5.269	5.341	VV	139	2979	0.05%	0.011%
41	5.370	5.341	5.381	VV	141	1984	0.03%	0.007%
42	5.394	5.381	5.445	VV	184	3132	0.05%	0.012%
43	5.458	5.445	5.468	VV	62	797	0.01%	0.003%
44	5.498	5.468	5.549	VV	196	4772	0.08%	0.018%
45	5.584	5.549	5.603	VV	168	3081	0.05%	0.012%
46	5.625	5.603	5.646	VV	599	8007	0.13%	0.030%
47	5.665	5.646	5.688	VV	1018	12215	0.20%	0.046%
48	5.698	5.688	5.706	VV	147	1197	0.02%	0.004%
49	5.726	5.706	5.752	VV	268	4639	0.08%	0.017%
50	5.801	5.752	5.861	VV	294	9882	0.16%	0.037%
51	5.876	5.861	5.899	VV	91	1424	0.02%	0.005%
52	5.931	5.899	6.004	PV	257	7644	0.13%	0.029%
53	6.046	6.004	6.093	VV	174	4376	0.07%	0.016%
54	6.106	6.093	6.115	VV	107	1308	0.02%	0.005%
55	6.121	6.115	6.144	VV	101	1494	0.02%	0.006%
56	6.208	6.144	6.231	VV	190	6095	0.10%	0.023%
57	6.254	6.231	6.278	VV	292	5747	0.09%	0.022%
58	6.298	6.278	6.335	VV	605	10685	0.18%	0.040%
59	6.364	6.335	6.391	VV	407	9311	0.15%	0.035%
60	6.444	6.391	6.468	VV	597	17500	0.29%	0.066%
61	6.540	6.468	6.579	VV	510	28203	0.46%	0.106%
62	6.593	6.579	6.602	VV	458	5534	0.09%	0.021%
63	6.654	6.602	6.708	VV	4261	70256	1.15%	0.263%
64	6.736	6.708	6.758	VV	554	12156	0.20%	0.046%
65	6.776	6.758	6.788	VV	432	5625	0.09%	0.021%
66	6.807	6.788	6.825	VV	864	10770	0.18%	0.040%
67	6.842	6.825	6.858	VV	287	4900	0.08%	0.018%
68	6.880	6.858	6.903	VV	451	6577	0.11%	0.025%
69	6.928	6.903	6.955	VV	171	3750	0.06%	0.014%
70	6.983	6.955	7.004	VV	114	2520	0.04%	0.009%
71	7.028	7.004	7.044	PV	121	2099	0.03%	0.008%
72	7.052	7.044	7.075	VV	123	1428	0.02%	0.005%
73	7.107	7.075	7.130	VV	451	6245	0.10%	0.023%
74	7.162	7.130	7.198	VV	459	11580	0.19%	0.043%
75	7.211	7.198	7.221	VV	442	5007	0.08%	0.019%
76	7.228	7.221	7.257	VV	414	5399	0.09%	0.020%
77	7.289	7.257	7.329	VV	716	14036	0.23%	0.053%
78	7.337	7.329	7.353	VV	182	2068	0.03%	0.008%
79	7.373	7.353	7.418	VV	264	7464	0.12%	0.028%
80	7.454	7.418	7.488	VV	1827	23749	0.39%	0.089%
81	7.533	7.488	7.551	VV	389	10978	0.18%	0.041%
82	7.564	7.551	7.575	VV	430	5453	0.09%	0.020%
83	7.600	7.575	7.645	VV	1219	22669	0.37%	0.085%
84	7.659	7.645	7.675	VV	353	4863	0.08%	0.018%
85	7.691	7.675	7.736	VV	332	6749	0.11%	0.025%
86	7.759	7.736	7.791	VV	197	3821	0.06%	0.014%
87	7.806	7.791	7.838	PV	142	1738	0.03%	0.007%
88	7.863	7.838	7.896	PV	605	7389	0.12%	0.028%
89	7.947	7.896	7.996	VV	203	6405	0.11%	0.024%

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90	8.024	7.996	8.045	VV	329	5917	0.10%	0.022%
91	8.062	8.045	8.072	VV	220	2676	0.04%	0.010%
92	8.085	8.072	8.108	VV	211	3175	0.05%	0.012%
93	8.124	8.108	8.147	VV	214	2884	0.05%	0.011%
94	8.174	8.147	8.207	VV	691	9526	0.16%	0.036%
95	8.229	8.207	8.252	VV	1030	12522	0.21%	0.047%
96	8.269	8.252	8.282	VV	188	2965	0.05%	0.011%
97	8.298	8.282	8.310	VV	274	3316	0.05%	0.012%
98	8.389	8.310	8.453	VV	1123	47731	0.78%	0.179%
99	8.480	8.453	8.557	VV	3894	67724	1.11%	0.254%
100	8.587	8.557	8.614	VV	574	13681	0.22%	0.051%
101	8.627	8.614	8.654	VV	366	7008	0.11%	0.026%
102	8.670	8.654	8.695	VV	333	5362	0.09%	0.020%
103	8.710	8.695	8.754	VV	325	5861	0.10%	0.022%
104	8.766	8.754	8.796	VV	165	2456	0.04%	0.009%
105	8.971	8.796	9.121	VV	5501	315567	5.17%	1.182%
106	9.131	9.121	9.177	VV	955	25099	0.41%	0.094%
107	9.217	9.177	9.284	VV	1758	66842	1.10%	0.250%
108	9.314	9.284	9.368	VV	2117	51795	0.85%	0.194%
109	9.391	9.368	9.415	VV	756	13609	0.22%	0.051%
110	9.443	9.415	9.471	VV	515	11736	0.19%	0.044%
111	9.491	9.471	9.509	VV	591	9629	0.16%	0.036%
112	9.518	9.509	9.581	VV	407	14366	0.24%	0.054%
113	9.607	9.581	9.646	VV	460	12395	0.20%	0.046%
114	9.670	9.646	9.710	VV	687	15022	0.25%	0.056%
115	9.728	9.710	9.759	VV	364	8184	0.13%	0.031%
116	9.767	9.759	9.776	VV	294	2416	0.04%	0.009%
117	9.781	9.776	9.794	VV	214	1972	0.03%	0.007%
118	9.810	9.794	9.841	VV	381	7515	0.12%	0.028%
119	9.863	9.841	9.914	VV	788	12420	0.20%	0.047%
120	9.926	9.914	9.974	VV	140	2768	0.05%	0.010%
121	10.007	9.974	10.053	VV	710	14636	0.24%	0.055%
122	10.085	10.053	10.136	VV	2479	39799	0.65%	0.149%
123	10.156	10.136	10.174	VV	261	4913	0.08%	0.018%
124	10.183	10.174	10.218	VV	262	3925	0.06%	0.015%
125	10.254	10.218	10.284	VV	153	3999	0.07%	0.015%
126	10.361	10.284	10.381	PV	219	6159	0.10%	0.023%
127	10.404	10.381	10.416	VV	211	4068	0.07%	0.015%
128	10.429	10.416	10.448	VV	225	3492	0.06%	0.013%
129	10.474	10.448	10.497	VV	561	11650	0.19%	0.044%
130	10.540	10.497	10.654	VV	2614	98468	1.61%	0.369%
131	10.684	10.654	10.693	VV	468	9612	0.16%	0.036%
132	10.703	10.693	10.730	VV	486	9150	0.15%	0.034%
133	10.752	10.730	10.781	VV	746	16110	0.26%	0.060%
134	10.823	10.781	10.864	VV	1250	29818	0.49%	0.112%
135	10.896	10.864	10.918	VV	490	11420	0.19%	0.043%
136	10.948	10.918	10.978	VV	824	16526	0.27%	0.062%
137	10.985	10.978	11.007	VV	193	3445	0.06%	0.013%
138	11.041	11.007	11.104	VV	466	13832	0.23%	0.052%
139	11.142	11.104	11.181	VV	317	9431	0.15%	0.035%
140	11.229	11.181	11.313	VV	4166	94697	1.55%	0.355%
141	11.327	11.313	11.374	VV	530	11400	0.19%	0.043%

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142	11.457	11.374	11.498	VV	3070	51932	0.85%	0.195%
143	11.525	11.498	11.591	VV	5167	77515	1.27%	0.290%
144	11.620	11.591	11.664	VV	722	14291	0.23%	0.054%
145	11.678	11.664	11.712	VV	127	2492	0.04%	0.009%
146	11.748	11.712	11.773	VV	172	3614	0.06%	0.014%
147	11.782	11.773	11.797	VV	97	895	0.01%	0.003%
148	11.847	11.797	11.865	VV	285	7211	0.12%	0.027%
149	11.881	11.865	11.887	VV	190	2216	0.04%	0.008%
150	11.916	11.887	11.968	VV	444	13691	0.22%	0.051%
151	11.984	11.968	12.033	VV	493	11247	0.18%	0.042%
152	12.040	12.033	12.061	VV	167	1668	0.03%	0.006%
153	12.133	12.061	12.151	PV	397	10243	0.17%	0.038%
154	12.193	12.151	12.274	VV	983	28154	0.46%	0.105%
155	12.286	12.274	12.308	VV	217	3014	0.05%	0.011%
156	12.350	12.308	12.365	VV	237	5815	0.10%	0.022%
157	12.404	12.365	12.438	VV	579	12979	0.21%	0.049%
158	12.474	12.438	12.498	VV	525	11278	0.18%	0.042%
159	12.516	12.498	12.535	VV	505	8348	0.14%	0.031%
160	12.566	12.535	12.631	VV	2087	47083	0.77%	0.176%
161	12.645	12.631	12.668	VV	706	12437	0.20%	0.047%
162	12.690	12.668	12.728	VV	1060	18620	0.31%	0.070%
163	12.773	12.728	12.808	VV	1474	25046	0.41%	0.094%
164	12.831	12.808	12.917	VV	3973	61085	1.00%	0.229%
165	12.950	12.917	13.010	VV	467	13240	0.22%	0.050%
166	13.118	13.010	13.135	PV	171	7144	0.12%	0.027%
167	13.160	13.135	13.176	VV	242	3251	0.05%	0.012%
168	13.281	13.176	13.420	VV	495051	6099439	100.00%	22.845%
169	13.442	13.420	13.491	VV	2282	54257	0.89%	0.203%
170	13.508	13.491	13.588	VV	899	38404	0.63%	0.144%
171	13.604	13.588	13.625	VV	483	9224	0.15%	0.035%
172	13.638	13.625	13.681	VV	434	12535	0.21%	0.047%
173	13.714	13.681	13.774	VV	575	20299	0.33%	0.076%
174	13.790	13.774	13.808	VV	379	5801	0.10%	0.022%
175	13.886	13.808	13.909	VV	493	18119	0.30%	0.068%
176	13.937	13.909	13.951	VV	364	6544	0.11%	0.025%
177	13.977	13.951	14.001	VV	1352	21531	0.35%	0.081%
178	14.028	14.001	14.131	VV	3612	57513	0.94%	0.215%
179	14.157	14.131	14.197	VV	196	3903	0.06%	0.015%
180	14.206	14.197	14.224	PV	103	583	0.01%	0.002%
181	14.260	14.224	14.278	PV	203	3757	0.06%	0.014%
182	14.291	14.278	14.313	VV	171	1852	0.03%	0.007%
183	14.325	14.313	14.348	VV	141	1686	0.03%	0.006%
184	14.361	14.348	14.370	VV	127	1224	0.02%	0.005%
185	14.391	14.370	14.409	VV	187	2377	0.04%	0.009%
186	14.415	14.409	14.420	VV	112	630	0.01%	0.002%
187	14.469	14.420	14.517	VV	1493	30274	0.50%	0.113%
188	14.537	14.517	14.563	VV	502	9012	0.15%	0.034%
189	14.589	14.563	14.637	VV	3178	46751	0.77%	0.175%
190	14.745	14.637	14.778	VV	336	21966	0.36%	0.082%
191	14.809	14.778	14.827	VV	259	6121	0.10%	0.023%
192	14.837	14.827	14.846	VV	298	2935	0.05%	0.011%
193	14.884	14.846	14.924	VV	413	14975	0.25%	0.056%
194	14.938	14.924	14.958	VV	352	5757	0.09%	0.022%

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195	14.984	14.958	15.007	VV	377	8760	0.14%	0.033%
196	15.017	15.007	15.043	VV	232	4657	0.08%	0.017%
197	15.086	15.043	15.104	VV	1428	24819	0.41%	0.093%
198	15.128	15.104	15.230	VV	3774	69964	1.15%	0.262%
199	15.243	15.230	15.267	VV	279	5163	0.08%	0.019%
200	15.331	15.267	15.361	VV	339	13442	0.22%	0.050%
201	15.374	15.361	15.414	VV	197	4840	0.08%	0.018%
202	15.462	15.414	15.474	PV	143	4264	0.07%	0.016%
203	15.501	15.474	15.526	VV	368	7430	0.12%	0.028%
204	15.541	15.526	15.556	VV	180	2392	0.04%	0.009%
205	15.608	15.556	15.622	VV	294	5026	0.08%	0.019%
206	15.648	15.622	15.707	VV	3954	57226	0.94%	0.214%
207	15.718	15.707	15.743	VV	190	2348	0.04%	0.009%
208	15.782	15.743	15.794	PV	147	1354	0.02%	0.005%
209	15.866	15.794	15.888	VV	219	4445	0.07%	0.017%
210	15.969	15.888	15.985	VV	366	8348	0.14%	0.031%
211	16.027	15.985	16.049	VV	287	8148	0.13%	0.031%
212	16.112	16.049	16.125	VV	1175	21165	0.35%	0.079%
213	16.149	16.125	16.195	VV	3866	64573	1.06%	0.242%
214	16.290	16.195	16.302	VV	414	19782	0.32%	0.074%
215	16.349	16.302	16.368	VV	570	14358	0.24%	0.054%
216	16.501	16.368	16.552	VV	463	28526	0.47%	0.107%
217	16.631	16.552	16.681	PV	4859	79109	1.30%	0.296%
218	16.792	16.681	16.808	VV	557	24333	0.40%	0.091%
219	16.971	16.808	17.008	VV	726	53546	0.88%	0.201%
220	17.065	17.008	17.073	VV	1401	26763	0.44%	0.100%
221	17.097	17.073	17.144	VV	4647	85777	1.41%	0.321%
222	17.182	17.144	17.191	VV	529	11557	0.19%	0.043%
223	17.203	17.191	17.243	VV	407	8111	0.13%	0.030%
224	17.336	17.243	17.361	PV	520	22705	0.37%	0.085%
225	17.546	17.361	17.597	VV	12560	256535	4.21%	0.961%
226	17.615	17.597	17.623	VV	993	14800	0.24%	0.055%
227	17.657	17.623	17.684	VV	1265	34915	0.57%	0.131%
228	17.707	17.684	17.724	VV	338	7830	0.13%	0.029%
229	17.749	17.724	17.764	VV	409	7359	0.12%	0.028%
230	17.787	17.764	17.797	VV	233	2548	0.04%	0.010%
231	17.833	17.797	17.847	PV	389	7765	0.13%	0.029%
232	17.877	17.847	17.901	VV	857	16356	0.27%	0.061%
233	17.982	17.901	18.037	VV	5354	124031	2.03%	0.465%
234	18.055	18.037	18.075	VV	387	5845	0.10%	0.022%
235	18.151	18.075	18.164	VV	1051	38530	0.63%	0.144%
236	18.177	18.164	18.200	VV	750	11847	0.19%	0.044%
237	18.404	18.200	18.438	VV	17758	357889	5.87%	1.340%
238	18.488	18.438	18.544	VV	2201	82612	1.35%	0.309%
239	18.554	18.544	18.584	VV	470	6309	0.10%	0.024%
240	18.724	18.584	18.734	PV	1005	34342	0.56%	0.129%
241	18.814	18.734	18.876	VV	5771	149409	2.45%	0.560%
242	18.907	18.876	18.926	VV	1047	19237	0.32%	0.072%
243	18.964	18.926	18.982	PV	945	18418	0.30%	0.069%
244	18.993	18.982	19.003	VV	395	4418	0.07%	0.017%
245	19.126	19.003	19.161	VV	2061	104310	1.71%	0.391%
246	19.211	19.161	19.274	VV	10455	211534	3.47%	0.792%

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247	19.375	19.274	19.395	VV	2172	123806	2.03%	0.464%
248	19.459	19.395	19.474	VV	1502	68985	1.13%	0.258%
249	19.519	19.474	19.526	VV	1319	35348	0.58%	0.132%
250	19.597	19.526	19.640	VV	5789	217670	3.57%	0.815%
251	19.664	19.640	19.691	VV	3595	101085	1.66%	0.379%
252	19.706	19.691	19.766	VV	3746	134745	2.21%	0.505%
253	19.887	19.766	19.901	VV	5386	272003	4.46%	1.019%
254	19.971	19.901	20.001	VV	8607	363693	5.96%	1.362%
255	20.018	20.001	20.028	VV	5165	80139	1.31%	0.300%
256	20.047	20.028	20.076	VV	4898	132672	2.18%	0.497%
257	20.172	20.076	20.181	VV	8543	414224	6.79%	1.551%
258	20.209	20.181	20.276	VV	10113	512159	8.40%	1.918%
259	20.339	20.276	20.357	VV	11844	461344	7.56%	1.728%
260	20.430	20.357	20.454	VV	12655	688070	11.28%	2.577%
261	20.461	20.454	20.491	VV	11360	240194	3.94%	0.900%
262	20.691	20.491	20.724	VV	17476	1879131	30.81%	7.038%
263	20.733	20.724	20.757	VV	14988	280438	4.60%	1.050%
264	20.931	20.757	20.944	VV	17474	1801420	29.53%	6.747%
265	20.957	20.944	21.020	VV	16761	698893	11.46%	2.618%
266	21.063	21.020	21.085	VV	15014	556622	9.13%	2.085%
267	21.130	21.085	21.178	VV	16211	868012	14.23%	3.251%
268	21.237	21.178	21.268	VV	15195	806508	13.22%	3.021%
269	21.278	21.268	21.357	VV	14110	682434	11.19%	2.556%
270	21.472	21.357	21.551	VV	13458	1394756	22.87%	5.224%
271	21.617	21.551	21.701	VV	10345	858440	14.07%	3.215%
272	21.812	21.701	21.908	VV	9282	1031548	16.91%	3.864%
273	21.934	21.908	22.018	VV	6686	355256	5.82%	1.331%
274	22.112	22.018	22.127	VV	5100	299726	4.91%	1.123%
275	22.172	22.127	22.184	VV	4903	168043	2.76%	0.629%
276	22.191	22.184	22.318	VV	4629	220966	3.62%	0.828%
277	22.348	22.318	22.369	VV	573	16602	0.27%	0.062%

Sum of corrected areas: 26698884

Aliphatic EPH 110724.M Thu Nov 14 05:29:57 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-5		SDG No.:	P4822	
Lab Sample ID:	P4822-09		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	88.9	
Sample Wt/Vol:	30.05	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015020.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.34	U	0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.17		0.38	1.12	mg/kg
Aromatic C16-C21	Aromatic C16-C21	6.10		1.08	1.87	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.32	J	2.25	2.99	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.6		40 - 140	107%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	52.6		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.2		40 - 140	90%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4822-09	Acq On:	13 Nov 2024 20:04
Client Sample ID:	SOIL-5	Operator:	YP\AJ
Data file:	FF015020.D	Misc:	
Instrument:	FID_F	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	679529	4.396	200	ug/ml
Aromatic C12-C16	6.373	9.063	12659957	82.443	300	ug/ml
Aromatic C16-C21	9.064	13.374	11579146	81.488	500	ug/ml
Aromatic C21-C36	13.375	18.815	4275524	30.973	800	ug/ml
Aromatic EPH	4.508	18.815	29194156	199.3		ug/ml
ortho-Terphenyl (SURR)	11.928	11.928	6658910	45.21		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7133443	53.6		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	4689867	52.58		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015020.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 20:04
Operator : YP\AJ
Sample : P4822-09
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
SOIL-5

Integration File: autoint1.e
Quant Time: Nov 14 02:59:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.993	7133443	53.602 ug/ml
Spiked Amount 50.000		Recovery = 107.20%	
6) S 2-Flurobiphenyl (SURR)	8.867	4689867	52.584 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 105.17%	
11) S ortho-Terphenyl (SURR)	11.928	6658910	45.211 ug/ml
Spiked Amount 50.000		Recovery = 90.42%	
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

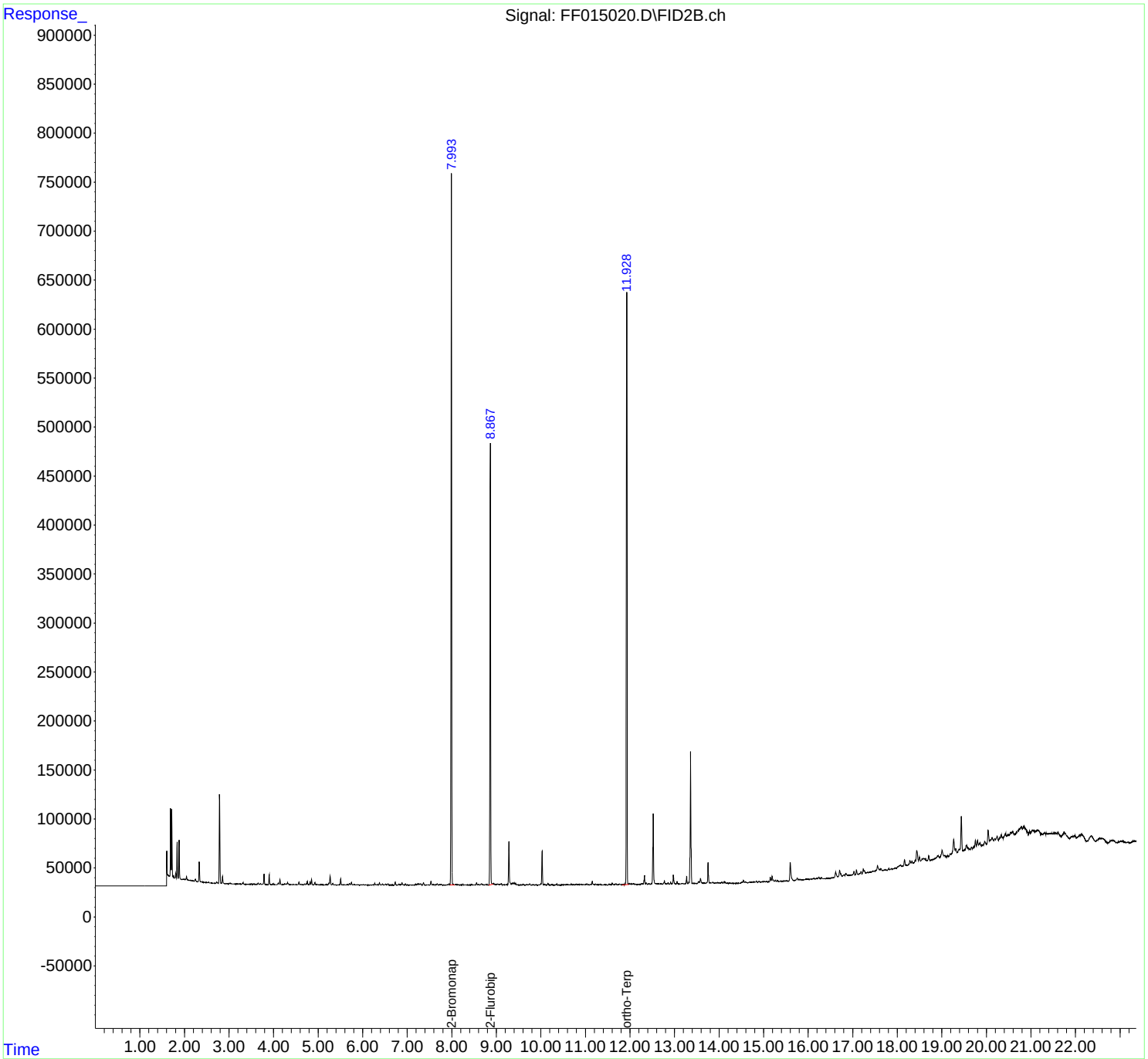
Quantitation Report (QT Reviewed)

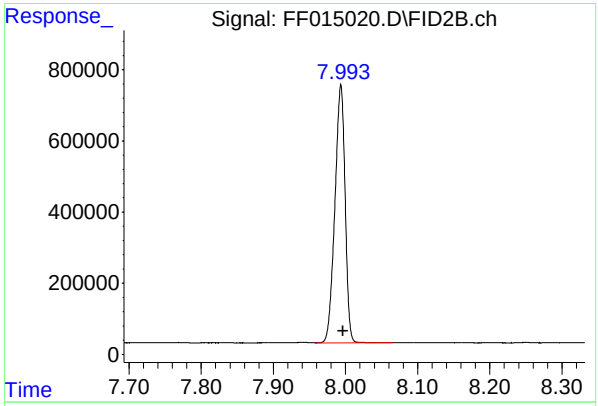
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015020.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 20:04
Operator : YP\AJ
Sample : P4822-09
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
SOIL-5

Integration File: autoint1.e
Quant Time: Nov 14 02:59:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

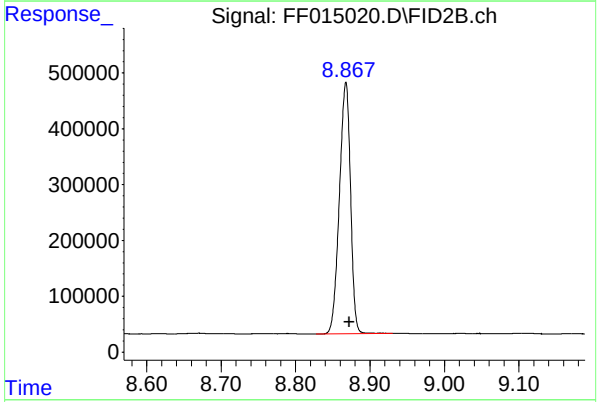




#4 2-Bromonaphthalene (SURR)

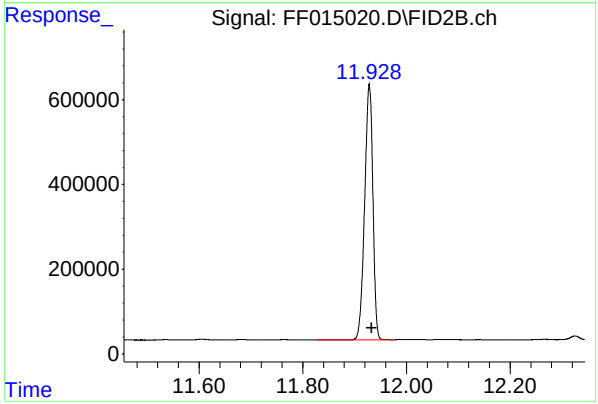
R.T.: 7.993 min
Delta R.T.: -0.003 min
Response: 7133443
Conc: 53.60 ug/ml

Instrument :
FID_F
ClientSampleId :
SOIL-5



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: -0.005 min
Response: 4689867
Conc: 52.58 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.928 min
Delta R.T.: -0.005 min
Response: 6658910
Conc: 45.21 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015020.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 20:04
Sample : P4822-09
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.456	4.437	4.476	VV	403	4367	0.06%	0.015%
2	4.517	4.476	4.535	VV	310	5237	0.07%	0.018%
3	4.570	4.535	4.592	VV	2782	31054	0.43%	0.106%
4	4.604	4.592	4.621	VV	602	6423	0.09%	0.022%
5	4.639	4.621	4.649	VV	257	3156	0.04%	0.011%
6	4.650	4.649	4.668	VV	224	1493	0.02%	0.005%
7	4.697	4.668	4.715	PV	786	10125	0.14%	0.035%
8	4.734	4.715	4.742	VV	1175	11155	0.16%	0.038%
9	4.758	4.742	4.781	VV	3624	40390	0.57%	0.138%
10	4.793	4.781	4.802	VV	369	3715	0.05%	0.013%
11	4.820	4.802	4.836	VV	2900	30687	0.43%	0.105%
12	4.854	4.836	4.879	VV	5816	60616	0.85%	0.208%
13	4.889	4.879	4.908	VV	222	3021	0.04%	0.010%
14	4.928	4.908	4.959	VV	2659	31152	0.44%	0.107%
15	4.981	4.959	5.010	VV	595	11417	0.16%	0.039%
16	5.040	5.010	5.044	VV	318	4598	0.06%	0.016%
17	5.061	5.044	5.101	VV	702	10672	0.15%	0.037%
18	5.111	5.101	5.153	VV	233	3338	0.05%	0.011%
19	5.183	5.153	5.221	PV	538	10833	0.15%	0.037%
20	5.244	5.221	5.252	VV	2049	20971	0.29%	0.072%
21	5.271	5.252	5.303	VV	9102	112573	1.57%	0.386%
22	5.332	5.303	5.363	VV	1915	23849	0.33%	0.082%
23	5.384	5.363	5.402	VV	349	4936	0.07%	0.017%
24	5.447	5.429	5.459	VV	179	2146	0.03%	0.007%
25	5.478	5.459	5.487	VV	485	5239	0.07%	0.018%
26	5.507	5.487	5.552	VV	6455	67964	0.95%	0.233%
27	5.571	5.552	5.622	VV	292	6008	0.08%	0.021%
28	5.649	5.622	5.657	VV	383	4407	0.06%	0.015%
29	5.670	5.657	5.685	VV	383	4396	0.06%	0.015%
30	5.704	5.685	5.721	VV	1646	18035	0.25%	0.062%
31	5.749	5.721	5.771	VV	2830	33846	0.47%	0.116%
32	5.780	5.771	5.790	VV	342	2719	0.04%	0.009%
33	5.808	5.790	5.852	VV	728	10964	0.15%	0.038%
34	5.869	5.852	5.886	VV	424	6442	0.09%	0.022%
35	5.889	5.886	5.932	VV	423	5461	0.08%	0.019%
36	5.963	5.932	5.991	PV	385	6785	0.09%	0.023%

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37	6.012	5.991	6.036	VV	563	7996	0.11%	0.027%
38	6.055	6.044	6.111	VV	327	7516	0.11%	0.026%
39	6.135	6.129	6.155	PV	136	1412	0.02%	0.005%
40	6.185	6.155	6.195	VV	258	3975	0.06%	0.014%
41	6.211	6.195	6.225	VV	257	3358	0.05%	0.012%
42	6.229	6.225	6.247	VV	240	2621	0.04%	0.009%
43	6.273	6.247	6.305	VV	1838	24707	0.35%	0.085%
44	6.333	6.305	6.356	VV	815	12121	0.17%	0.042%
45	6.378	6.356	6.417	VV	2473	28850	0.40%	0.099%
46	6.446	6.424	6.474	VV	1050	14331	0.20%	0.049%
47	6.517	6.474	6.546	VV	829	18453	0.26%	0.063%
48	6.569	6.546	6.593	VV	1527	17099	0.24%	0.059%
49	6.624	6.609	6.634	VV	142	1420	0.02%	0.005%
50	6.642	6.634	6.664	VV	141	1624	0.02%	0.006%
51	6.693	6.683	6.706	VV	162	1230	0.02%	0.004%
52	6.731	6.706	6.764	VV	3219	35256	0.49%	0.121%
53	6.818	6.764	6.837	VV	1089	17641	0.25%	0.060%
54	6.853	6.837	6.868	VV	986	9608	0.13%	0.033%
55	6.886	6.868	6.906	VV	2559	27556	0.39%	0.094%
56	6.921	6.906	6.939	VV	580	6373	0.09%	0.022%
57	6.960	6.939	6.984	VV	1471	15289	0.21%	0.052%
58	6.996	6.984	7.034	VV	180	3132	0.04%	0.011%
59	7.080	7.034	7.093	VV	306	6065	0.08%	0.021%
60	7.115	7.093	7.124	VV	265	2793	0.04%	0.010%
61	7.133	7.124	7.152	VV	176	2336	0.03%	0.008%
62	7.186	7.152	7.201	VV	1139	13003	0.18%	0.045%
63	7.209	7.201	7.219	VV	365	3392	0.05%	0.012%
64	7.240	7.219	7.275	VV	1626	31936	0.45%	0.109%
65	7.304	7.275	7.335	VV	1321	30269	0.42%	0.104%
66	7.368	7.335	7.392	VV	2544	36290	0.51%	0.124%
67	7.424	7.392	7.436	VV	337	4942	0.07%	0.017%
68	7.455	7.436	7.465	VV	337	4097	0.06%	0.014%
69	7.476	7.465	7.492	VV	454	4725	0.07%	0.016%
70	7.503	7.492	7.508	VV	312	2016	0.03%	0.007%
71	7.535	7.508	7.564	VV	4078	50232	0.70%	0.172%
72	7.594	7.564	7.604	VV	676	10566	0.15%	0.036%
73	7.614	7.604	7.629	VV	505	6182	0.09%	0.021%
74	7.642	7.629	7.657	VV	833	9626	0.13%	0.033%
75	7.676	7.657	7.697	VV	1560	20250	0.28%	0.069%
76	7.712	7.697	7.727	VV	452	5897	0.08%	0.020%
77	7.743	7.727	7.754	VV	674	8168	0.11%	0.028%
78	7.770	7.754	7.789	VV	1050	12364	0.17%	0.042%
79	7.838	7.789	7.868	VV	355	7825	0.11%	0.027%
80	7.911	7.868	7.925	PV	713	10504	0.15%	0.036%
81	7.942	7.925	7.959	VV	1510	16635	0.23%	0.057%
82	7.994	7.959	8.066	VV	726565	7148361	100.00%	24.482%
83	8.087	8.066	8.131	VV	996	26237	0.37%	0.090%
84	8.140	8.131	8.154	VV	411	4936	0.07%	0.017%
85	8.164	8.154	8.187	VV	395	4944	0.07%	0.017%
86	8.203	8.187	8.227	VV	499	6911	0.10%	0.024%
87	8.251	8.227	8.270	VV	1267	15062	0.21%	0.052%
88	8.281	8.270	8.304	VV	349	5026	0.07%	0.017%
89	8.311	8.304	8.316	VV	298	1933	0.03%	0.007%

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90	8.343	8.316	8.366	VV	465	10292	0.14%	0.035%
91	8.374	8.366	8.405	VV	283	4100	0.06%	0.014%
92	8.449	8.405	8.499	VV	738	20794	0.29%	0.071%
93	8.509	8.499	8.523	VV	298	3650	0.05%	0.012%
94	8.557	8.523	8.587	VV	2567	35907	0.50%	0.123%
95	8.593	8.587	8.599	VV	396	2439	0.03%	0.008%
96	8.616	8.599	8.636	VV	881	10587	0.15%	0.036%
97	8.671	8.636	8.691	VV	1558	30083	0.42%	0.103%
98	8.705	8.691	8.732	VV	810	13144	0.18%	0.045%
99	8.754	8.732	8.776	VV	839	15343	0.21%	0.053%
100	8.790	8.776	8.819	VV	985	12068	0.17%	0.041%
101	8.868	8.819	8.916	PV	451096	4709119	65.88%	16.128%
102	8.917	8.916	8.931	VV	1581	12039	0.17%	0.041%
103	8.943	8.931	8.957	VV	1454	18252	0.26%	0.063%
104	8.965	8.957	8.987	VV	884	12779	0.18%	0.044%
105	8.992	8.987	8.995	VV	693	2970	0.04%	0.010%
106	9.020	8.995	9.038	VV	1038	22309	0.31%	0.076%
107	9.047	9.038	9.063	VV	982	12697	0.18%	0.043%
108	9.074	9.063	9.084	VV	785	8535	0.12%	0.029%
109	9.102	9.084	9.143	VV	1191	28601	0.40%	0.098%
110	9.163	9.143	9.171	VV	488	5860	0.08%	0.020%
111	9.178	9.171	9.191	VV	505	5155	0.07%	0.018%
112	9.211	9.191	9.231	VV	589	10828	0.15%	0.037%
113	9.242	9.231	9.249	VV	643	3954	0.06%	0.014%
114	9.285	9.249	9.347	VV	44754	518438	7.25%	1.776%
115	9.362	9.347	9.377	VV	2519	32259	0.45%	0.110%
116	9.400	9.377	9.420	VV	2669	47445	0.66%	0.162%
117	9.434	9.420	9.457	VV	2208	27207	0.38%	0.093%
118	9.472	9.457	9.503	VV	720	9769	0.14%	0.033%
119	9.520	9.503	9.547	VV	421	6458	0.09%	0.022%
120	9.572	9.547	9.591	VV	526	8392	0.12%	0.029%
121	9.608	9.591	9.644	VV	971	14320	0.20%	0.049%
122	9.666	9.644	9.682	VV	494	7667	0.11%	0.026%
123	9.687	9.682	9.702	VV	462	4040	0.06%	0.014%
124	9.712	9.702	9.726	VV	338	3607	0.05%	0.012%
125	9.751	9.726	9.785	VV	1412	21856	0.31%	0.075%
126	9.827	9.785	9.838	VV	449	7724	0.11%	0.026%
127	9.845	9.838	9.871	VV	367	4057	0.06%	0.014%
128	9.890	9.871	9.926	VV	703	9426	0.13%	0.032%
129	9.953	9.926	9.974	PV	275	5375	0.08%	0.018%
130	10.000	9.974	10.008	VV	1559	17068	0.24%	0.058%
131	10.030	10.008	10.063	VV	35077	366734	5.13%	1.256%
132	10.095	10.063	10.119	VV	675	14213	0.20%	0.049%
133	10.162	10.119	10.212	VV	1959	26383	0.37%	0.090%
134	10.234	10.212	10.254	VV	492	7190	0.10%	0.025%
135	10.257	10.254	10.297	VV	306	4097	0.06%	0.014%
136	10.358	10.297	10.384	VV	1268	17651	0.25%	0.060%
137	10.397	10.384	10.427	VV	151	1539	0.02%	0.005%
138	10.501	10.460	10.522	VV	445	9849	0.14%	0.034%
139	10.556	10.522	10.574	VV	556	11215	0.16%	0.038%
140	10.597	10.574	10.615	VV	629	11480	0.16%	0.039%
141	10.634	10.615	10.660	VV	464	8734	0.12%	0.030%

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142	10.684	10.660	10.701	VV	879	11062	0.15%	0.038%
143	10.719	10.701	10.736	VV	308	4553	0.06%	0.016%
144	10.786	10.736	10.797	VV	803	16662	0.23%	0.057%
145	10.804	10.797	10.819	VV	770	7540	0.11%	0.026%
146	10.851	10.819	10.871	VV	836	17544	0.25%	0.060%
147	10.901	10.871	10.937	VV	974	20762	0.29%	0.071%
148	10.956	10.937	10.979	VV	711	11643	0.16%	0.040%
149	11.002	10.979	11.007	VV	512	7643	0.11%	0.026%
150	11.033	11.007	11.069	VV	1286	23722	0.33%	0.081%
151	11.090	11.069	11.106	VV	464	7115	0.10%	0.024%
152	11.122	11.106	11.136	VV	792	10575	0.15%	0.036%
153	11.155	11.136	11.205	VV	3845	55404	0.78%	0.190%
154	11.229	11.205	11.262	VV	1078	16870	0.24%	0.058%
155	11.270	11.262	11.292	VV	350	4474	0.06%	0.015%
156	11.328	11.292	11.348	VV	703	14430	0.20%	0.049%
157	11.353	11.348	11.397	VV	360	4968	0.07%	0.017%
158	11.413	11.397	11.424	VV	194	2429	0.03%	0.008%
159	11.442	11.424	11.484	VV	579	9075	0.13%	0.031%
160	11.537	11.498	11.559	PV	930	13167	0.18%	0.045%
161	11.577	11.559	11.585	VV	521	5630	0.08%	0.019%
162	11.606	11.585	11.635	VV	1950	27188	0.38%	0.093%
163	11.659	11.635	11.663	VV	426	5801	0.08%	0.020%
164	11.682	11.663	11.737	VV	1104	20538	0.29%	0.070%
165	11.765	11.737	11.782	VV	945	11848	0.17%	0.041%
166	11.800	11.782	11.826	VV	477	6944	0.10%	0.024%
167	11.850	11.826	11.857	VV	346	4187	0.06%	0.014%
168	11.863	11.857	11.873	VV	323	2981	0.04%	0.010%
169	11.929	11.873	11.974	VV	598868	6670140	93.31%	22.844%
170	11.991	11.974	12.011	VV	1191	17906	0.25%	0.061%
171	12.022	12.011	12.044	VV	998	14273	0.20%	0.049%
172	12.076	12.044	12.081	VV	1176	17022	0.24%	0.058%
173	12.085	12.081	12.121	VV	1113	15733	0.22%	0.054%
174	12.138	12.121	12.166	VV	556	9364	0.13%	0.032%
175	12.169	12.166	12.179	VV	140	1192	0.02%	0.004%
176	12.185	12.179	12.194	VV	192	1559	0.02%	0.005%
177	12.204	12.194	12.224	VV	341	4978	0.07%	0.017%
178	12.268	12.224	12.293	VV	1274	27588	0.39%	0.094%
179	12.326	12.293	12.351	VV	9316	120305	1.68%	0.412%
180	12.367	12.351	12.402	VV	1993	27574	0.39%	0.094%
181	12.432	12.402	12.457	VV	922	17169	0.24%	0.059%
182	12.523	12.457	12.589	VV	72483	887974	12.42%	3.041%
183	12.603	12.589	12.621	VV	825	12340	0.17%	0.042%
184	12.632	12.621	12.670	VV	698	16418	0.23%	0.056%
185	12.699	12.670	12.732	VV	661	17756	0.25%	0.061%
186	12.773	12.732	12.799	VV	3497	57877	0.81%	0.198%
187	12.807	12.799	12.822	VV	482	5071	0.07%	0.017%
188	12.854	12.822	12.876	VV	1621	23489	0.33%	0.080%
189	12.915	12.876	12.939	VV	2344	32862	0.46%	0.113%
190	12.973	12.939	13.025	VV	9679	128077	1.79%	0.439%
191	13.057	13.025	13.091	VV	2618	31063	0.43%	0.106%
192	13.112	13.091	13.120	VV	317	3136	0.04%	0.011%
193	13.166	13.120	13.222	VV	650	21238	0.30%	0.073%
194	13.240	13.230	13.246	VV	179	1552	0.02%	0.005%

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195	13.272	13.246	13.298	VV	7645	87743	1.23%	0.301%
196	13.361	13.298	13.393	VV	134938	1675866	23.44%	5.740%
197	13.404	13.393	13.429	VV	715	11775	0.16%	0.040%
198	13.444	13.429	13.456	VV	777	10024	0.14%	0.034%
199	13.460	13.456	13.466	VV	540	2868	0.04%	0.010%
200	13.473	13.466	13.497	VV	550	7300	0.10%	0.025%
201	13.542	13.497	13.559	VV	2471	44302	0.62%	0.152%
202	13.581	13.559	13.634	VV	5523	104717	1.46%	0.359%
203	13.656	13.634	13.687	VV	835	23831	0.33%	0.082%
204	13.752	13.687	13.830	VV	21621	287646	4.02%	0.985%
205	13.834	13.830	13.838	VV	766	3839	0.05%	0.013%
206	13.861	13.838	13.891	VV	1596	30230	0.42%	0.104%
207	13.932	13.891	13.950	VV	972	22577	0.32%	0.077%
208	13.970	13.950	13.993	VV	1108	20969	0.29%	0.072%
209	14.007	13.993	14.032	VV	848	14976	0.21%	0.051%
210	14.060	14.032	14.083	VV	1722	29823	0.42%	0.102%
211	14.113	14.083	14.158	VV	2327	46355	0.65%	0.159%
212	14.179	14.158	14.201	VV	666	9399	0.13%	0.032%
213	14.205	14.201	14.239	VV	269	4079	0.06%	0.014%
214	14.272	14.239	14.278	VV	217	4106	0.06%	0.014%
215	14.282	14.278	14.295	VV	139	1135	0.02%	0.004%
216	14.346	14.295	14.357	PV	220	5873	0.08%	0.020%
217	14.364	14.357	14.396	VV	253	3355	0.05%	0.011%
218	14.412	14.396	14.425	VV	94	1630	0.02%	0.006%
219	14.446	14.425	14.462	PV	219	2894	0.04%	0.010%
220	14.509	14.462	14.527	VV	1146	20390	0.29%	0.070%
221	14.548	14.527	14.572	VV	2836	42768	0.60%	0.146%
222	14.592	14.572	14.647	VV	1336	28725	0.40%	0.098%
223	14.676	14.647	14.696	VV	1042	16323	0.23%	0.056%
224	14.729	14.696	14.746	VV	526	13704	0.19%	0.047%
225	14.775	14.746	14.795	VV	1215	21697	0.30%	0.074%
226	14.838	14.795	14.864	VV	1658	30503	0.43%	0.104%
227	14.898	14.864	14.945	VV	1338	27715	0.39%	0.095%
228	14.992	14.945	15.016	VV	757	19735	0.28%	0.068%
229	15.024	15.016	15.039	VV	618	6605	0.09%	0.023%
230	15.062	15.039	15.089	VV	604	12767	0.18%	0.044%
231	15.100	15.089	15.117	VV	274	3627	0.05%	0.012%
232	15.148	15.117	15.167	VV	4805	63147	0.88%	0.216%
233	15.189	15.167	15.237	VV	5891	107421	1.50%	0.368%
234	15.261	15.237	15.287	VV	1678	25408	0.36%	0.087%
235	15.311	15.287	15.362	VV	1102	20714	0.29%	0.071%
236	15.387	15.362	15.424	VV	690	11701	0.16%	0.040%
237	15.453	15.424	15.471	PV	522	8669	0.12%	0.030%
238	15.490	15.471	15.499	VV	446	5850	0.08%	0.020%
239	15.514	15.499	15.547	VV	454	7441	0.10%	0.025%
240	15.596	15.547	15.677	PV	18816	343744	4.81%	1.177%
241	15.695	15.677	15.713	VV	600	9793	0.14%	0.034%
242	15.754	15.713	15.774	VV	2722	49440	0.69%	0.169%
243	15.794	15.774	15.807	VV	857	14178	0.20%	0.049%
244	15.822	15.807	15.841	VV	1158	15444	0.22%	0.053%
245	15.861	15.841	15.887	VV	939	15113	0.21%	0.052%
246	15.962	15.887	16.010	VV	976	43024	0.60%	0.147%

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247	16.061	16.010	16.082	VV	760	23355	0.33%	0.080%
248	16.120	16.082	16.162	VV	1113	39631	0.55%	0.136%
249	16.198	16.162	16.217	VV	1325	29282	0.41%	0.100%
250	16.238	16.217	16.274	VV	2264	38924	0.54%	0.133%
251	16.298	16.274	16.346	VV	1719	28125	0.39%	0.096%
252	16.363	16.346	16.381	VV	204	2626	0.04%	0.009%
253	16.428	16.381	16.453	PV	433	8997	0.13%	0.031%
254	16.543	16.453	16.552	PV	238	2594	0.04%	0.009%
255	16.615	16.552	16.664	PV	5298	113542	1.59%	0.389%
256	16.706	16.664	16.756	VV	6811	161870	2.26%	0.554%
257	16.799	16.756	16.818	VV	1747	41565	0.58%	0.142%
258	16.846	16.818	16.907	VV	2803	73011	1.02%	0.250%
259	16.926	16.907	16.939	VV	678	11171	0.16%	0.038%
260	16.954	16.939	16.974	VV	738	10668	0.15%	0.037%
261	17.026	16.974	17.055	VV	4001	65065	0.91%	0.223%
262	17.083	17.055	17.122	VV	5173	67596	0.95%	0.232%
263	17.155	17.122	17.165	PV	1128	16494	0.23%	0.056%
264	17.187	17.165	17.209	VV	2827	40314	0.56%	0.138%
265	17.237	17.209	17.254	VV	4996	73938	1.03%	0.253%
266	17.262	17.254	17.284	VV	3244	36736	0.51%	0.126%
267	17.298	17.284	17.307	VV	699	8485	0.12%	0.029%
268	17.337	17.307	17.357	VV	854	18428	0.26%	0.063%
269	17.396	17.357	17.419	VV	945	25989	0.36%	0.089%
270	17.461	17.419	17.471	VV	1267	32081	0.45%	0.110%
271	17.477	17.471	17.485	VV	1207	9667	0.14%	0.033%
272	17.556	17.485	17.614	VV	6149	195349	2.73%	0.669%
273	17.634	17.614	17.661	VV	2642	49161	0.69%	0.168%
274	17.688	17.661	17.697	VV	679	13384	0.19%	0.046%
275	17.722	17.697	17.766	VV	1423	29566	0.41%	0.101%
276	17.808	17.766	17.834	PV	1758	27355	0.38%	0.094%
277	17.861	17.834	17.892	VV	1002	18343	0.26%	0.063%
278	17.908	17.892	17.917	PV	639	5158	0.07%	0.018%
279	17.958	17.917	17.982	VV	835	17310	0.24%	0.059%
280	18.047	17.982	18.057	VV	2392	62135	0.87%	0.213%
281	18.074	18.057	18.099	VV	2540	45556	0.64%	0.156%
282	18.115	18.099	18.131	VV	1278	17974	0.25%	0.062%
283	18.163	18.131	18.191	VV	6894	121615	1.70%	0.417%
284	18.204	18.191	18.231	VV	1016	18179	0.25%	0.062%
285	18.283	18.231	18.306	VV	4852	99653	1.39%	0.341%
286	18.328	18.306	18.352	VV	4013	75099	1.05%	0.257%
287	18.398	18.352	18.412	VV	3888	83937	1.17%	0.287%
288	18.437	18.412	18.476	VV	13356	302355	4.23%	1.036%
289	18.496	18.476	18.522	VV	6027	113214	1.58%	0.388%
290	18.557	18.522	18.571	VV	4108	84496	1.18%	0.289%
291	18.592	18.571	18.664	VV	3887	146631	2.05%	0.502%
292	18.705	18.664	18.745	VV	5497	89551	1.25%	0.307%

Sum of corrected areas: 29198520

Aromatic EPH 110724.M Thu Nov 14 03:17:39 2024

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

Report of Analysis

Client:	BAPS North Bergen			Date Collected:	11/12/24
Project:	BAPS North Bergen			Date Received:	11/12/24
Client Sample ID:	SOIL-6			SDG No.:	P4822
Lab Sample ID:	P4822-11			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	87.7
Sample Wt/Vol:	30.04	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/14/24 3:14	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	1	0.43	1.14	mg/kg	FE051221.D
Aliphatic C12-C16	Aliphatic C12-C16	0.53	J	1	0.27	0.76	mg/kg	FE051221.D
Aliphatic C16-C21	Aliphatic C16-C21	0.47	J	1	0.34	1.14	mg/kg	FE051221.D
Aliphatic C21-C28	Aliphatic C21-C28	0.91	U	1	0.91	1.52	mg/kg	FE051221.D
Aliphatic C28-C40	Aliphatic C28-C40	9.01		1	2.05	2.28	mg/kg	FE051221.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.76	mg/kg	FF015012.D
Aromatic C12-C16	Aromatic C12-C16	0.39	U	1	0.39	1.14	mg/kg	FF015012.D
Aromatic C16-C21	Aromatic C16-C21	2.38		1	1.09	1.90	mg/kg	FF015012.D
Aromatic C21-C36	Aromatic C21-C36	3.35		1	2.28	3.04	mg/kg	FF015012.D
Total AliphaticEPH	Total AliphaticEPH	10.0			4.01	6.84	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.73	J		4.10	6.84	mg/kg	
Total EPH	Total EPH	15.7			8.11	13.7	mg/kg	

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

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

Report of Analysis

Client:	BAPS North Bergen	Date Collected:	11/12/24
Project:	BAPS North Bergen	Date Received:	11/12/24
Client Sample ID:	SOIL-6	SDG No.:	P4822
Lab Sample ID:	P4822-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.7
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051221.D	1	11/13/24	11/14/24	PB164943

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.43	U	0.43	1.14	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.53	J	0.27	0.76	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.47	J	0.34	1.14	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.91	U	0.91	1.52	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		9.01		2.05	2.28	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		29.6		40 - 140	59%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4822-11	Acq On:	14 Nov 2024 03:14
Client Sample ID:	SOIL-6	Operator:	YP\AJ
Data file:	FE051221.D	Misc:	
Instrument:	FID_E	ALS Vial:	27
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.138	6.755	402252	2.875	300	ug/ml
Aliphatic C12-C16	6.756	10.187	976310	6.942	200	ug/ml
Aliphatic C16-C21	10.188	13.546	856563	6.217	300	ug/ml
Aliphatic C21-C28	13.547	17.200	919929	6.868	400	ug/ml
Aliphatic C28-C40	17.201	22.043	15276947	118.657	600	ug/ml
Aliphatic EPH	3.138	22.043	18432001	141.56		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.279	13.279	3361079	29.6		ug/ml
Aliphatic C9-C28	3.138	17.200	3155054	22.902	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051221.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 03:14
Operator : YP\AJ
Sample : P4822-11
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SOIL-6

Integration File: autoint1.e
Quant Time: Nov 14 04:45:06 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			
12) S 1-chlorooctadecane (S...	13.279	3361079	29.605 ug/ml
Spiked Amount 50.000		Recovery = 59.21%	
Target Compounds			

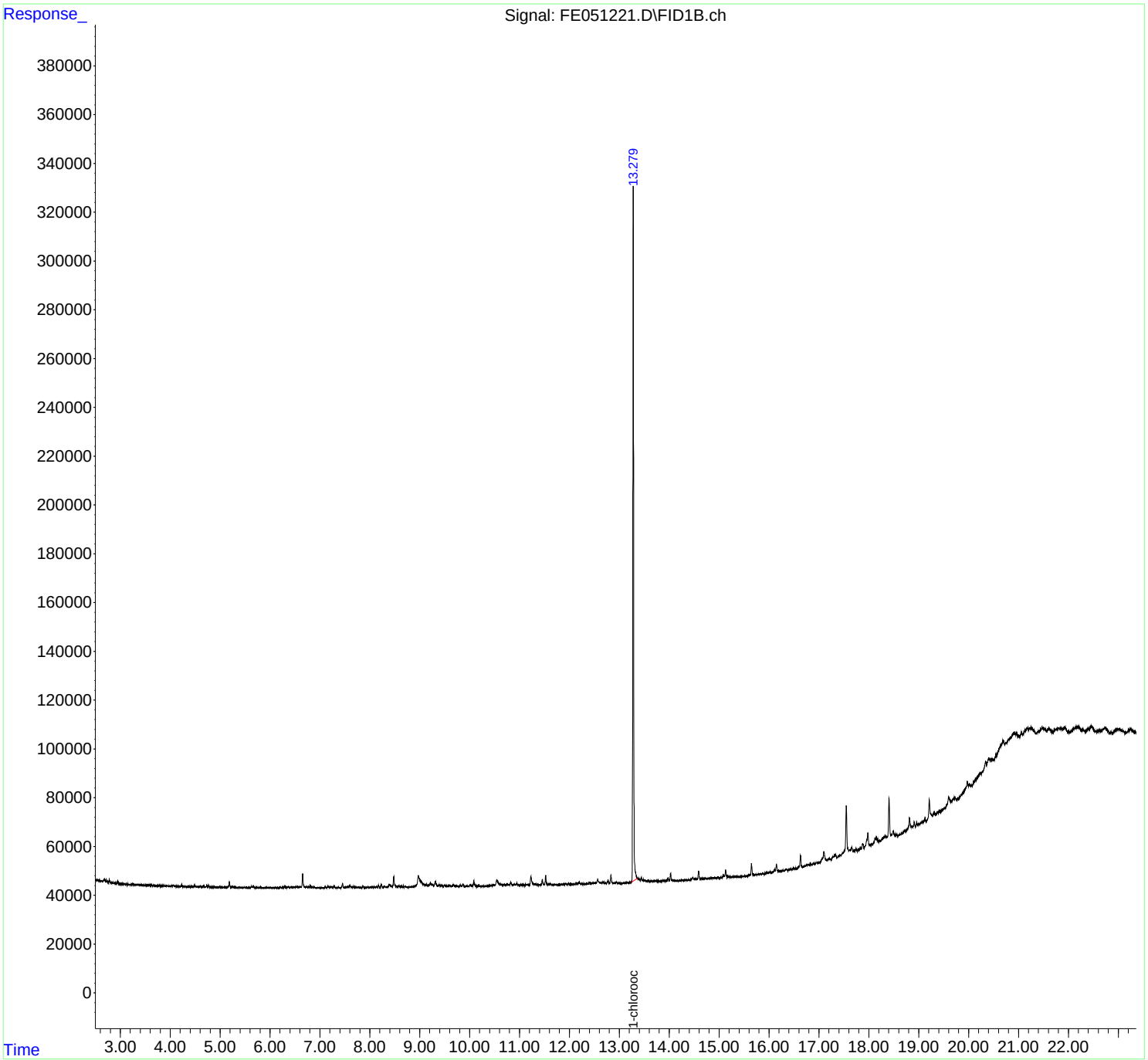
(f)=RT Delta > 1/2 Window (m)=manual int.

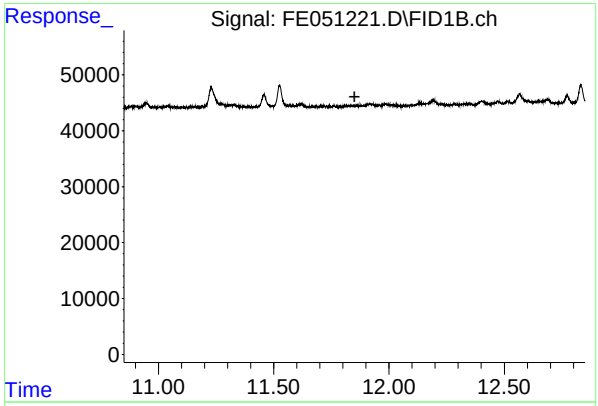
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051221.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 03:14
Operator : YP\AJ
Sample : P4822-11
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SOIL-6

Integration File: autoint1.e
Quant Time: Nov 14 04:45:06 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

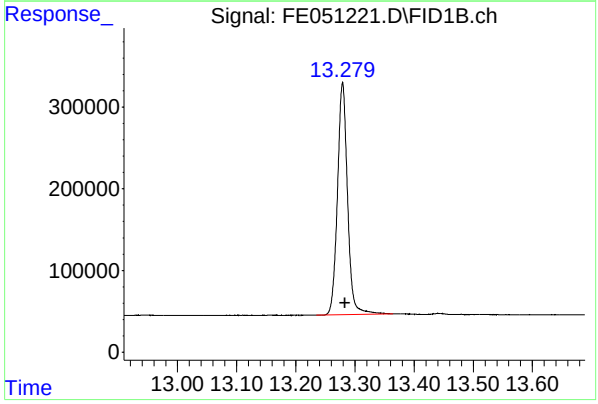




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
SOIL-6



#12 1-chlorooctadecane (SURR)

R.T.: 13.279 min
Delta R.T.: -0.004 min
Response: 3361079
Conc: 29.60 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051221.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 03:14
Sample : P4822-11
Misc :
ALS Vial : 27 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	3.237	3.204	3.293	BV	191	2873	0.08%	0.013%
2	3.316	3.293	3.344	PV	107	1454	0.04%	0.006%
3	3.363	3.344	3.404	VV	108	2766	0.08%	0.012%
4	3.414	3.404	3.434	VV	126	1299	0.04%	0.006%
5	3.443	3.434	3.468	VV	163	1568	0.05%	0.007%
6	3.479	3.468	3.489	VV	156	1223	0.04%	0.005%
7	3.500	3.489	3.512	VV	109	1497	0.04%	0.007%
8	3.520	3.512	3.557	VV	115	2524	0.07%	0.011%
9	3.571	3.557	3.604	VV	162	3402	0.10%	0.015%
10	3.627	3.604	3.738	VV	202	5875	0.17%	0.026%
11	3.744	3.738	3.813	PV	92	2457	0.07%	0.011%
12	3.834	3.813	3.854	VV	189	2936	0.08%	0.013%
13	3.864	3.854	3.911	VV	149	3153	0.09%	0.014%
14	3.927	3.911	3.995	VV	184	4091	0.12%	0.018%
15	4.029	3.995	4.043	VV	257	3715	0.11%	0.017%
16	4.061	4.043	4.107	VV	569	7606	0.22%	0.034%
17	4.117	4.107	4.181	VV	119	2126	0.06%	0.009%
18	4.192	4.181	4.199	VV	111	818	0.02%	0.004%
19	4.229	4.199	4.252	VV	640	8726	0.25%	0.039%
20	4.263	4.252	4.334	VV	122	1646	0.05%	0.007%
21	4.396	4.334	4.405	PV	139	3542	0.10%	0.016%
22	4.412	4.405	4.450	VV	111	1917	0.06%	0.009%
23	4.489	4.450	4.521	VV	497	7883	0.23%	0.035%
24	4.531	4.521	4.556	VV	170	2155	0.06%	0.010%
25	4.567	4.556	4.584	VV	106	694	0.02%	0.003%
26	4.611	4.584	4.641	VV	269	3528	0.10%	0.016%
27	4.674	4.641	4.701	VV	701	8979	0.26%	0.040%
28	4.706	4.701	4.716	VV	141	1076	0.03%	0.005%
29	4.735	4.716	4.752	VV	539	5845	0.17%	0.026%
30	4.769	4.752	4.824	VV	1005	11781	0.34%	0.053%
31	4.828	4.824	4.835	VV	91	326	0.01%	0.001%
32	4.850	4.835	4.861	PV	79	937	0.03%	0.004%
33	4.896	4.861	4.915	PV	174	3428	0.10%	0.015%
34	4.923	4.915	4.950	VV	98	1940	0.06%	0.009%
35	4.995	4.950	5.031	VV	148	4879	0.14%	0.022%
36	5.038	5.031	5.075	VV	62	870	0.02%	0.004%

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37	5.095	5.075	5.137	VV	188	3264	0.09%	0.015%
38	5.185	5.137	5.221	PV	2447	34668	1.00%	0.155%
39	5.247	5.221	5.271	VV	536	7392	0.21%	0.033%
40	5.282	5.271	5.346	VV	188	4942	0.14%	0.022%
41	5.393	5.346	5.439	PV	151	5894	0.17%	0.026%
42	5.445	5.439	5.464	VV	82	1172	0.03%	0.005%
43	5.486	5.464	5.558	VV	153	6313	0.18%	0.028%
44	5.585	5.558	5.603	VV	178	2892	0.08%	0.013%
45	5.626	5.603	5.647	VV	544	8186	0.23%	0.037%
46	5.666	5.647	5.711	VV	964	12785	0.37%	0.057%
47	5.727	5.711	5.775	VV	251	4327	0.12%	0.019%
48	5.800	5.775	5.814	VV	176	2881	0.08%	0.013%
49	5.830	5.814	5.849	VV	178	2447	0.07%	0.011%
50	5.858	5.849	5.866	VV	91	659	0.02%	0.003%
51	5.881	5.866	5.904	VV	119	2000	0.06%	0.009%
52	5.932	5.904	5.961	VV	250	4435	0.13%	0.020%
53	5.988	5.961	6.008	PV	140	2560	0.07%	0.011%
54	6.021	6.008	6.048	VV	141	1902	0.05%	0.008%
55	6.053	6.048	6.082	VV	123	971	0.03%	0.004%
56	6.104	6.082	6.118	VV	107	1375	0.04%	0.006%
57	6.121	6.118	6.136	VV	69	456	0.01%	0.002%
58	6.149	6.136	6.175	PV	139	2037	0.06%	0.009%
59	6.207	6.175	6.233	VV	202	4577	0.13%	0.020%
60	6.255	6.233	6.281	VV	320	5516	0.16%	0.025%
61	6.300	6.281	6.338	VV	571	8849	0.25%	0.039%
62	6.364	6.338	6.392	VV	403	7691	0.22%	0.034%
63	6.402	6.392	6.407	VV	185	1459	0.04%	0.007%
64	6.436	6.407	6.474	VV	370	12538	0.36%	0.056%
65	6.480	6.474	6.503	VV	407	5639	0.16%	0.025%
66	6.545	6.503	6.584	VV	432	17531	0.50%	0.078%
67	6.654	6.584	6.721	VV	5849	93572	2.69%	0.417%
68	6.736	6.721	6.757	VV	646	9787	0.28%	0.044%
69	6.774	6.757	6.787	VV	444	6095	0.17%	0.027%
70	6.805	6.787	6.826	VV	897	12467	0.36%	0.056%
71	6.839	6.826	6.858	VV	383	5143	0.15%	0.023%
72	6.881	6.858	6.915	VV	479	7134	0.20%	0.032%
73	6.932	6.915	6.968	VV	121	2689	0.08%	0.012%
74	6.977	6.968	7.007	VV	109	1460	0.04%	0.007%
75	7.031	7.007	7.047	PV	150	1702	0.05%	0.008%
76	7.060	7.047	7.081	VV	121	1015	0.03%	0.005%
77	7.106	7.081	7.134	VV	488	5603	0.16%	0.025%
78	7.160	7.134	7.196	VV	509	10705	0.31%	0.048%
79	7.210	7.196	7.255	VV	477	10624	0.30%	0.047%
80	7.289	7.255	7.312	VV	771	12906	0.37%	0.058%
81	7.329	7.312	7.353	VV	232	2771	0.08%	0.012%
82	7.377	7.353	7.418	VV	253	5257	0.15%	0.023%
83	7.454	7.418	7.491	VV	1840	23211	0.67%	0.104%
84	7.516	7.491	7.546	VV	366	9607	0.28%	0.043%
85	7.565	7.546	7.577	VV	393	6026	0.17%	0.027%
86	7.601	7.577	7.648	VV	1299	24339	0.70%	0.109%
87	7.660	7.648	7.678	VV	377	5643	0.16%	0.025%
88	7.691	7.678	7.748	VV	521	8918	0.26%	0.040%
89	7.758	7.748	7.798	VV	210	4079	0.12%	0.018%

90	7.811	7.798	7.836	VV	160	2041	0.06%	0.009%
91	7.862	7.836	7.914	PV	760	10264	0.29%	0.046%
92	7.961	7.914	7.998	PV	240	6274	0.18%	0.028%
93	8.032	7.998	8.051	VV	259	5530	0.16%	0.025%
94	8.060	8.051	8.074	VV	245	2555	0.07%	0.011%
95	8.088	8.074	8.111	VV	228	3919	0.11%	0.017%
96	8.128	8.111	8.146	VV	287	3698	0.11%	0.016%
97	8.173	8.146	8.208	VV	889	12961	0.37%	0.058%
98	8.230	8.208	8.283	VV	1508	22213	0.64%	0.099%
99	8.299	8.283	8.320	VV	526	7477	0.21%	0.033%
100	8.389	8.320	8.458	VV	1157	46488	1.33%	0.207%
101	8.480	8.458	8.553	VV	4467	72685	2.09%	0.324%
102	8.584	8.553	8.610	VV	752	16017	0.46%	0.071%
103	8.628	8.610	8.651	VV	402	7132	0.20%	0.032%
104	8.670	8.651	8.693	VV	379	6382	0.18%	0.028%
105	8.713	8.693	8.734	VV	416	5319	0.15%	0.024%
106	8.741	8.734	8.753	VV	107	1126	0.03%	0.005%
107	8.766	8.753	8.784	VV	181	1593	0.05%	0.007%
108	8.828	8.784	8.854	VV	292	6363	0.18%	0.028%
109	8.973	8.854	9.008	VV	4778	148250	4.26%	0.661%
110	9.016	9.008	9.102	VV	2591	89961	2.58%	0.401%
111	9.130	9.102	9.178	VV	1014	34596	0.99%	0.154%
112	9.218	9.178	9.283	VV	1692	60800	1.75%	0.271%
113	9.316	9.283	9.358	VV	2252	51622	1.48%	0.230%
114	9.363	9.358	9.374	VV	393	3974	0.11%	0.018%
115	9.392	9.374	9.418	VV	805	13740	0.39%	0.061%
116	9.443	9.418	9.474	VV	511	11609	0.33%	0.052%
117	9.495	9.474	9.529	VV	497	12730	0.37%	0.057%
118	9.543	9.529	9.555	VV	403	5628	0.16%	0.025%
119	9.605	9.555	9.648	VV	561	18786	0.54%	0.084%
120	9.670	9.648	9.708	VV	854	16302	0.47%	0.073%
121	9.726	9.708	9.756	VV	405	7984	0.23%	0.036%
122	9.773	9.756	9.789	VV	277	4404	0.13%	0.020%
123	9.814	9.789	9.844	VV	551	9688	0.28%	0.043%
124	9.864	9.844	9.902	VV	1008	13439	0.39%	0.060%
125	9.922	9.902	9.937	VV	162	1866	0.05%	0.008%
126	9.957	9.937	9.972	VV	159	1795	0.05%	0.008%
127	10.008	9.972	10.058	VV	722	15469	0.44%	0.069%
128	10.086	10.058	10.140	VV	2437	36285	1.04%	0.162%
129	10.184	10.140	10.244	VV	524	9951	0.29%	0.044%
130	10.257	10.244	10.298	VV	175	2423	0.07%	0.011%
131	10.361	10.298	10.378	PV	187	4003	0.11%	0.018%
132	10.403	10.378	10.418	VV	263	4289	0.12%	0.019%
133	10.430	10.418	10.443	VV	213	2595	0.07%	0.012%
134	10.476	10.443	10.496	VV	586	11815	0.34%	0.053%
135	10.542	10.496	10.657	VV	2448	91282	2.62%	0.407%
136	10.681	10.657	10.695	VV	537	10184	0.29%	0.045%
137	10.714	10.695	10.734	VV	532	10332	0.30%	0.046%
138	10.754	10.734	10.788	VV	810	16908	0.49%	0.075%
139	10.824	10.788	10.862	VV	1273	28850	0.83%	0.129%
140	10.899	10.862	10.921	VV	453	12581	0.36%	0.056%
141	10.948	10.921	10.998	VV	938	20868	0.60%	0.093%

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142	11.041	10.998	11.061	VV	404	10524	0.30%	0.047%
143	11.074	11.061	11.111	VV	185	5021	0.14%	0.022%
144	11.140	11.111	11.177	VV	279	7562	0.22%	0.034%
145	11.229	11.177	11.301	VV	3696	84428	2.42%	0.377%
146	11.327	11.301	11.377	VV	502	14679	0.42%	0.065%
147	11.458	11.377	11.496	VV	2319	40576	1.16%	0.181%
148	11.526	11.496	11.587	VV	3972	61401	1.76%	0.274%
149	11.619	11.587	11.652	VV	553	11880	0.34%	0.053%
150	11.705	11.652	11.735	VV	155	4784	0.14%	0.021%
151	11.759	11.735	11.784	VV	141	2095	0.06%	0.009%
152	11.845	11.784	11.875	PV	258	7460	0.21%	0.033%
153	11.917	11.875	11.968	VV	457	13613	0.39%	0.061%
154	11.985	11.968	12.058	VV	402	10050	0.29%	0.045%
155	12.140	12.058	12.151	VV	457	11034	0.32%	0.049%
156	12.192	12.151	12.264	VV	1012	27615	0.79%	0.123%
157	12.287	12.264	12.305	VV	286	4076	0.12%	0.018%
158	12.322	12.305	12.332	VV	260	3099	0.09%	0.014%
159	12.347	12.332	12.369	VV	303	3971	0.11%	0.018%
160	12.402	12.369	12.435	VV	698	15303	0.44%	0.068%
161	12.473	12.435	12.495	VV	579	13027	0.37%	0.058%
162	12.515	12.495	12.533	VV	615	9794	0.28%	0.044%
163	12.566	12.533	12.634	VV	1901	50972	1.46%	0.227%
164	12.689	12.634	12.734	VV	893	28922	0.83%	0.129%
165	12.773	12.734	12.797	VV	1528	23214	0.67%	0.104%
166	12.832	12.797	12.913	VV	3445	55775	1.60%	0.249%
167	12.945	12.913	12.985	VV	418	11201	0.32%	0.050%
168	12.995	12.985	13.019	VV	128	1733	0.05%	0.008%
169	13.089	13.019	13.134	PV	160	5676	0.16%	0.025%
170	13.157	13.134	13.176	VV	209	3074	0.09%	0.014%
171	13.198	13.176	13.210	VV	254	3027	0.09%	0.014%
172	13.279	13.210	13.416	VV	283346	3483323	100.00%	15.538%
173	13.443	13.416	13.491	VV	2205	53797	1.54%	0.240%
174	13.509	13.491	13.617	VV	761	41050	1.18%	0.183%
175	13.637	13.617	13.681	VV	406	12543	0.36%	0.056%
176	13.720	13.681	13.775	VV	578	20113	0.58%	0.090%
177	13.788	13.775	13.844	VV	293	9662	0.28%	0.043%
178	13.882	13.844	13.914	VV	385	10748	0.31%	0.048%
179	13.977	13.914	14.004	VV	1438	27953	0.80%	0.125%
180	14.028	14.004	14.064	VV	3274	48141	1.38%	0.215%
181	14.073	14.064	14.108	VV	314	4978	0.14%	0.022%
182	14.171	14.108	14.217	VV	189	6897	0.20%	0.031%
183	14.241	14.217	14.304	PV	272	8217	0.24%	0.037%
184	14.328	14.304	14.344	VV	192	2979	0.09%	0.013%
185	14.360	14.344	14.369	VV	109	1455	0.04%	0.006%
186	14.435	14.369	14.444	VV	269	6540	0.19%	0.029%
187	14.471	14.444	14.497	VV	1004	18026	0.52%	0.080%
188	14.541	14.497	14.563	VV	544	13005	0.37%	0.058%
189	14.589	14.563	14.631	VV	3522	50205	1.44%	0.224%
190	14.649	14.631	14.691	VV	379	9726	0.28%	0.043%
191	14.705	14.691	14.781	VV	322	10909	0.31%	0.049%
192	14.795	14.781	14.808	VV	193	1921	0.06%	0.009%
193	14.840	14.808	14.857	VV	398	6214	0.18%	0.028%
194	14.882	14.857	14.925	VV	468	11816	0.34%	0.053%

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195	14.941	14.925	14.955	VV	306	3811	0.11%	0.017%
196	14.983	14.955	15.031	VV	314	8371	0.24%	0.037%
197	15.086	15.031	15.105	VV	1341	23035	0.66%	0.103%
198	15.129	15.105	15.221	VV	3272	58787	1.69%	0.262%
199	15.322	15.221	15.368	VV	274	15400	0.44%	0.069%
200	15.377	15.368	15.407	VV	208	2726	0.08%	0.012%
201	15.468	15.407	15.478	PV	164	4539	0.13%	0.020%
202	15.541	15.478	15.553	PV	169	5250	0.15%	0.023%
203	15.606	15.553	15.624	VV	341	7814	0.22%	0.035%
204	15.648	15.624	15.758	VV	4839	72944	2.09%	0.325%
205	15.779	15.758	15.800	PV	205	2265	0.07%	0.010%
206	15.867	15.800	15.909	VV	239	7541	0.22%	0.034%
207	15.966	15.909	15.997	VV	336	8855	0.25%	0.039%
208	16.023	15.997	16.048	VV	351	7474	0.21%	0.033%
209	16.110	16.048	16.126	VV	1196	20876	0.60%	0.093%
210	16.148	16.126	16.224	VV	3168	55814	1.60%	0.249%
211	16.287	16.224	16.300	VV	299	7404	0.21%	0.033%
212	16.348	16.300	16.394	VV	692	15319	0.44%	0.068%
213	16.441	16.394	16.464	PV	365	8747	0.25%	0.039%
214	16.485	16.464	16.493	VV	529	6327	0.18%	0.028%
215	16.502	16.493	16.518	VV	428	5234	0.15%	0.023%
216	16.537	16.518	16.554	VV	313	3819	0.11%	0.017%
217	16.631	16.554	16.661	PV	5194	89637	2.57%	0.400%
218	16.680	16.661	16.691	VV	278	4596	0.13%	0.021%
219	16.791	16.691	16.808	VV	545	26931	0.77%	0.120%
220	16.833	16.808	16.866	VV	575	12252	0.35%	0.055%
221	16.897	16.866	16.912	VV	444	6919	0.20%	0.031%
222	16.968	16.912	17.001	VV	450	16661	0.48%	0.074%
223	17.099	17.001	17.161	VV	4242	128533	3.69%	0.573%
224	17.208	17.161	17.245	VV	774	25090	0.72%	0.112%
225	17.281	17.245	17.291	PV	1104	19545	0.56%	0.087%
226	17.334	17.291	17.362	VV	1515	44622	1.28%	0.199%
227	17.429	17.362	17.443	VV	805	24733	0.71%	0.110%
228	17.482	17.443	17.491	VV	1341	28300	0.81%	0.126%
229	17.548	17.491	17.596	VV	20147	367928	10.56%	1.641%
230	17.612	17.596	17.628	VV	1672	26985	0.77%	0.120%
231	17.658	17.628	17.688	VV	1984	50359	1.45%	0.225%
232	17.711	17.688	17.721	VV	729	11607	0.33%	0.052%
233	17.738	17.721	17.764	VV	891	14384	0.41%	0.064%
234	17.786	17.764	17.794	PV	305	3427	0.10%	0.015%
235	17.834	17.794	17.849	VV	692	12211	0.35%	0.054%
236	17.877	17.849	17.904	VV	2143	37249	1.07%	0.166%
237	17.980	17.904	18.009	VV	5874	143191	4.11%	0.639%
238	18.017	18.009	18.037	VV	750	9210	0.26%	0.041%
239	18.054	18.037	18.065	VV	591	7014	0.20%	0.031%
240	18.146	18.065	18.199	VV	2569	118880	3.41%	0.530%
241	18.219	18.199	18.237	VV	1170	19146	0.55%	0.085%
242	18.297	18.237	18.307	VV	1790	49894	1.43%	0.223%
243	18.324	18.307	18.344	VV	1979	38190	1.10%	0.170%
244	18.353	18.344	18.364	VV	1424	16423	0.47%	0.073%
245	18.405	18.364	18.438	VV	16931	276813	7.95%	1.235%
246	18.490	18.438	18.511	VV	3110	84283	2.42%	0.376%

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247	18.521	18.511	18.536	VV	1320	16099	0.46%	0.072%
248	18.552	18.536	18.579	VV	1010	17295	0.50%	0.077%
249	18.663	18.579	18.673	PV	464	15752	0.45%	0.070%
250	18.722	18.673	18.734	VV	816	18612	0.53%	0.083%
251	18.745	18.734	18.750	VV	477	4356	0.13%	0.019%
252	18.816	18.750	18.849	VV	4986	109655	3.15%	0.489%
253	18.863	18.849	18.881	VV	1035	16706	0.48%	0.075%
254	18.910	18.881	18.931	VV	1977	31441	0.90%	0.140%
255	18.960	18.931	18.988	VV	1327	22485	0.65%	0.100%
256	19.127	18.988	19.151	VV	1139	36014	1.03%	0.161%
257	19.212	19.151	19.276	PV	8097	166163	4.77%	0.741%
258	19.307	19.276	19.354	VV	1646	48838	1.40%	0.218%
259	19.381	19.354	19.393	VV	993	17221	0.49%	0.077%
260	19.598	19.393	19.643	VV	4694	235257	6.75%	1.049%
261	19.715	19.643	19.760	VV	3021	171575	4.93%	0.765%
262	19.972	19.760	20.000	VV	6775	476625	13.68%	2.126%
263	20.018	20.000	20.074	VV	5071	197559	5.67%	0.881%
264	20.239	20.074	20.258	VV	7385	646726	18.57%	2.885%
265	20.340	20.258	20.362	VV	10698	524412	15.05%	2.339%
266	20.402	20.362	20.440	VV	11566	493180	14.16%	2.200%
267	20.448	20.440	20.466	VV	10369	155654	4.47%	0.694%
268	20.480	20.466	20.495	VV	10100	169987	4.88%	0.758%
269	20.505	20.495	20.513	VV	9597	105684	3.03%	0.471%
270	20.694	20.513	20.722	VV	15138	1578683	45.32%	7.042%
271	20.913	20.722	20.937	VV	15798	1885817	54.14%	8.412%
272	20.951	20.937	21.022	VV	15263	728495	20.91%	3.250%
273	21.058	21.022	21.087	VV	14461	525978	15.10%	2.346%
274	21.172	21.087	21.206	VV	14861	1009264	28.97%	4.502%
275	21.252	21.206	21.305	VV	13958	804114	23.08%	3.587%
276	21.313	21.305	21.344	VV	12137	273670	7.86%	1.221%
277	21.478	21.344	21.504	VV	11253	1043111	29.95%	4.653%
278	21.513	21.504	21.570	VV	10691	388977	11.17%	1.735%
279	21.609	21.570	21.689	VV	9563	624333	17.92%	2.785%
280	21.758	21.689	21.770	VV	7641	363107	10.42%	1.620%
281	21.810	21.770	21.829	VV	7384	257146	7.38%	1.147%
282	21.845	21.829	21.898	VV	7058	270703	7.77%	1.208%
283	21.929	21.898	22.000	VV	6424	326048	9.36%	1.454%
284	22.010	22.000	22.034	VV	3729	70721	2.03%	0.315%
285	22.175	22.034	22.279	VV	3861	467015	13.41%	2.083%
286	22.287	22.279	22.302	VV	1278	14984	0.43%	0.067%
287	22.313	22.302	22.331	VV	820	10937	0.31%	0.049%
288	22.402	22.331	22.419	VV	427	10024	0.29%	0.045%

Sum of corrected areas: 22418282

Aliphatic EPH 110724.M Thu Nov 14 05:30:15 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:	11/12/24	
Project:	BAPS North Bergen		Date Received:	11/12/24	
Client Sample ID:	SOIL-6		SDG No.:	P4822	
Lab Sample ID:	P4822-11		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.7	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015012.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.34	U	0.34	0.76	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.39	U	0.39	1.14	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.38		1.09	1.90	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.35		2.28	3.04	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.8		40 - 140	98%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.4		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.1		40 - 140	50%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4822-11	Acq On:	13 Nov 2024 16:18
Client Sample ID:	SOIL-6	Operator:	YP\AJ
Data file:	FF015012.D	Misc:	
Instrument:	FID_F	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.508	6.372	505753	3.272	200	ug/ml
Aromatic C12-C16	6.373	9.063	765591	4.986	300	ug/ml
Aromatic C16-C21	9.064	13.374	4459276	31.382	500	ug/ml
Aromatic C21-C36	13.375	18.815	6092670	44.137	800	ug/ml
Aromatic EPH	4.508	18.815	11823290	83.776		ug/ml
ortho-Terphenyl (SURR)	11.923	11.923	3689427	25.05		ug/ml
2-Bromonaphthalene (SURR)	7.986	7.986	6492062	48.78		ug/ml
2-Flurobiphenyl (SURR)	8.861	8.861	4317603	48.41		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015012.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 16:18
Operator : YP\AJ
Sample : P4822-11
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
SOIL-6

Integration File: autoint1.e
Quant Time: Nov 14 02:58:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.986	6492062	48.782 ug/ml
Spiked Amount 50.000		Recovery =	97.56%
6) S 2-Flurobiphenyl (SURR)	8.861	4317603	48.410 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	96.82%
11) S ortho-Terphenyl (SURR)	11.923	3689427	25.049 ug/ml
Spiked Amount 50.000		Recovery =	50.10%
Target Compounds			

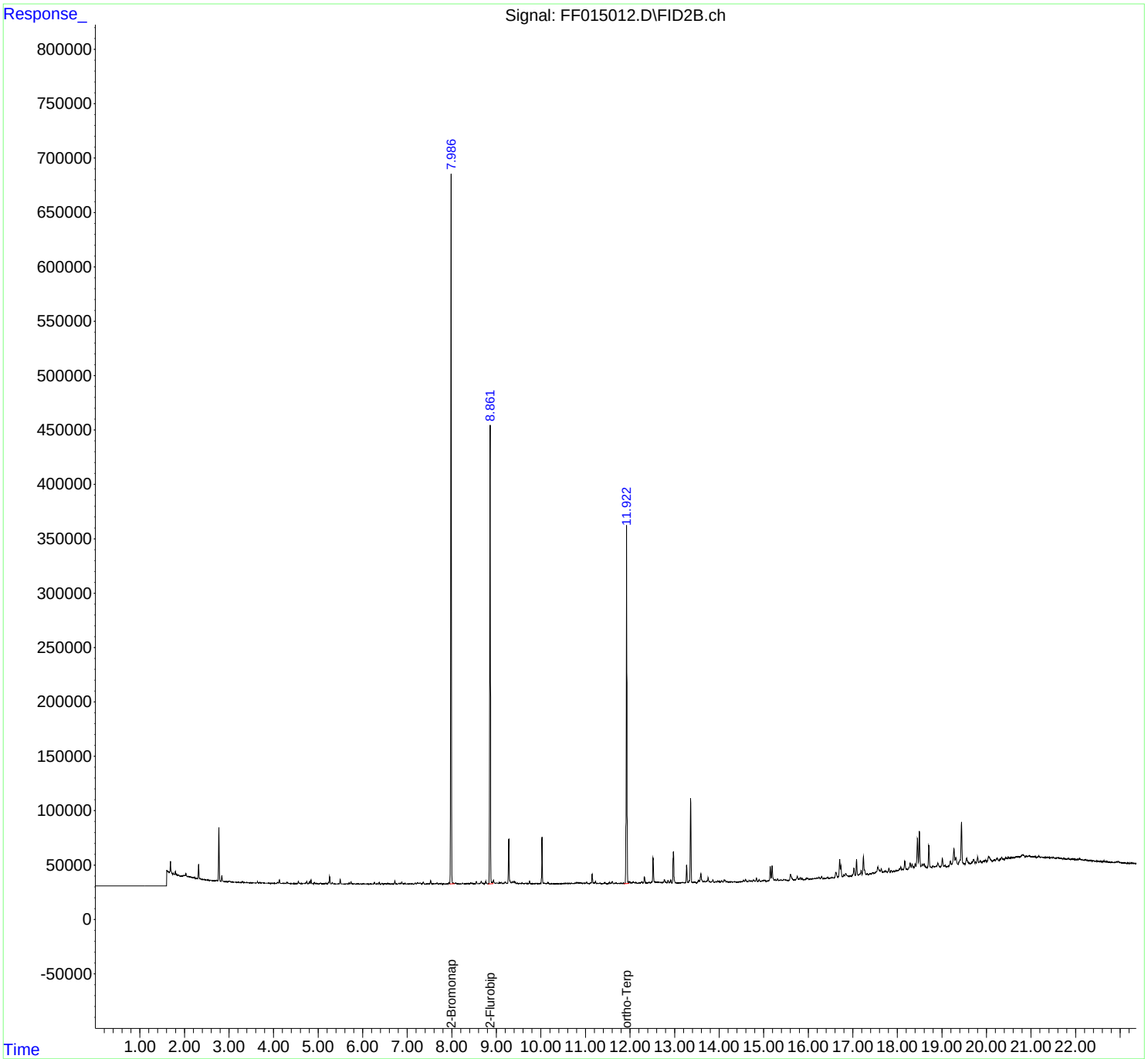
(f)=RT Delta > 1/2 Window (m)=manual int.

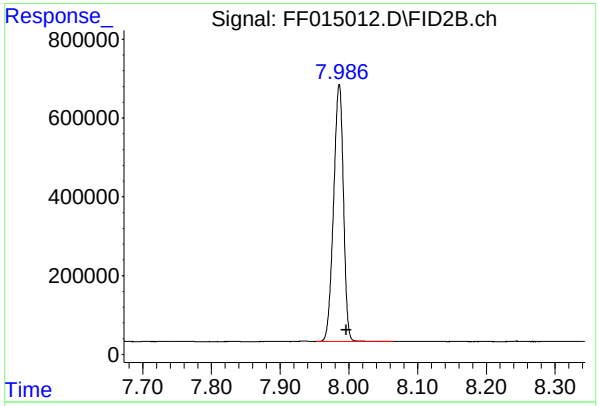
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015012.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 16:18
Operator : YP\AJ
Sample : P4822-11
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
SOIL-6

Integration File: autoint1.e
Quant Time: Nov 14 02:58:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

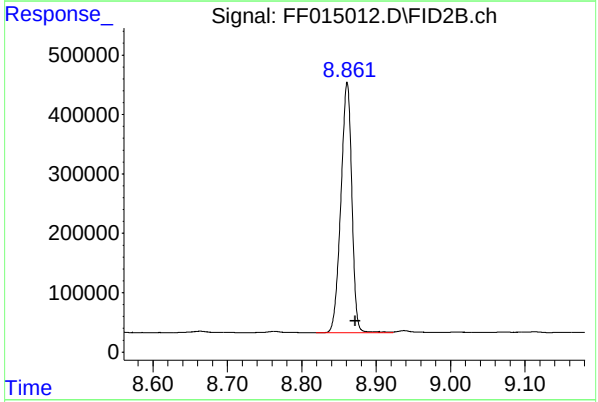




#4 2-Bromonaphthalene (SURR)

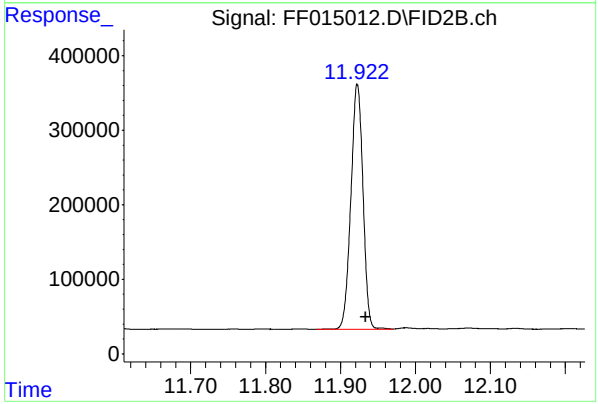
R.T.: 7.986 min
Delta R.T.: -0.011 min
Response: 6492062
Conc: 48.78 ug/ml

Instrument :
FID_F
ClientSampleId :
SOIL-6



#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: -0.011 min
Response: 4317603
Conc: 48.41 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.923 min
Delta R.T.: -0.011 min
Response: 3689427
Conc: 25.05 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015012.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 16:18
Sample : P4822-11
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.442	4.418	4.471	PV	223	3046	0.05%	0.012%
2	4.493	4.484	4.499	VV	208	1382	0.02%	0.005%
3	4.502	4.499	4.524	VV	211	1771	0.03%	0.007%
4	4.556	4.524	4.578	VV	2163	24826	0.38%	0.094%
5	4.593	4.578	4.621	VV	528	7291	0.11%	0.028%
6	4.642	4.621	4.649	VV	243	2855	0.04%	0.011%
7	4.683	4.662	4.703	VV	584	7379	0.11%	0.028%
8	4.722	4.703	4.731	VV	852	7929	0.12%	0.030%
9	4.745	4.731	4.768	VV	2363	25528	0.39%	0.097%
10	4.780	4.768	4.789	VV	241	2230	0.03%	0.008%
11	4.808	4.789	4.824	VV	2084	21691	0.33%	0.082%
12	4.841	4.824	4.895	VV	3778	40567	0.62%	0.154%
13	4.916	4.895	4.951	VV	1150	16089	0.25%	0.061%
14	4.968	4.951	4.997	VV	451	7899	0.12%	0.030%
15	5.012	5.007	5.026	VV	221	1568	0.02%	0.006%
16	5.050	5.026	5.083	VV	760	9907	0.15%	0.038%
17	5.104	5.083	5.126	VV	196	2882	0.04%	0.011%
18	5.169	5.126	5.206	VV	511	10186	0.16%	0.039%
19	5.233	5.206	5.242	VV	1543	16617	0.26%	0.063%
20	5.260	5.242	5.294	VV	6731	81884	1.26%	0.311%
21	5.320	5.294	5.351	VV	1381	18106	0.28%	0.069%
22	5.373	5.351	5.392	VV	296	4192	0.06%	0.016%
23	5.444	5.406	5.451	VV	197	2678	0.04%	0.010%
24	5.464	5.451	5.476	VV	379	3791	0.06%	0.014%
25	5.497	5.476	5.547	VV	4251	45244	0.70%	0.172%
26	5.567	5.547	5.580	VV	120	1718	0.03%	0.007%
27	5.636	5.604	5.650	VV	319	4244	0.07%	0.016%
28	5.657	5.650	5.671	VV	317	2365	0.04%	0.009%
29	5.693	5.671	5.714	VV	1153	13414	0.21%	0.051%
30	5.738	5.714	5.759	VV	2153	25347	0.39%	0.096%
31	5.766	5.759	5.781	VV	218	2167	0.03%	0.008%
32	5.798	5.781	5.839	VV	604	8389	0.13%	0.032%
33	5.873	5.839	5.884	VV	296	5134	0.08%	0.019%
34	5.887	5.884	5.920	VV	325	3400	0.05%	0.013%
35	5.940	5.920	5.947	VV	172	1724	0.03%	0.007%
36	5.960	5.947	5.973	VV	248	2363	0.04%	0.009%

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37	6.007	5.973	6.026	VV	460	6725	0.10%	0.026%
38	6.043	6.026	6.072	VV	253	4733	0.07%	0.018%
39	6.077	6.072	6.109	VV	170	2289	0.04%	0.009%
40	6.132	6.127	6.148	VV	117	1167	0.02%	0.004%
41	6.175	6.148	6.192	VV	309	4495	0.07%	0.017%
42	6.205	6.192	6.237	VV	253	4575	0.07%	0.017%
43	6.264	6.237	6.304	VV	1734	23431	0.36%	0.089%
44	6.325	6.304	6.349	VV	603	8262	0.13%	0.031%
45	6.370	6.349	6.394	VV	1669	18472	0.28%	0.070%
46	6.436	6.408	6.460	VV	964	12238	0.19%	0.046%
47	6.509	6.460	6.537	VV	576	12348	0.19%	0.047%
48	6.561	6.537	6.590	VV	986	11247	0.17%	0.043%
49	6.615	6.590	6.621	PV	127	1139	0.02%	0.004%
50	6.664	6.649	6.691	VV	109	1702	0.03%	0.006%
51	6.723	6.698	6.752	VV	3088	33754	0.52%	0.128%
52	6.768	6.752	6.774	VV	215	2017	0.03%	0.008%
53	6.810	6.774	6.827	VV	919	13330	0.20%	0.051%
54	6.845	6.827	6.859	VV	764	8682	0.13%	0.033%
55	6.878	6.859	6.897	VV	1938	21951	0.34%	0.083%
56	6.914	6.897	6.934	VV	566	6847	0.11%	0.026%
57	6.952	6.934	6.974	VV	1181	12555	0.19%	0.048%
58	6.989	6.974	6.997	VV	196	2087	0.03%	0.008%
59	7.012	6.997	7.027	VV	217	2653	0.04%	0.010%
60	7.056	7.027	7.063	VV	292	4693	0.07%	0.018%
61	7.068	7.063	7.089	VV	281	2746	0.04%	0.010%
62	7.105	7.089	7.124	VV	294	4611	0.07%	0.017%
63	7.132	7.124	7.147	VV	289	2557	0.04%	0.010%
64	7.178	7.147	7.195	VV	992	12764	0.20%	0.048%
65	7.206	7.195	7.211	VV	359	3007	0.05%	0.011%
66	7.232	7.211	7.251	VV	1507	22451	0.35%	0.085%
67	7.256	7.251	7.268	VV	784	7302	0.11%	0.028%
68	7.296	7.268	7.330	VV	1106	25206	0.39%	0.096%
69	7.361	7.330	7.397	VV	2085	30581	0.47%	0.116%
70	7.401	7.397	7.430	VV	218	3099	0.05%	0.012%
71	7.446	7.430	7.459	VV	320	4260	0.07%	0.016%
72	7.470	7.459	7.486	VV	379	4399	0.07%	0.017%
73	7.496	7.486	7.503	VV	328	2406	0.04%	0.009%
74	7.527	7.503	7.559	VV	3423	41137	0.63%	0.156%
75	7.587	7.559	7.596	VV	554	7491	0.12%	0.028%
76	7.601	7.596	7.619	VV	380	4195	0.06%	0.016%
77	7.635	7.619	7.649	VV	582	6891	0.11%	0.026%
78	7.669	7.649	7.690	VV	1189	14775	0.23%	0.056%
79	7.707	7.690	7.719	VV	280	3323	0.05%	0.013%
80	7.738	7.719	7.748	VV	569	6964	0.11%	0.026%
81	7.763	7.748	7.789	VV	849	9224	0.14%	0.035%
82	7.829	7.806	7.847	VV	264	4513	0.07%	0.017%
83	7.908	7.861	7.919	VV	455	8953	0.14%	0.034%
84	7.935	7.919	7.952	VV	1364	15292	0.24%	0.058%
85	7.986	7.952	8.047	VV	653187	6507219	100.00%	24.693%
86	8.053	8.047	8.065	VV	642	5876	0.09%	0.022%
87	8.079	8.065	8.144	VV	864	25360	0.39%	0.096%
88	8.160	8.144	8.189	VV	374	6203	0.10%	0.024%
89	8.200	8.189	8.225	VV	358	4406	0.07%	0.017%

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90	8.244	8.225	8.267	VV	1003	12046	0.19%	0.046%
91	8.301	8.267	8.314	VV	409	7435	0.11%	0.028%
92	8.335	8.314	8.360	VV	493	10811	0.17%	0.041%
93	8.373	8.360	8.397	VV	462	7648	0.12%	0.029%
94	8.421	8.397	8.433	VV	1186	14440	0.22%	0.055%
95	8.443	8.433	8.489	VV	744	17520	0.27%	0.066%
96	8.500	8.489	8.521	VV	363	4856	0.07%	0.018%
97	8.551	8.521	8.581	VV	2444	33320	0.51%	0.126%
98	8.584	8.581	8.596	VV	437	3479	0.05%	0.013%
99	8.609	8.596	8.627	VV	481	7057	0.11%	0.027%
100	8.663	8.627	8.687	VV	2711	46295	0.71%	0.176%
101	8.696	8.687	8.729	VV	796	12065	0.19%	0.046%
102	8.763	8.729	8.810	VV	2506	42077	0.65%	0.160%
103	8.861	8.819	8.907	VV	421694	4317391	66.35%	16.383%
104	8.910	8.907	8.922	VV	1562	13099	0.20%	0.050%
105	8.938	8.922	8.984	VV	3734	60602	0.93%	0.230%
106	9.014	8.984	9.032	VV	1060	24941	0.38%	0.095%
107	9.041	9.032	9.055	VV	847	10665	0.16%	0.040%
108	9.072	9.055	9.084	VV	1390	18908	0.29%	0.072%
109	9.112	9.084	9.132	VV	1636	31130	0.48%	0.118%
110	9.155	9.132	9.172	VV	704	13463	0.21%	0.051%
111	9.197	9.172	9.226	VV	1966	38607	0.59%	0.147%
112	9.232	9.226	9.252	VV	839	10903	0.17%	0.041%
113	9.280	9.252	9.342	VV	41366	492336	7.57%	1.868%
114	9.357	9.342	9.377	VV	2363	35616	0.55%	0.135%
115	9.395	9.377	9.414	VV	2673	41775	0.64%	0.159%
116	9.428	9.414	9.450	VV	2013	25583	0.39%	0.097%
117	9.469	9.450	9.499	VV	950	15412	0.24%	0.058%
118	9.516	9.499	9.547	VV	696	14451	0.22%	0.055%
119	9.576	9.547	9.597	VV	1127	19995	0.31%	0.076%
120	9.614	9.597	9.629	VV	503	7488	0.12%	0.028%
121	9.653	9.629	9.674	VV	851	13732	0.21%	0.052%
122	9.682	9.674	9.695	VV	507	5191	0.08%	0.020%
123	9.709	9.695	9.725	VV	453	6642	0.10%	0.025%
124	9.746	9.725	9.785	VV	2767	36460	0.56%	0.138%
125	9.825	9.785	9.864	VV	516	13064	0.20%	0.050%
126	9.888	9.864	9.922	VV	785	14054	0.22%	0.053%
127	9.939	9.922	9.971	VV	379	7102	0.11%	0.027%
128	10.026	9.971	10.059	VV	43124	472349	7.26%	1.792%
129	10.073	10.059	10.114	VV	891	19841	0.30%	0.075%
130	10.133	10.114	10.137	VV	462	5777	0.09%	0.022%
131	10.159	10.137	10.193	VV	1864	27701	0.43%	0.105%
132	10.233	10.211	10.279	VV	452	12250	0.19%	0.046%
133	10.286	10.279	10.297	VV	208	1733	0.03%	0.007%
134	10.310	10.297	10.318	VV	265	2603	0.04%	0.010%
135	10.329	10.318	10.350	VV	370	5406	0.08%	0.021%
136	10.357	10.350	10.362	VV	186	1373	0.02%	0.005%
137	10.376	10.362	10.380	VV	280	2281	0.04%	0.009%
138	10.386	10.380	10.416	VV	321	3567	0.05%	0.014%
139	10.439	10.416	10.451	PV	223	2771	0.04%	0.011%
140	10.486	10.451	10.521	VV	580	15472	0.24%	0.059%
141	10.554	10.521	10.567	VV	706	14547	0.22%	0.055%

142	10.589	10.567	10.609	VV	829	15591	0.24%	0.059%
143	10.628	10.609	10.656	VV	647	12485	0.19%	0.047%
144	10.680	10.656	10.700	VV	946	13835	0.21%	0.052%
145	10.711	10.700	10.731	VV	540	7415	0.11%	0.028%
146	10.763	10.731	10.769	VV	646	11838	0.18%	0.045%
147	10.800	10.769	10.820	VV	1529	31397	0.48%	0.119%
148	10.849	10.820	10.864	VV	1105	25631	0.39%	0.097%
149	10.897	10.864	10.935	VV	1083	34129	0.52%	0.130%
150	10.956	10.935	11.004	VV	965	27206	0.42%	0.103%
151	11.028	11.004	11.067	VV	1332	26608	0.41%	0.101%
152	11.119	11.067	11.130	VV	1188	23236	0.36%	0.088%
153	11.151	11.130	11.181	VV	9164	108224	1.66%	0.411%
154	11.186	11.181	11.202	VV	927	10555	0.16%	0.040%
155	11.225	11.202	11.252	VV	2716	38999	0.60%	0.148%
156	11.269	11.252	11.300	VV	645	13490	0.21%	0.051%
157	11.325	11.300	11.344	VV	790	14035	0.22%	0.053%
158	11.352	11.344	11.377	VV	408	5276	0.08%	0.020%
159	11.439	11.377	11.493	VV	1530	30113	0.46%	0.114%
160	11.532	11.493	11.553	PV	1549	22789	0.35%	0.086%
161	11.572	11.553	11.584	VV	915	12314	0.19%	0.047%
162	11.602	11.584	11.634	VV	2204	30309	0.47%	0.115%
163	11.680	11.634	11.717	VV	750	21278	0.33%	0.081%
164	11.759	11.717	11.774	VV	496	8955	0.14%	0.034%
165	11.795	11.774	11.824	VV	698	10206	0.16%	0.039%
166	11.843	11.824	11.872	VV	577	9048	0.14%	0.034%
167	11.923	11.872	11.970	VV	329110	3698095	56.83%	14.033%
168	11.988	11.970	12.004	VV	1993	27902	0.43%	0.106%
169	12.017	12.004	12.037	VV	1153	17402	0.27%	0.066%
170	12.071	12.037	12.092	VV	1624	35529	0.55%	0.135%
171	12.101	12.092	12.117	VV	973	11547	0.18%	0.044%
172	12.133	12.117	12.164	VV	1183	17205	0.26%	0.065%
173	12.208	12.164	12.229	VV	783	18244	0.28%	0.069%
174	12.265	12.229	12.291	VV	1548	34260	0.53%	0.130%
175	12.323	12.291	12.347	VV	6179	83363	1.28%	0.316%
176	12.365	12.347	12.389	VV	873	14821	0.23%	0.056%
177	12.426	12.389	12.461	VV	1421	30093	0.46%	0.114%
178	12.516	12.461	12.586	VV	23482	334988	5.15%	1.271%
179	12.602	12.586	12.617	VV	1217	17085	0.26%	0.065%
180	12.632	12.617	12.687	VV	1198	39407	0.61%	0.150%
181	12.699	12.687	12.722	VV	879	14506	0.22%	0.055%
182	12.771	12.722	12.791	VV	3211	62764	0.96%	0.238%
183	12.804	12.791	12.824	VV	1168	15529	0.24%	0.059%
184	12.852	12.824	12.877	VV	2527	36666	0.56%	0.139%
185	12.912	12.877	12.936	VV	3034	46373	0.71%	0.176%
186	12.973	12.936	13.020	VV	28690	395209	6.07%	1.500%
187	13.037	13.020	13.052	VV	428	4955	0.08%	0.019%
188	13.103	13.092	13.111	VV	316	2589	0.04%	0.010%
189	13.129	13.111	13.140	VV	340	4617	0.07%	0.018%
190	13.162	13.140	13.176	VV	632	8614	0.13%	0.033%
191	13.187	13.176	13.234	VV	469	10280	0.16%	0.039%
192	13.269	13.234	13.299	VV	16664	186295	2.86%	0.707%
193	13.358	13.299	13.390	VV	78125	974488	14.98%	3.698%
194	13.401	13.390	13.426	VV	759	11589	0.18%	0.044%

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195	13.441	13.426	13.457	VV	984	13342	0.21%	0.051%
196	13.463	13.457	13.492	VV	545	7380	0.11%	0.028%
197	13.538	13.500	13.556	PV	2625	44028	0.68%	0.167%
198	13.588	13.556	13.649	VV	8447	178962	2.75%	0.679%
199	13.663	13.649	13.685	VV	1311	23256	0.36%	0.088%
200	13.729	13.685	13.735	VV	1883	38281	0.59%	0.145%
201	13.750	13.735	13.804	VV	4662	76810	1.18%	0.291%
202	13.809	13.804	13.819	VV	694	5648	0.09%	0.021%
203	13.858	13.819	13.888	VV	2639	49788	0.77%	0.189%
204	13.928	13.888	13.944	VV	1001	18539	0.28%	0.070%
205	13.968	13.944	13.987	VV	1518	25346	0.39%	0.096%
206	14.006	13.987	14.031	VV	1420	21508	0.33%	0.082%
207	14.057	14.031	14.080	VV	1788	28652	0.44%	0.109%
208	14.112	14.080	14.124	VV	2464	35885	0.55%	0.136%
209	14.134	14.124	14.157	VV	1954	24001	0.37%	0.091%
210	14.175	14.157	14.198	VV	1125	15623	0.24%	0.059%
211	14.204	14.198	14.230	VV	311	4489	0.07%	0.017%
212	14.268	14.230	14.302	VV	803	16791	0.26%	0.064%
213	14.316	14.302	14.324	VV	368	3960	0.06%	0.015%
214	14.352	14.324	14.396	VV	457	13578	0.21%	0.052%
215	14.401	14.396	14.420	VV	195	1888	0.03%	0.007%
216	14.449	14.420	14.457	PV	316	4404	0.07%	0.017%
217	14.475	14.457	14.489	VV	326	4687	0.07%	0.018%
218	14.506	14.489	14.516	VV	467	6029	0.09%	0.023%
219	14.548	14.516	14.570	VV	1828	33676	0.52%	0.128%
220	14.591	14.570	14.651	VV	2544	46839	0.72%	0.178%
221	14.673	14.651	14.691	VV	1367	19226	0.30%	0.073%
222	14.698	14.691	14.711	VV	687	7326	0.11%	0.028%
223	14.718	14.711	14.724	VV	543	4266	0.07%	0.016%
224	14.729	14.724	14.744	VV	624	5854	0.09%	0.022%
225	14.772	14.744	14.792	VV	1693	30494	0.47%	0.116%
226	14.799	14.792	14.810	VV	628	5819	0.09%	0.022%
227	14.836	14.810	14.869	VV	3316	48185	0.74%	0.183%
228	14.895	14.869	14.934	VV	1448	22973	0.35%	0.087%
229	14.966	14.934	14.974	VV	561	8205	0.13%	0.031%
230	14.993	14.974	15.006	VV	775	11449	0.18%	0.043%
231	15.019	15.006	15.074	VV	971	19486	0.30%	0.074%
232	15.146	15.074	15.166	VV	13434	180391	2.77%	0.685%
233	15.188	15.166	15.242	VV	14207	225877	3.47%	0.857%
234	15.260	15.242	15.290	VV	1634	28741	0.44%	0.109%
235	15.310	15.290	15.332	VV	2136	29453	0.45%	0.112%
236	15.350	15.332	15.362	VV	664	9474	0.15%	0.036%
237	15.385	15.362	15.413	VV	1247	20597	0.32%	0.078%
238	15.449	15.413	15.475	VV	1381	27020	0.42%	0.103%
239	15.485	15.475	15.497	VV	894	9704	0.15%	0.037%
240	15.511	15.497	15.547	VV	702	12022	0.18%	0.046%
241	15.599	15.547	15.674	PV	5763	145845	2.24%	0.553%
242	15.696	15.674	15.709	VV	636	9552	0.15%	0.036%
243	15.753	15.709	15.774	VV	3442	65883	1.01%	0.250%
244	15.790	15.774	15.795	VV	960	10852	0.17%	0.041%
245	15.798	15.795	15.802	VV	884	3660	0.06%	0.014%
246	15.821	15.802	15.840	VV	2299	31601	0.49%	0.120%

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247	15.860	15.840	15.887	VV	1611	21759	0.33%	0.083%
248	15.902	15.887	15.916	VV	362	4272	0.07%	0.016%
249	15.960	15.916	15.968	VV	1131	18305	0.28%	0.069%
250	15.985	15.968	16.013	VV	1175	21829	0.34%	0.083%
251	16.019	16.013	16.025	VV	325	1902	0.03%	0.007%
252	16.027	16.025	16.036	VV	252	1304	0.02%	0.005%
253	16.059	16.036	16.086	VV	698	12338	0.19%	0.047%
254	16.103	16.086	16.112	VV	522	6833	0.11%	0.026%
255	16.145	16.112	16.162	VV	807	17001	0.26%	0.065%
256	16.198	16.162	16.216	VV	1263	23624	0.36%	0.090%
257	16.238	16.216	16.272	VV	1929	33749	0.52%	0.128%
258	16.299	16.272	16.345	VV	2228	36514	0.56%	0.139%
259	16.376	16.361	16.396	VV	184	2260	0.03%	0.009%
260	16.431	16.396	16.447	VV	1117	18360	0.28%	0.070%
261	16.452	16.447	16.479	VV	394	3989	0.06%	0.015%
262	16.531	16.479	16.554	PV	688	14148	0.22%	0.054%
263	16.566	16.554	16.582	VV	292	2779	0.04%	0.011%
264	16.618	16.582	16.666	VV	4953	111421	1.71%	0.423%
265	16.704	16.666	16.720	VV	16563	240025	3.69%	0.911%
266	16.732	16.720	16.770	VV	10464	134470	2.07%	0.510%
267	16.801	16.770	16.818	VV	1915	31863	0.49%	0.121%
268	16.842	16.818	16.915	VV	3062	76857	1.18%	0.292%
269	16.955	16.915	16.969	VV	529	9609	0.15%	0.036%
270	17.025	16.969	17.054	VV	7262	119356	1.83%	0.453%
271	17.083	17.054	17.129	VV	15226	200280	3.08%	0.760%
272	17.154	17.129	17.166	VV	1602	25053	0.39%	0.095%
273	17.186	17.166	17.208	VV	4519	64270	0.99%	0.244%
274	17.236	17.208	17.258	VV	17103	253082	3.89%	0.960%
275	17.262	17.258	17.295	VV	5050	55009	0.85%	0.209%
276	17.324	17.295	17.358	VV	854	17611	0.27%	0.067%
277	17.392	17.358	17.414	PV	807	17812	0.27%	0.068%
278	17.451	17.414	17.474	VV	1425	38287	0.59%	0.145%
279	17.528	17.474	17.534	VV	1965	45553	0.70%	0.173%
280	17.558	17.534	17.600	VV	6145	156010	2.40%	0.592%
281	17.605	17.600	17.622	VV	2578	30889	0.47%	0.117%
282	17.638	17.622	17.664	VV	4308	65440	1.01%	0.248%
283	17.674	17.664	17.683	VV	978	10453	0.16%	0.040%
284	17.695	17.683	17.702	VV	1090	10638	0.16%	0.040%
285	17.708	17.702	17.712	VV	1180	6926	0.11%	0.026%
286	17.731	17.712	17.774	VV	1803	44193	0.68%	0.168%
287	17.809	17.774	17.837	VV	3927	63527	0.98%	0.241%
288	17.859	17.837	17.890	VV	1666	29209	0.45%	0.111%
289	17.912	17.890	17.924	PV	1077	14572	0.22%	0.055%
290	17.931	17.924	17.949	VV	981	11782	0.18%	0.045%
291	17.966	17.949	17.971	VV	1073	11461	0.18%	0.043%
292	17.974	17.971	17.984	VV	938	6108	0.09%	0.023%
293	18.011	17.984	18.022	VV	1340	22620	0.35%	0.086%
294	18.050	18.022	18.057	VV	2078	34694	0.53%	0.132%
295	18.076	18.057	18.096	VV	4202	64385	0.99%	0.244%
296	18.112	18.096	18.131	VV	1916	29831	0.46%	0.113%
297	18.167	18.131	18.196	VV	9054	158751	2.44%	0.602%
298	18.205	18.196	18.237	VV	1561	32322	0.50%	0.123%
299	18.286	18.237	18.309	VV	6625	149970	2.30%	0.569%

rteres

300	18.330	18.309	18.350	VV	5524	99761	1.53%	0.379%
301	18.359	18.350	18.376	VV	2942	38193	0.59%	0.145%
302	18.398	18.376	18.416	VV	5380	90762	1.39%	0.344%
303	18.450	18.416	18.472	VV	28438	472788	7.27%	1.794%
304	18.493	18.472	18.525	VV	34729	504247	7.75%	1.913%
305	18.558	18.525	18.572	VV	4242	88597	1.36%	0.336%
306	18.594	18.572	18.662	VV	4080	118647	1.82%	0.450%
307	18.668	18.662	18.677	VV	719	5020	0.08%	0.019%
308	18.706	18.677	18.742	VV	20856	283925	4.36%	1.077%
309	18.746	18.742	18.770	VV	754	6491	0.10%	0.025%

Sum of corrected areas: 26352190

Aromatic EPH 110724.M Thu Nov 14 03:14:53 2024

CALIBRATION SUMMARY

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

Inital 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	

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

Inital 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	

Quantitation Report (QT Reviewed)

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

	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

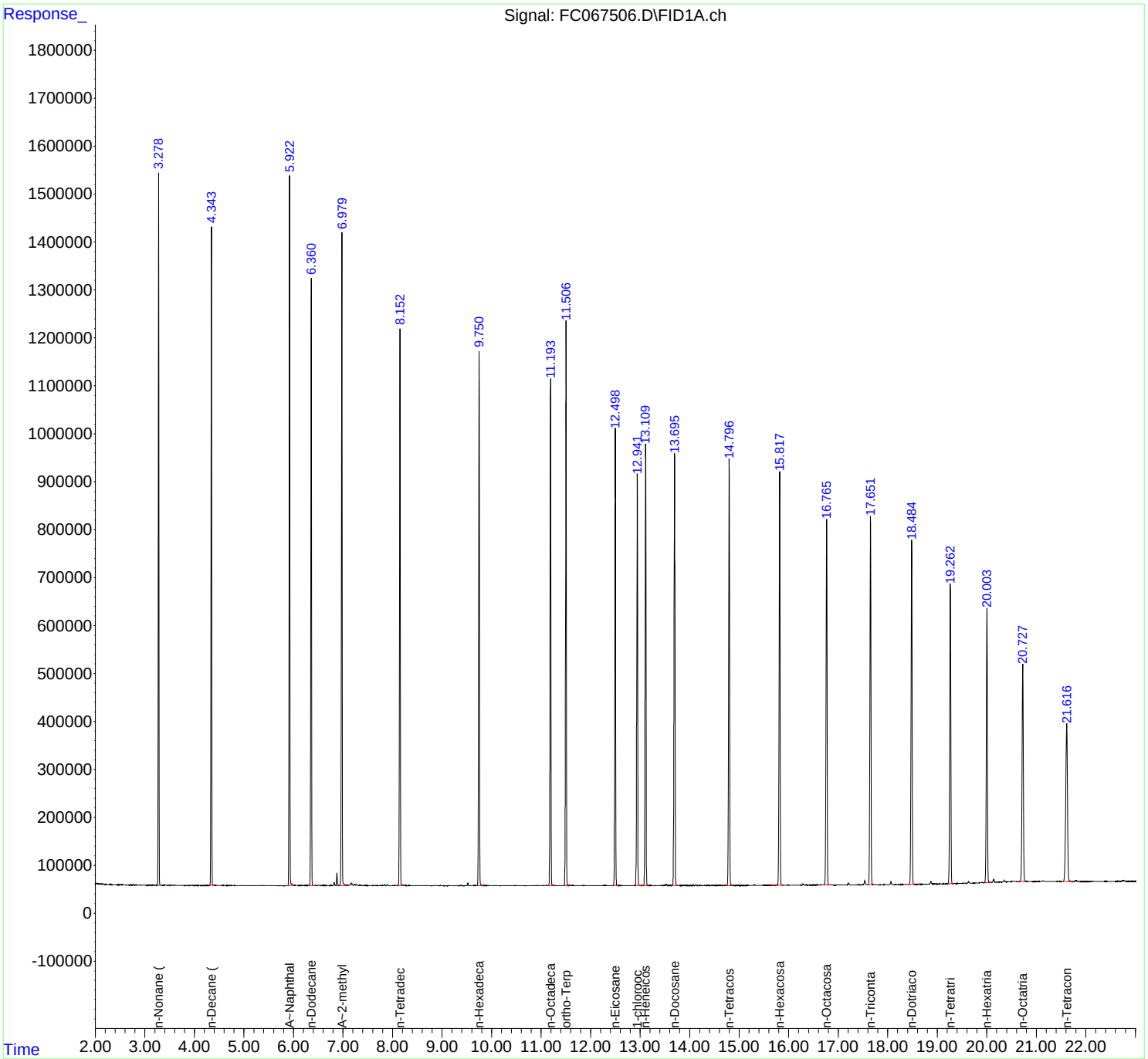
(f)=RT Delta > 1/2 Window (m)=manual int.

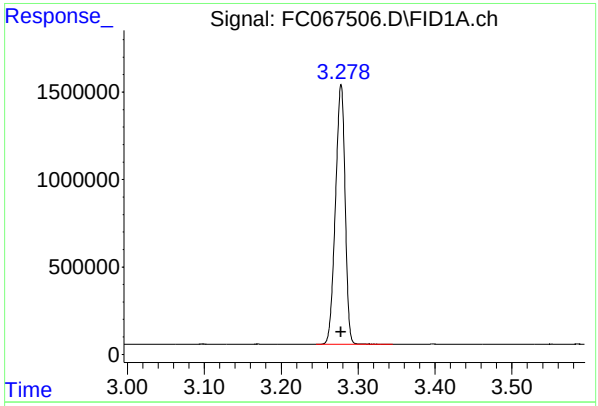
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067506.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

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

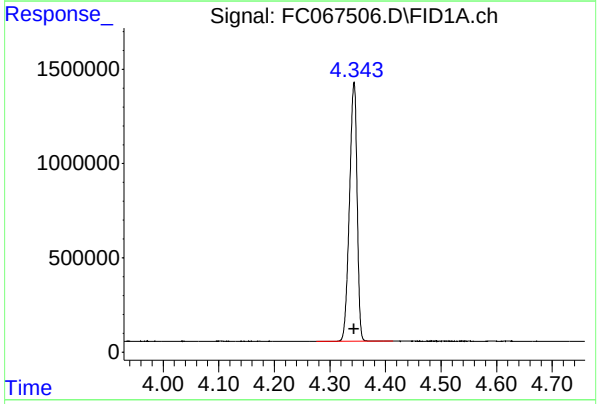




#1 n-Nonane (C9)

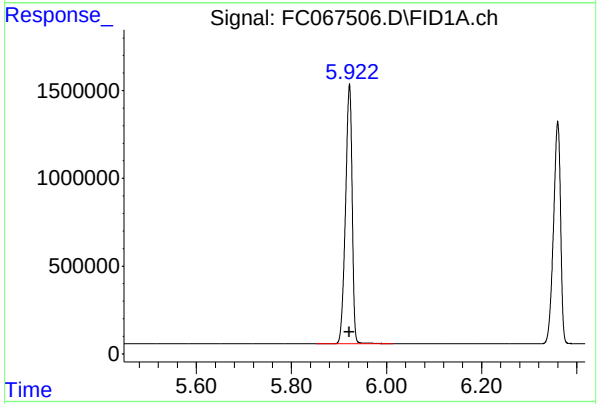
R.T.: 3.278 min
Delta R.T.: 0.000 min
Response: 12920314
Conc: 98.30 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



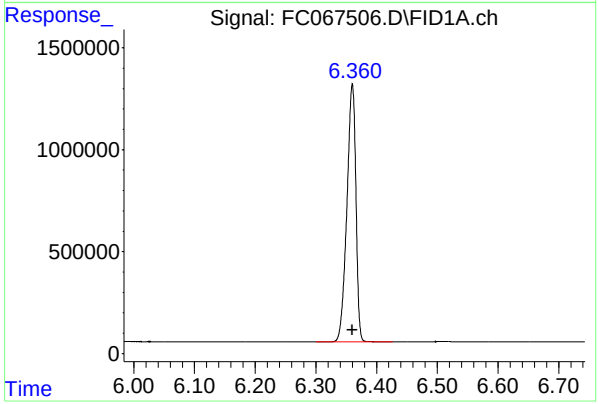
#2 n-Decane (C10)

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



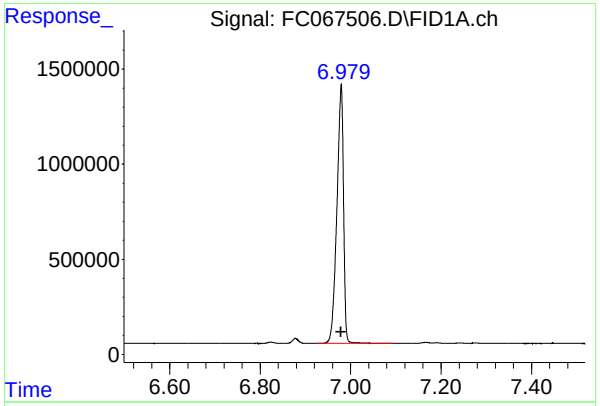
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

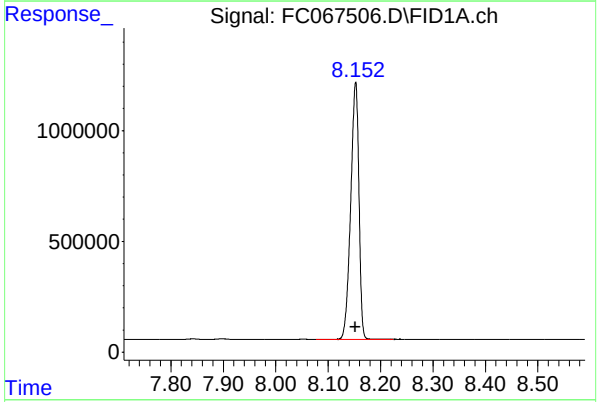
R.T.: 6.360 min
Delta R.T.: 0.000 min
Response: 13016771
Conc: 98.45 ug/ml



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

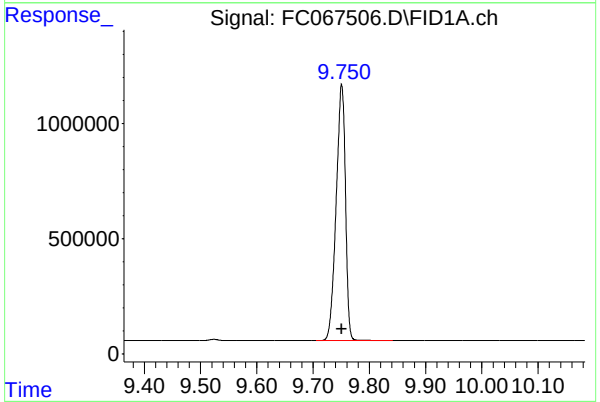
R.T.: 6.979 min
Delta R.T.: 0.000 min
Response: 13836866
Conc: 99.33 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



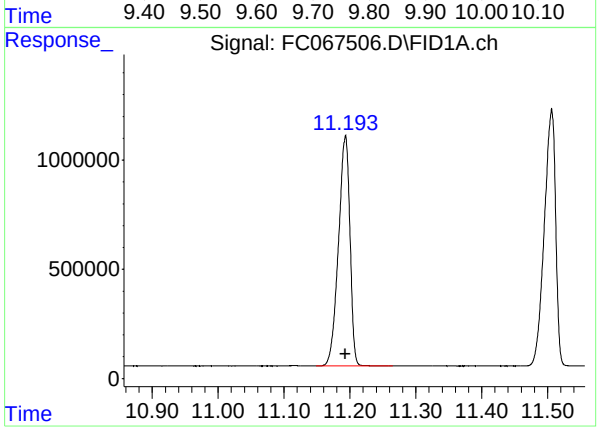
#6 n-Tetradecane (C14)

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



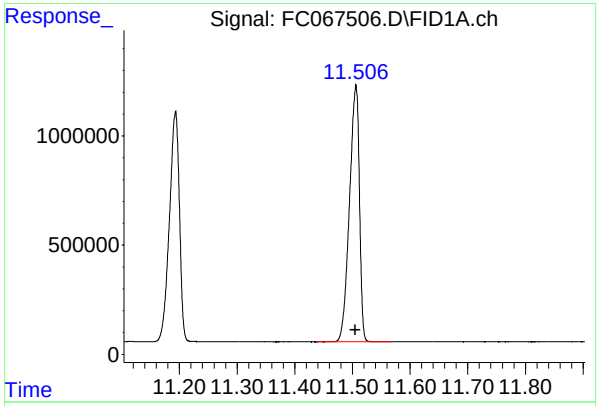
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

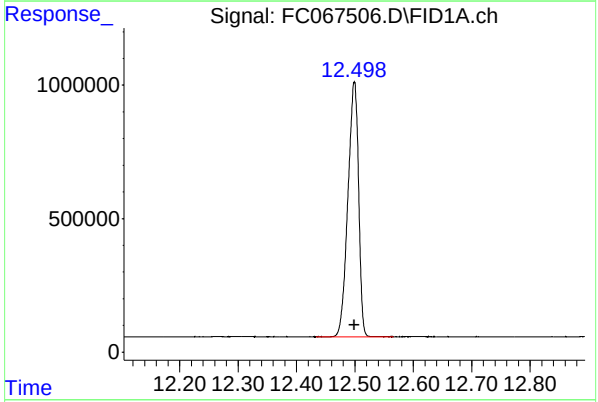
R.T.: 11.193 min
Delta R.T.: 0.000 min
Response: 12738874
Conc: 98.79 ug/ml



#9 ortho-Terphenyl (SURR)

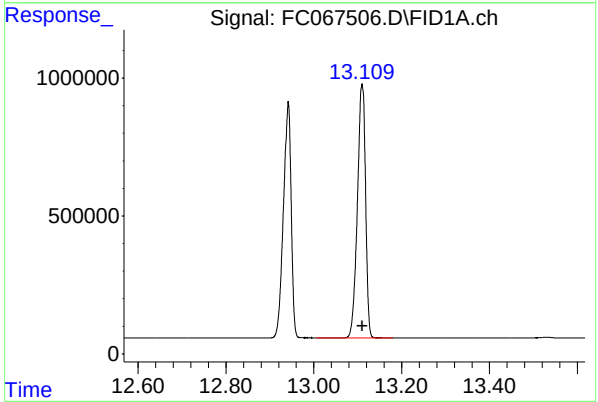
R.T.: 11.506 min
Delta R.T.: 0.000 min
Response: 14037783
Conc: 98.63 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



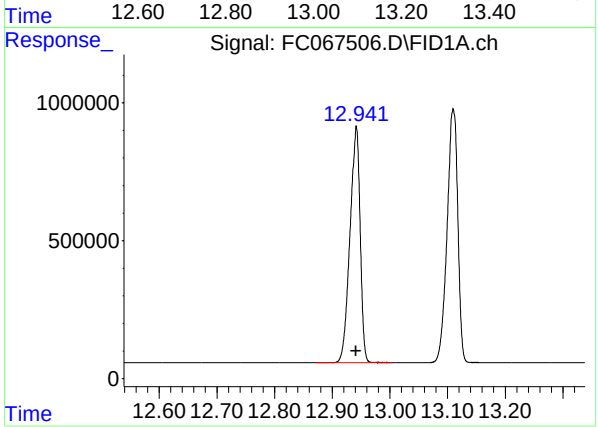
#10 n-Eicosane (C20)

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



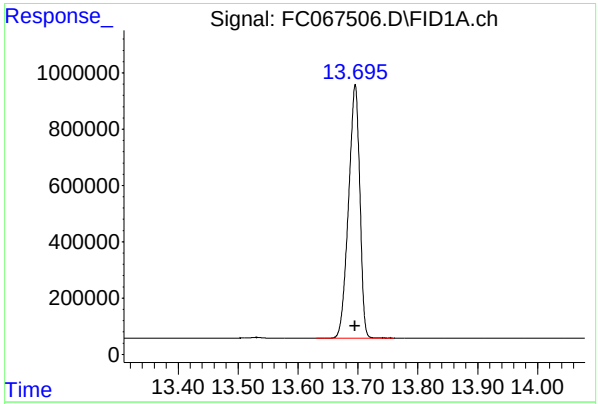
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

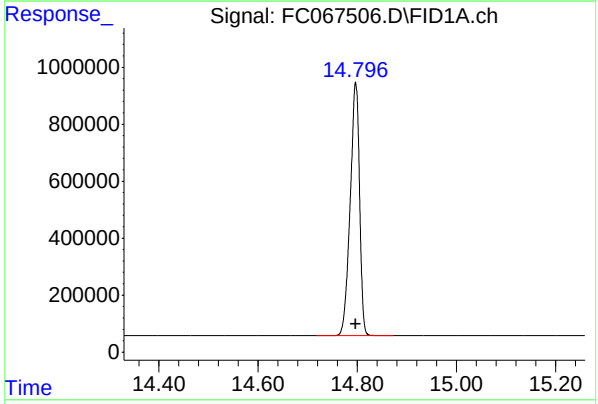
R.T.: 12.941 min
Delta R.T.: 0.000 min
Response: 10490435
Conc: 99.22 ug/ml



#13 n-Docosane (C22)

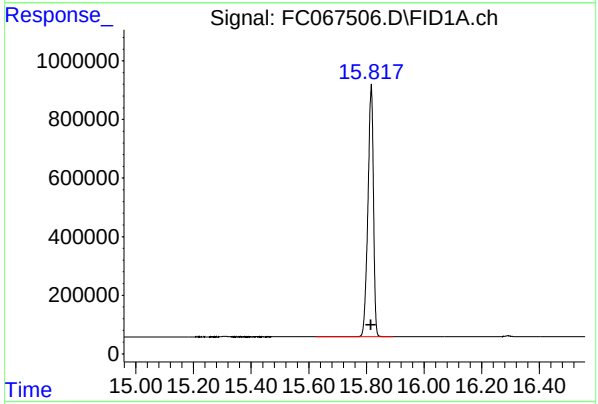
R.T.: 13.695 min
Delta R.T.: 0.000 min
Response: 11751176
Conc: 98.74 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



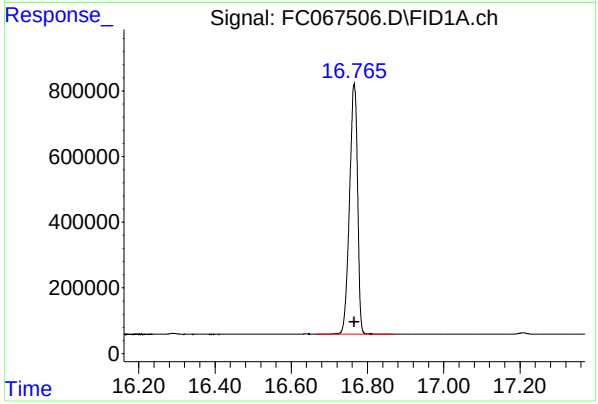
#14 n-Tetracosane (C24)

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



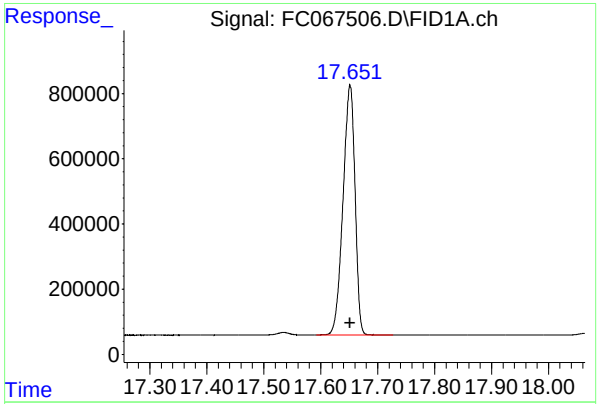
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

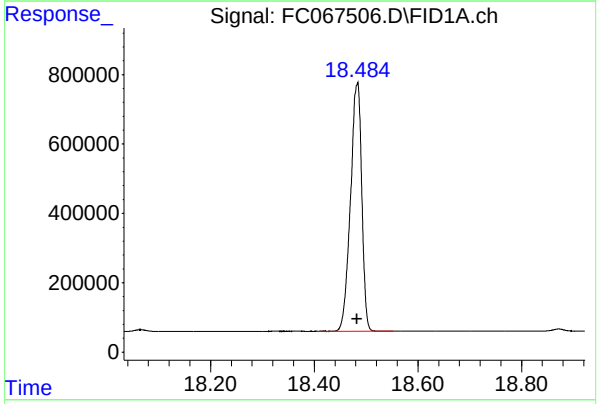
R.T.: 16.765 min
Delta R.T.: 0.000 min
Response: 11146972
Conc: 98.03 ug/ml



#17 n-Tricontane (C30)

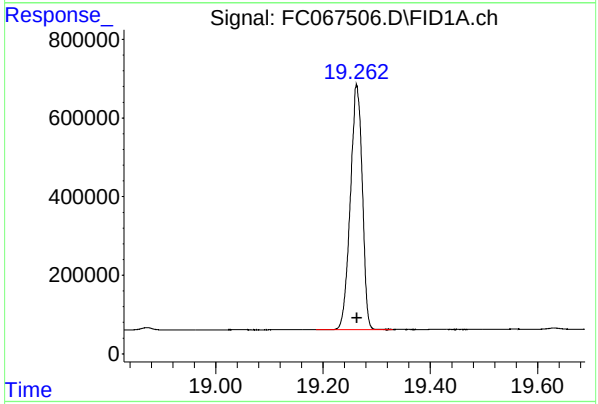
R.T.: 17.651 min
Delta R.T.: 0.000 min
Response: 11224678
Conc: 97.10 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



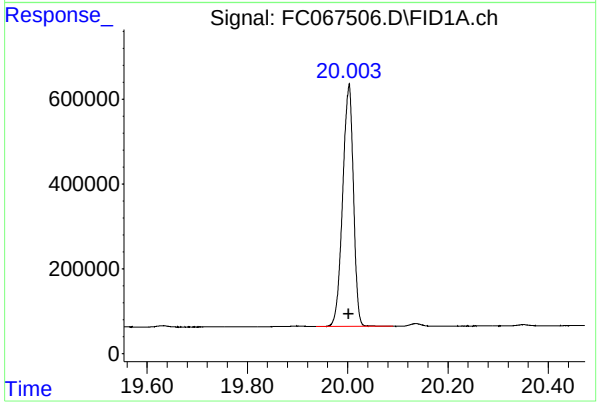
#18 n-Dotriacontane (C32)

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



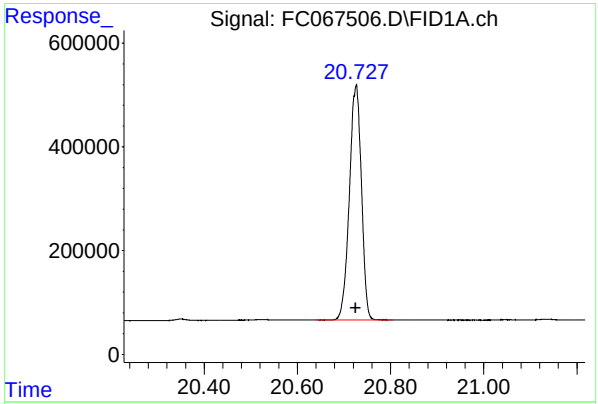
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

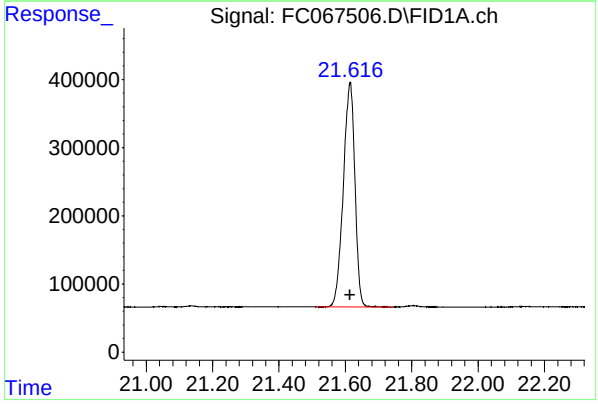
R.T.: 20.002 min
Delta R.T.: 0.000 min
Response: 8494635
Conc: 97.26 ug/ml



#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

Quantitation Report (QT Reviewed)

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.

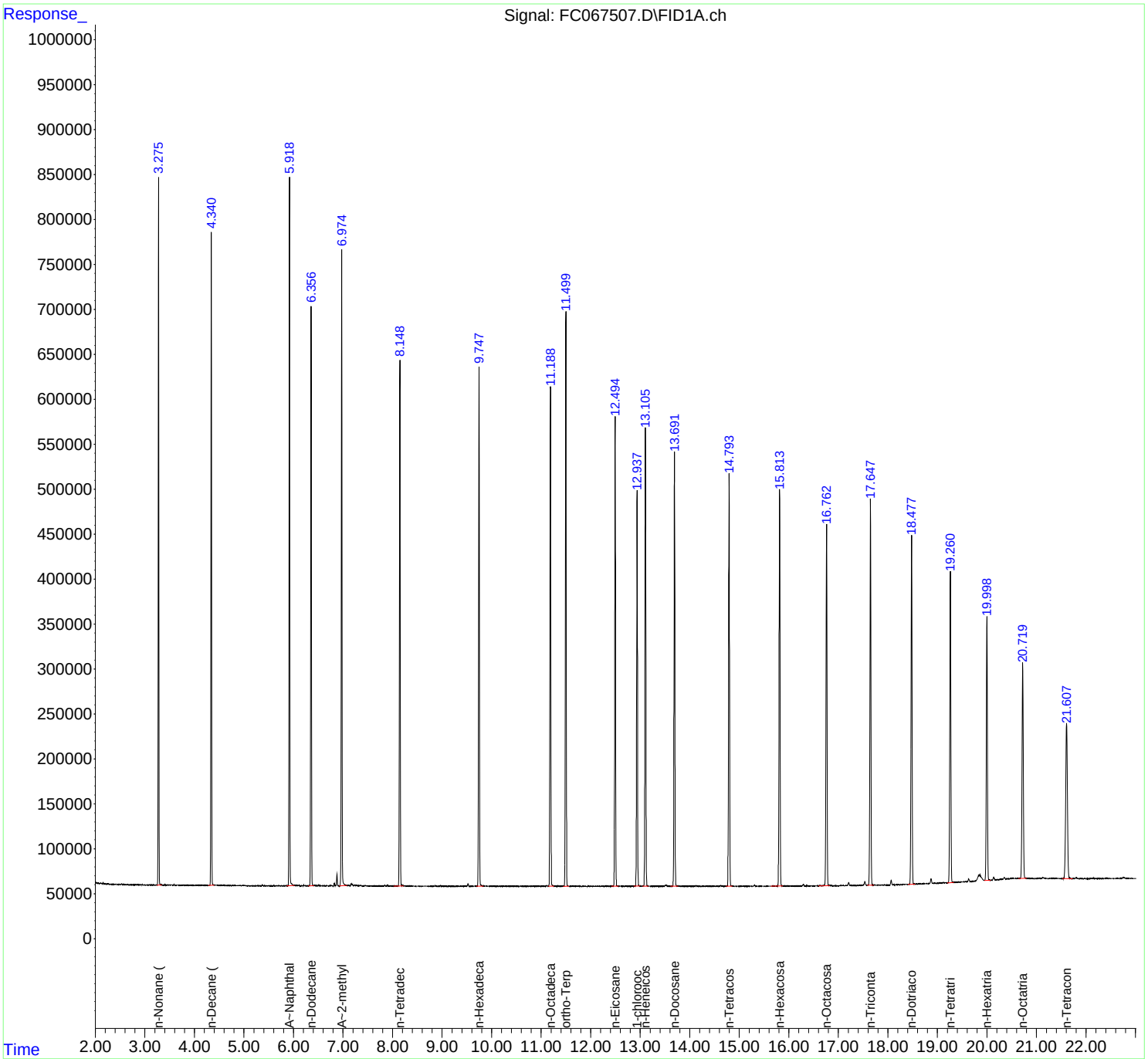
Quantitation Report (QT Reviewed)

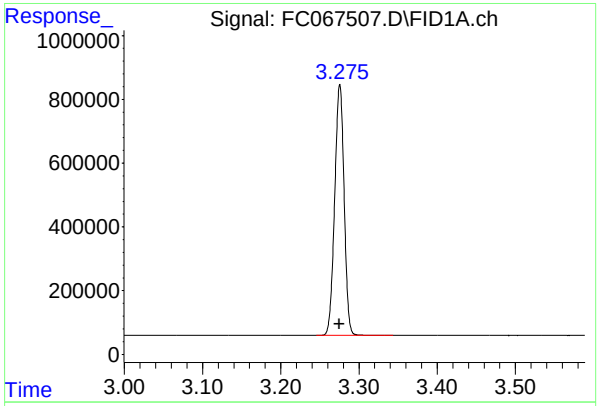
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067507.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

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

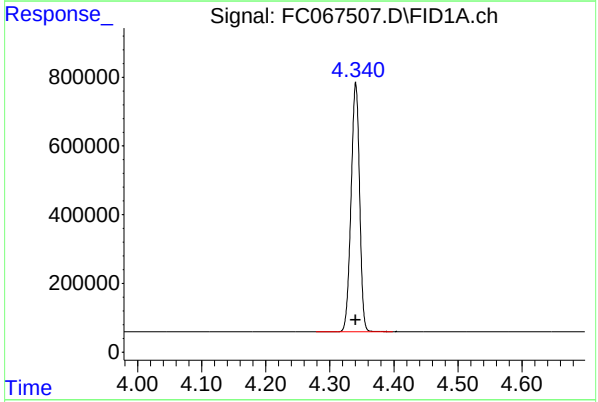




#1 n-Nonane (C9)

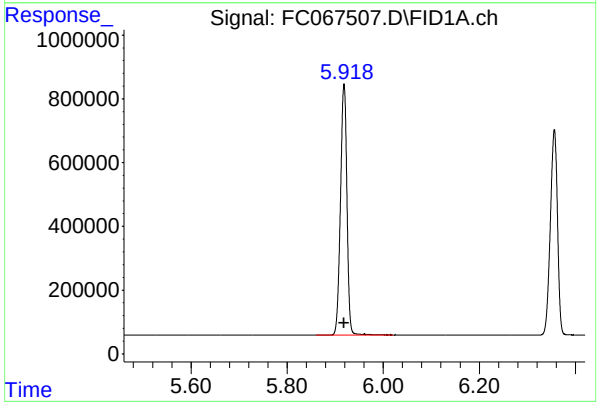
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 6596270
Conc: 50.12 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



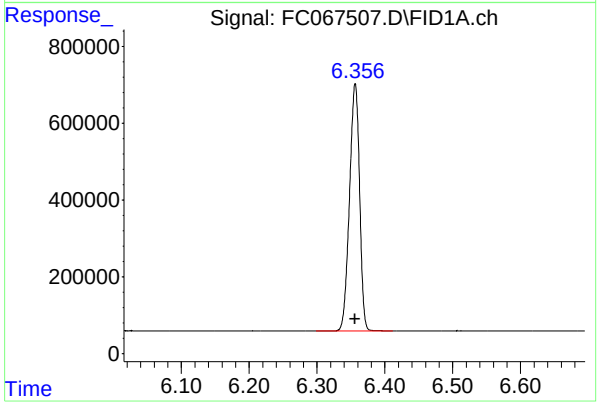
#2 n-Decane (C10)

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



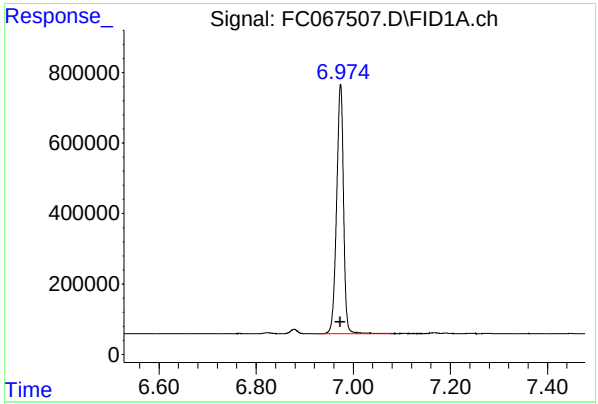
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

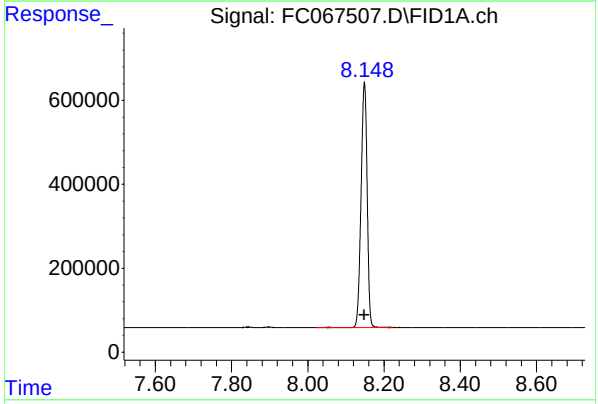
R.T.: 6.356 min
Delta R.T.: 0.000 min
Response: 6650893
Conc: 50.20 ug/ml



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

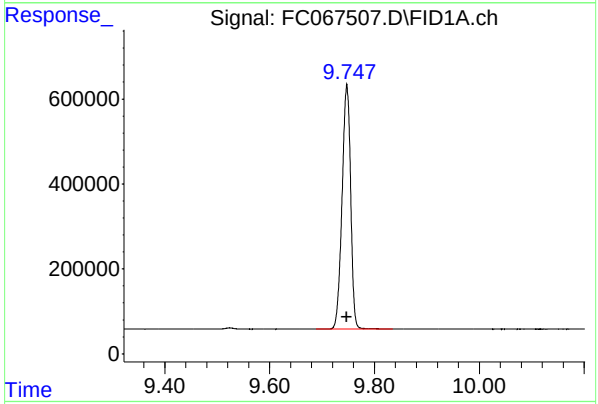
R.T.: 6.974 min
Delta R.T.: 0.000 min
Response: 7049073
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



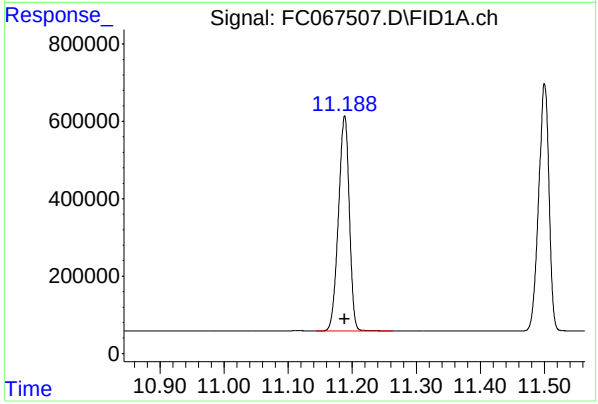
#6 n-Tetradecane (C14)

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



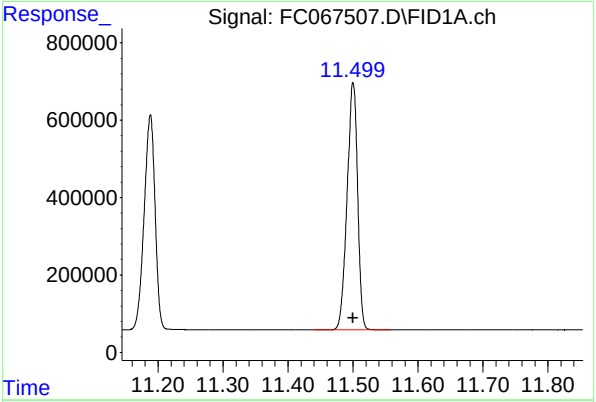
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

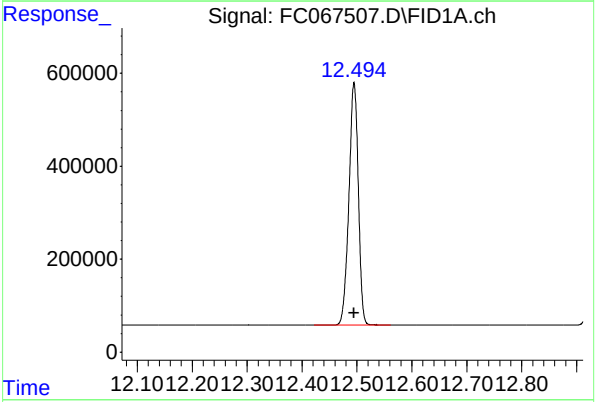
R.T.: 11.188 min
Delta R.T.: 0.000 min
Response: 6511575
Conc: 50.33 ug/ml



#9 ortho-Terphenyl (SURR)

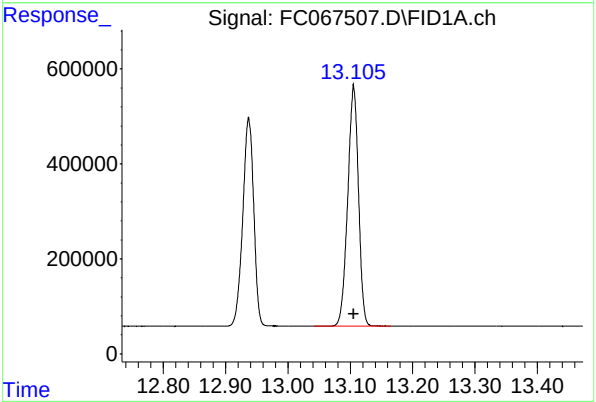
R.T.: 11.500 min
Delta R.T.: 0.000 min
Response: 7186867
Conc: 50.33 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



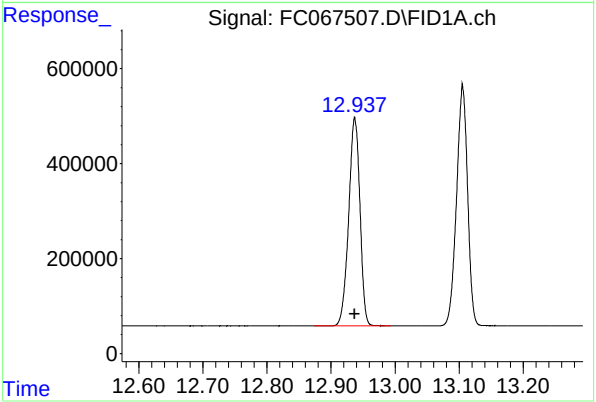
#10 n-Eicosane (C20)

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



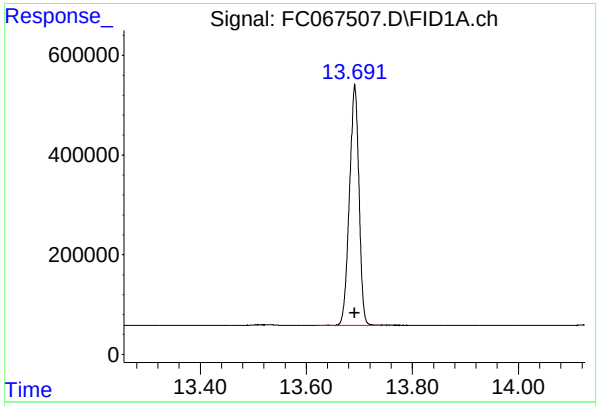
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

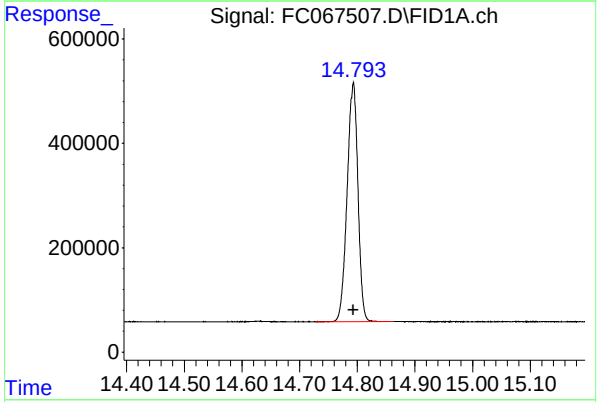
R.T.: 12.937 min
Delta R.T.: 0.000 min
Response: 5350584
Conc: 50.40 ug/ml



#13 n-Docosane (C22)

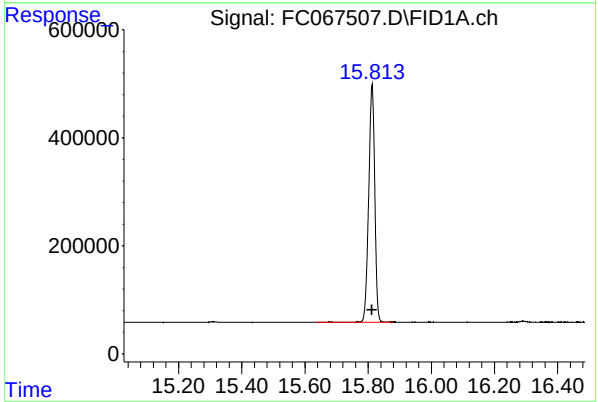
R.T.: 13.691 min
Delta R.T.: 0.000 min
Response: 6022373
Conc: 50.40 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



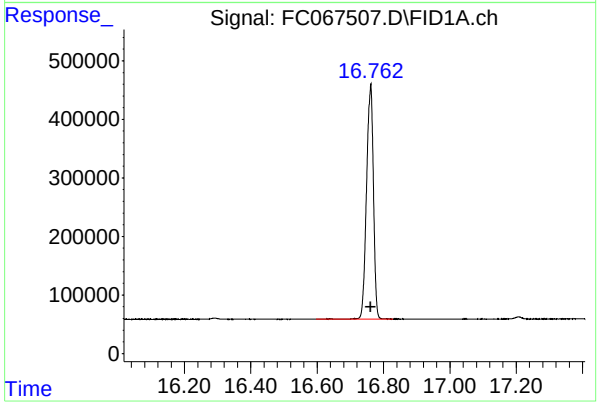
#14 n-Tetracosane (C24)

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



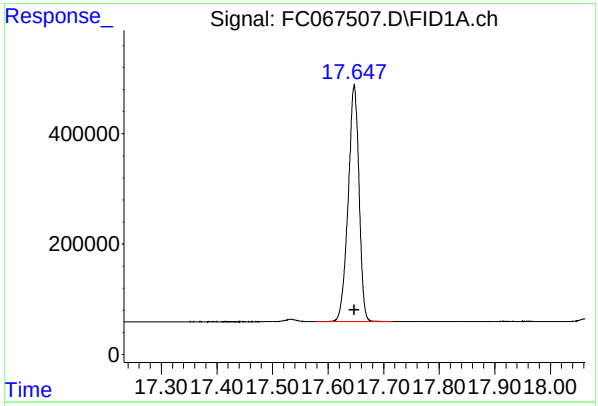
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

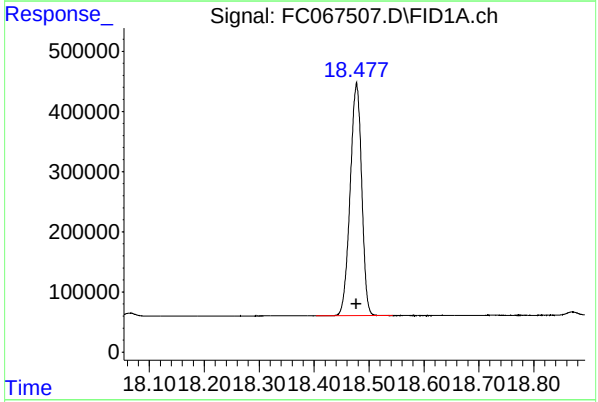
R.T.: 16.761 min
Delta R.T.: 0.000 min
Response: 5758647
Conc: 50.43 ug/ml



#17 n-Tricontane (C30)

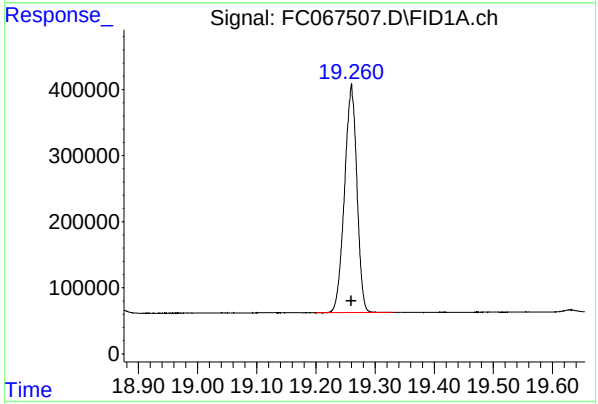
R.T.: 17.647 min
Delta R.T.: 0.000 min
Response: 5830292
Conc: 50.29 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



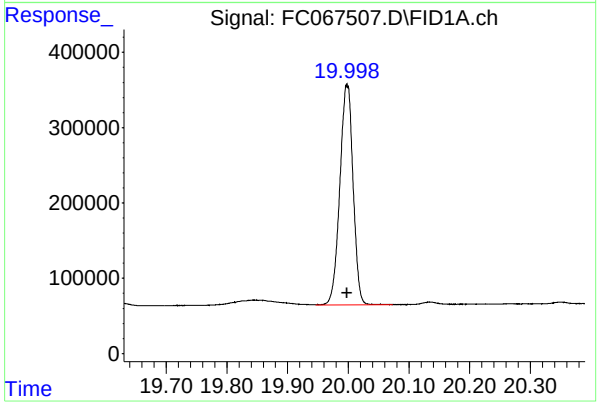
#18 n-Dotriacontane (C32)

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



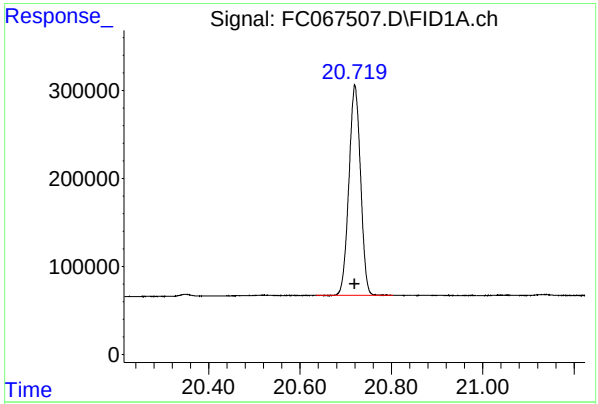
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

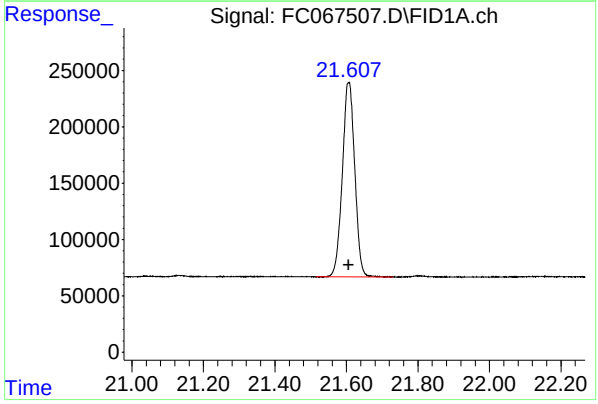
R.T.: 19.998 min
Delta R.T.: 0.000 min
Response: 4430530
Conc: 50.48 ug/ml



#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

Quantitation Report (QT Reviewed)

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

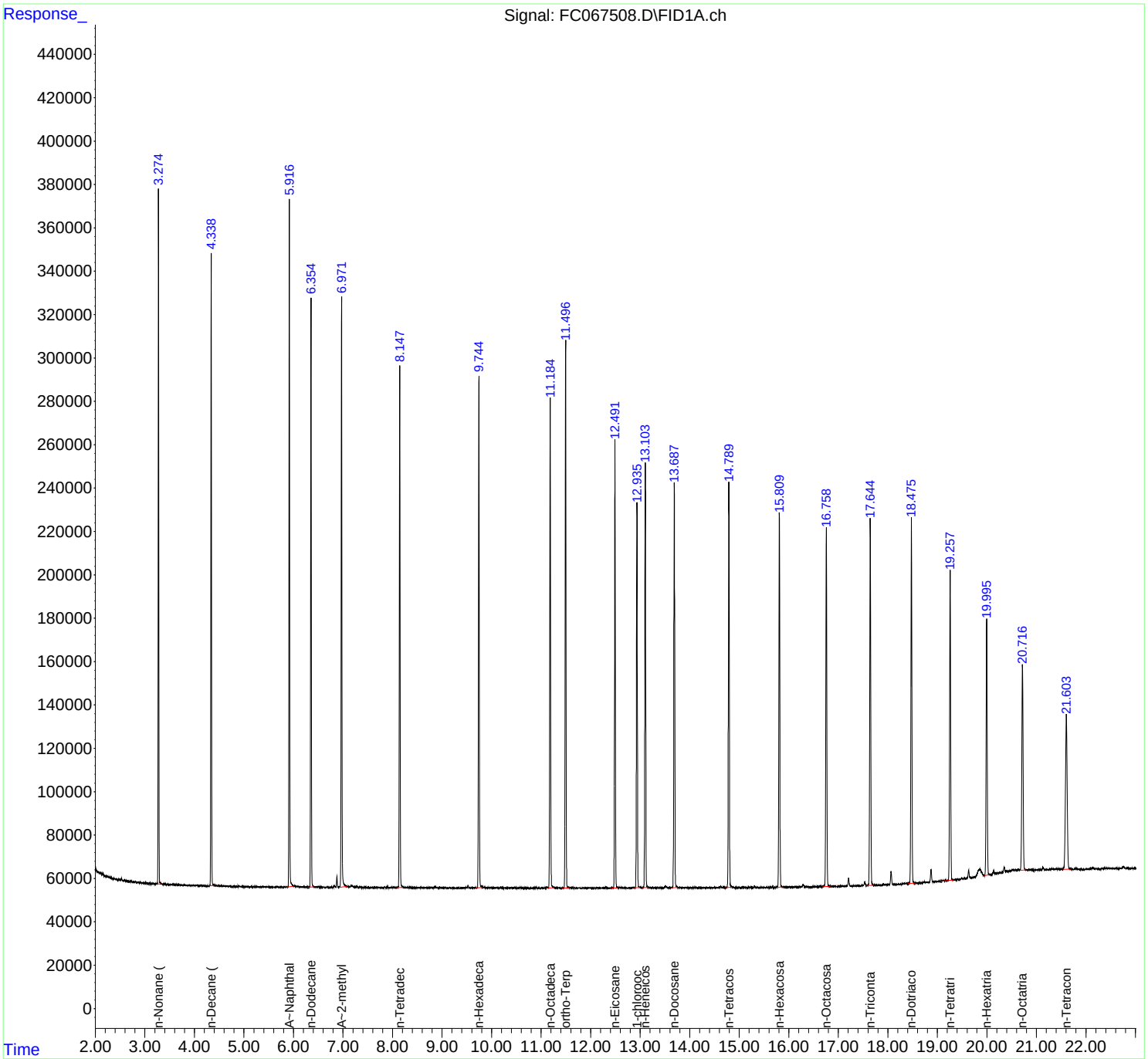
(f)=RT Delta > 1/2 Window (m)=manual int.

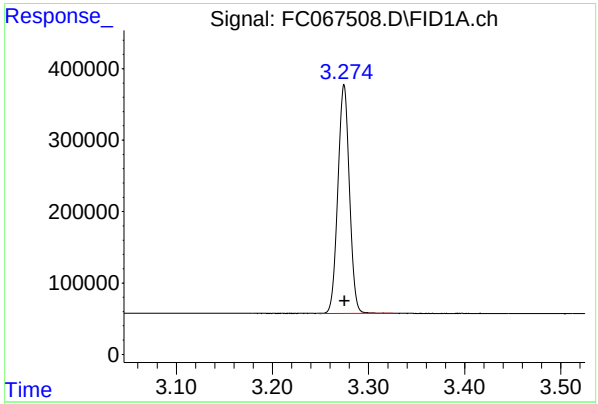
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067508.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

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

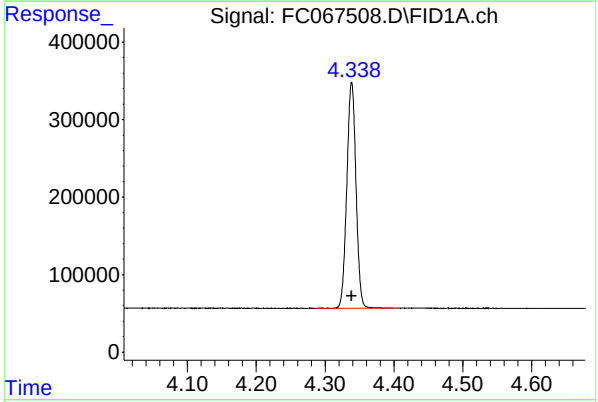




#1 n-Nonane (C9)

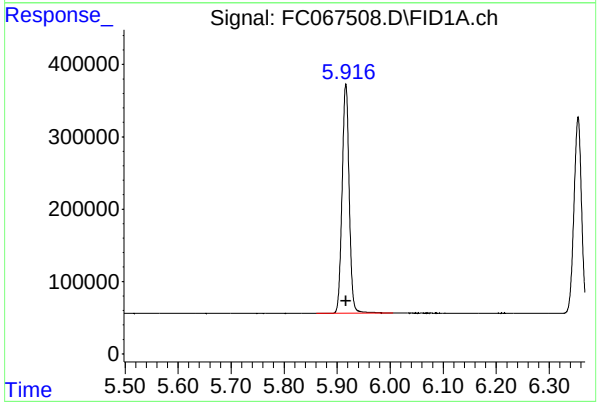
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 2673666
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



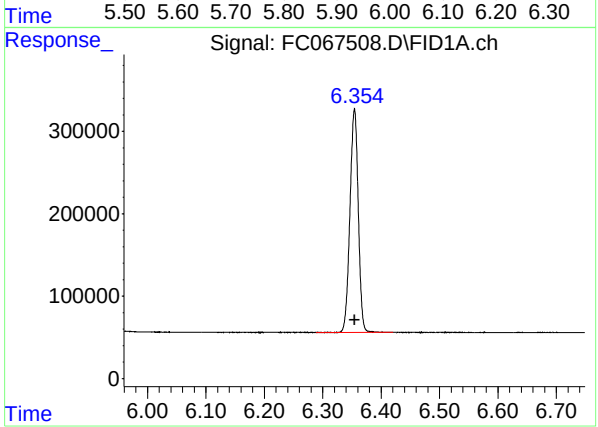
#2 n-Decane (C10)

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



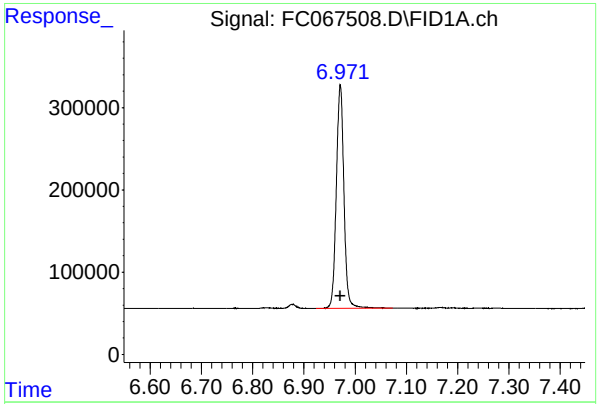
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

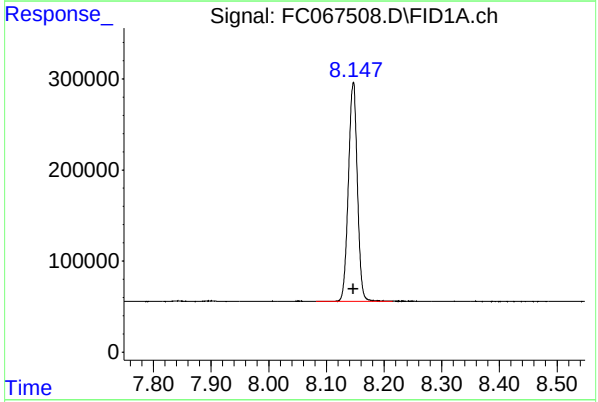
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2685213
Conc: 20.00 ug/ml



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

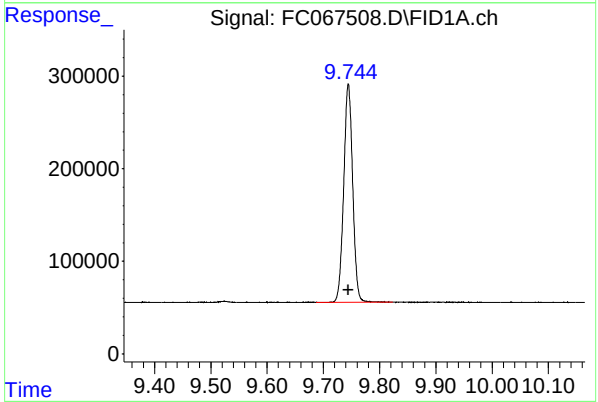
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2804469
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



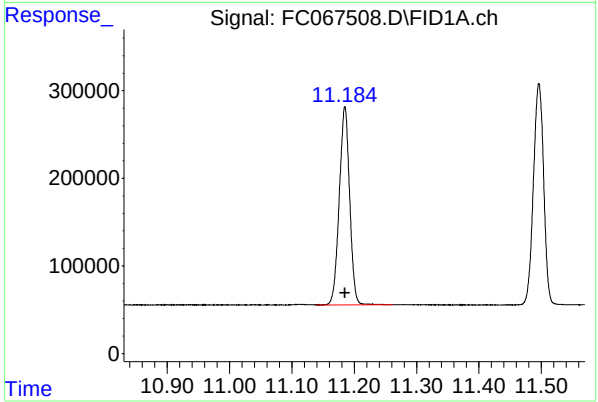
#6 n-Tetradecane (C14)

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



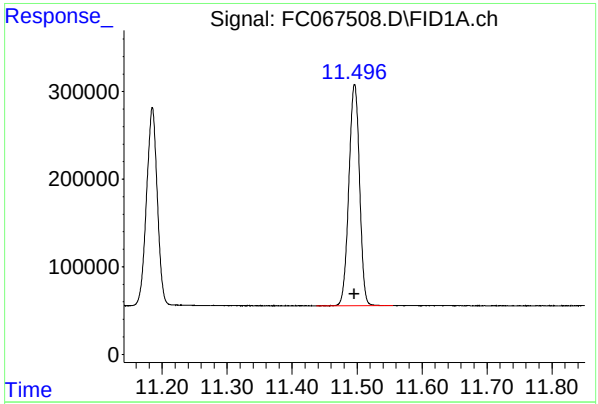
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

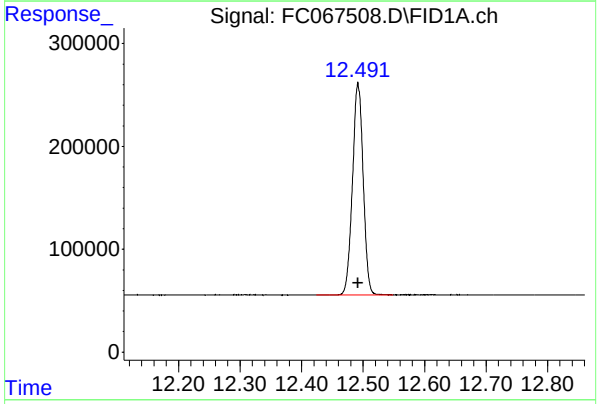
R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2610385
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

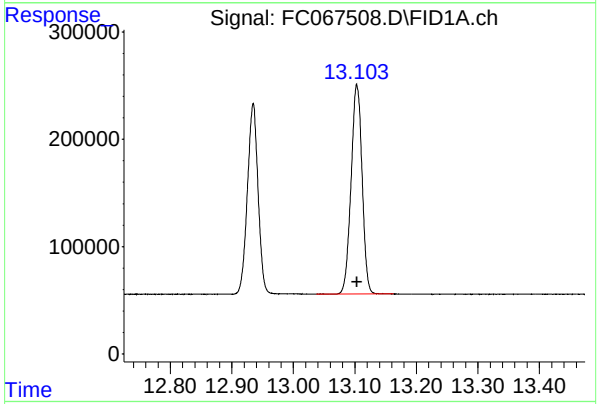
R.T.: 11.496 min
Delta R.T.: 0.000 min
Response: 2885453
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



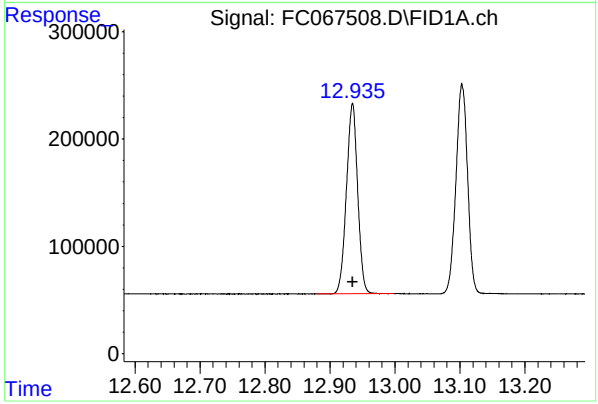
#10 n-Eicosane (C20)

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



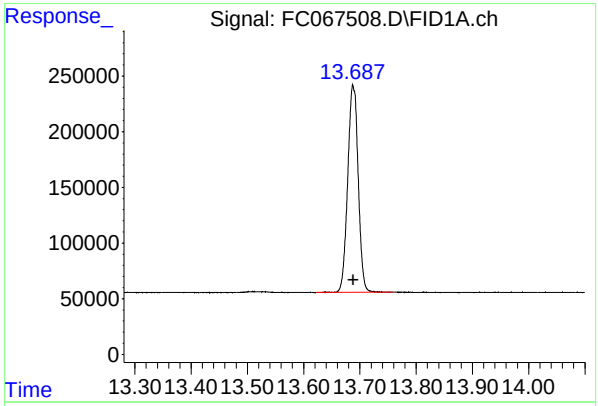
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

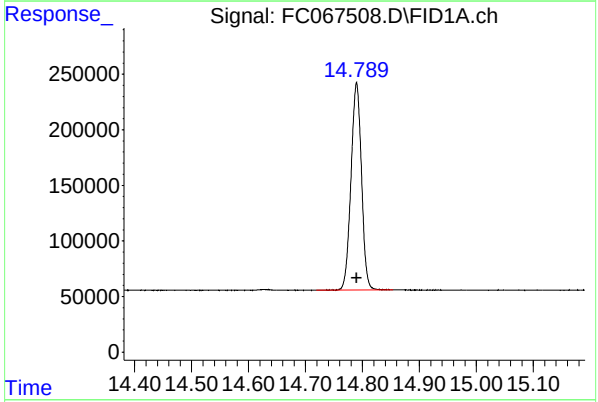
R.T.: 12.935 min
Delta R.T.: 0.000 min
Response: 2131037
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

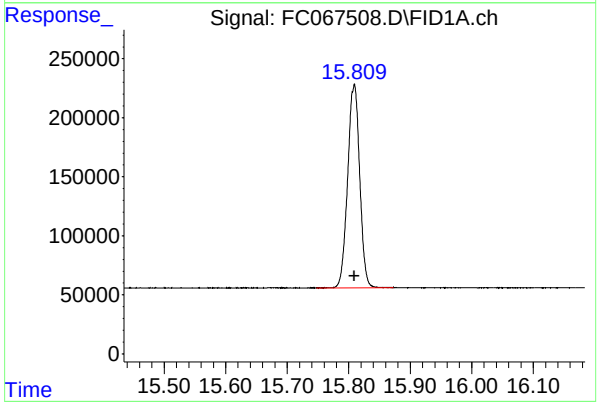
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2410406
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



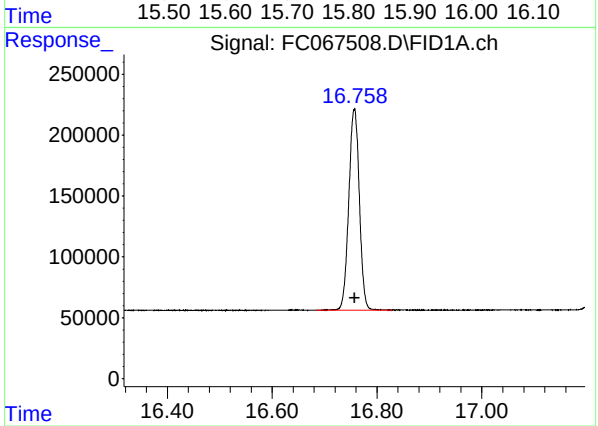
#14 n-Tetracosane (C24)

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



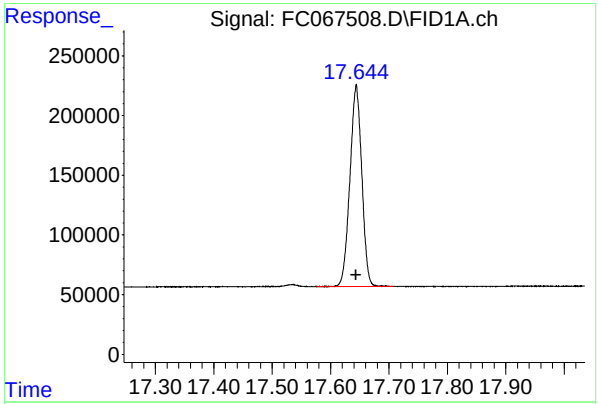
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

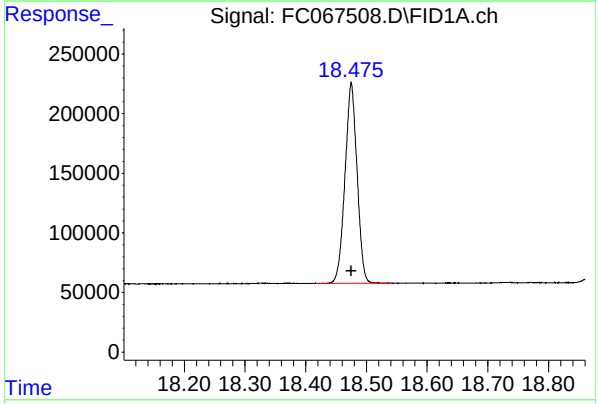
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2318777
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

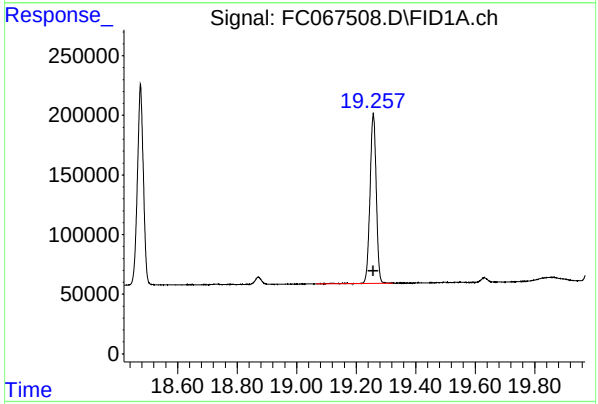
R.T.: 17.644 min
Delta R.T.: 0.000 min
Response: 2378909
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



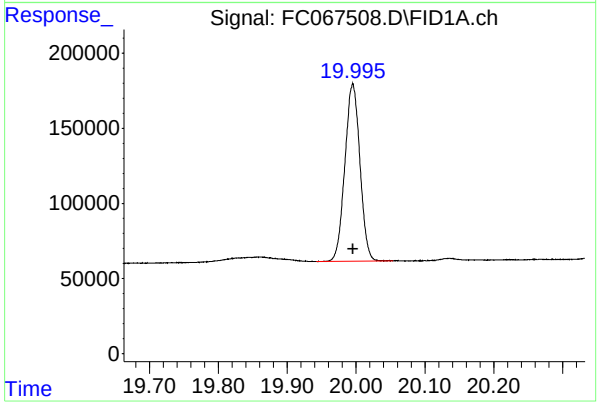
#18 n-Dotriacontane (C32)

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



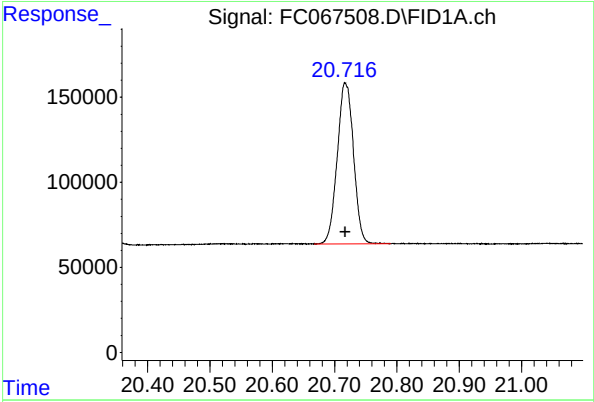
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

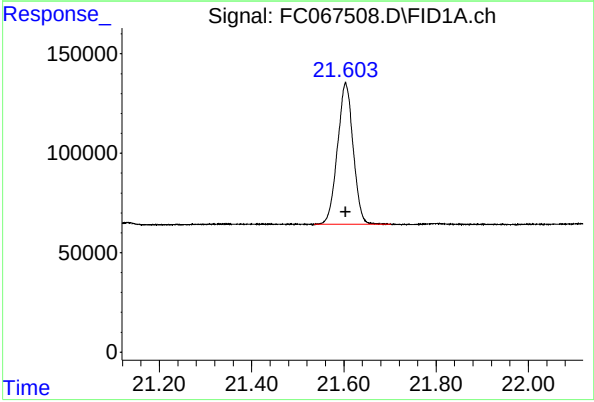
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 1794670
Conc: 20.00 ug/ml



#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

Quantitation Report (QT Reviewed)

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

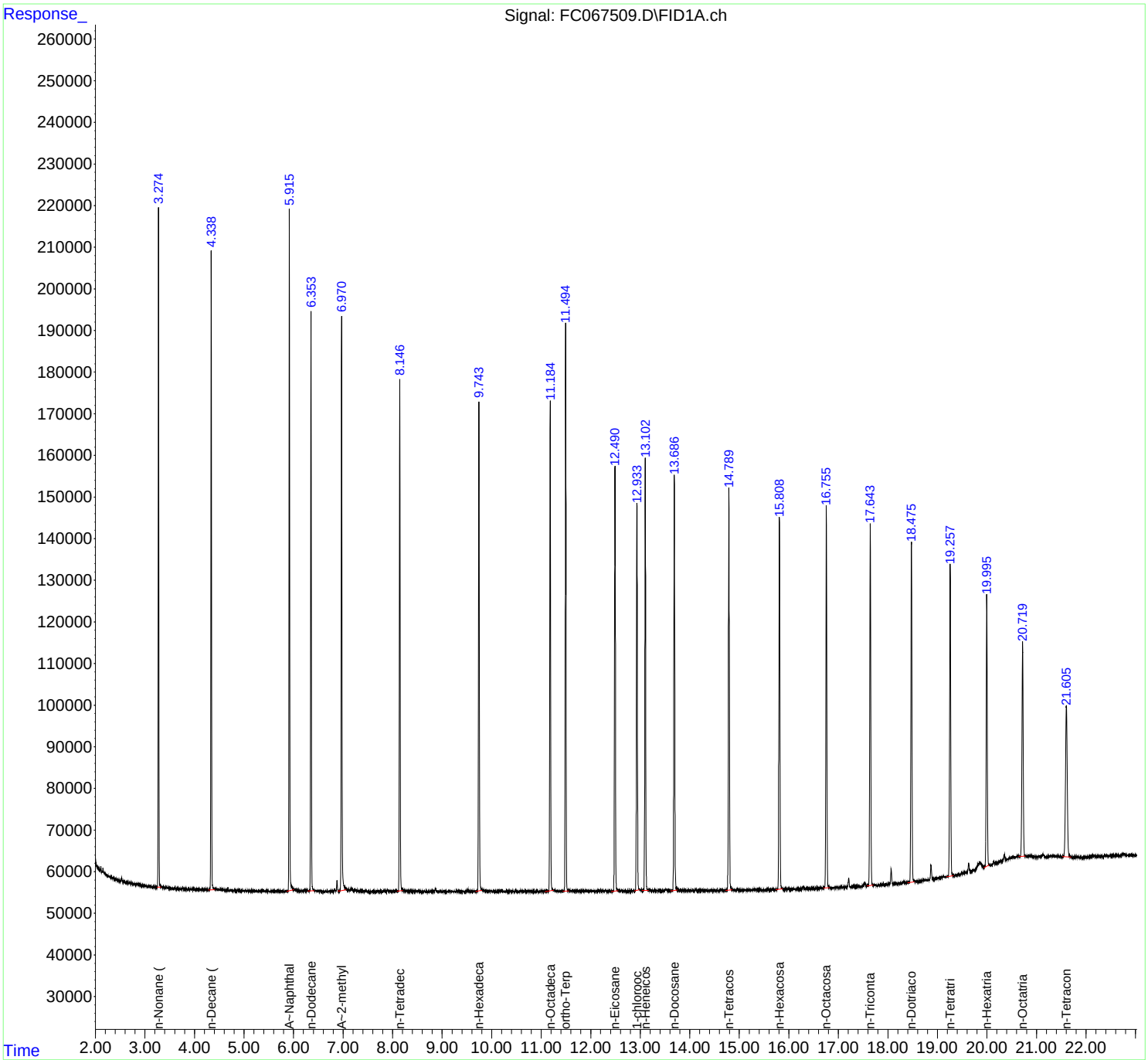
(f)=RT Delta > 1/2 Window (m)=manual int.

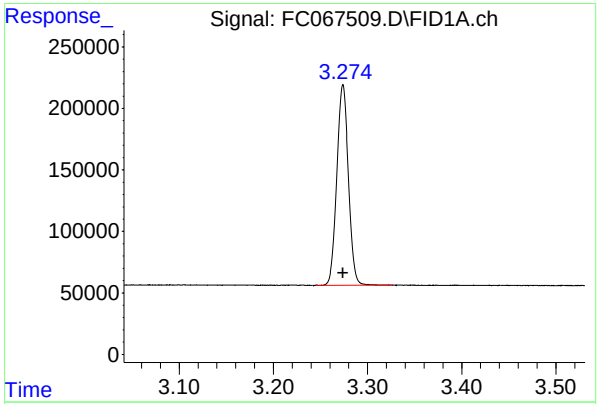
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067509.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

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

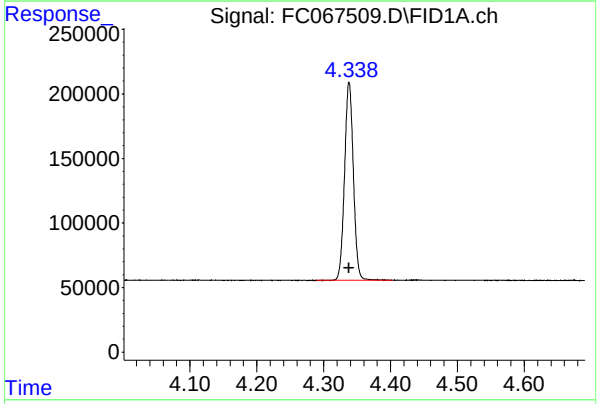




#1 n-Nonane (C9)

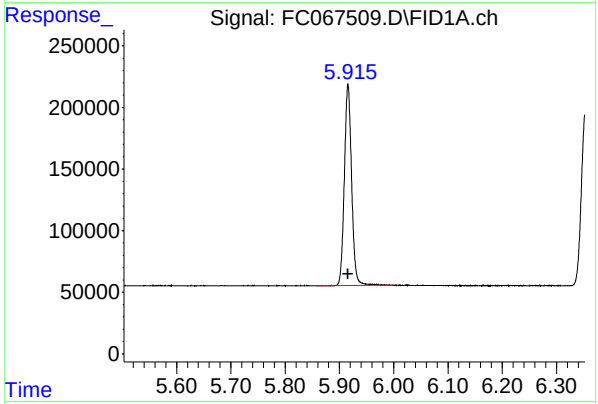
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 1392325
Conc: 10.43 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



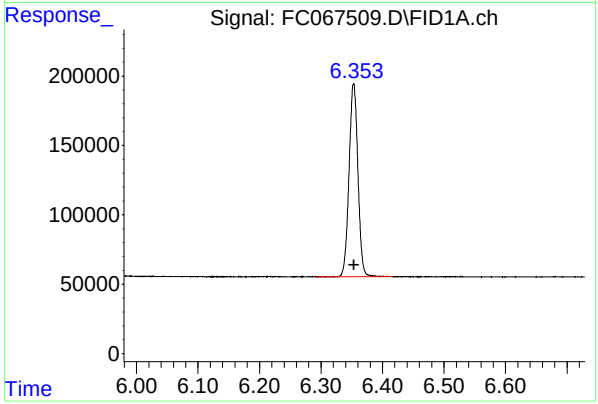
#2 n-Decane (C10)

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



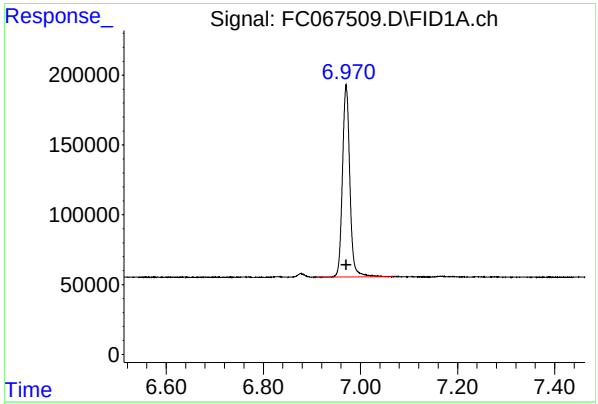
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

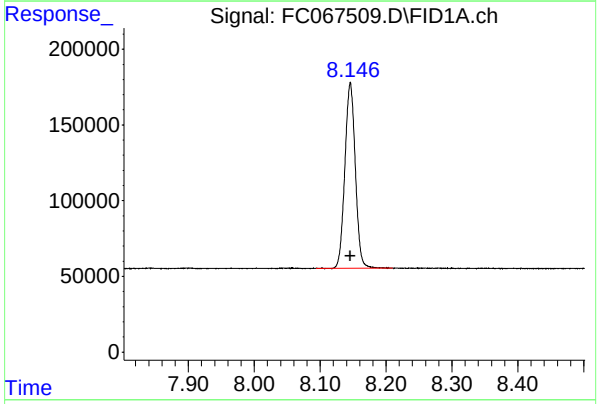
R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 1397121
Conc: 10.40 ug/ml



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

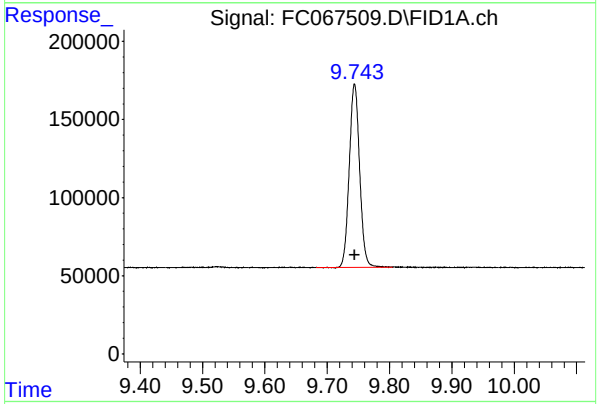
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 1445653
Conc: 10.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



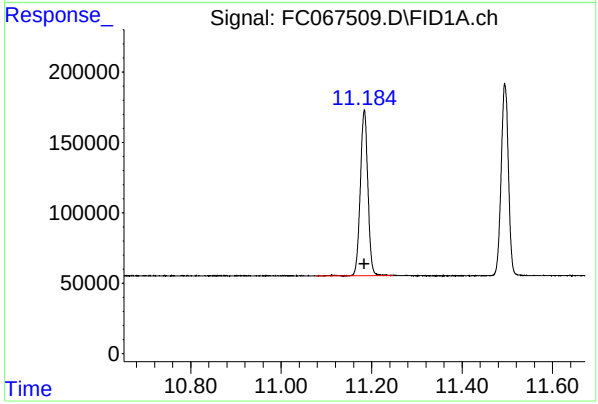
#6 n-Tetradecane (C14)

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



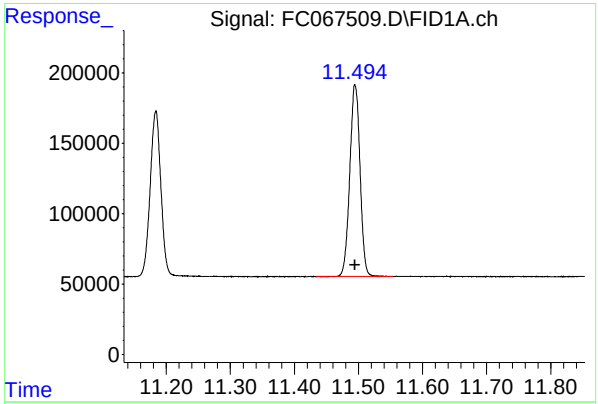
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

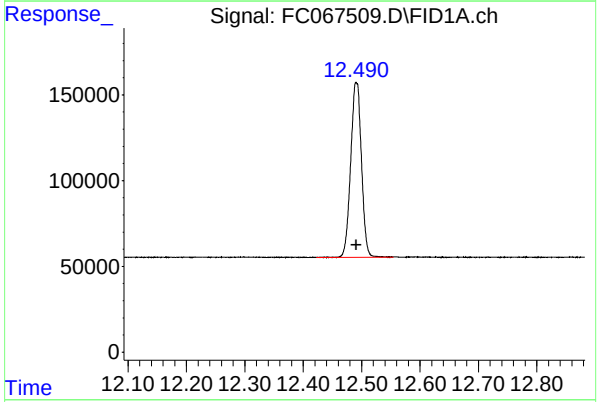
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 1362847
Conc: 10.39 ug/ml



#9 ortho-Terphenyl (SURR)

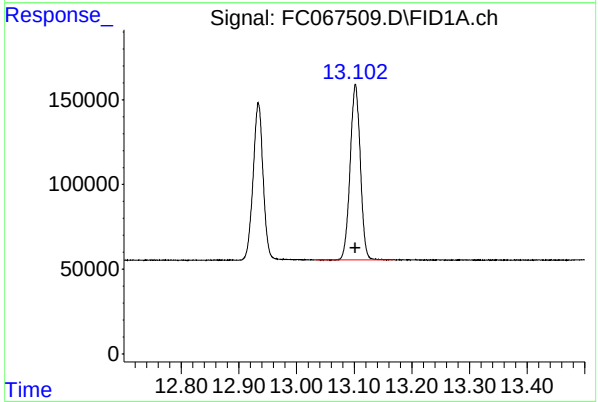
R.T.: 11.495 min
Delta R.T.: 0.000 min
Response: 1516253
Conc: 10.46 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



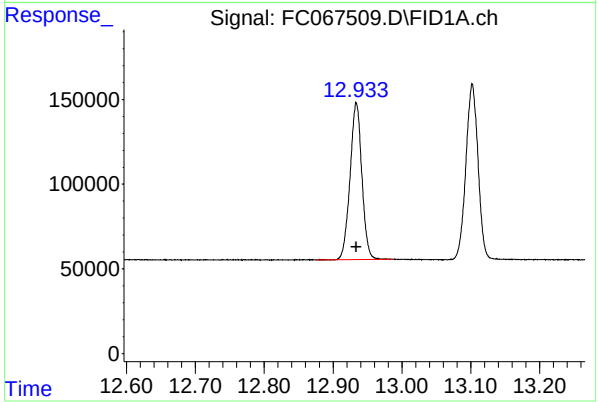
#10 n-Eicosane (C20)

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



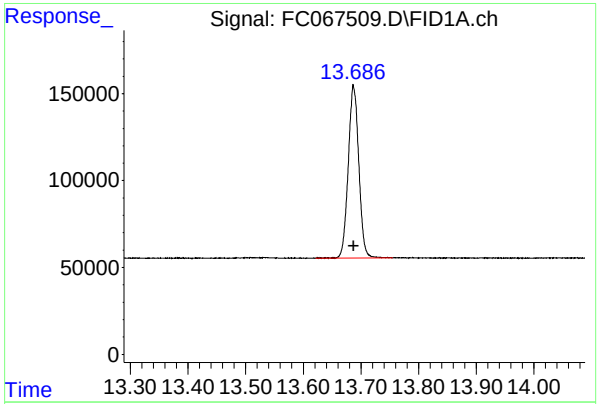
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

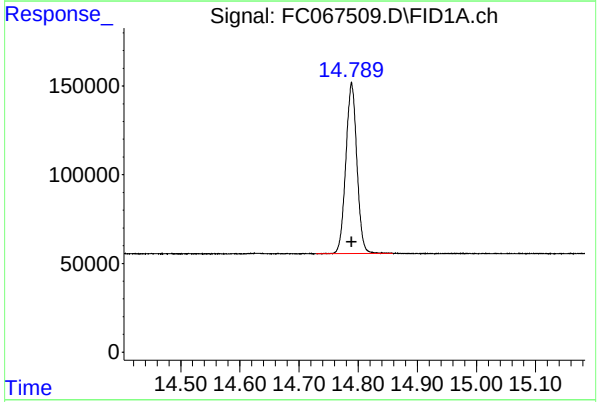
R.T.: 12.934 min
Delta R.T.: 0.000 min
Response: 1104370
Conc: 10.30 ug/ml



#13 n-Docosane (C22)

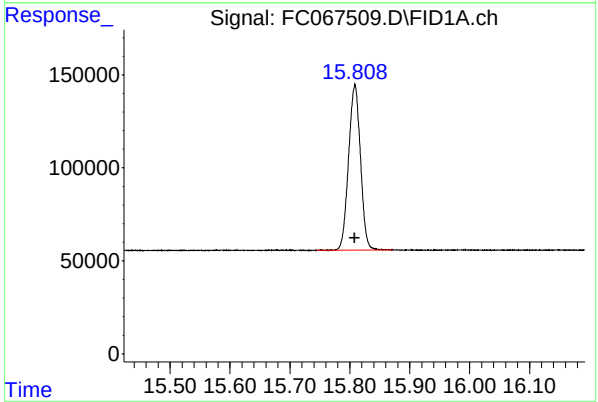
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 1260218
Conc: 10.40 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



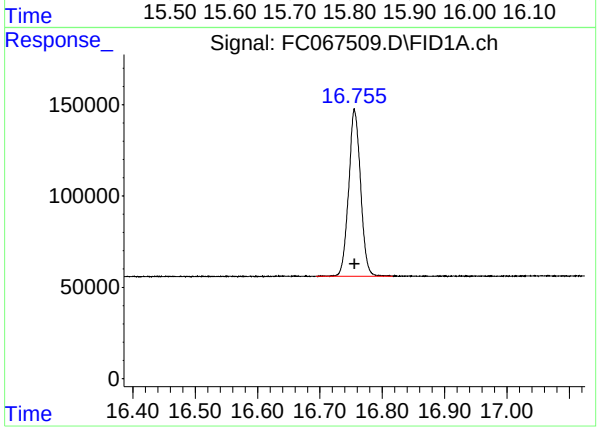
#14 n-Tetracosane (C24)

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



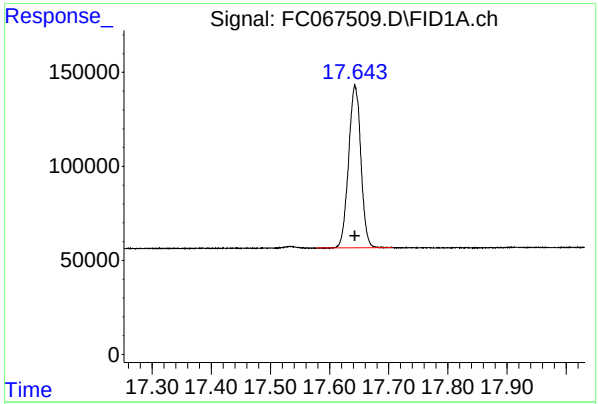
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

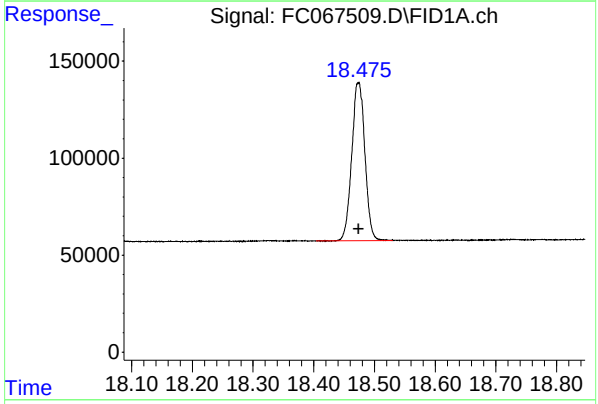
R.T.: 16.756 min
Delta R.T.: 0.000 min
Response: 1213286
Conc: 10.46 ug/ml



#17 n-Tricontane (C30)

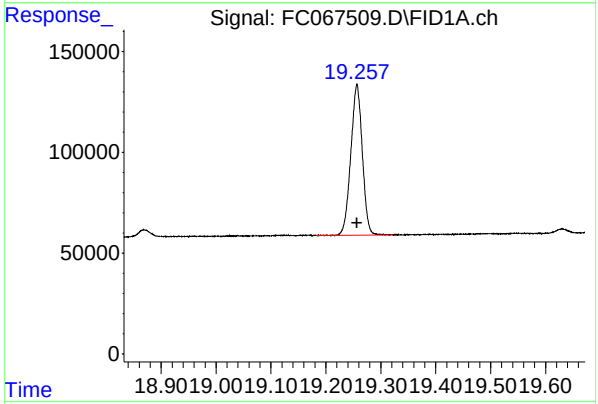
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 1249088
Conc: 10.57 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



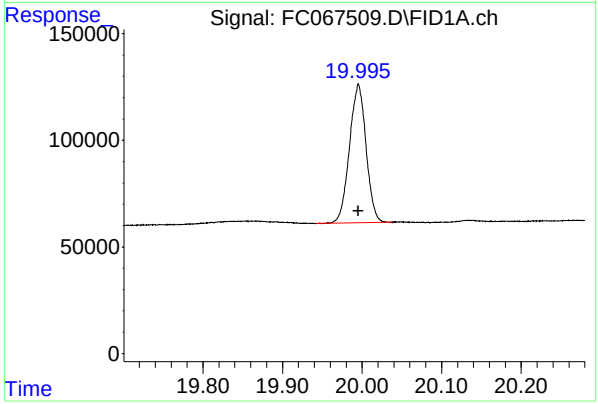
#18 n-Dotriacontane (C32)

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



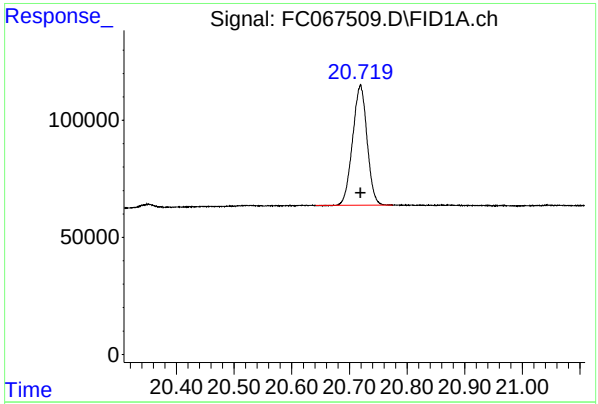
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

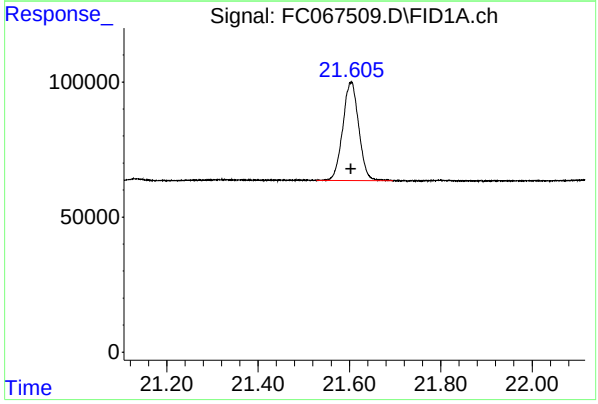
R.T.: 19.995 min
Delta R.T.: 0.000 min
Response: 941330
Conc: 10.53 ug/ml



#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

Quantitation Report (QT Reviewed)

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

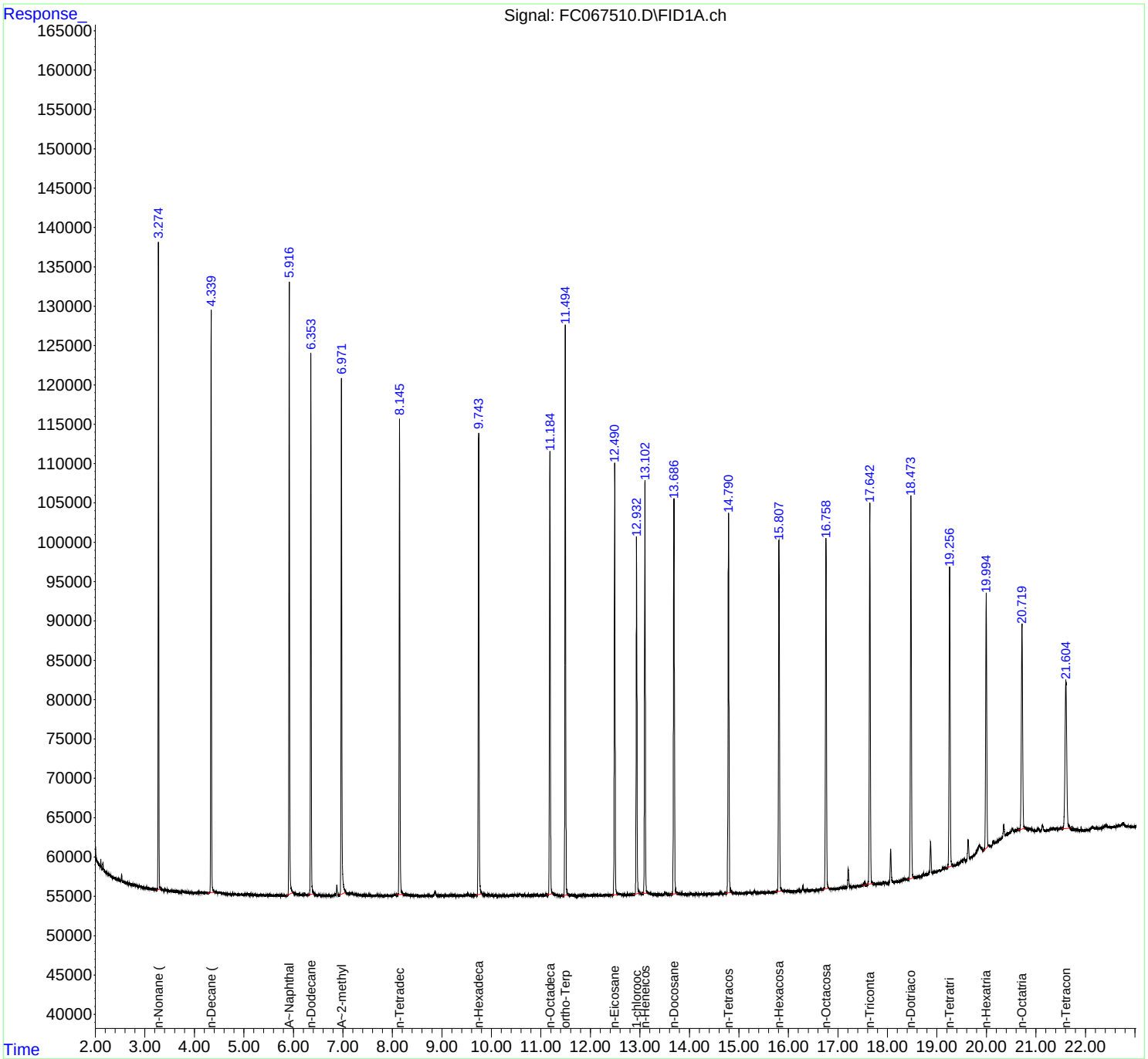
(f)=RT Delta > 1/2 Window (m)=manual int.

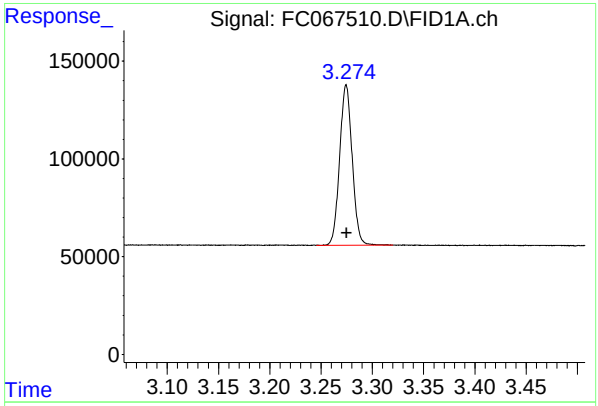
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067510.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

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

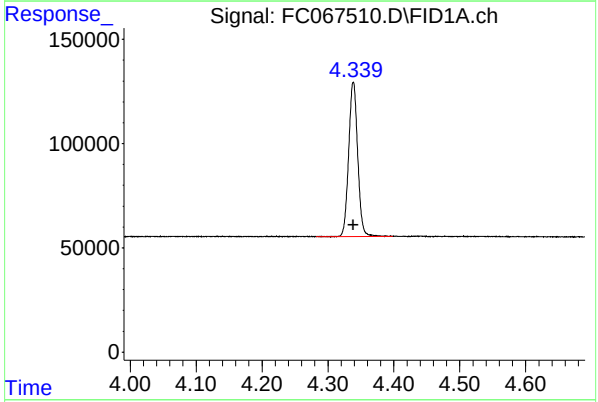




#1 n-Nonane (C9)

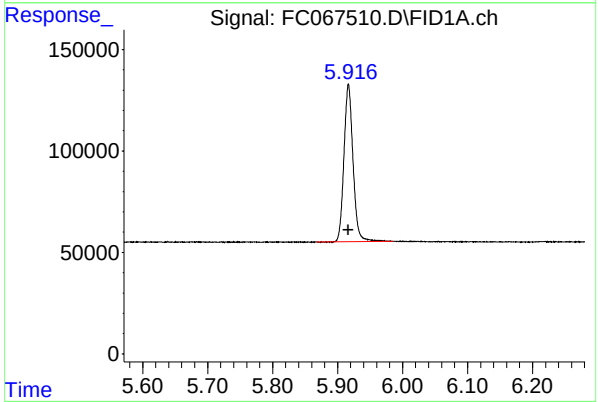
R.T.: 3.275 min
Delta R.T.: 0.000 min
Response: 697792
Conc: 5.18 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



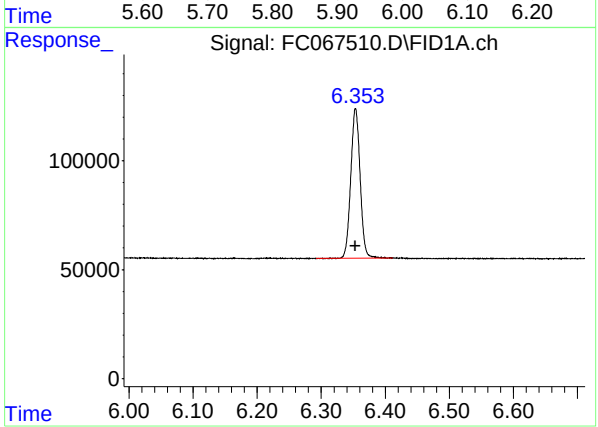
#2 n-Decane (C10)

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



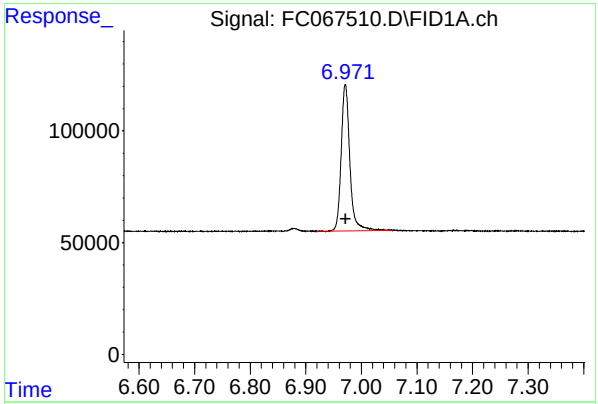
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

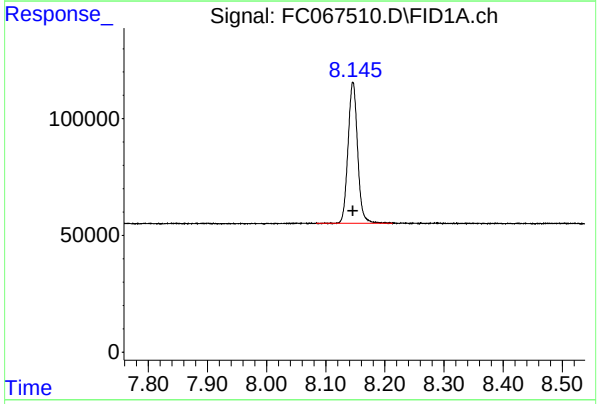
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 700270
Conc: 5.17 ug/ml



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

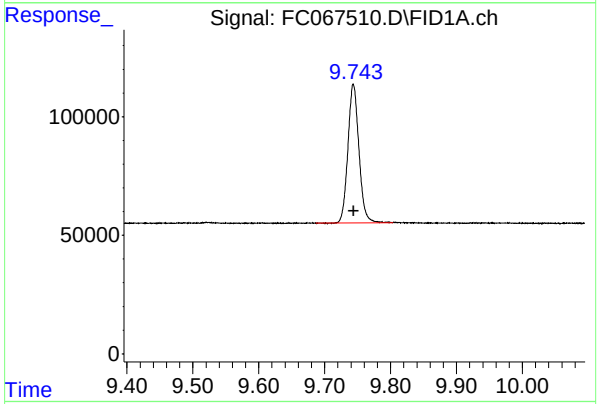
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 709834
Conc: 5.03 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



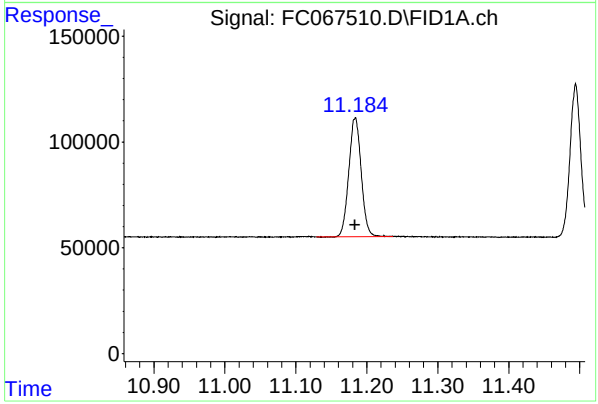
#6 n-Tetradecane (C14)

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



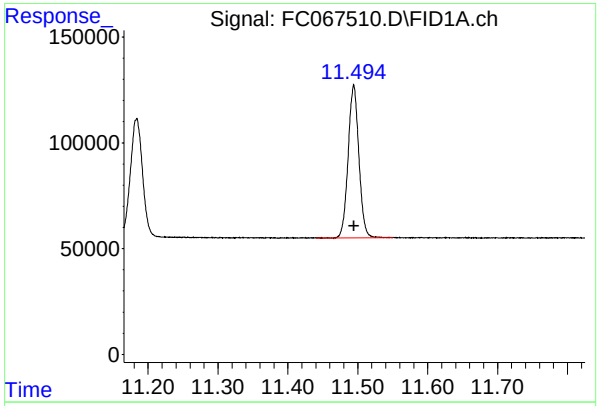
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

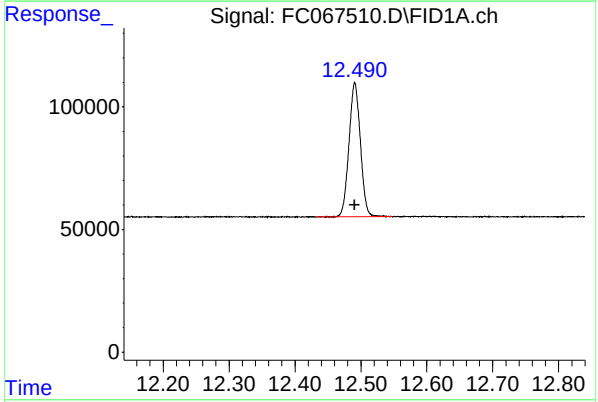
R.T.: 11.184 min
Delta R.T.: 0.000 min
Response: 680709
Conc: 5.15 ug/ml



#9 ortho-Terphenyl (SURR)

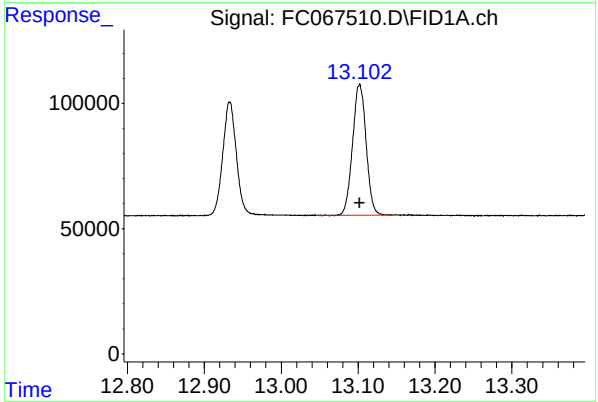
R.T.: 11.494 min
Delta R.T.: 0.000 min
Response: 768220
Conc: 5.24 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



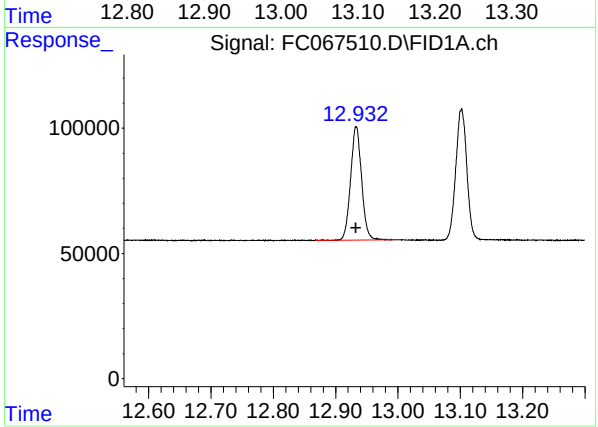
#10 n-Eicosane (C20)

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



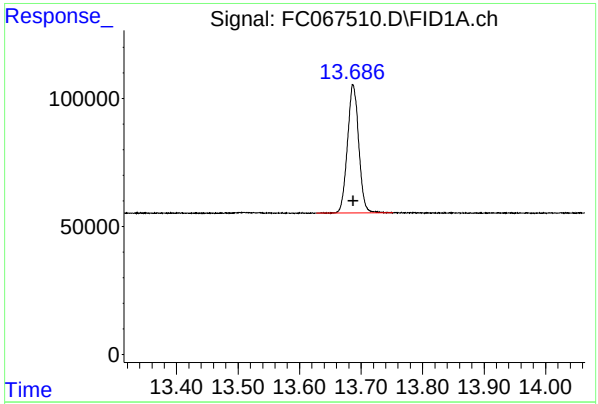
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

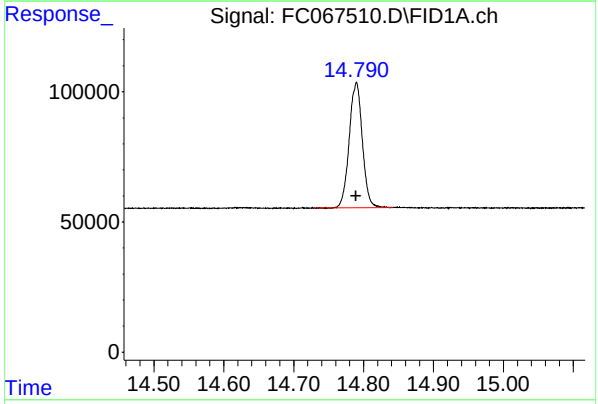
R.T.: 12.933 min
Delta R.T.: 0.000 min
Response: 555182
Conc: 5.14 ug/ml



#13 n-Docosane (C22)

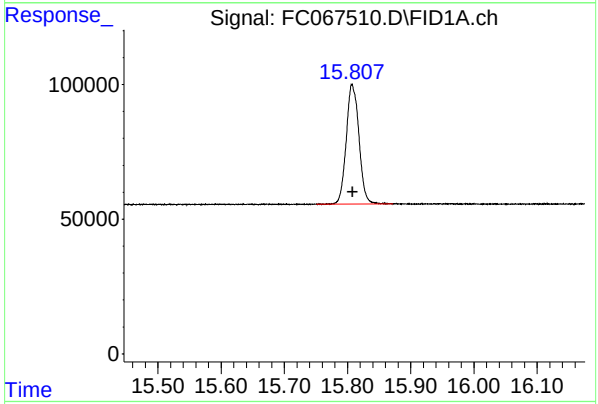
R.T.: 13.687 min
Delta R.T.: 0.000 min
Response: 638712
Conc: 5.22 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



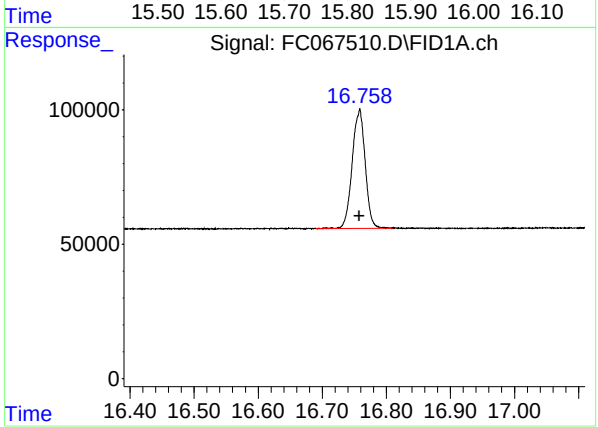
#14 n-Tetracosane (C24)

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



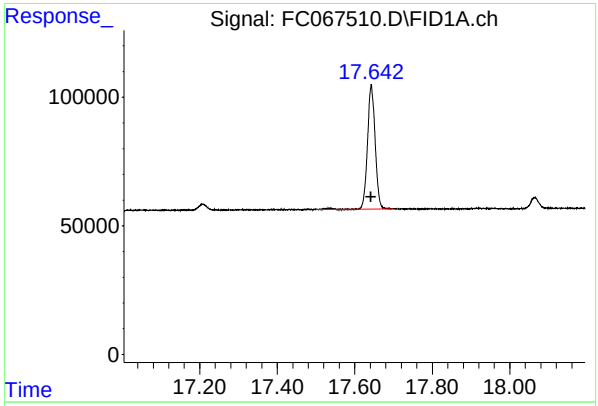
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

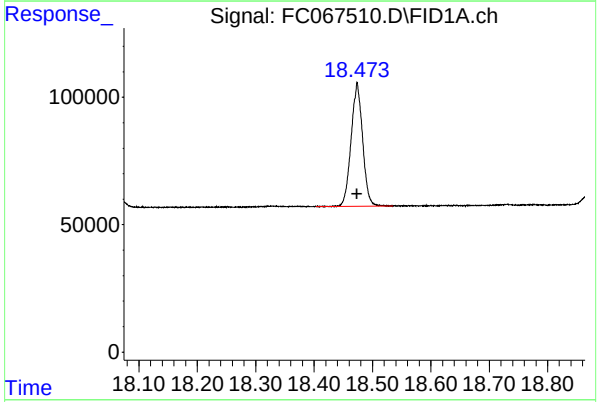
R.T.: 16.758 min
Delta R.T.: 0.000 min
Response: 621629
Conc: 5.28 ug/ml



#17 n-Tricontane (C30)

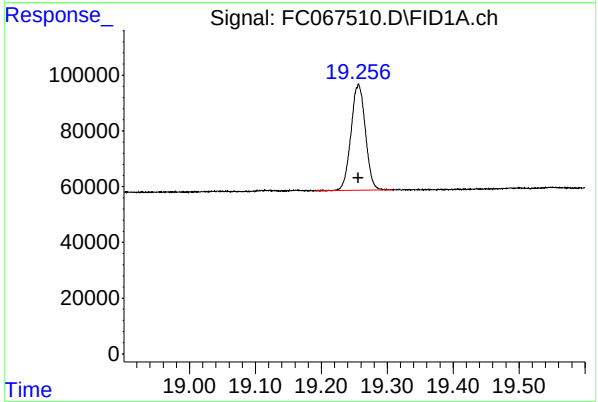
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 658247
Conc: 5.45 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



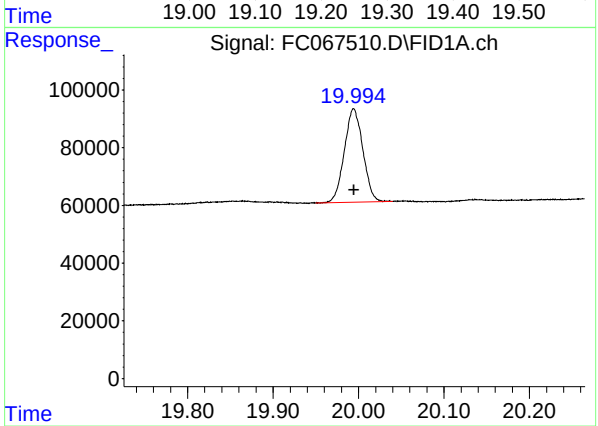
#18 n-Dotriacontane (C32)

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



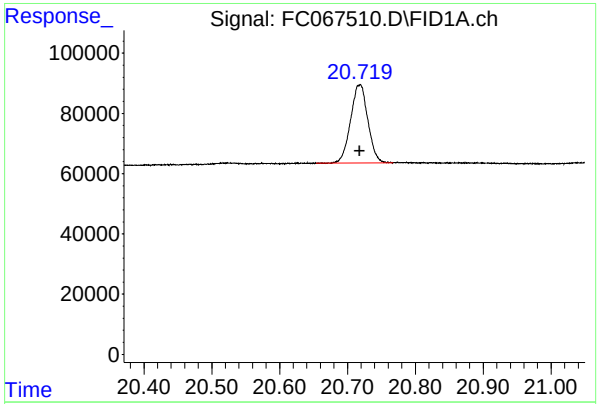
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

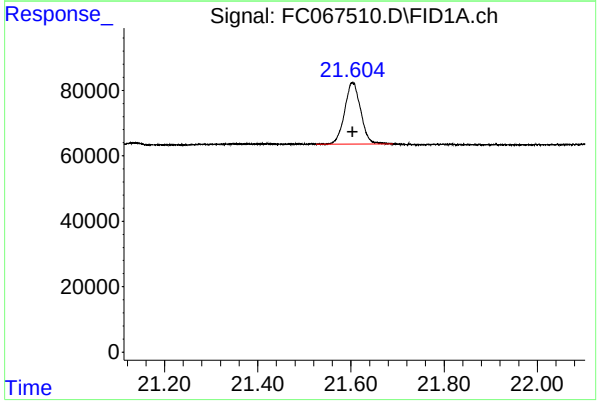
R.T.: 19.994 min
Delta R.T.: 0.000 min
Response: 488556
Conc: 5.37 ug/ml



#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

Quantitation Report (QT Reviewed)

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

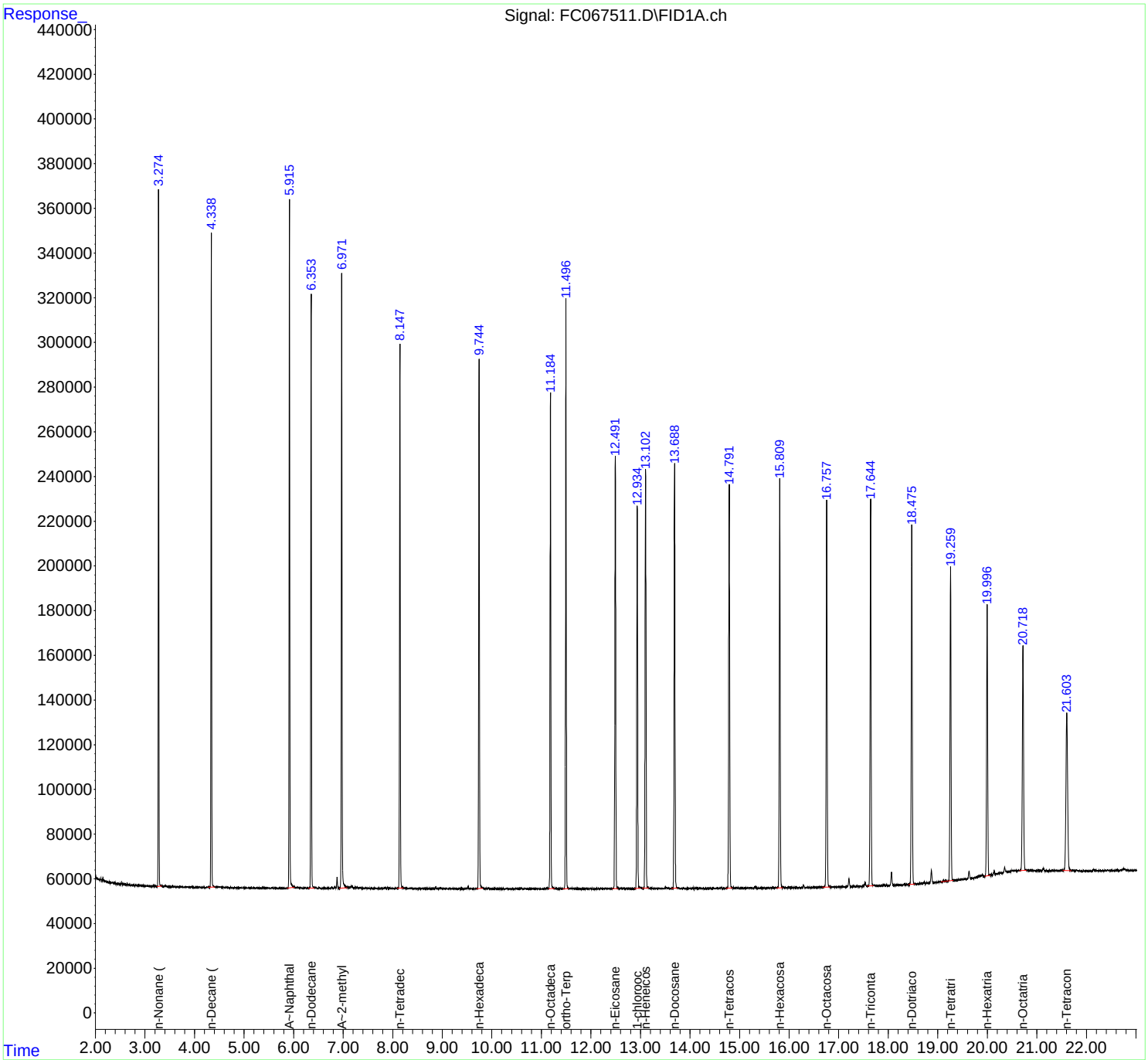
(f)=RT Delta > 1/2 Window (m)=manual int.

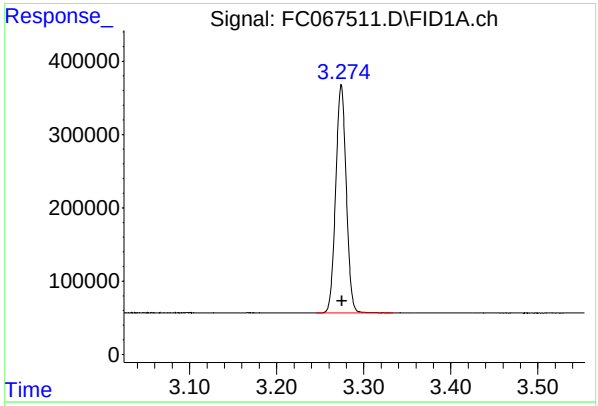
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC102324AL\
Data File : FC067511.D
Signal(s) : FID1A.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

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

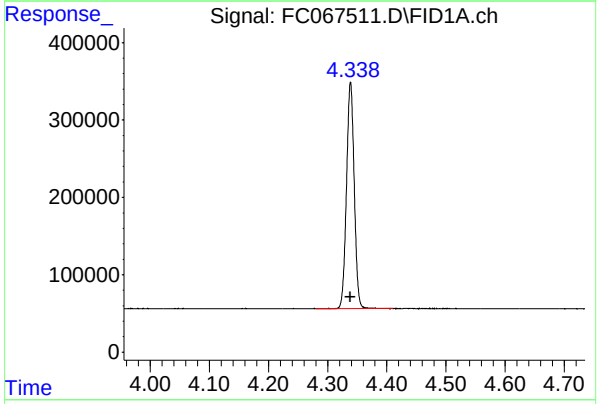




#1 n-Nonane (C9)

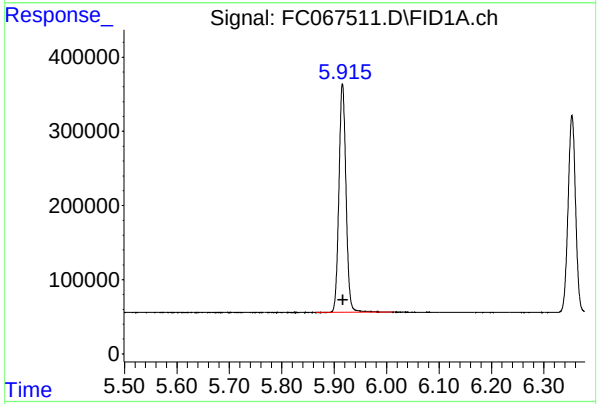
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 2613683
Conc: 19.40 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



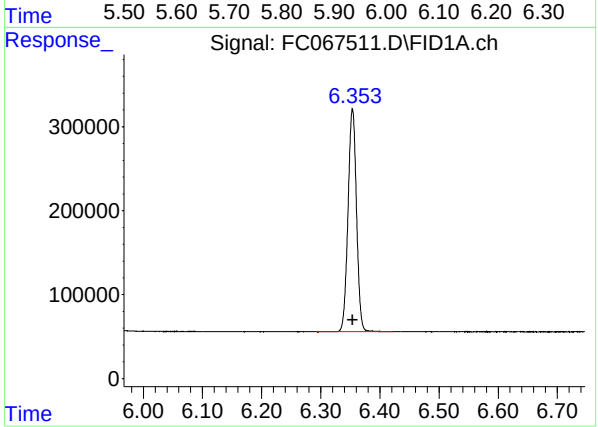
#2 n-Decane (C10)

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



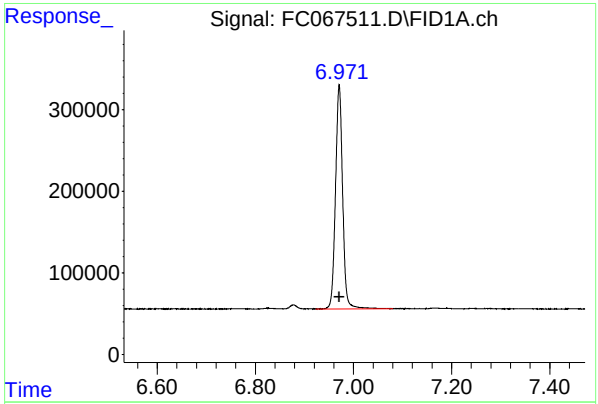
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

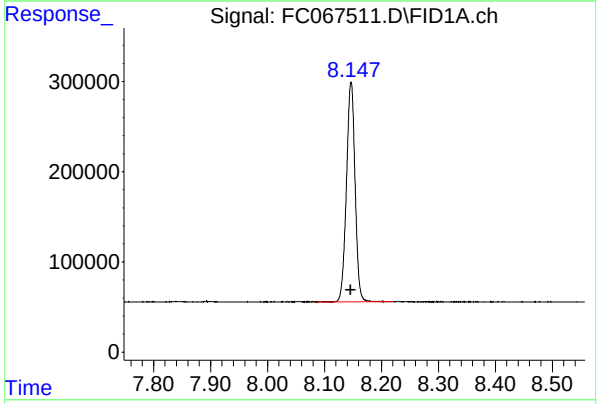
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 2640477
Conc: 19.50 ug/ml



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

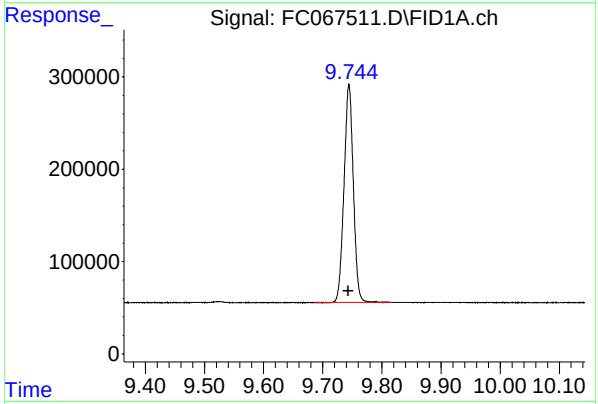
R.T.: 6.971 min
Delta R.T.: 0.000 min
Response: 2771002
Conc: 19.62 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



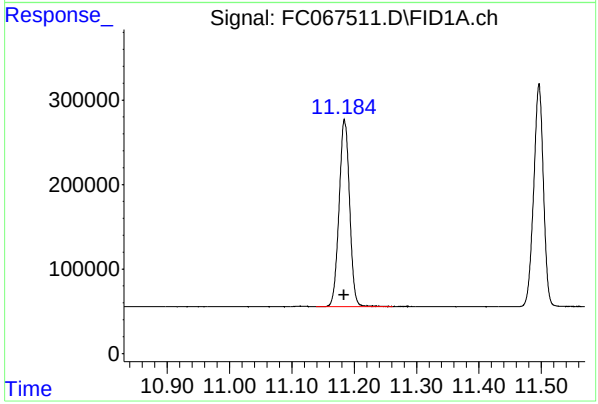
#6 n-Tetradecane (C14)

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



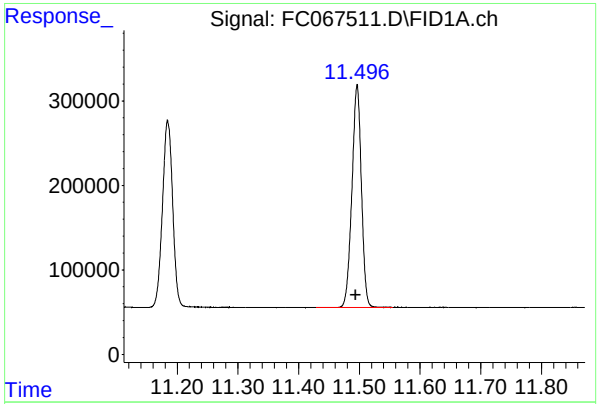
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

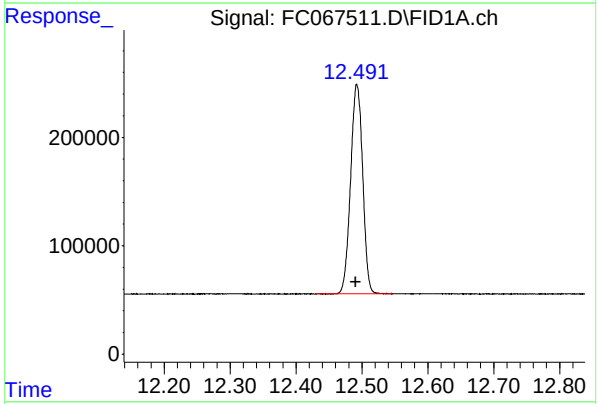
R.T.: 11.185 min
Delta R.T.: 0.000 min
Response: 2593351
Conc: 19.63 ug/ml



#9 ortho-Terphenyl (SURR)

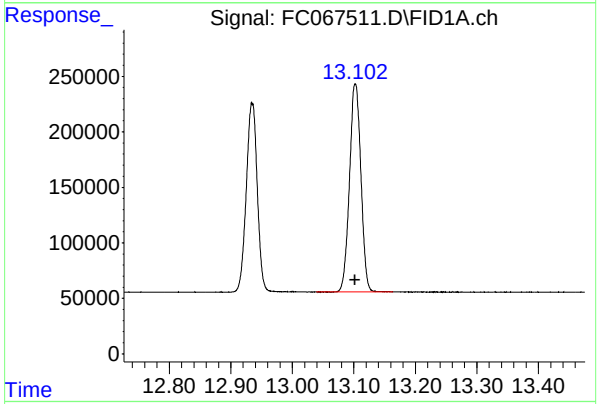
R.T.: 11.496 min
Delta R.T.: 0.002 min
Response: 2853188
Conc: 19.44 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



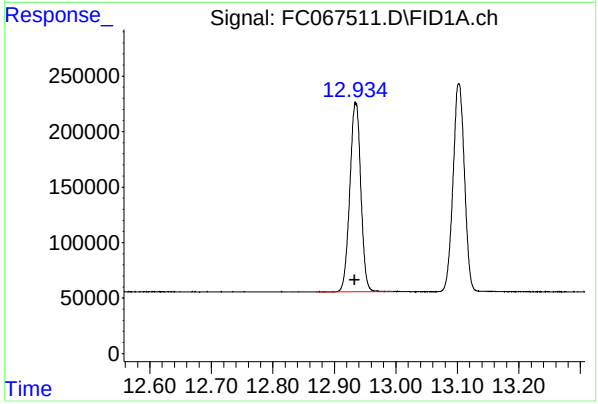
#10 n-Eicosane (C20)

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



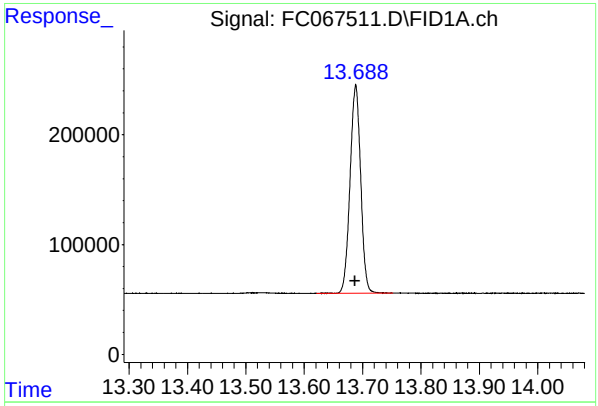
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

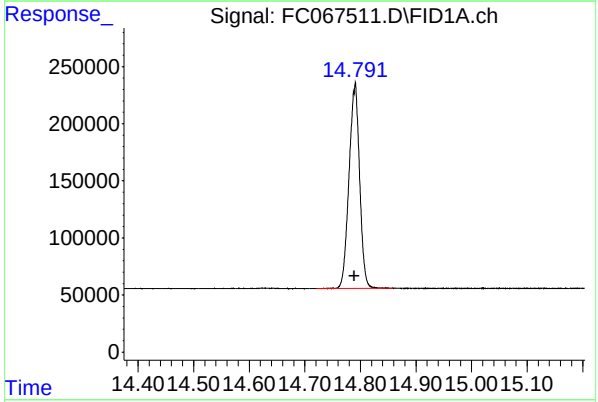
R.T.: 12.935 min
Delta R.T.: 0.002 min
Response: 2112213
Conc: 19.56 ug/ml



#13 n-Docosane (C22)

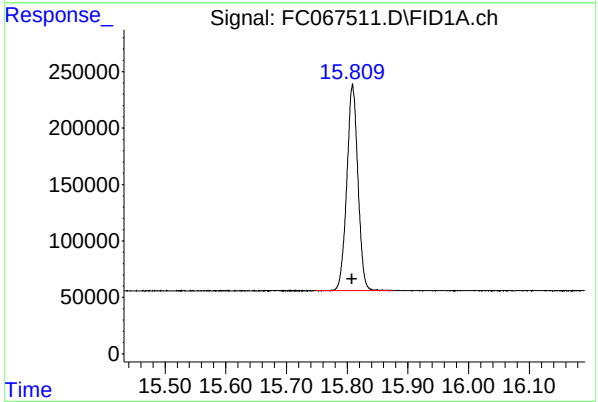
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 2390568
Conc: 19.52 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



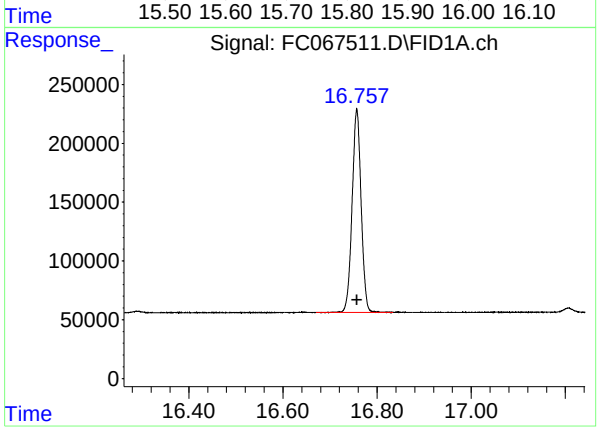
#14 n-Tetracosane (C24)

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



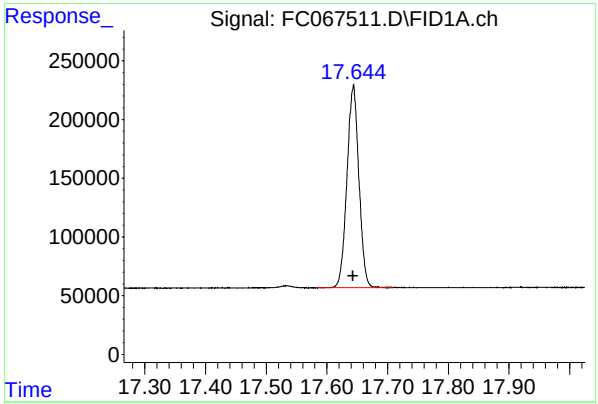
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

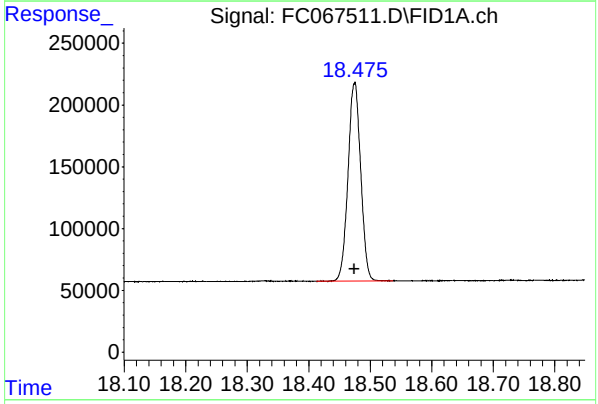
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 2297199
Conc: 19.53 ug/ml



#17 n-Tricontane (C30)

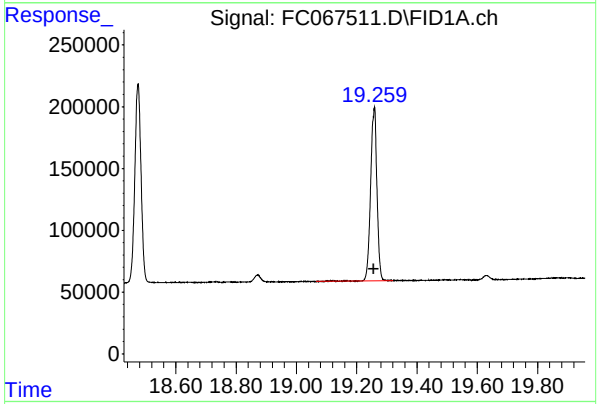
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 2353840
Conc: 19.47 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



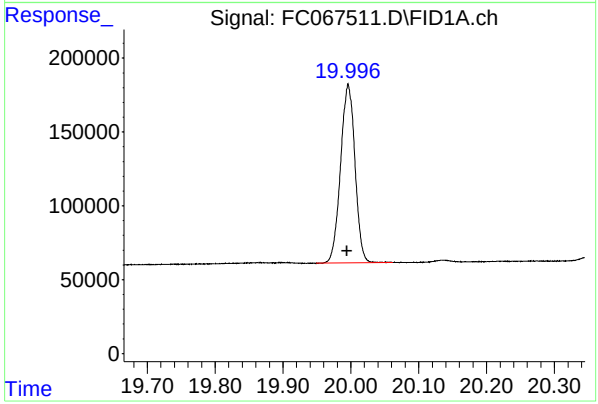
#18 n-Dotriacontane (C32)

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



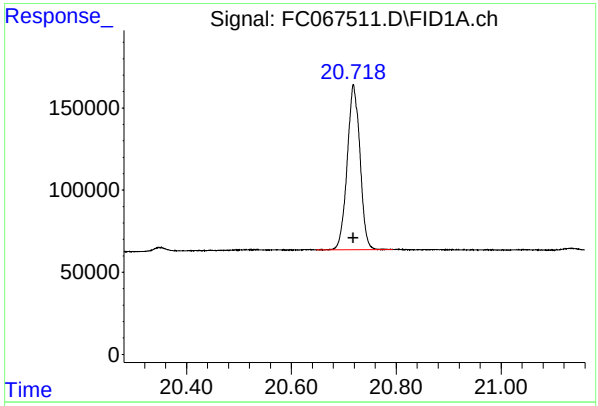
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

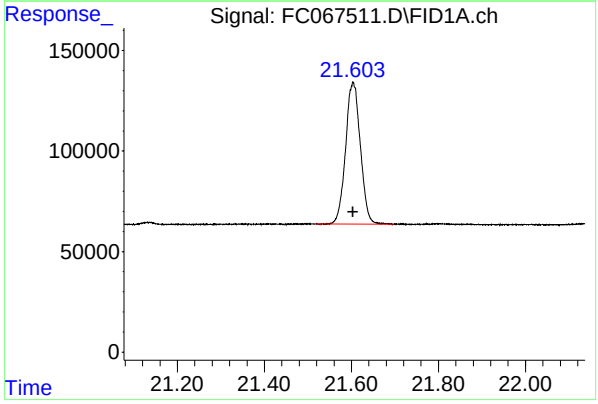
R.T.: 19.996 min
Delta R.T.: 0.002 min
Response: 1784212
Conc: 19.60 ug/ml



#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

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

Inital Calibration Report for SequenceID : FD102324AR

AreaCount

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	34560081.000	17413124.000	7062069.000	3602660.000	1773971.000	
Aromatic C12-C16	51756513.000	26214353.000	10660566.000	5474983.000	2683618.000	
Aromatic C16-C21	64464447.000	32614919.000	13171585.000	6675037.000	3268126.000	
Aromatic C21-C36	134161995.000	67904676.000	27627174.000	14154223.000	6877987.000	
Aromatic EPH	284943036.000	144147072.000	58521394.000	29906903.000	14603702.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	176202.694	1.627				
Aromatic C12-C16	177273.4926664	2.167				
Aromatic C16-C21	163832.55	1.288				
Aromatic C21-C36	152713.1526664	2.017				
Aromatic EPH	161887.4688884	1.816				

Concentration

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FD048568.D	FD048569.D	FD048570.D	FD048571.D	FD048572.D	
Aromatic C10-C12	172800.405000	174131.240000	176551.725000	180133.000000	177397.100000	
Aromatic C12-C16	172521.710000	174762.353333	177676.100000	182499.433333	178907.866666	
Aromatic C16-C21	161161.117500	163074.595000	164644.812500	166875.925000	163406.300000	
Aromatic C21-C36	149068.883333	150899.280000	153484.300000	157269.144444	152844.155555	
Aromatic EPH	158301.686666	160163.413333	162559.427777	166149.461111	162263.355555	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048568.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 23 17:13:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.379	14919837	98.962 ug/ml
	Spiked Amount 50.000		Recovery = 197.92%	
6)	S 2-Flurobiphenyl (SURR)	8.230	10015694	100.124 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 200.25%#	
11)	S ortho-Terphenyl (SURR)	11.267	16385129	98.289 ug/ml
	Spiked Amount 50.000		Recovery = 196.58%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.199	16947170	98.911 ug/ml
2)	T Naphthalene (C11.7)	5.719	17612911	98.941 ug/ml
3)	T 2-Methylnaphthalene (...	6.767	17624448	99.004 ug/ml
5)	T Acenaphthylene (C15.06)	8.034	17045088	98.400 ug/ml
7)	T Acenaphthene (C15.5)	8.331	17086977	98.169 ug/ml
8)	T Flouorene (C16.55)	9.109	16673063	98.964 ug/ml
9)	T Phenanthrene (C19.36)	10.496	16410378	99.314 ug/ml
10)	T Anthracene (C19.43)	10.573	15569819	98.435 ug/ml
12)	T Fluoranthene (C21.85)	12.302	15981856	98.532 ug/ml
13)	T Pyrene (C20.8)	12.596	15811187	98.991 ug/ml
14)	T Benzo[a]anthracene (C...	14.466	14979852	100.189 ug/ml
15)	T Chrysene (C27.41)	14.512	15332543	97.081 ug/ml
16)	T benzo[b]fluoranthene ...	16.016	15350623	99.928 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.054	14161475	97.899 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.395	14921521	99.306 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.761	14261058	103.933 ug/ml
20)	T Dibenz[a,h]anthracene...	17.801	14330700	95.355 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.019	14842367	98.211 ug/ml

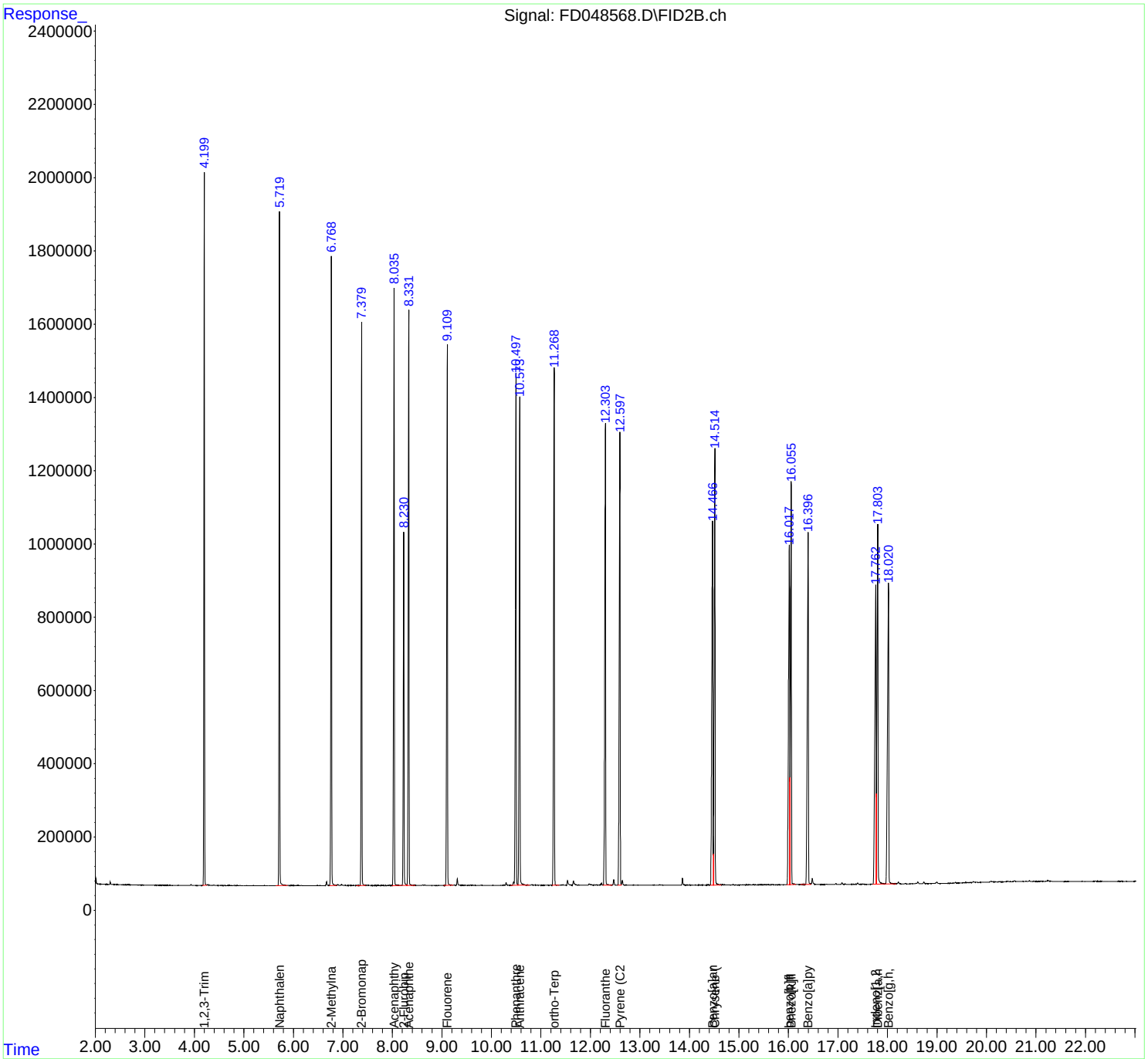
(f)=RT Delta > 1/2 Window (m)=manual int.

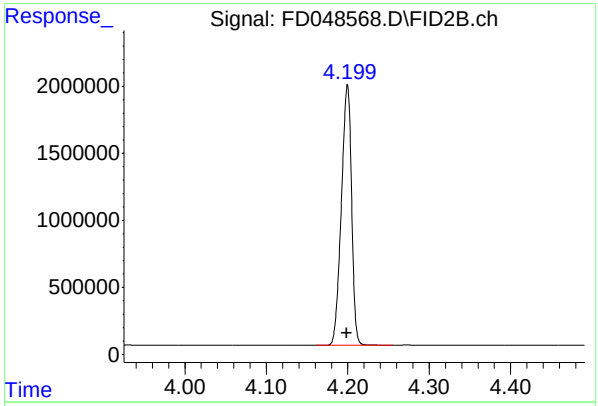
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048568.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:12
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 23 17:13:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

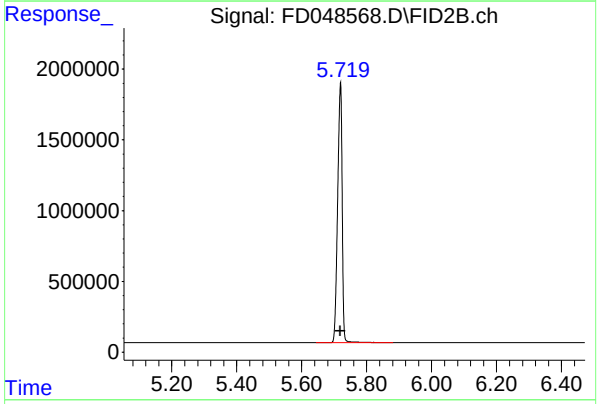




#1 1,2,3-Trimethylbenzene (C10.1)

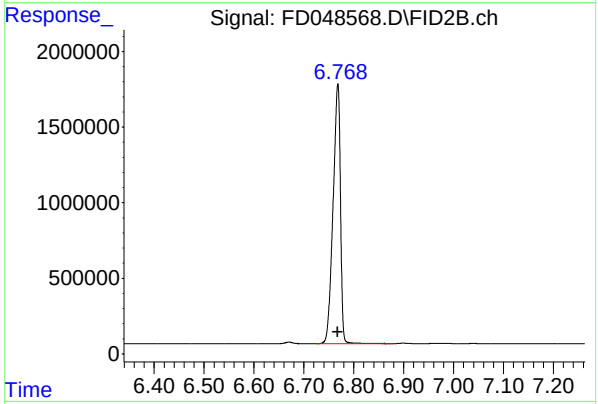
R.T.: 4.199 min
Delta R.T.: 0.000 min
Response: 16947170
Conc: 98.91 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



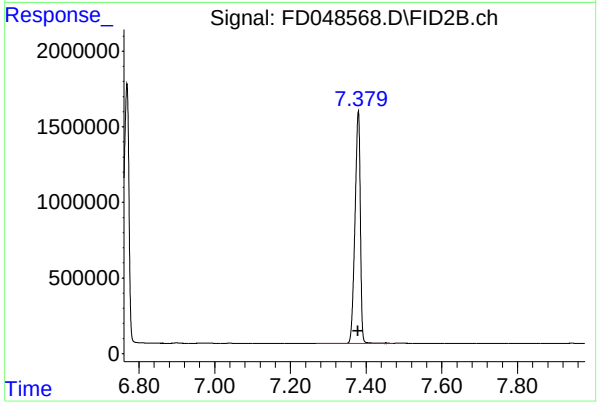
#2 Naphthalene (C11.7)

R.T.: 5.719 min
Delta R.T.: 0.000 min
Response: 17612911
Conc: 98.94 ug/ml



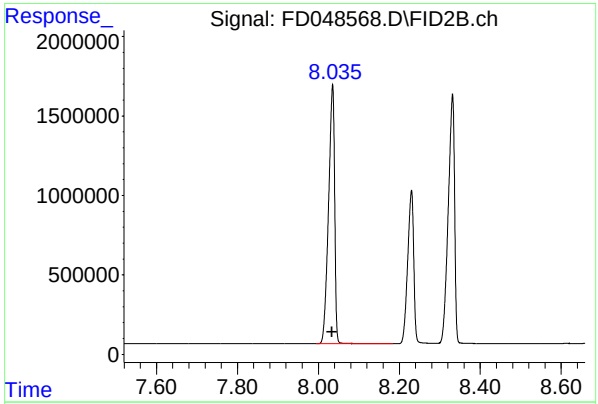
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.767 min
Delta R.T.: 0.000 min
Response: 17624448
Conc: 99.00 ug/ml



#4 2-Bromonaphthalene (SURR)

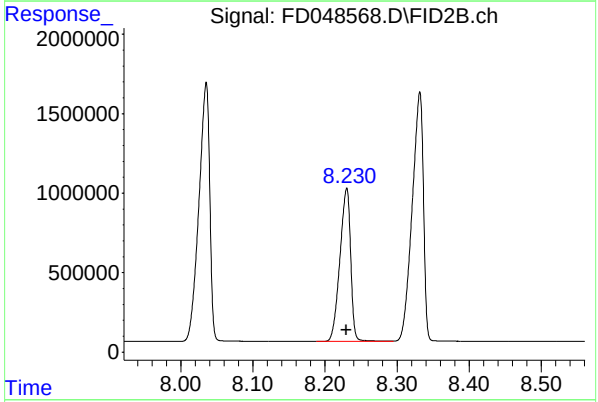
R.T.: 7.379 min
Delta R.T.: 0.000 min
Response: 14919837
Conc: 98.96 ug/ml



#5 Acenaphthylene (C15.06)

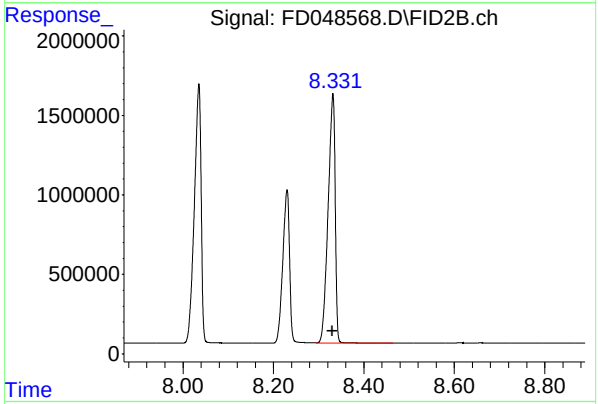
R.T.: 8.034 min
Delta R.T.: 0.000 min
Response: 17045088
Conc: 98.40 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



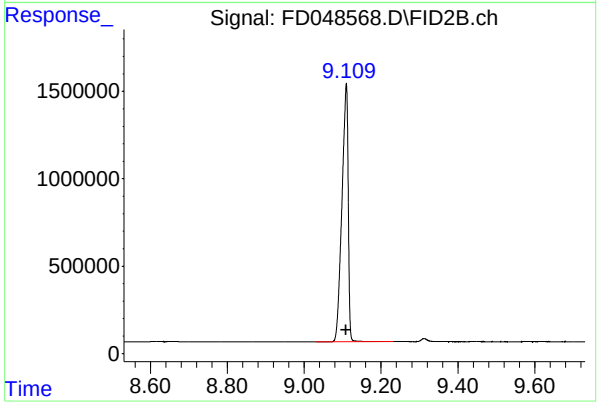
#6 2-Flurobiphenyl (SURR)

R.T.: 8.230 min
Delta R.T.: 0.000 min
Response: 10015694
Conc: 100.12 ug/ml



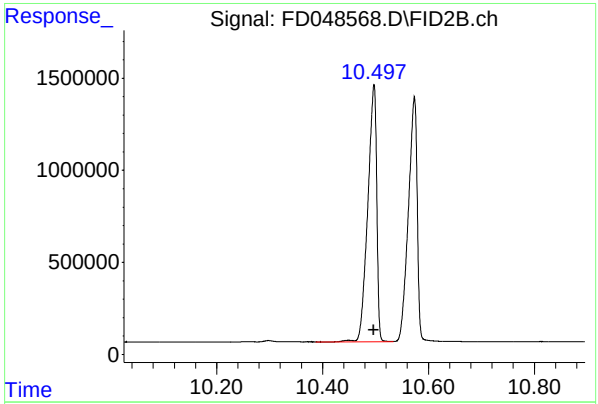
#7 Acenaphthene (C15.5)

R.T.: 8.331 min
Delta R.T.: 0.000 min
Response: 17086977
Conc: 98.17 ug/ml



#8 Flouorene (C16.55)

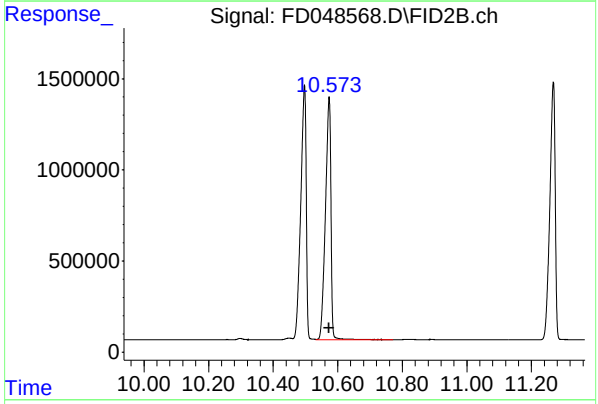
R.T.: 9.109 min
Delta R.T.: 0.000 min
Response: 16673063
Conc: 98.96 ug/ml



#9 Phenanthrene (C19.36)

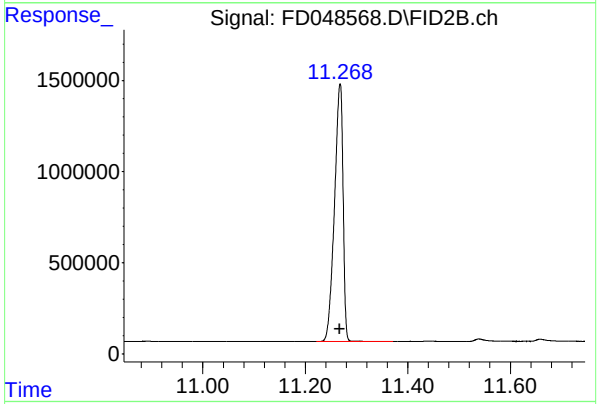
R.T.: 10.496 min
Delta R.T.: 0.000 min
Response: 16410378
Conc: 99.31 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



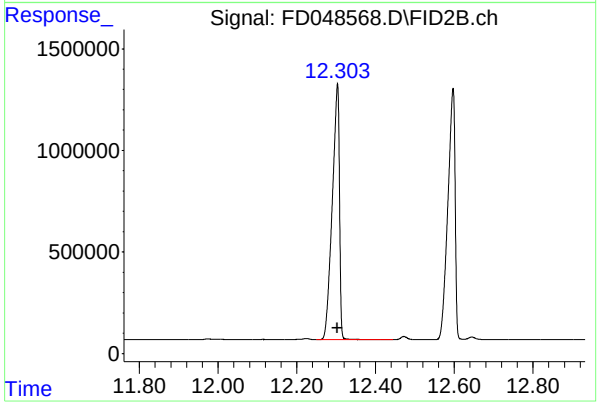
#10 Anthracene (C19.43)

R.T.: 10.573 min
Delta R.T.: 0.000 min
Response: 15569819
Conc: 98.44 ug/ml



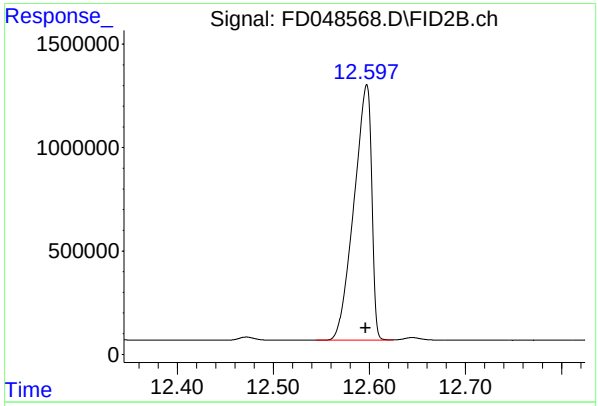
#11 ortho-Terphenyl (SURR)

R.T.: 11.267 min
Delta R.T.: 0.000 min
Response: 16385129
Conc: 98.29 ug/ml



#12 Fluoranthene (C21.85)

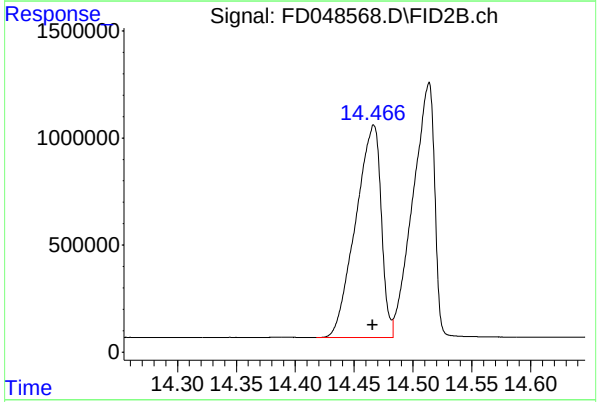
R.T.: 12.302 min
Delta R.T.: 0.000 min
Response: 15981856
Conc: 98.53 ug/ml



#13 Pyrene (C20.8)

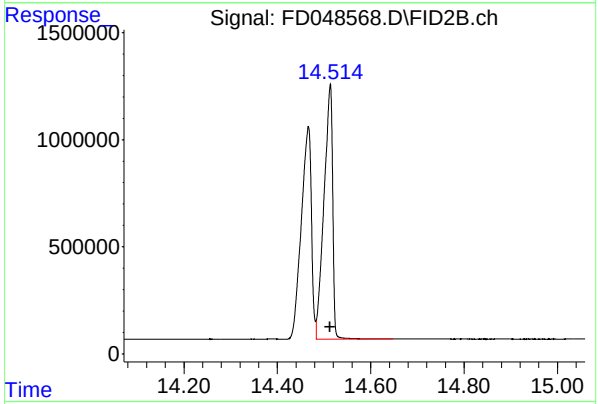
R.T.: 12.596 min
Delta R.T.: 0.000 min
Response: 15811187
Conc: 98.99 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



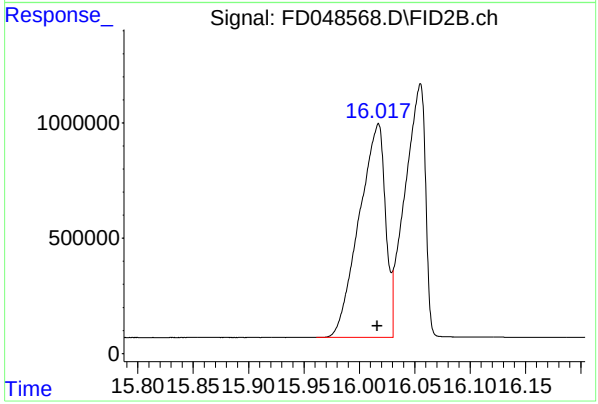
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.466 min
Delta R.T.: 0.000 min
Response: 14979852
Conc: 100.19 ug/ml



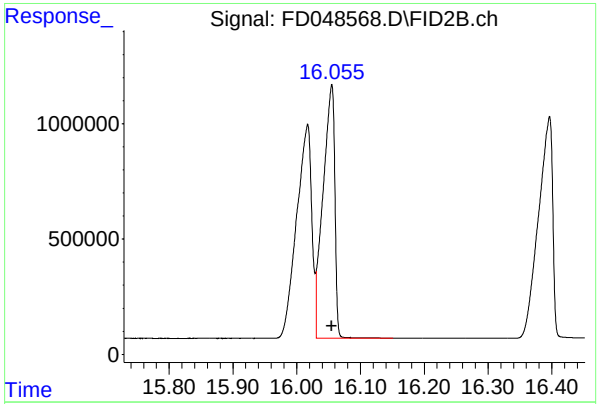
#15 Chrysene (C27.41)

R.T.: 14.512 min
Delta R.T.: 0.000 min
Response: 15332543
Conc: 97.08 ug/ml



#16 benzo[b]fluoranthene (C30.41)

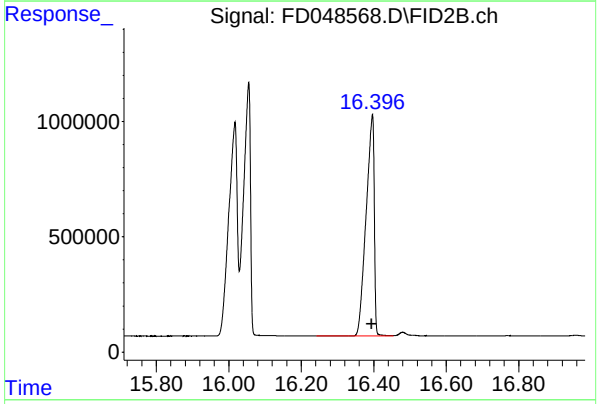
R.T.: 16.016 min
Delta R.T.: 0.000 min
Response: 15350623
Conc: 99.93 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

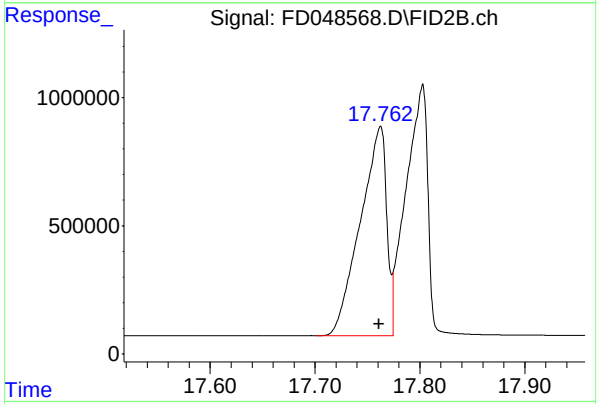
R.T.: 16.054 min
Delta R.T.: -0.001 mi
Response: 14161475
Conc: 97.90 ug/m

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



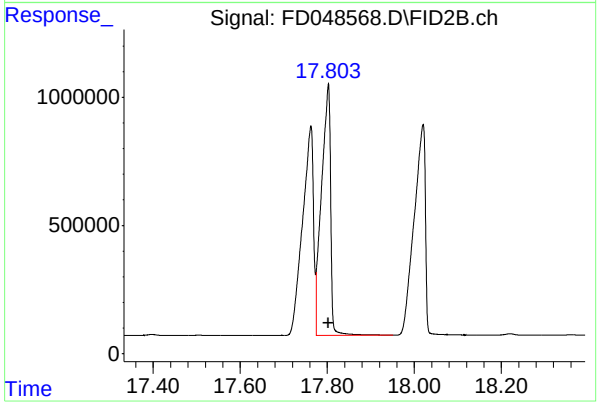
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.395 min
Delta R.T.: 0.000 min
Response: 14921521
Conc: 99.31 ug/ml



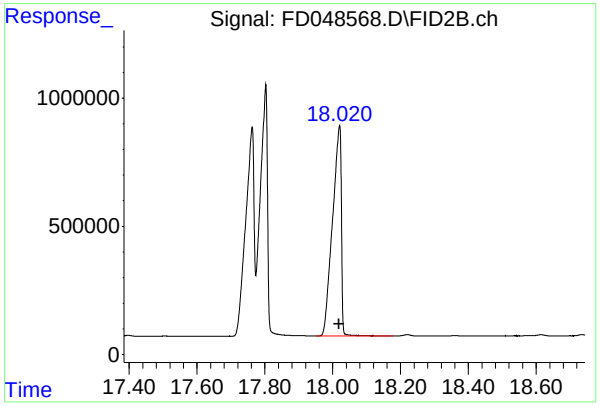
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.761 min
Delta R.T.: 0.000 min
Response: 14261058
Conc: 103.93 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.801 min
Delta R.T.: -0.002 min
Response: 14330700
Conc: 95.35 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.019 min
Delta R.T.: 0.000 mi
Response: 14842367
Conc: 98.21 ug/m

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048568.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:12
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.199	4.161	4.256	BV	1903452	16947170	96.16%	5.194%
2	5.719	5.644	5.881	BV	1794310	17612911	99.93%	5.398%
3	6.767	6.724	6.878	PV	1721582	17624448	100.00%	5.402%
4	7.379	7.268	7.471	PV	1511924	14919837	84.65%	4.573%
5	8.034	7.994	8.184	BB	1618840	17045088	96.71%	5.224%
6	8.230	8.188	8.294	BV	985430	10015694	56.83%	3.070%
7	8.331	8.294	8.464	VB	1571009	17086977	96.95%	5.237%
8	9.109	9.031	9.231	BB	1435050	16673063	94.60%	5.110%
9	10.496	10.388	10.533	BV	1431777	16410378	93.11%	5.030%
10	10.573	10.533	10.771	VB	1362012	15569819	88.34%	4.772%
11	11.267	11.221	11.371	BV	1423748	16385129	92.97%	5.022%
12	12.302	12.249	12.444	VV	1225147	15981856	90.68%	4.898%
13	12.596	12.544	12.624	BV	1267297	15811187	89.71%	4.846%
14	14.466	14.418	14.483	PV	976483	14979852	84.99%	4.591%
15	14.512	14.483	14.648	VB	1164623	15332543	87.00%	4.699%
16	16.016	15.961	16.031	BV	945594	15350623	87.10%	4.705%
17	16.054	16.031	16.151	VB	1101985	14161475	80.35%	4.340%
18	16.395	16.241	16.453	BV	941300	14921521	84.66%	4.573%
19	17.761	17.701	17.774	BV	810590	14261058	80.92%	4.371%
20	17.801	17.774	17.951	VV	963681	14330700	81.31%	4.392%
21	18.019	17.951	18.178	VV	811340	14842367	84.21%	4.549%

Sum of corrected areas: 326263695

Aromatic EPH 102324.M Wed Oct 23 18:16:59 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048569.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 23 17:15:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.375	7529591	49.962 ug/ml
	Spiked Amount 50.000		Recovery = 99.92%	
6)	S 2-Flurobiphenyl (SURR)	8.225	5021501	50.132 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 100.26%	
11)	S ortho-Terphenyl (SURR)	11.261	8334280	49.996 ug/ml
	Spiked Amount 50.000		Recovery = 99.99%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.196	8539641	49.894 ug/ml
2)	T Naphthalene (C11.7)	5.715	8873483	49.898 ug/ml
3)	T 2-Methylnaphthalene (...	6.762	8891978	49.967 ug/ml
5)	T Acenaphthylene (C15.06)	8.029	8649197	49.954 ug/ml
7)	T Acenaphthene (C15.5)	8.324	8673178	49.886 ug/ml
8)	T Flouorene (C16.55)	9.102	8428307	50.018 ug/ml
9)	T Phenanthrene (C19.36)	10.489	8272929	50.044 ug/ml
10)	T Anthracene (C19.43)	10.565	7888616	49.915 ug/ml
12)	T Fluoranthene (C21.85)	12.294	8076662	49.863 ug/ml
13)	T Pyrene (C20.8)	12.587	8025067	50.162 ug/ml
14)	T Benzo[a]anthracene (C...	14.456	7527575	50.230 ug/ml
15)	T Chrysene (C27.41)	14.500	7833293	49.731 ug/ml
16)	T benzo[b]fluoranthene ...	16.005	7671770	49.961 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.039	7231888	49.599 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.381	7547267	50.152 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.747	6949708	50.431 ug/ml
20)	T Dibenz[a,h]anthracene...	17.785	7539487	49.466 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.000	7527026	49.870 ug/ml

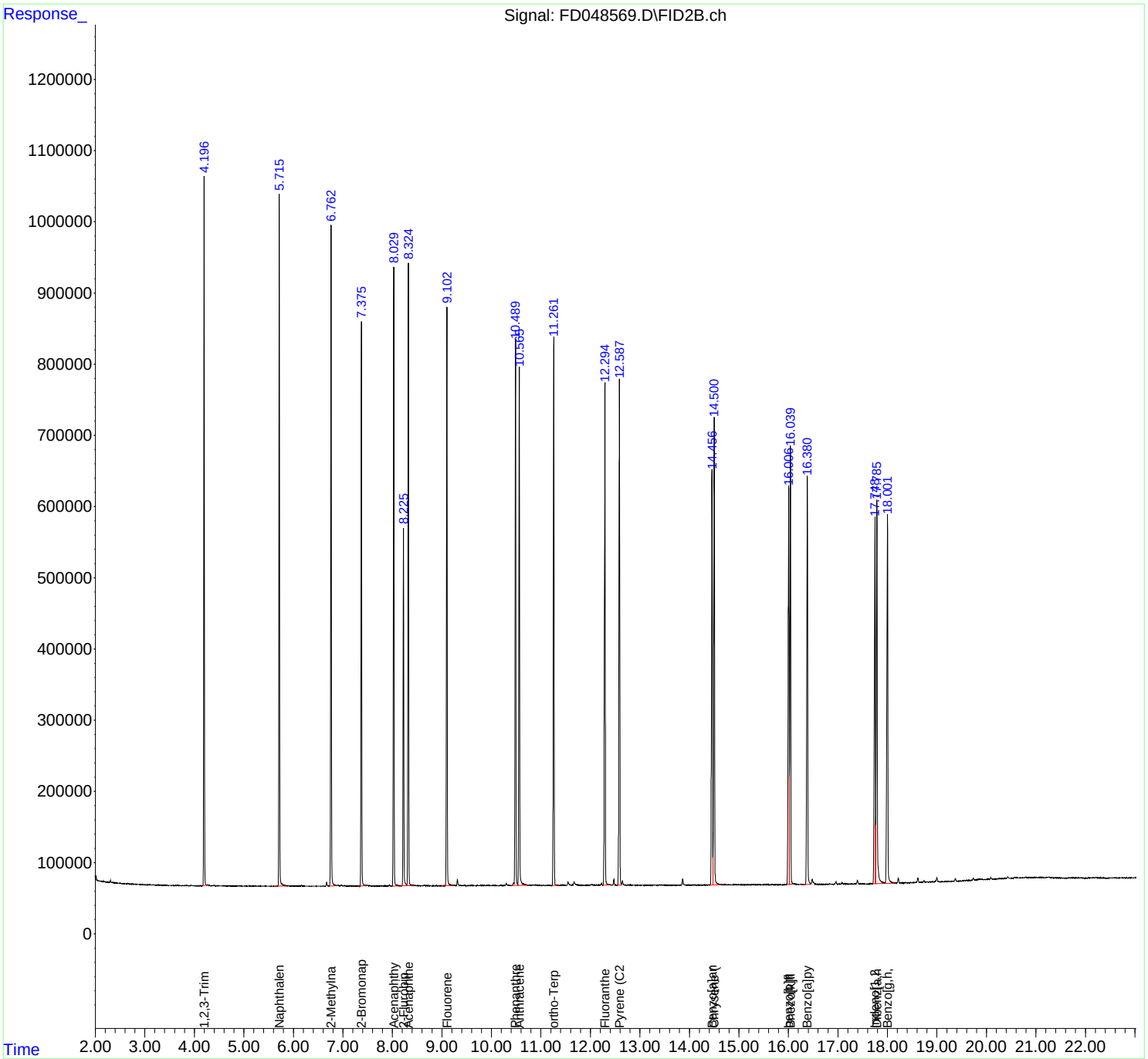
(f)=RT Delta > 1/2 Window (m)=manual int.

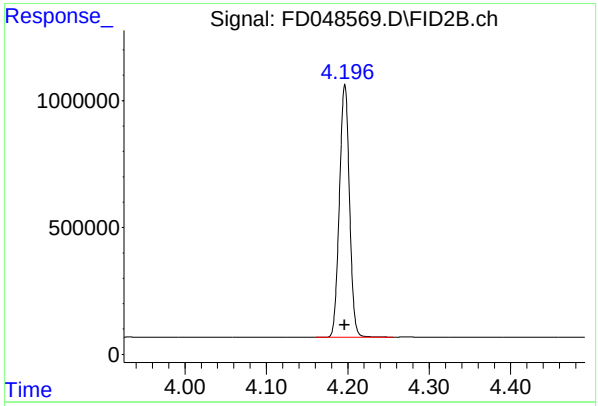
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048569.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:48
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 23 17:15:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

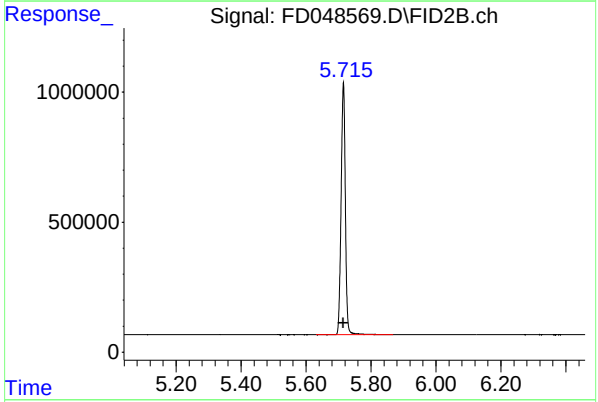




#1 1,2,3-Trimethylbenzene (C10.1)

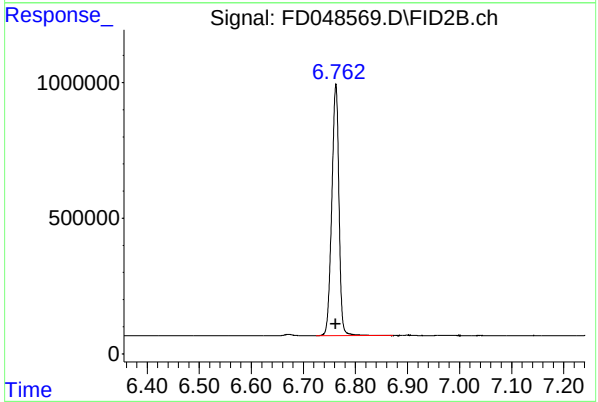
R.T.: 4.196 min
Delta R.T.: 0.000 min
Response: 8539641
Conc: 49.89 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



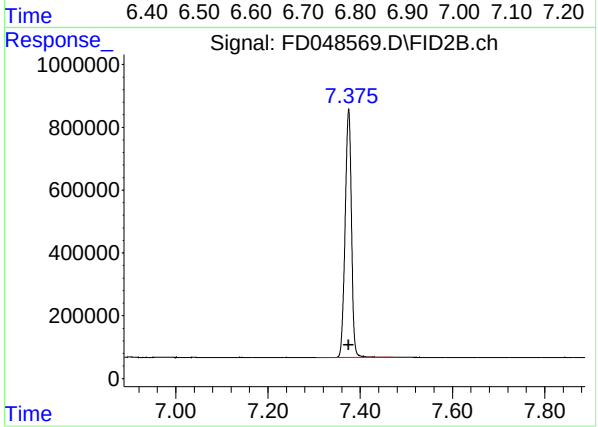
#2 Naphthalene (C11.7)

R.T.: 5.715 min
Delta R.T.: 0.000 min
Response: 8873483
Conc: 49.90 ug/ml



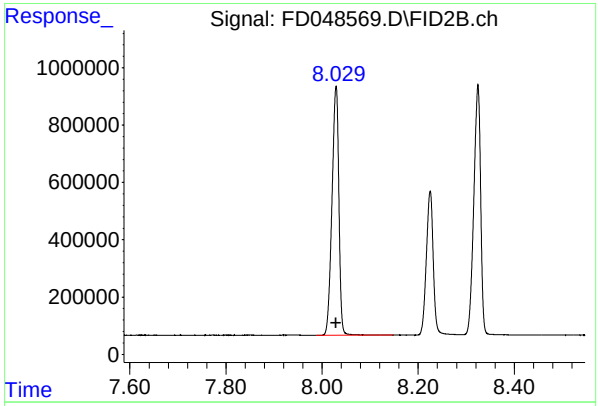
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.762 min
Delta R.T.: 0.000 min
Response: 8891978
Conc: 49.97 ug/ml



#4 2-Bromonaphthalene (SURR)

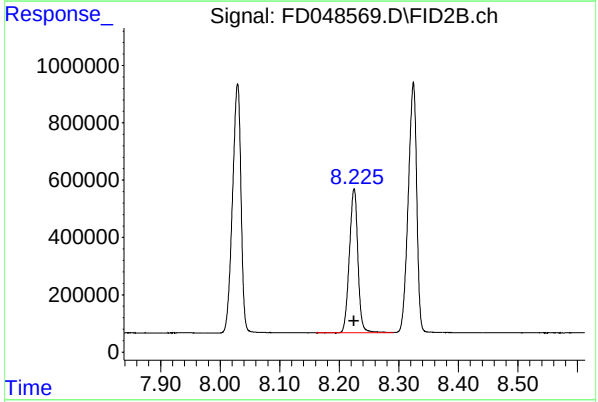
R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 7529591
Conc: 49.96 ug/ml



#5 Acenaphthylene (C15.06)

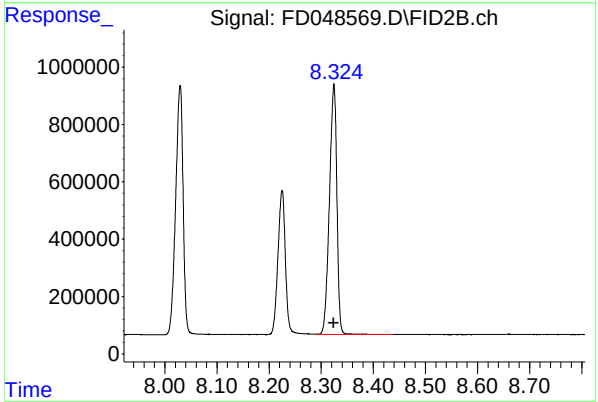
R.T.: 8.029 min
Delta R.T.: 0.000 min
Response: 8649197
Conc: 49.95 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



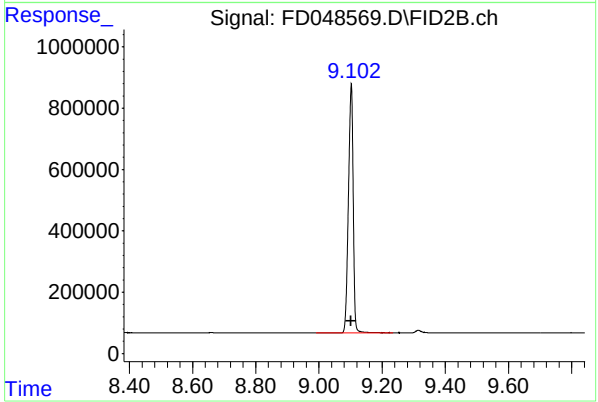
#6 2-Flurobiphenyl (SURR)

R.T.: 8.225 min
Delta R.T.: 0.000 min
Response: 5021501
Conc: 50.13 ug/ml



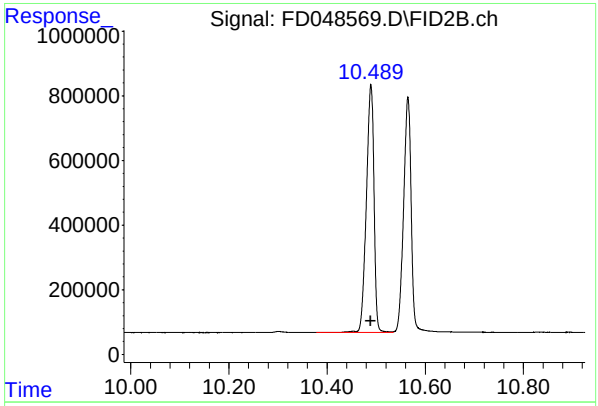
#7 Acenaphthene (C15.5)

R.T.: 8.324 min
Delta R.T.: 0.000 min
Response: 8673178
Conc: 49.89 ug/ml



#8 Flouorene (C16.55)

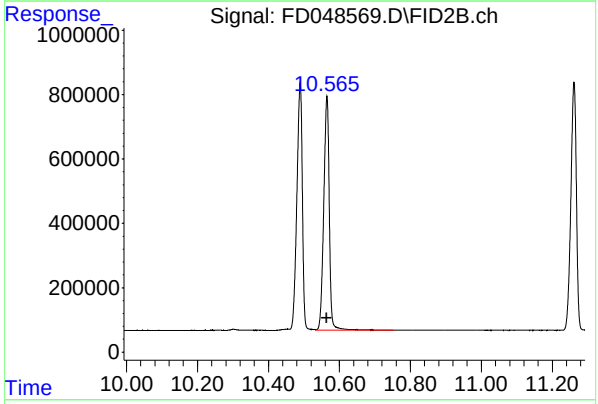
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 8428307
Conc: 50.02 ug/ml



#9 Phenanthrene (C19.36)

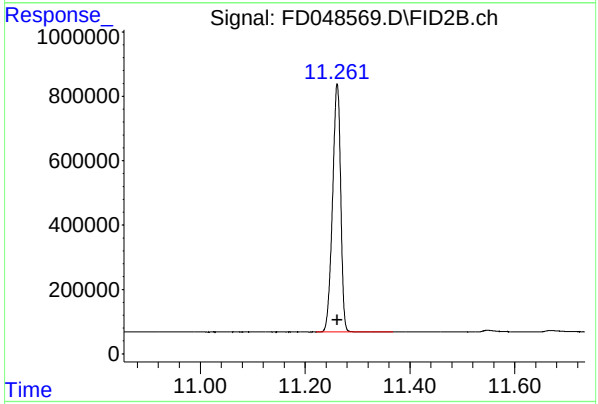
R.T.: 10.489 min
Delta R.T.: 0.000 min
Response: 8272929
Conc: 50.04 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



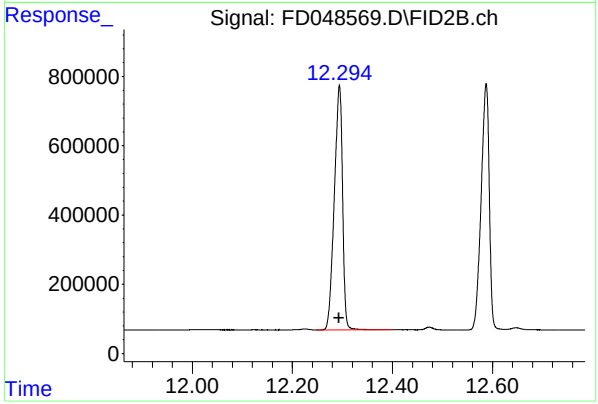
#10 Anthracene (C19.43)

R.T.: 10.565 min
Delta R.T.: 0.000 min
Response: 7888616
Conc: 49.92 ug/ml



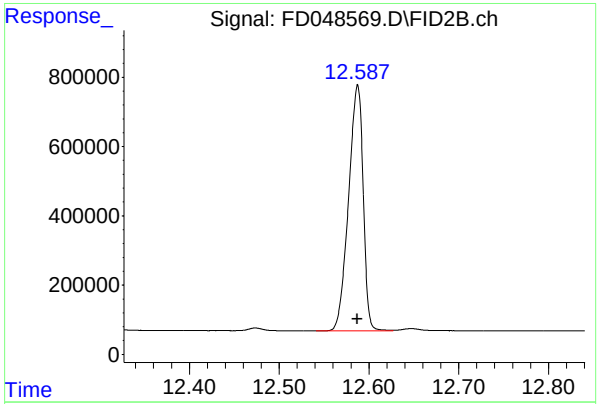
#11 ortho-Terphenyl (SURR)

R.T.: 11.261 min
Delta R.T.: 0.000 min
Response: 8334280
Conc: 50.00 ug/ml



#12 Fluoranthene (C21.85)

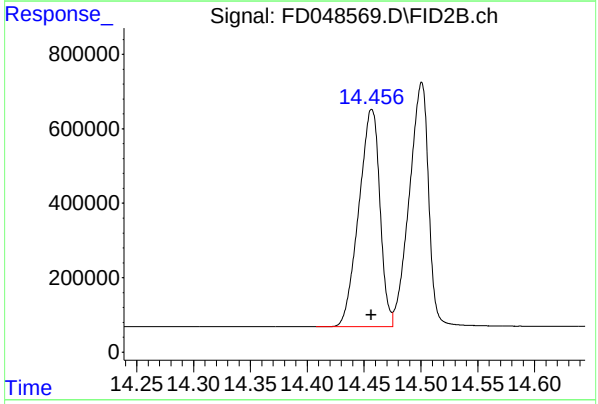
R.T.: 12.294 min
Delta R.T.: 0.000 min
Response: 8076662
Conc: 49.86 ug/ml



#13 Pyrene (C20.8)

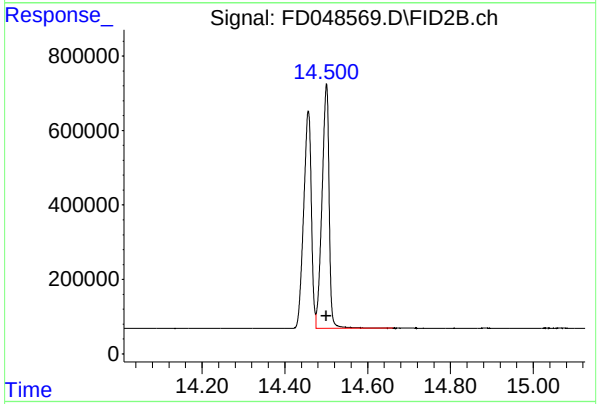
R.T.: 12.587 min
Delta R.T.: 0.000 min
Response: 8025067
Conc: 50.16 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



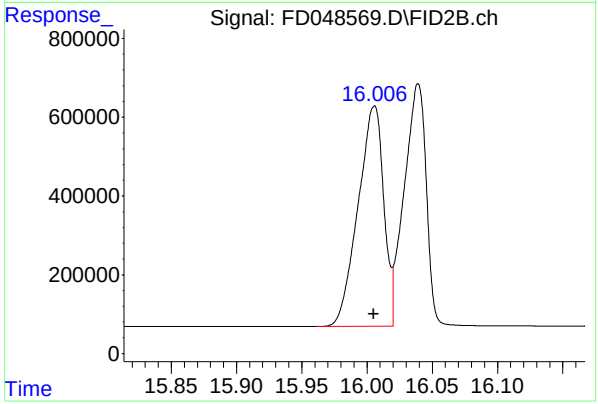
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.456 min
Delta R.T.: 0.000 min
Response: 7527575
Conc: 50.23 ug/ml



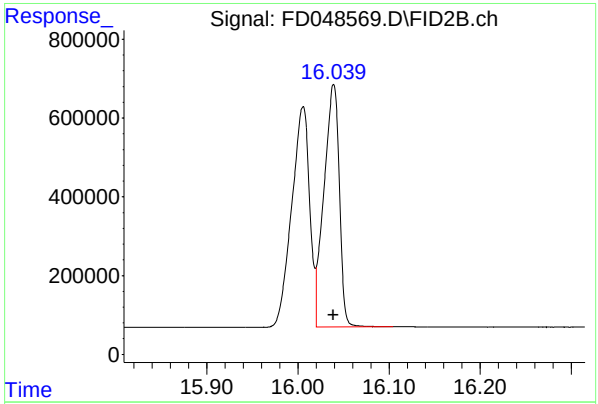
#15 Chrysene (C27.41)

R.T.: 14.500 min
Delta R.T.: 0.000 min
Response: 7833293
Conc: 49.73 ug/ml



#16 benzo[b]fluoranthene (C30.41)

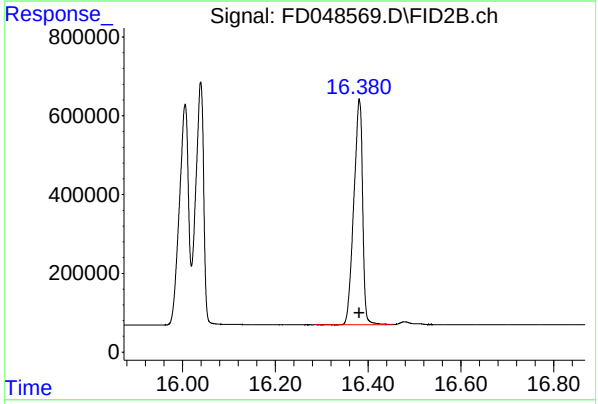
R.T.: 16.005 min
Delta R.T.: 0.000 min
Response: 7671770
Conc: 49.96 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

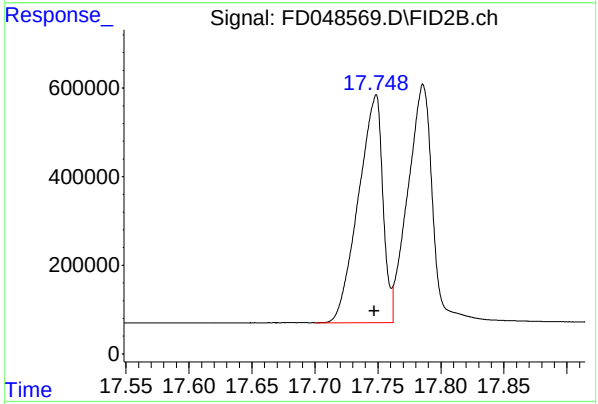
R.T.: 16.039 min
Delta R.T.: 0.000 min
Response: 7231888
Conc: 49.60 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



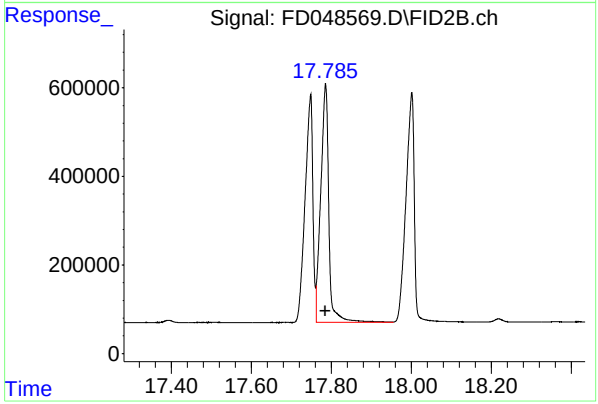
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.381 min
Delta R.T.: 0.000 min
Response: 7547267
Conc: 50.15 ug/ml



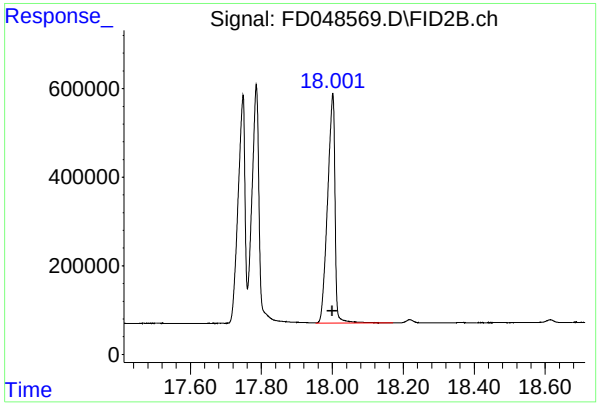
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.747 min
Delta R.T.: 0.000 min
Response: 6949708
Conc: 50.43 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.785 min
Delta R.T.: 0.000 min
Response: 7539487
Conc: 49.47 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.000 min
Delta R.T.: 0.000 mi
Response: 7527026
Conc: 49.87 ug/m

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048569.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 15:48
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.196	4.161	4.255	BV	998732	8539641	96.04%	5.175%
2	5.715	5.631	5.868	BB	961300	8873483	99.79%	5.377%
3	6.762	6.724	6.872	PV	916254	8891978	100.00%	5.388%
4	7.375	7.304	7.471	BB	788165	7529591	84.68%	4.562%
5	8.029	7.988	8.148	BB	861509	8649197	97.27%	5.241%
6	8.225	8.161	8.290	BV	502069	5021501	56.47%	3.043%
7	8.324	8.290	8.438	VB	874209	8673178	97.54%	5.255%
8	9.102	8.991	9.234	BV	799296	8428307	94.79%	5.107%
9	10.489	10.378	10.534	BV	757282	8272929	93.04%	5.013%
10	10.565	10.534	10.751	VB	727764	7888616	88.72%	4.780%
11	11.261	11.221	11.368	BB	773174	8334280	93.73%	5.050%
12	12.294	12.247	12.401	PB	711390	8076662	90.83%	4.894%
13	12.587	12.541	12.627	BV	714458	8025067	90.25%	4.863%
14	14.456	14.408	14.475	PV	588127	7527575	84.66%	4.561%
15	14.500	14.475	14.661	VB	663541	7833293	88.09%	4.747%
16	16.005	15.961	16.020	BV	559367	7671770	86.28%	4.649%
17	16.039	16.020	16.104	VV	611862	7231888	81.33%	4.382%
18	16.381	16.288	16.453	BV	574389	7547267	84.88%	4.573%
19	17.747	17.701	17.762	BV	512967	6949708	78.16%	4.211%
20	17.785	17.762	17.954	VV	532723	7539487	84.79%	4.568%
21	18.000	17.954	18.171	VV	519884	7527026	84.65%	4.561%

Sum of corrected areas: 165032443

Aromatic EPH 102324.M Wed Oct 23 18:18:22 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048570.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 23 17:10:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.372	3046545	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.222	1998164	20.000 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%
11) S	ortho-Terphenyl (SURR)	11.258	3391146	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.195	3464073	20.000 ug/ml
2) T	Naphthalene (C11.7)	5.713	3597996	20.000 ug/ml
3) T	2-Methylnaphthalene (...	6.760	3595810	20.000 ug/ml
5) T	Acenaphthylene (C15.06)	8.025	3519888	20.000 ug/ml
7) T	Acenaphthene (C15.5)	8.319	3544868	20.000 ug/ml
8) T	Flouorene (C16.55)	9.097	3404430	20.000 ug/ml
9) T	Phenanthrene (C19.36)	10.485	3327445	20.000 ug/ml
10) T	Anthracene (C19.43)	10.560	3212978	20.000 ug/ml
12) T	Fluoranthene (C21.85)	12.288	3291616	20.000 ug/ml
13) T	Pyrene (C20.8)	12.581	3226732	20.000 ug/ml
14) T	Benzo[a]anthracene (C...	14.451	2984688	20.000 ug/ml
15) T	Chrysene (C27.41)	14.492	3250919	20.000 ug/ml
16) T	benzo[b]fluoranthene ...	15.997	3074553	20.000 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.027	3023398	20.000 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.372	3026012	20.000 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.737	2636324	20.000 ug/ml
20) T	Dibenz[a,h]anthracene...	17.777	3263027	20.000 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.987	3076637	20.000 ug/ml

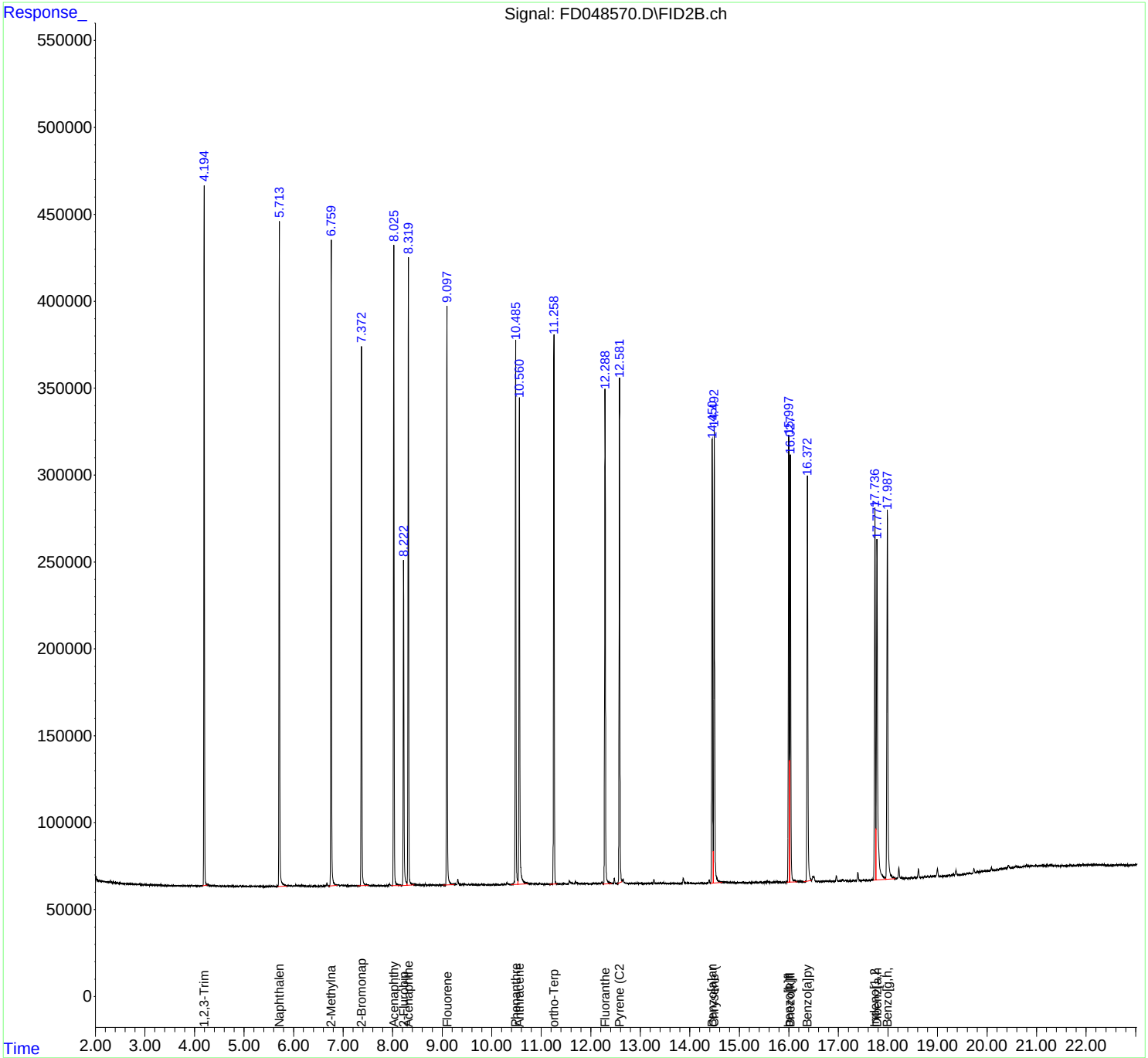
(f)=RT Delta > 1/2 Window (m)=manual int.

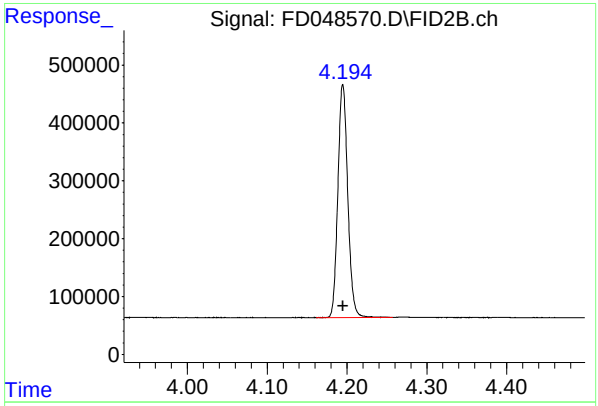
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048570.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 16:25
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 23 17:10:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:09:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

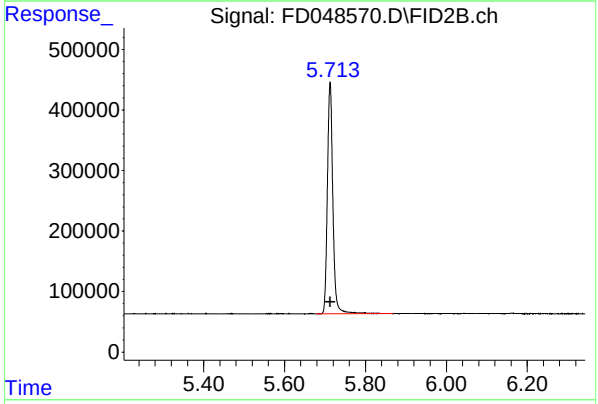




#1 1,2,3-Trimethylbenzene (C10.1)

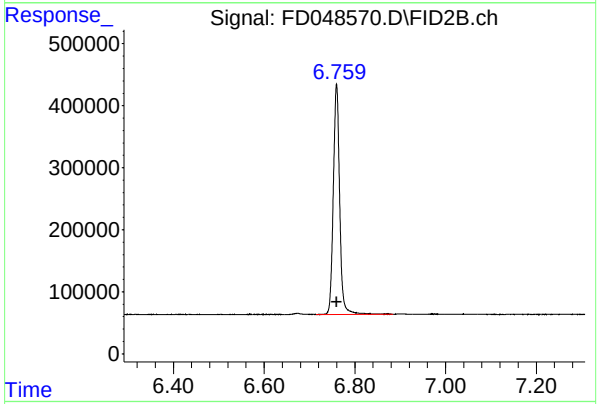
R.T.: 4.195 min
Delta R.T.: 0.000 min
Response: 3464073
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



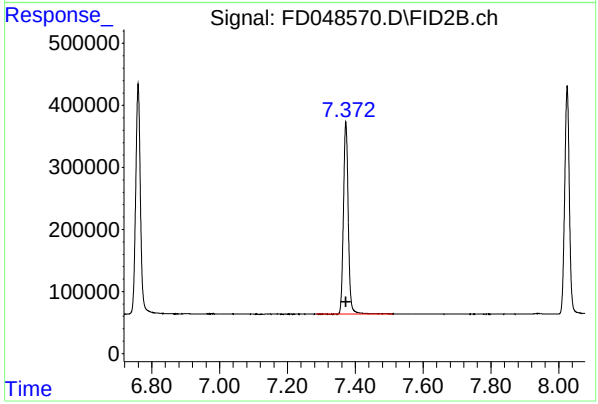
#2 Naphthalene (C11.7)

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 3597996
Conc: 20.00 ug/ml



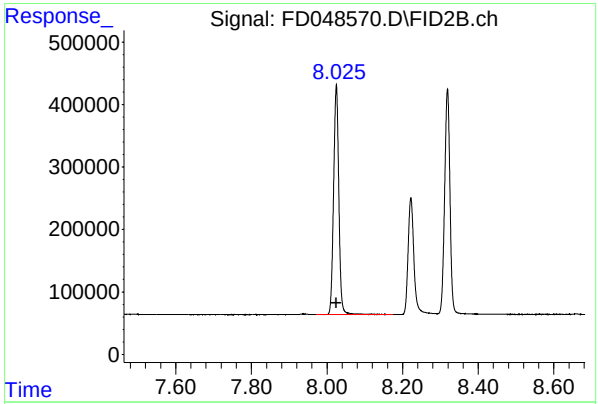
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.760 min
Delta R.T.: 0.000 min
Response: 3595810
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

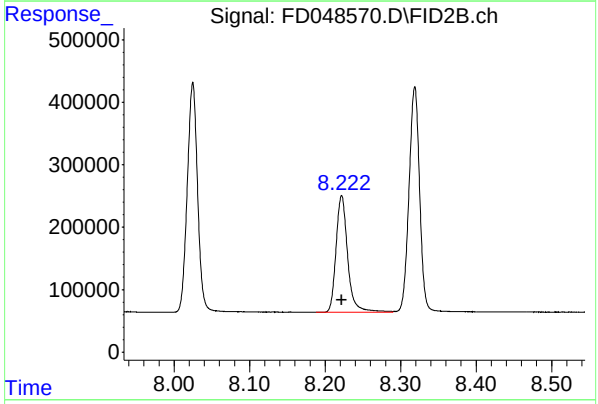
R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 3046545
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

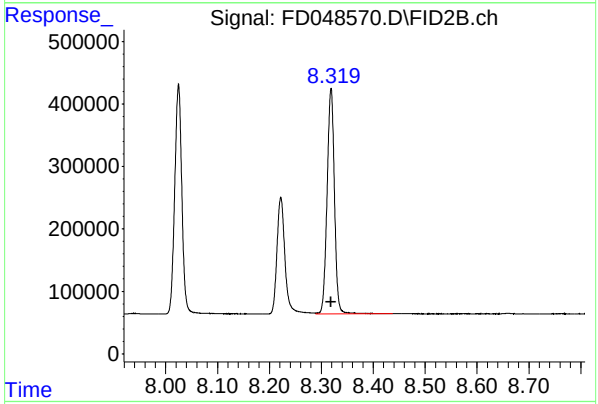
R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 3519888
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



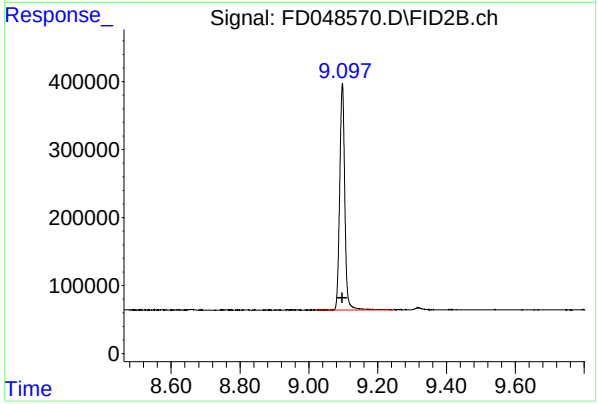
#6 2-Flurobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: 0.000 min
Response: 1998164
Conc: 20.00 ug/ml



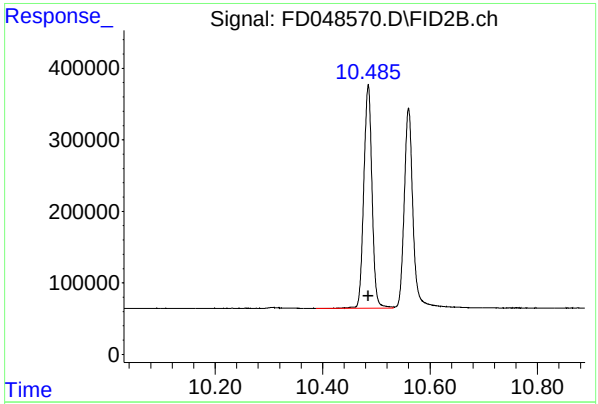
#7 Acenaphthene (C15.5)

R.T.: 8.319 min
Delta R.T.: 0.000 min
Response: 3544868
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

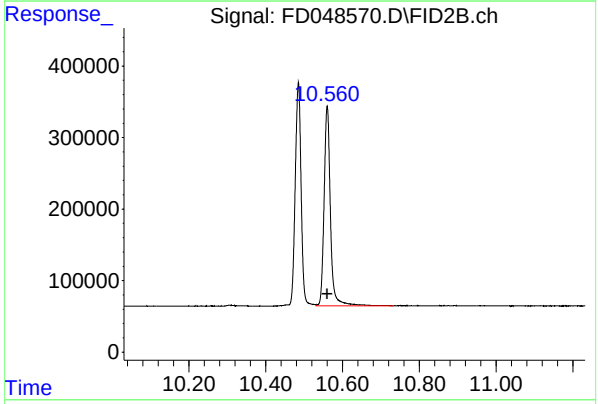
R.T.: 9.097 min
Delta R.T.: 0.000 min
Response: 3404430
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

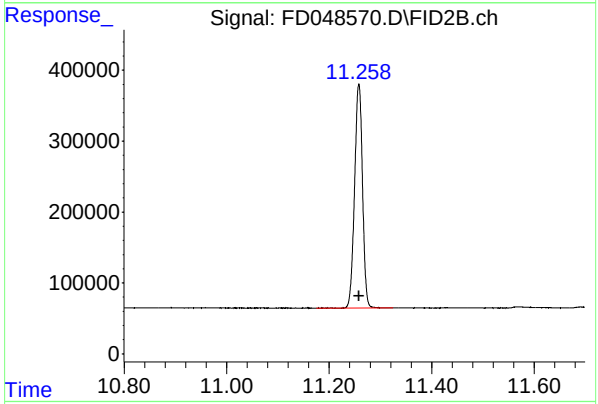
R.T.: 10.485 min
Delta R.T.: 0.000 min
Response: 3327445
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



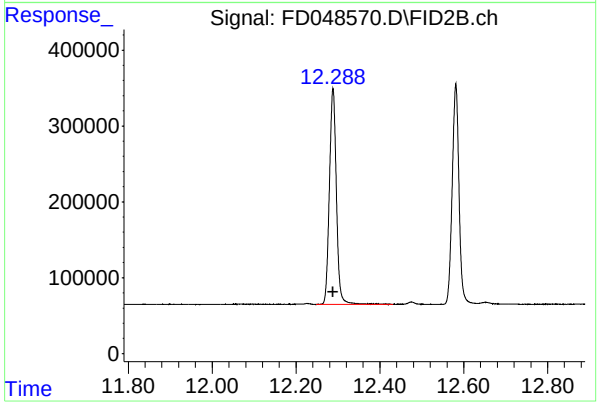
#10 Anthracene (C19.43)

R.T.: 10.560 min
Delta R.T.: 0.000 min
Response: 3212978
Conc: 20.00 ug/ml



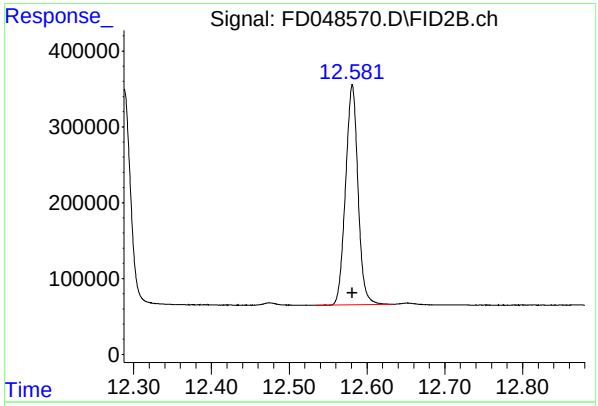
#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.000 min
Response: 3391146
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

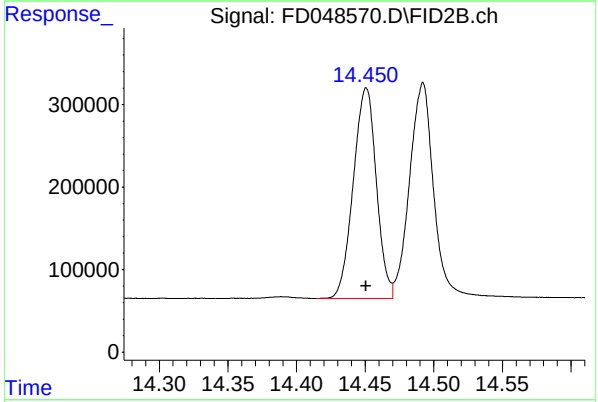
R.T.: 12.288 min
Delta R.T.: 0.000 min
Response: 3291616
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

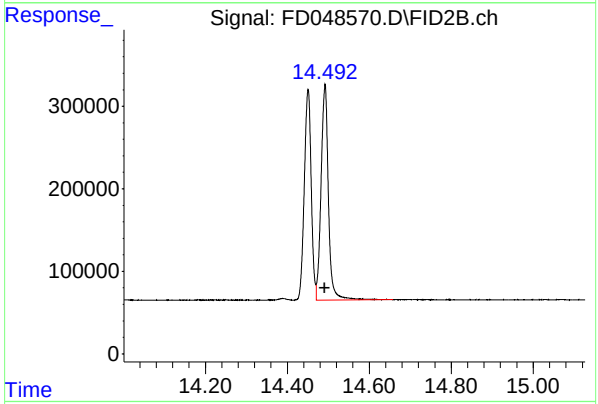
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 3226732
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



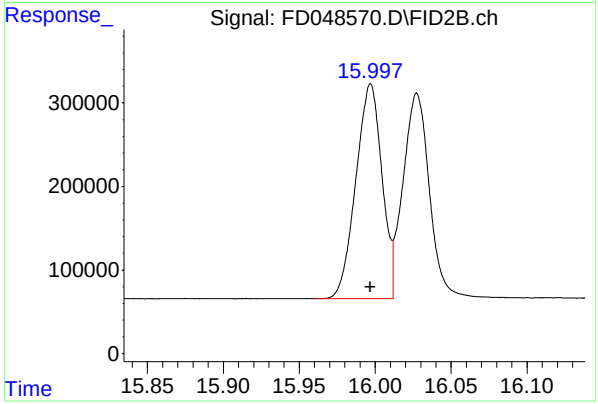
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.451 min
Delta R.T.: 0.000 min
Response: 2984688
Conc: 20.00 ug/ml



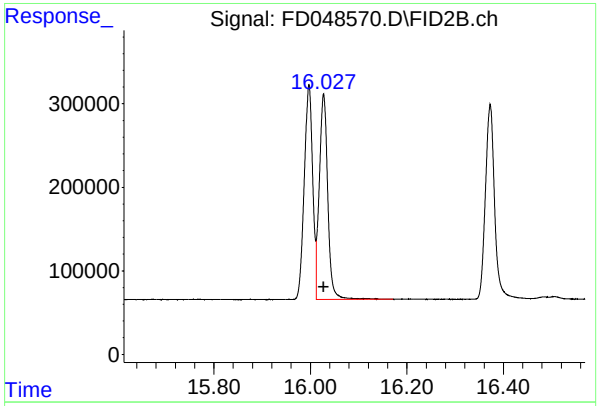
#15 Chrysene (C27.41)

R.T.: 14.492 min
Delta R.T.: 0.000 min
Response: 3250919
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

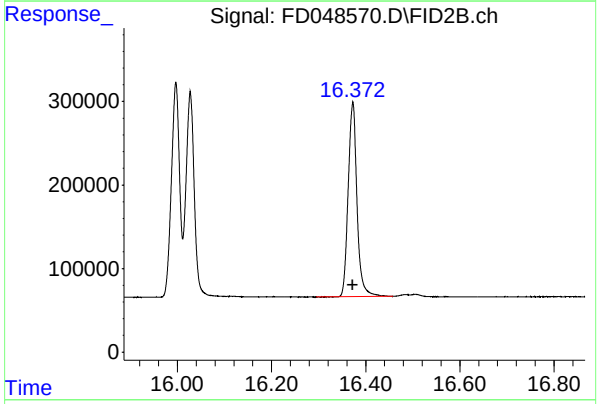
R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 3074553
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

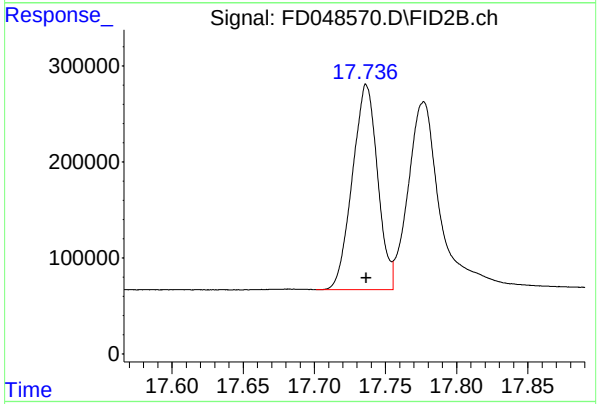
R.T.: 16.027 min
Delta R.T.: 0.000 min
Response: 3023398
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



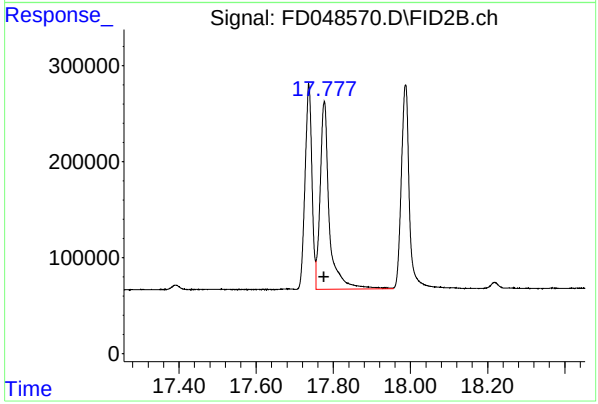
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.372 min
Delta R.T.: 0.000 min
Response: 3026012
Conc: 20.00 ug/ml



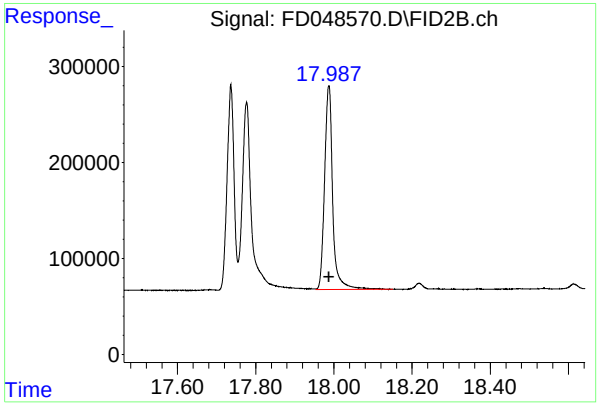
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: 0.000 min
Response: 2636324
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.777 min
Delta R.T.: 0.000 min
Response: 3263027
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.987 min
Delta R.T.: 0.000 mi
Response: 3076637
Conc: 20.00 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048570.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 16:25
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.195	4.161	4.257	BV	402734	3464073	96.28%	5.174%
2	5.713	5.678	5.868	PB	378310	3597996	100.00%	5.374%
3	6.760	6.714	6.884	PV	369607	3595810	99.94%	5.370%
4	7.372	7.284	7.511	BB	309427	3046545	84.67%	4.550%
5	8.025	7.971	8.174	BV	366415	3519888	97.83%	5.257%
6	8.222	8.188	8.290	PV	185974	1998164	55.54%	2.984%
7	8.319	8.290	8.438	VB	358996	3544868	98.52%	5.294%
8	9.097	9.021	9.244	BB	332486	3404430	94.62%	5.084%
9	10.485	10.388	10.531	BV	311516	3327445	92.48%	4.970%
10	10.560	10.531	10.731	VB	280274	3212978	89.30%	4.799%
11	11.258	11.174	11.324	BB	316403	3391146	94.25%	5.065%
12	12.288	12.248	12.431	PB	284432	3291616	91.48%	4.916%
13	12.581	12.534	12.633	PV	290024	3226732	89.68%	4.819%
14	14.451	14.414	14.470	PV	256334	2984688	82.95%	4.458%
15	14.492	14.470	14.658	VB	259225	3250919	90.35%	4.855%
16	15.997	15.961	16.012	BV	257955	3074553	85.45%	4.592%
17	16.027	16.012	16.171	VB	245800	3023398	84.03%	4.515%
18	16.372	16.294	16.458	BV	230365	3026012	84.10%	4.519%
19	17.737	17.701	17.755	BV	213338	2636324	73.27%	3.937%
20	17.777	17.755	17.954	VV	197036	3263027	90.69%	4.873%
21	17.987	17.954	18.151	VB	213971	3076637	85.51%	4.595%
			Sum of corrected areas:			66957247		

Aromatic EPH 102324.M Wed Oct 23 18:18:39 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048571.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 23 17:44:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:44:12 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.373	1535833	10.143 ug/ml
Spiked Amount	50.000		Recovery =	20.29%
6) S	2-Flurobiphenyl (SURR)	8.224	998081	9.973 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	19.95%
11) S	ortho-Terphenyl (SURR)	11.257	1758096	10.404 ug/ml
Spiked Amount	50.000		Recovery =	20.81%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.196	1780007	10.297 ug/ml
2) T	Naphthalene (C11.7)	5.714	1822653	10.186 ug/ml
3) T	2-Methylnaphthalene (...	6.760	1826622	10.197 ug/ml
5) T	Acenaphthylene (C15.06)	8.025	1809718	10.335 ug/ml
7) T	Acenaphthene (C15.5)	8.318	1838643	10.425 ug/ml
8) T	Flouorene (C16.55)	9.098	1719817	10.154 ug/ml
9) T	Phenanthrene (C19.36)	10.484	1680489	10.124 ug/ml
10) T	Anthracene (C19.43)	10.560	1635709	10.260 ug/ml
12) T	Fluoranthene (C21.85)	12.288	1671203	10.236 ug/ml
13) T	Pyrene (C20.8)	12.581	1639022	10.183 ug/ml
14) T	Benzo[a]anthracene (C...	14.450	1472368	9.868 ug/ml
15) T	Chrysene (C27.41)	14.491	1725560	10.700 ug/ml
16) T	benzo[b]fluoranthene ...	15.995	1544713	10.045 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.026	1579300	10.611 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.374	1518079	10.066 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.737	1259393	9.340 ug/ml
20) T	Dibenz[a,h]anthracene...	17.779	1780079	11.209 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.986	1603528	10.461 ug/ml

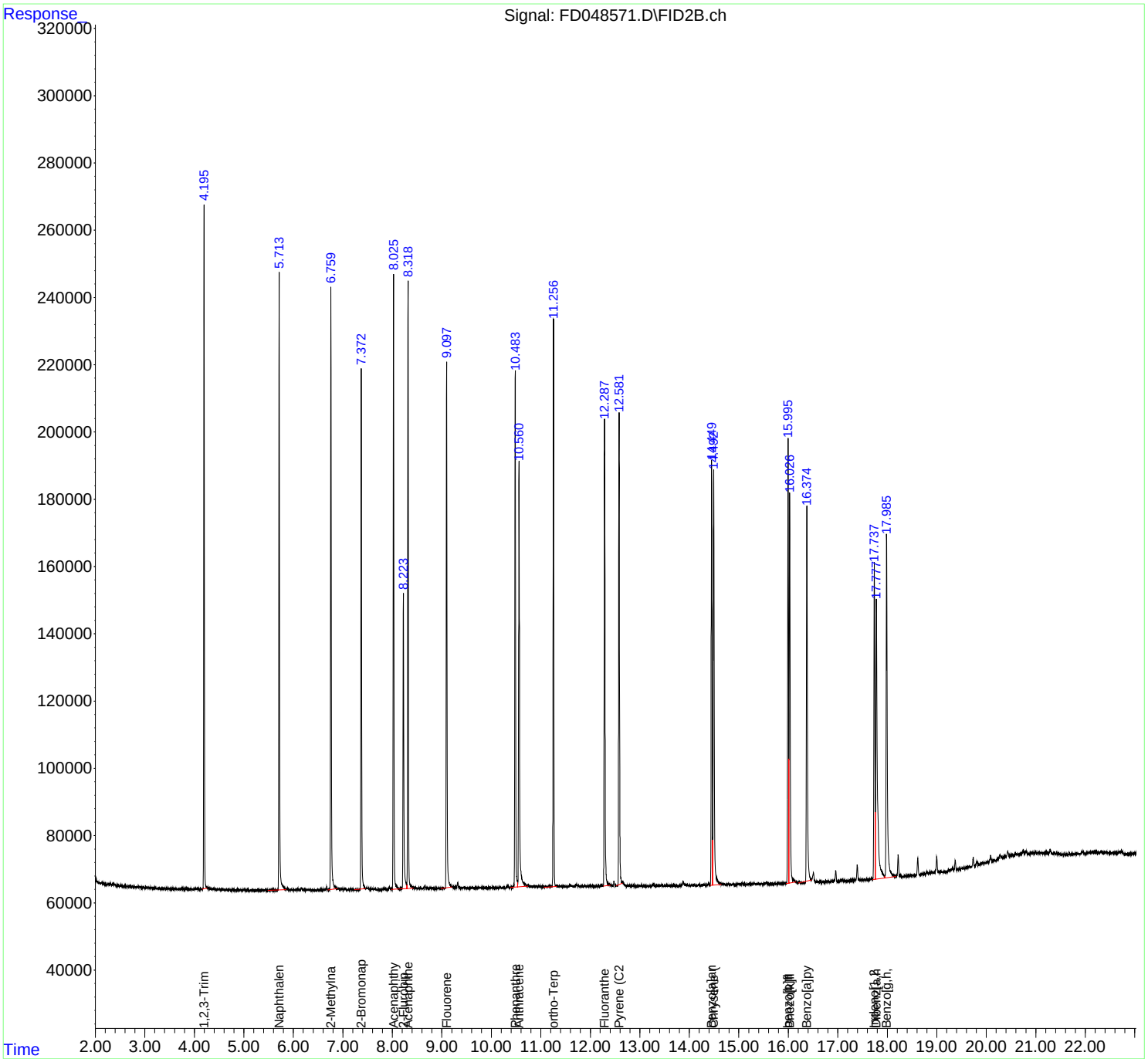
(f)=RT Delta > 1/2 Window (m)=manual int.

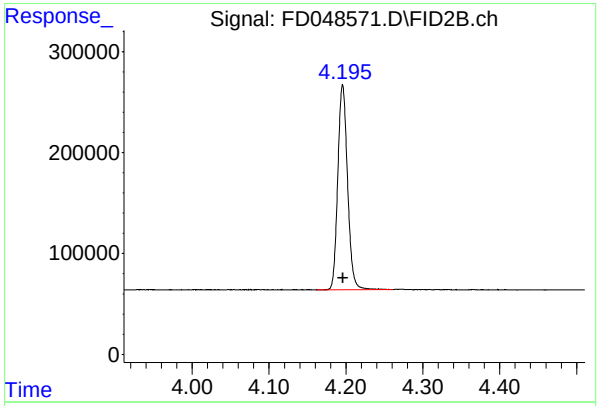
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048571.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:02
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 23 17:44:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 17:44:12 2024
Response via : Initial Calibration
Integrator: ChemStation

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

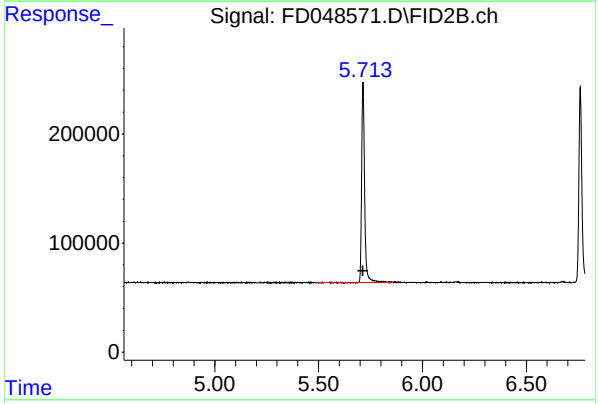




#1 1,2,3-Trimethylbenzene (C10.1)

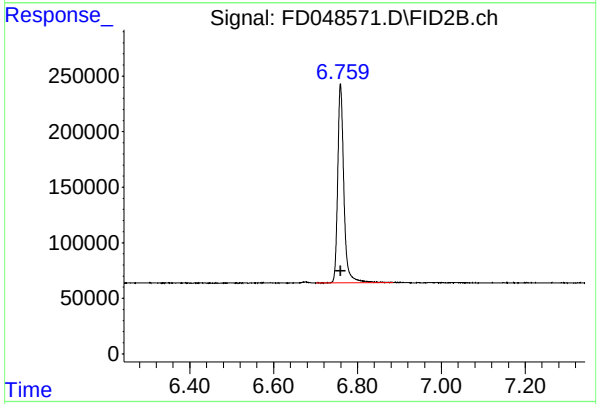
R.T.: 4.196 min
Delta R.T.: 0.000 min
Response: 1780007
Conc: 10.30 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



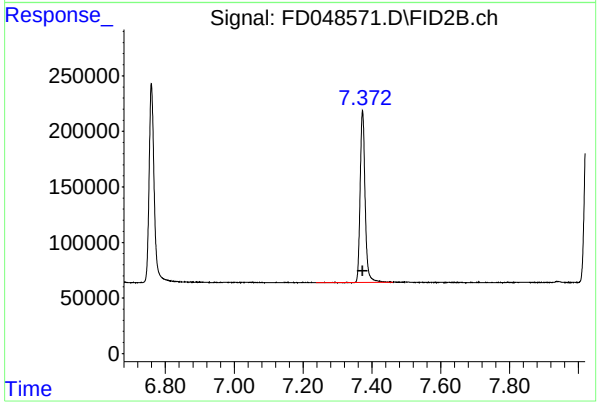
#2 Naphthalene (C11.7)

R.T.: 5.714 min
Delta R.T.: 0.000 min
Response: 1822653
Conc: 10.19 ug/ml



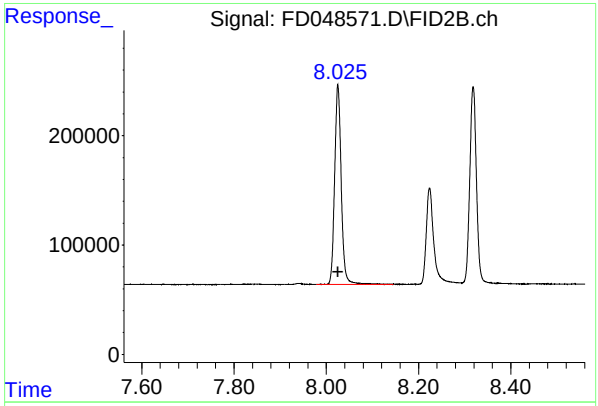
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.760 min
Delta R.T.: 0.000 min
Response: 1826622
Conc: 10.20 ug/ml



#4 2-Bromonaphthalene (SURR)

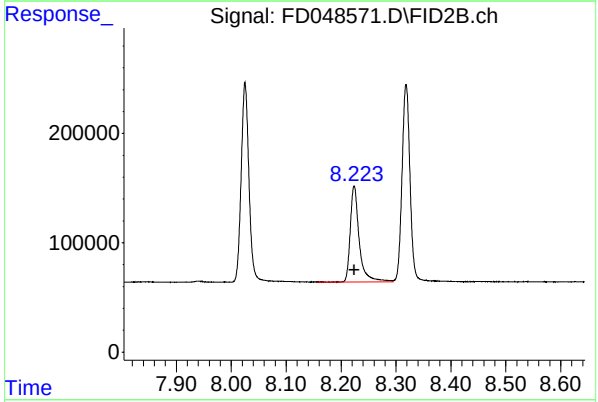
R.T.: 7.373 min
Delta R.T.: 0.000 min
Response: 1535833
Conc: 10.14 ug/ml



#5 Acenaphthylene (C15.06)

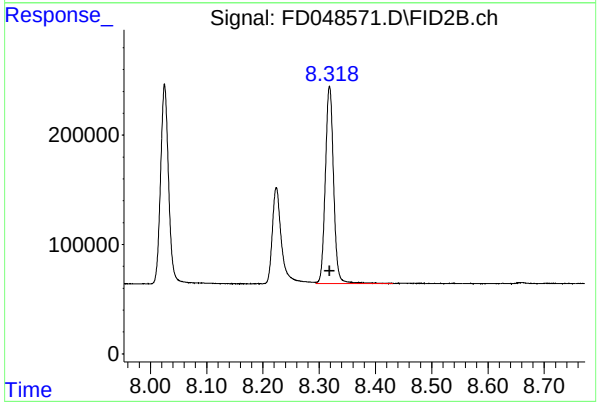
R.T.: 8.025 min
Delta R.T.: 0.000 min
Response: 1809718
Conc: 10.34 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



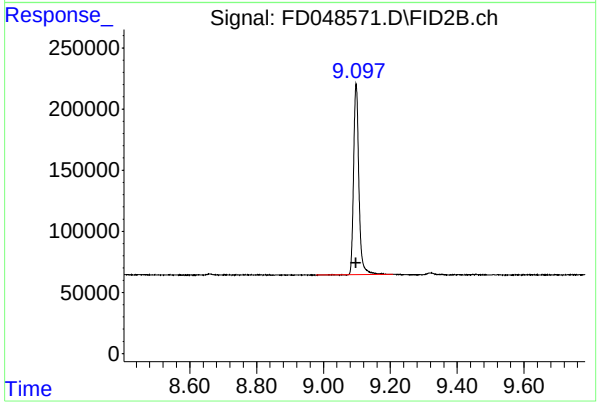
#6 2-Flurobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: 0.000 min
Response: 998081
Conc: 9.97 ug/ml



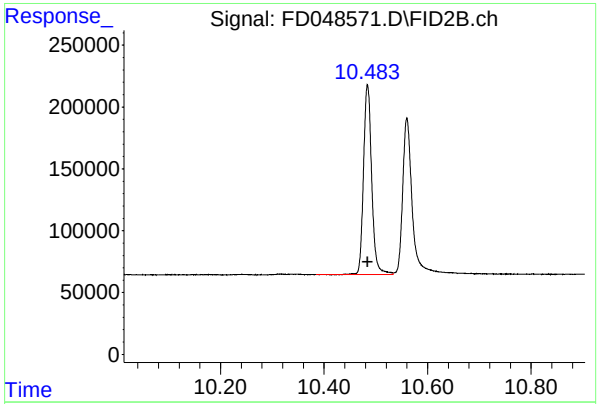
#7 Acenaphthene (C15.5)

R.T.: 8.318 min
Delta R.T.: 0.000 min
Response: 1838643
Conc: 10.43 ug/ml



#8 Flouorene (C16.55)

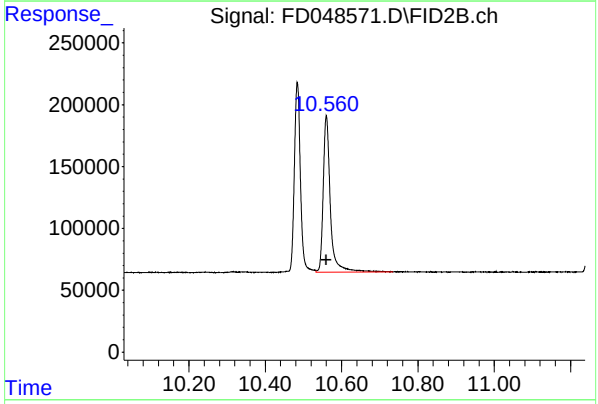
R.T.: 9.098 min
Delta R.T.: 0.000 min
Response: 1719817
Conc: 10.15 ug/ml



#9 Phenanthrene (C19.36)

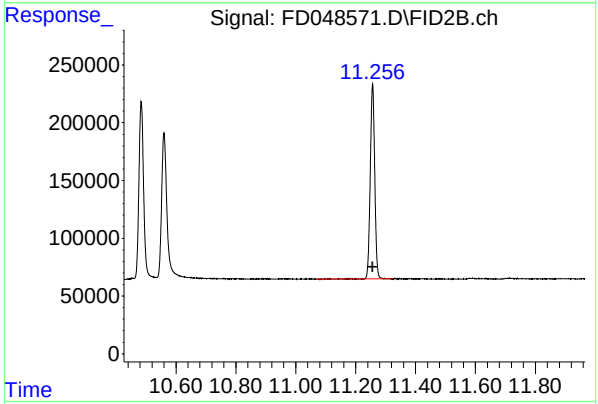
R.T.: 10.484 min
Delta R.T.: 0.000 min
Response: 1680489
Conc: 10.12 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



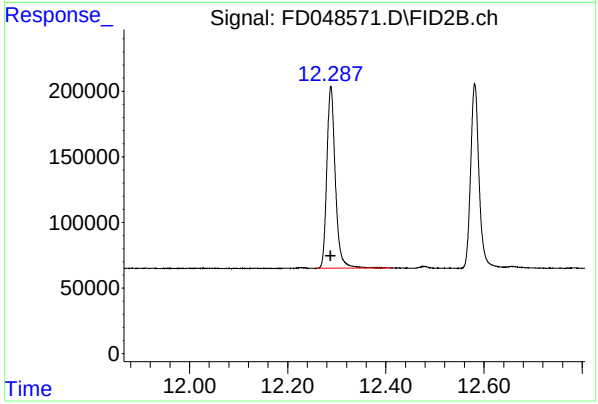
#10 Anthracene (C19.43)

R.T.: 10.560 min
Delta R.T.: 0.000 min
Response: 1635709
Conc: 10.26 ug/ml



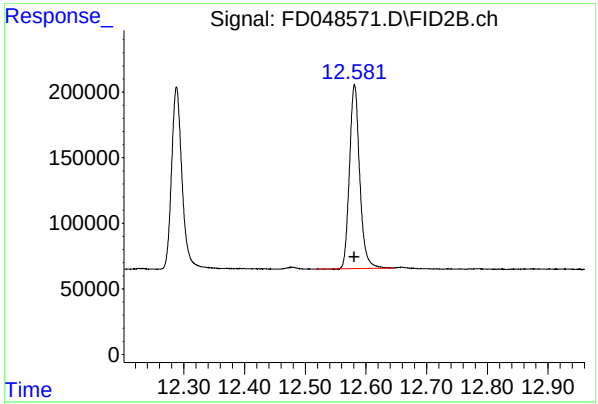
#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.000 min
Response: 1758096
Conc: 10.40 ug/ml



#12 Fluoranthene (C21.85)

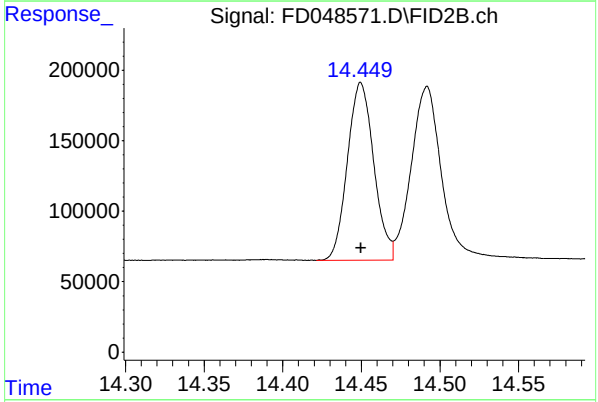
R.T.: 12.288 min
Delta R.T.: 0.000 min
Response: 1671203
Conc: 10.24 ug/ml



#13 Pyrene (C20.8)

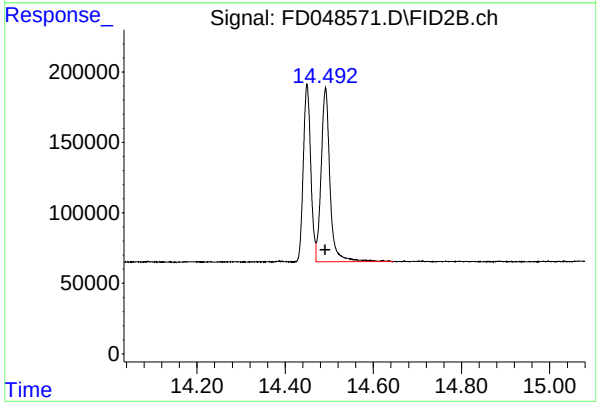
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 1639022
Conc: 10.18 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



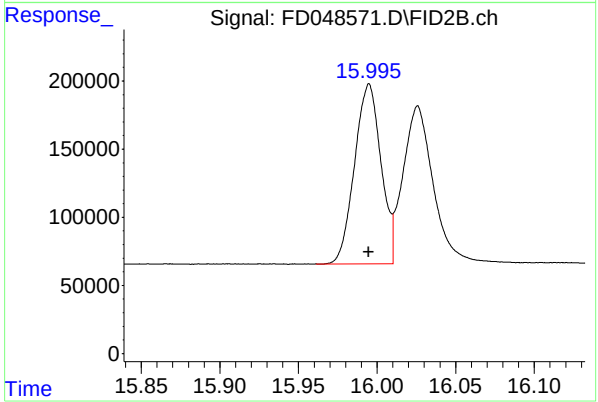
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: 0.000 min
Response: 1472368
Conc: 9.87 ug/ml



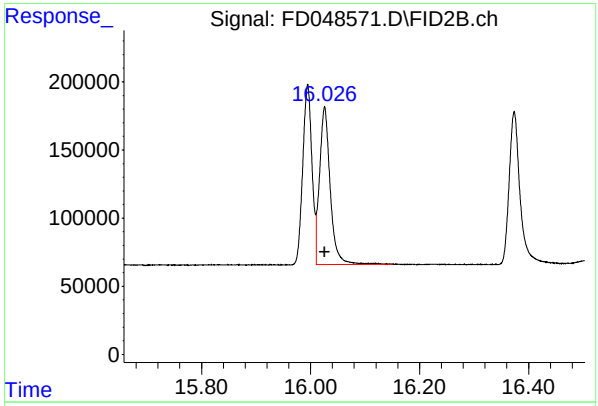
#15 Chrysene (C27.41)

R.T.: 14.491 min
Delta R.T.: 0.000 min
Response: 1725560
Conc: 10.70 ug/ml



#16 benzo[b]fluoranthene (C30.41)

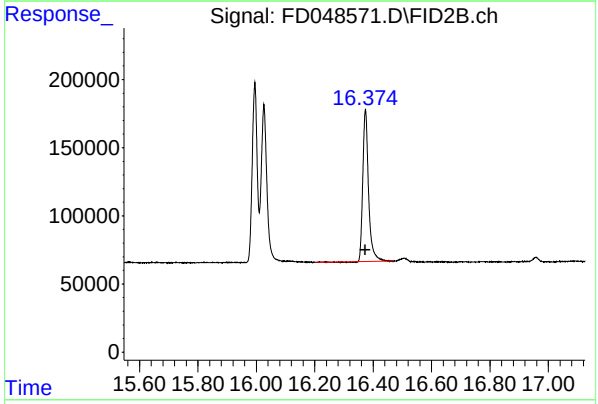
R.T.: 15.995 min
Delta R.T.: 0.000 min
Response: 1544713
Conc: 10.04 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

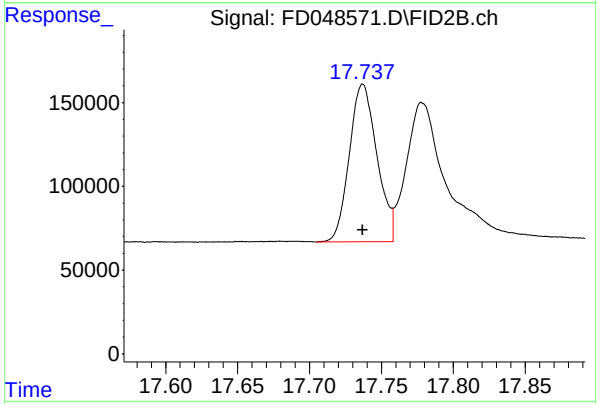
R.T.: 16.026 min
Delta R.T.: 0.000 min
Response: 1579300
Conc: 10.61 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



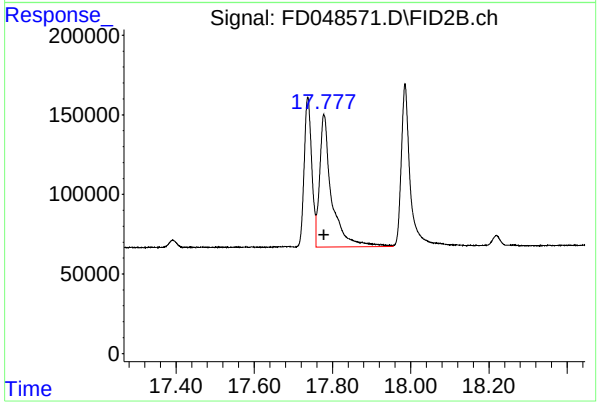
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.374 min
Delta R.T.: 0.000 min
Response: 1518079
Conc: 10.07 ug/ml



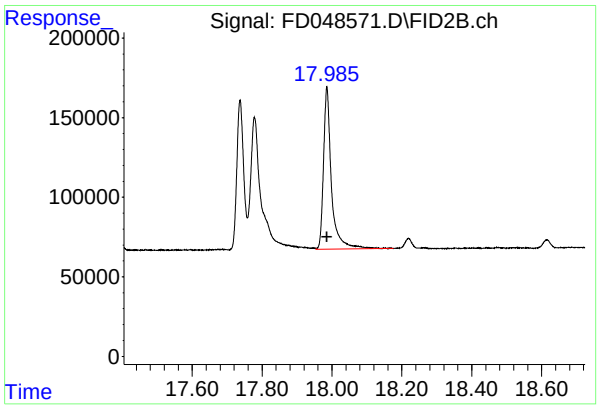
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: 0.000 min
Response: 1259393
Conc: 9.34 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.779 min
Delta R.T.: 0.000 min
Response: 1780079
Conc: 11.21 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.986 min
Delta R.T.: 0.000 mi
Response: 1603528
Conc: 10.46 ug/m

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048571.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:02
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.196	4.161	4.261	BV	201703	1780007	96.81%	5.205%
2	5.714	5.488	5.858	BB	181375	1822653	99.13%	5.330%
3	6.760	6.701	6.885	BB	175216	1826622	99.35%	5.341%
4	7.373	7.238	7.461	BB	154245	1535833	83.53%	4.491%
5	8.025	7.978	8.145	BB	181606	1809718	98.43%	5.292%
6	8.224	8.155	8.295	BV	87703	998081	54.28%	2.918%
7	8.318	8.295	8.431	VV	180640	1838643	100.00%	5.376%
8	9.098	8.978	9.208	BB	155949	1719817	93.54%	5.029%
9	10.484	10.385	10.533	BV	153275	1680489	91.40%	4.914%
10	10.560	10.533	10.735	VB	125868	1635709	88.96%	4.783%
11	11.257	11.068	11.325	BB	168238	1758096	95.62%	5.141%
12	12.288	12.258	12.415	BB	138726	1671203	90.89%	4.887%
13	12.581	12.518	12.645	BV	140018	1639022	89.14%	4.793%
14	14.450	14.421	14.470	PV	124977	1472368	80.08%	4.305%
15	14.491	14.470	14.645	VB	122848	1725560	93.85%	5.046%
16	15.995	15.961	16.010	BV	131640	1544713	84.01%	4.517%
17	16.026	16.010	16.151	VB	114804	1579300	85.89%	4.618%
18	16.374	16.205	16.468	BV	111460	1518079	82.57%	4.439%
19	17.737	17.705	17.758	BV	94271	1259393	68.50%	3.683%
20	17.779	17.758	17.955	VV	83223	1780079	96.81%	5.205%
21	17.986	17.955	18.175	VB	101691	1603528	87.21%	4.689%
			Sum of corrected areas:			34198912		

Aromatic EPH 102324.M Wed Oct 23 18:19:08 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048572.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 23 18:14:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.375	765966	5.047 ug/ml
Spiked Amount	50.000		Recovery =	10.09%
6) S	2-Flurobiphenyl (SURR)	8.228	453280	4.616 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	9.23%
11) S	ortho-Terphenyl (SURR)	11.257	878976	5.160 ug/ml
Spiked Amount	50.000		Recovery =	10.32%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.197	891941	5.127 ug/ml
2) T	Naphthalene (C11.7)	5.716	882030	4.943 ug/ml
3) T	2-Methylnaphthalene (...	6.762	888953	4.970 ug/ml
5) T	Acenaphthylene (C15.06)	8.026	887785	5.056 ug/ml
7) T	Acenaphthene (C15.5)	8.319	906880	5.113 ug/ml
8) T	Flouorene (C16.55)	9.101	838419	4.960 ug/ml
9) T	Phenanthrene (C19.36)	10.487	812730	4.917 ug/ml
10) T	Anthracene (C19.43)	10.565	809302	5.061 ug/ml
12) T	Fluoranthene (C21.85)	12.291	849157	5.160 ug/ml
13) T	Pyrene (C20.8)	12.583	807675	5.014 ug/ml
14) T	Benzo[a]anthracene (C...	14.453	671281	4.591 ug/ml
15) T	Chrysene (C27.41)	14.493	886842	5.391 ug/ml
16) T	benzo[b]fluoranthene ...	15.998	725025	4.769 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.030	780831	5.195 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.381	746043	4.957 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.744	565150	4.331 ug/ml
20) T	Dibenz[a,h]anthracene...	17.787	892102	5.482 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.990	761556	4.974 ug/ml

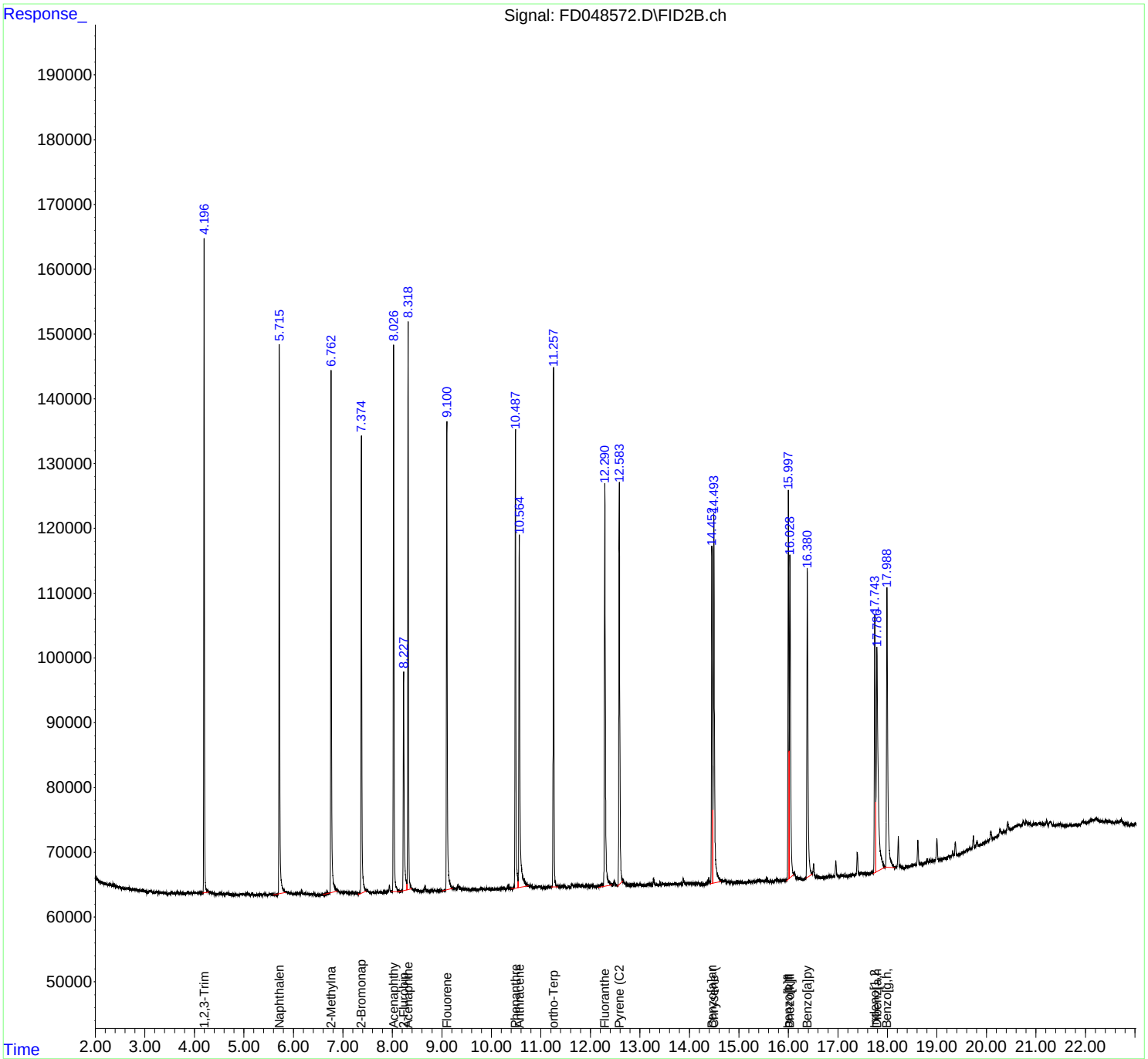
(f)=RT Delta > 1/2 Window (m)=manual int.

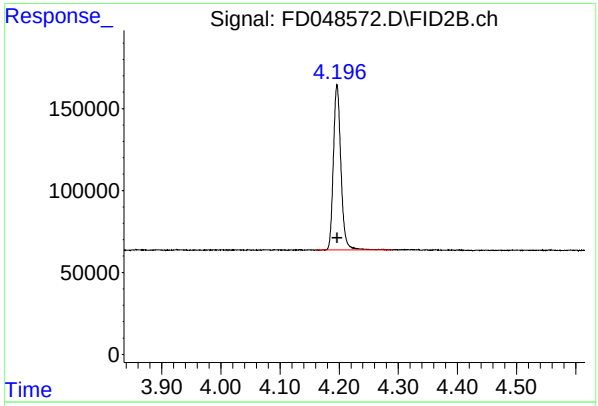
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048572.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:38
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 23 18:14:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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

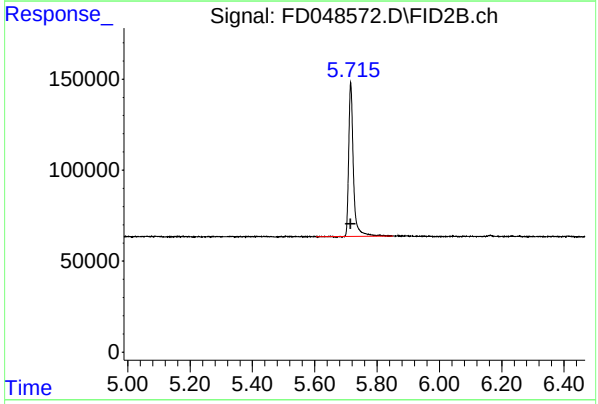




#1 1,2,3-Trimethylbenzene (C10.1)

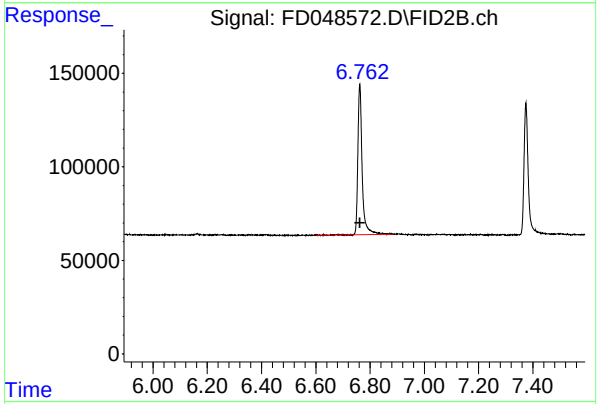
R.T.: 4.197 min
Delta R.T.: 0.000 min
Response: 891941
Conc: 5.13 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



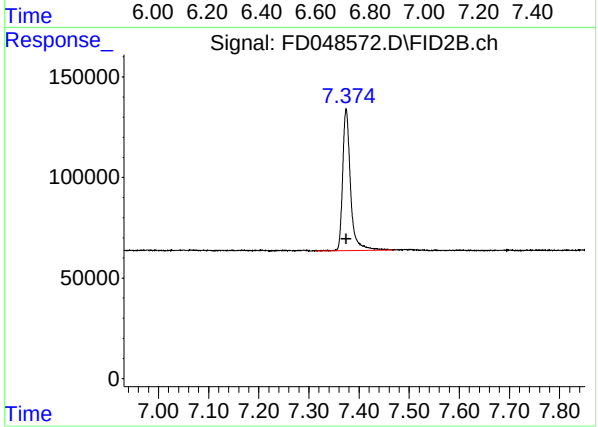
#2 Naphthalene (C11.7)

R.T.: 5.716 min
Delta R.T.: 0.000 min
Response: 882030
Conc: 4.94 ug/ml



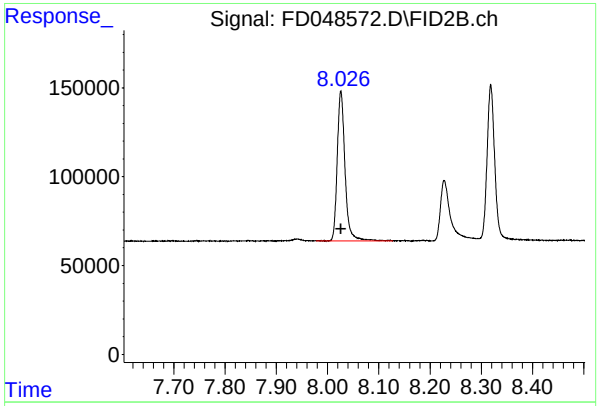
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.762 min
Delta R.T.: 0.000 min
Response: 888953
Conc: 4.97 ug/ml



#4 2-Bromonaphthalene (SURR)

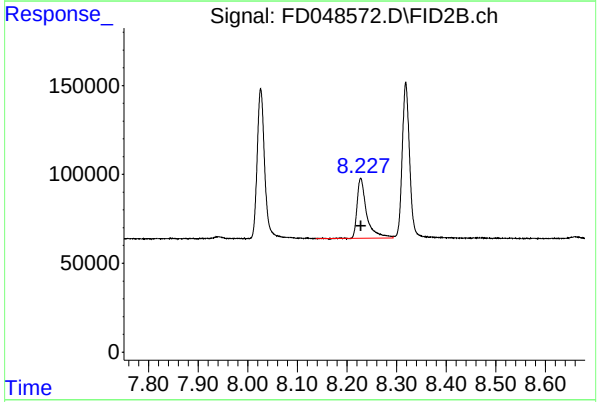
R.T.: 7.375 min
Delta R.T.: 0.000 min
Response: 765966
Conc: 5.05 ug/ml



#5 Acenaphthylene (C15.06)

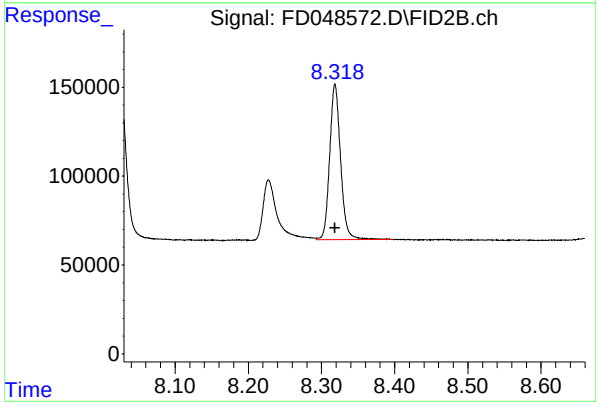
R.T.: 8.026 min
Delta R.T.: 0.000 min
Response: 887785
Conc: 5.06 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



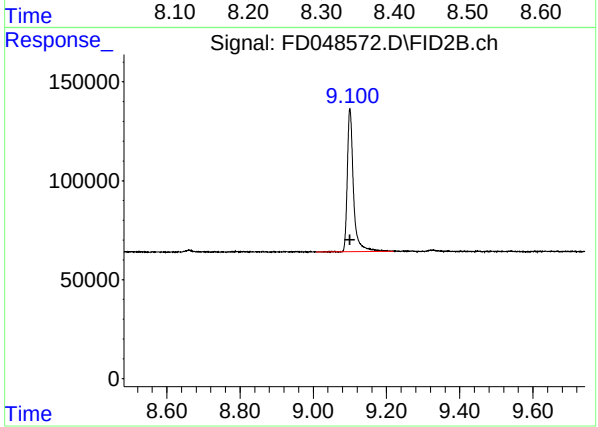
#6 2-Flurobiphenyl (SURR)

R.T.: 8.228 min
Delta R.T.: 0.000 min
Response: 453280
Conc: 4.62 ug/ml



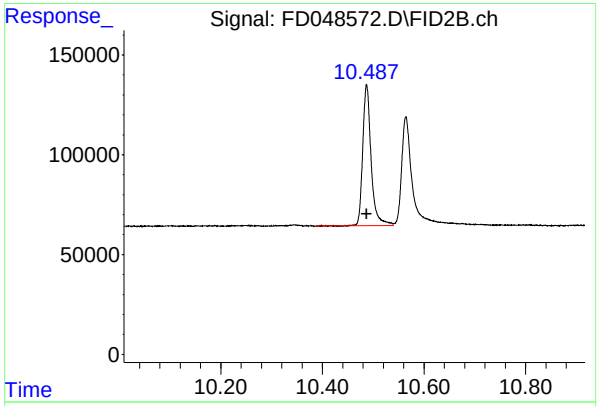
#7 Acenaphthene (C15.5)

R.T.: 8.319 min
Delta R.T.: 0.000 min
Response: 906880
Conc: 5.11 ug/ml



#8 Flouorene (C16.55)

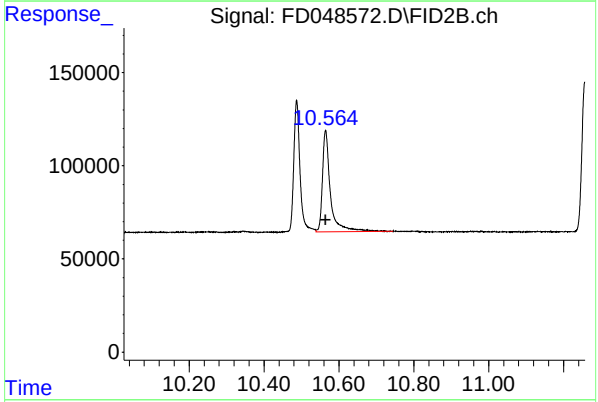
R.T.: 9.101 min
Delta R.T.: 0.000 min
Response: 838419
Conc: 4.96 ug/ml



#9 Phenanthrene (C19.36)

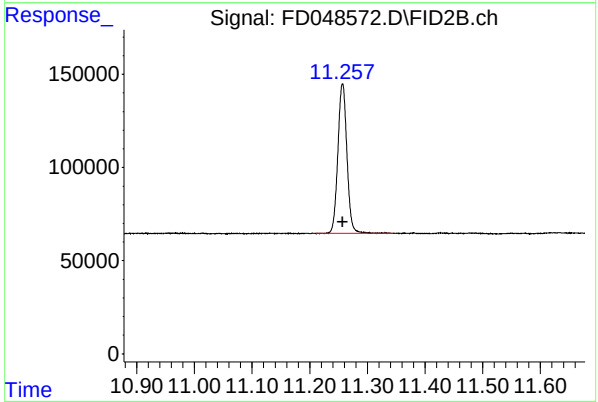
R.T.: 10.487 min
Delta R.T.: 0.000 min
Response: 812730
Conc: 4.92 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



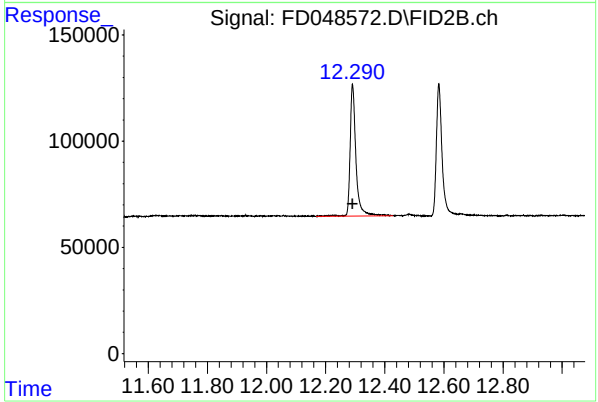
#10 Anthracene (C19.43)

R.T.: 10.565 min
Delta R.T.: 0.000 min
Response: 809302
Conc: 5.06 ug/ml



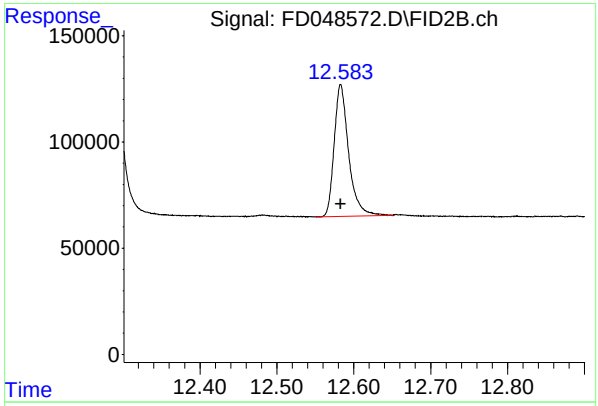
#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.000 min
Response: 878976
Conc: 5.16 ug/ml



#12 Fluoranthene (C21.85)

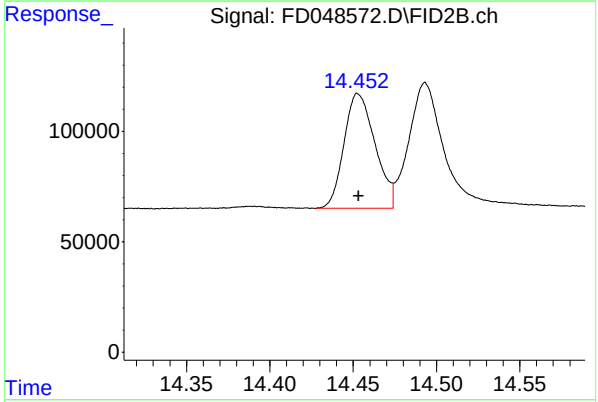
R.T.: 12.291 min
Delta R.T.: 0.000 min
Response: 849157
Conc: 5.16 ug/ml



#13 Pyrene (C20.8)

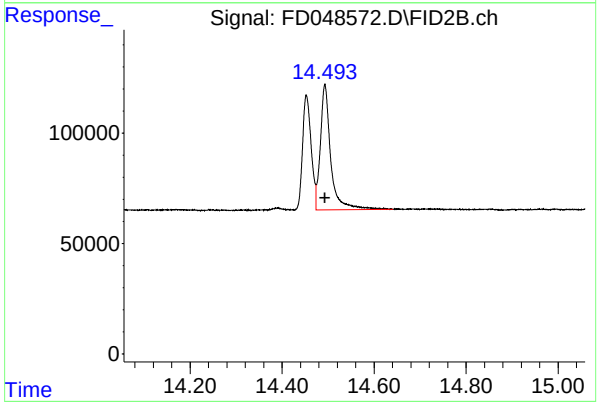
R.T.: 12.583 min
Delta R.T.: 0.000 min
Response: 807675
Conc: 5.01 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



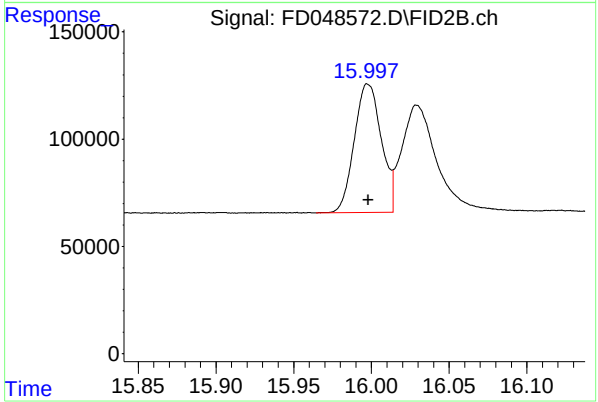
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.453 min
Delta R.T.: 0.000 min
Response: 671281
Conc: 4.59 ug/ml



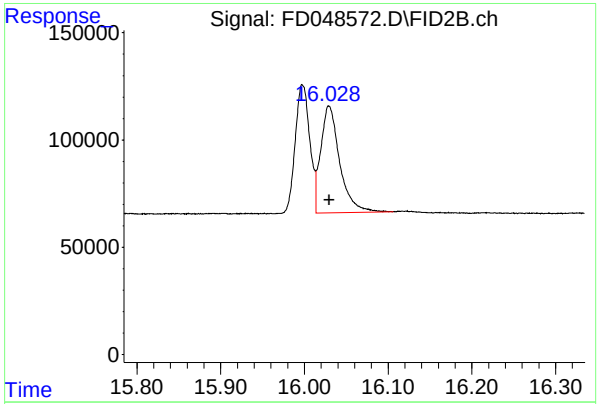
#15 Chrysene (C27.41)

R.T.: 14.493 min
Delta R.T.: 0.000 min
Response: 886842
Conc: 5.39 ug/ml



#16 benzo[b]fluoranthene (C30.41)

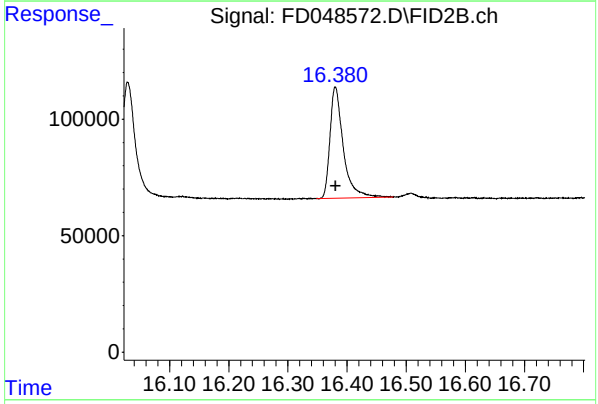
R.T.: 15.998 min
Delta R.T.: 0.000 min
Response: 725025
Conc: 4.77 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

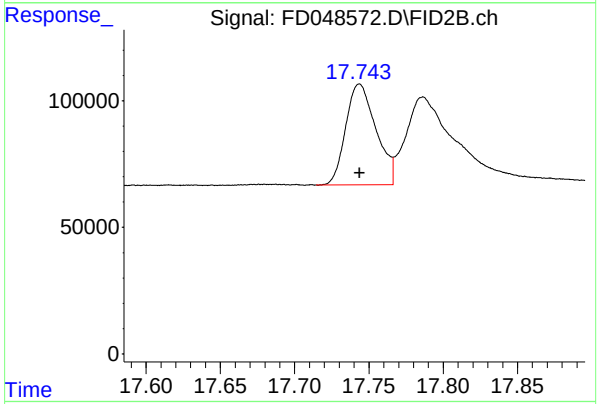
R.T.: 16.030 min
Delta R.T.: 0.000 min
Response: 780831
Conc: 5.20 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



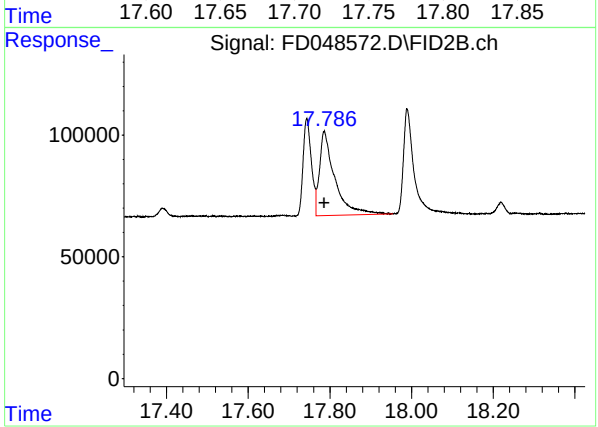
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.381 min
Delta R.T.: 0.000 min
Response: 746043
Conc: 4.96 ug/ml



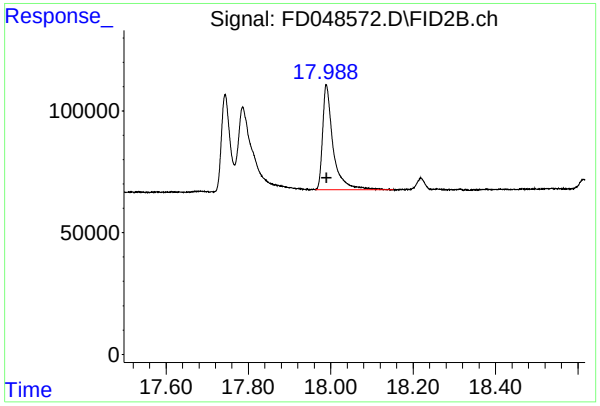
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.744 min
Delta R.T.: 0.000 min
Response: 565150
Conc: 4.33 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.787 min
Delta R.T.: 0.000 min
Response: 892102
Conc: 5.48 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.990 min
Delta R.T.: 0.000 mi
Response: 761556
Conc: 4.97 ug/m

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048572.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 17:38
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.197	4.161	4.291	BB	99856	891941	98.35%	5.340%
2	5.716	5.604	5.851	BB	84500	882030	97.26%	5.281%
3	6.762	6.601	6.884	BB	80288	888953	98.02%	5.322%
4	7.375	7.314	7.468	BB	70282	765966	84.46%	4.586%
5	8.026	7.978	8.128	BB	83372	887785	97.89%	5.315%
6	8.228	8.138	8.293	BV	33723	453280	49.98%	2.714%
7	8.319	8.293	8.398	VB	87190	906880	100.00%	5.430%
8	9.101	9.008	9.218	BB	71759	838419	92.45%	5.020%
9	10.487	10.388	10.539	BV	70612	812730	89.62%	4.866%
10	10.565	10.539	10.744	VB	54403	809302	89.24%	4.846%
11	11.257	11.211	11.344	BB	80592	878976	96.92%	5.263%
12	12.291	12.168	12.428	BB	61860	849157	93.64%	5.084%
13	12.583	12.551	12.651	BV	61467	807675	89.06%	4.836%
14	14.453	14.428	14.474	PV	51289	671281	74.02%	4.019%
15	14.493	14.474	14.641	VB	56549	886842	97.79%	5.310%
16	15.998	15.964	16.014	BV	60013	725025	79.95%	4.341%
17	16.030	16.014	16.106	VV	49388	780831	86.10%	4.675%
18	16.381	16.348	16.478	BV	47621	746043	82.26%	4.467%
19	17.744	17.714	17.766	BV	39855	565150	62.32%	3.384%
20	17.787	17.766	17.954	VB	34397	892102	98.37%	5.341%
21	17.990	17.964	18.151	BB	42474	761556	83.98%	4.560%
			Sum of corrected areas:			16701921		

Aromatic EPH 102324.M Wed Oct 23 18:19:26 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048573.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 23 18:50:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.372	3035391	19.999 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.222	2009011	20.460 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.92%
11) S	ortho-Terphenyl (SURR)	11.258	3418196	20.067 ug/ml
Spiked Amount	50.000		Recovery =	40.13%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.195	3511974	20.187 ug/ml
2) T	Naphthalene (C11.7)	5.713	3621999	20.299 ug/ml
3) T	2-Methylnaphthalene (...	6.760	3629138	20.290 ug/ml
5) T	Acenaphthylene (C15.06)	8.025	3549708	20.216 ug/ml
7) T	Acenaphthene (C15.5)	8.319	3566386	20.108 ug/ml
8) T	Flouorene (C16.55)	9.098	3449130	20.405 ug/ml
9) T	Phenanthrene (C19.36)	10.485	3337748	20.191 ug/ml
10) T	Anthracene (C19.43)	10.560	3166872	19.804 ug/ml
12) T	Fluoranthene (C21.85)	12.288	3304952	20.082 ug/ml
13) T	Pyrene (C20.8)	12.581	3231023	20.059 ug/ml
14) T	Benzo[a]anthracene (C...	14.450	2986450	20.425 ug/ml
15) T	Chrysene (C27.41)	14.492	3268283	19.869 ug/ml
16) T	benzo[b]fluoranthene ...	15.997	3076351	20.235 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.029	3007230	20.008 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.372	3055729	20.304 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.737	2639364	20.228 ug/ml
20) T	Dibenz[a,h]anthracene...	17.776	3309486	20.337 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.987	3030209	19.793 ug/ml

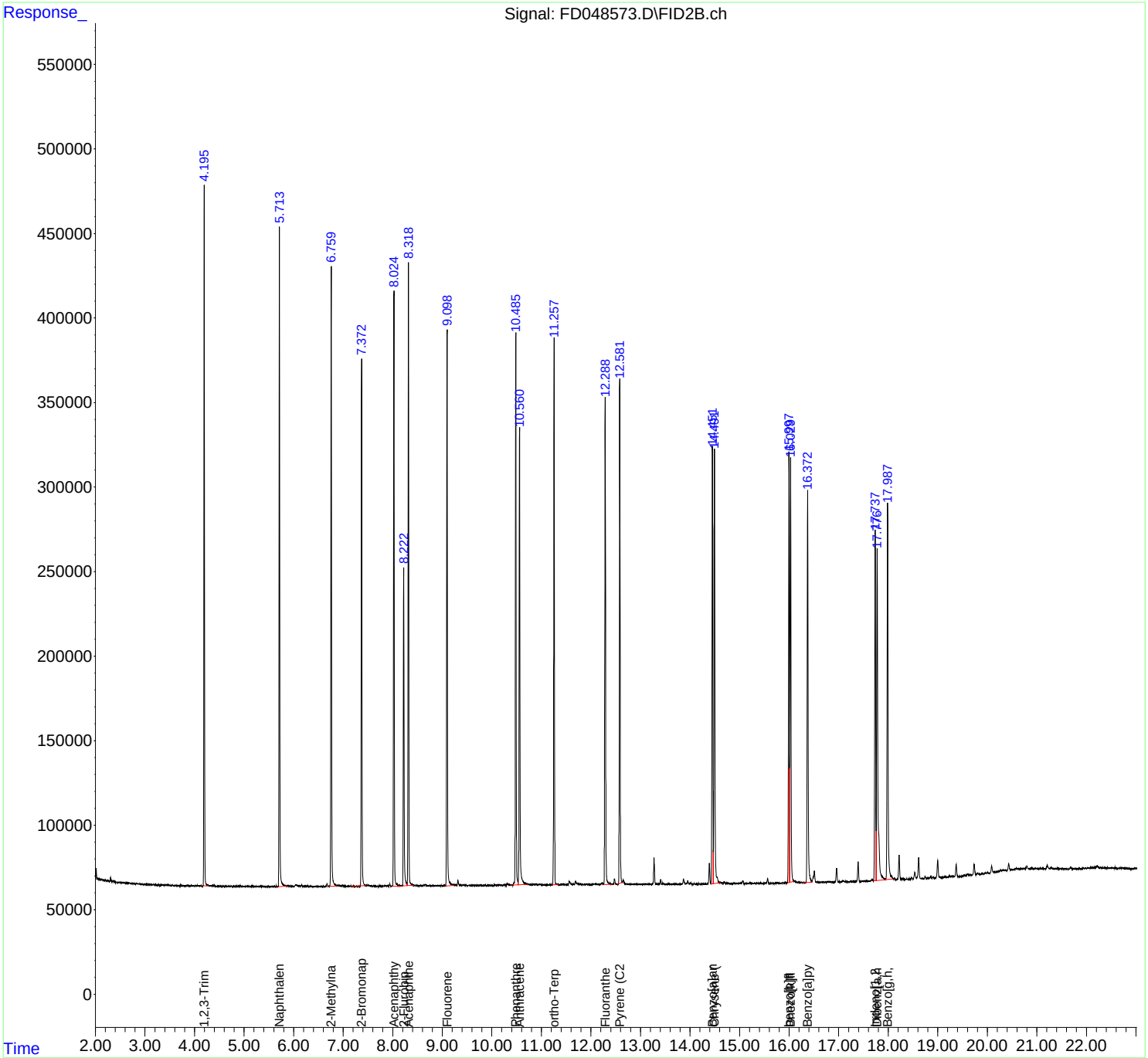
(f)=RT Delta > 1/2 Window (m)=manual int.

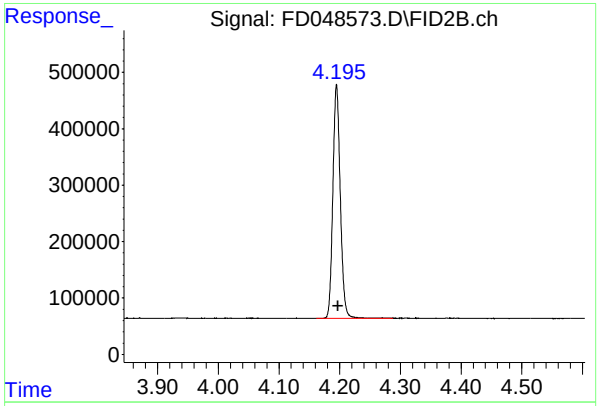
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048573.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 18:14
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 23 18:50:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

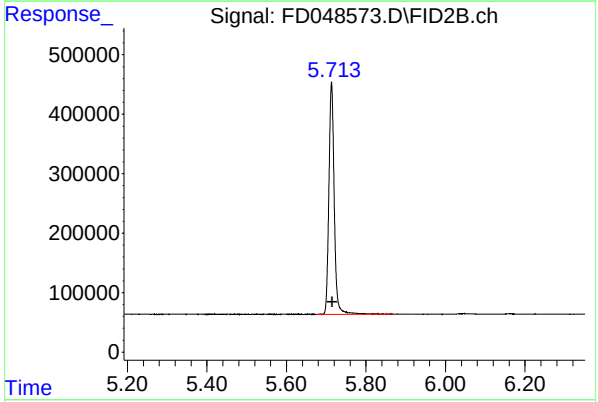




#1 1,2,3-Trimethylbenzene (C10.1)

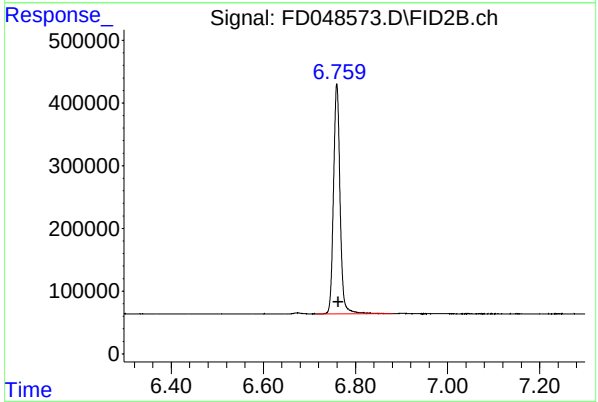
R.T.: 4.195 min
Delta R.T.: -0.002 min
Response: 3511974
Conc: 20.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



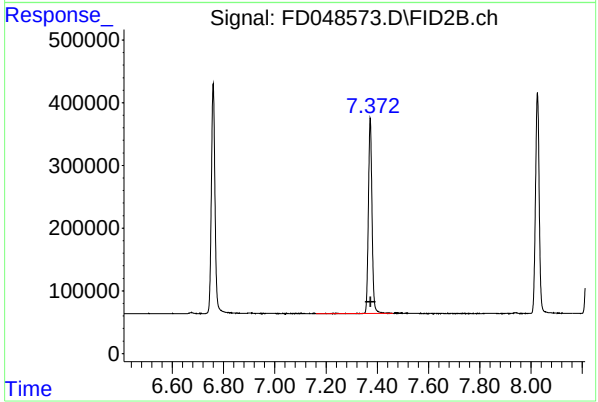
#2 Naphthalene (C11.7)

R.T.: 5.713 min
Delta R.T.: -0.002 min
Response: 3621999
Conc: 20.30 ug/ml



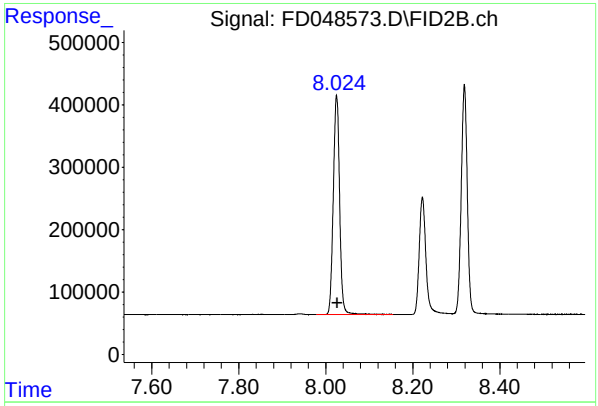
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.760 min
Delta R.T.: -0.003 min
Response: 3629138
Conc: 20.29 ug/ml



#4 2-Bromonaphthalene (SURR)

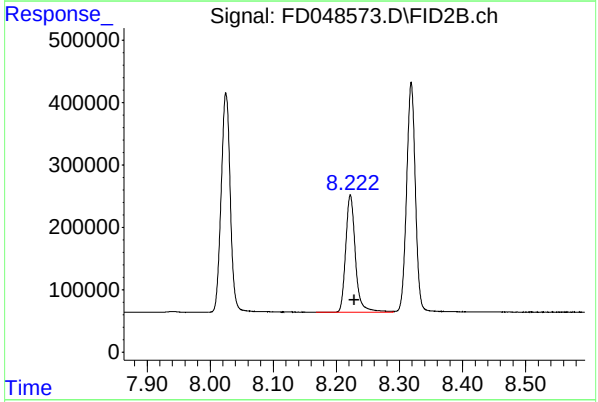
R.T.: 7.372 min
Delta R.T.: -0.002 min
Response: 3035391
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

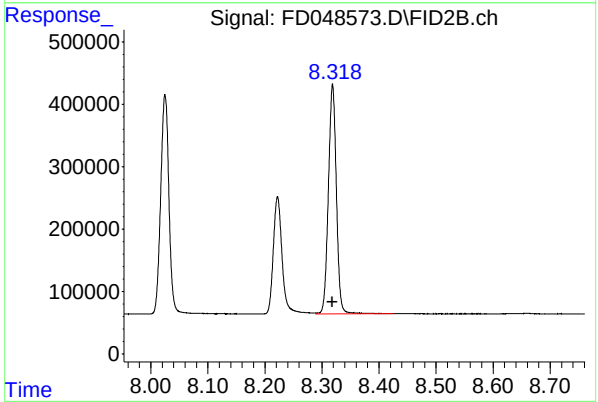
R.T.: 8.025 min
Delta R.T.: -0.001 min
Response: 3549708
Conc: 20.22 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



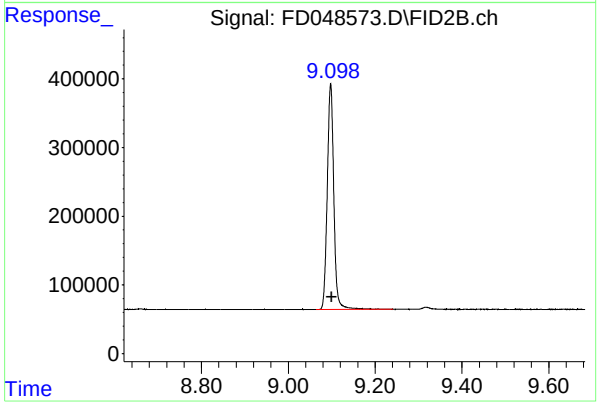
#6 2-Flurobiphenyl (SURR)

R.T.: 8.222 min
Delta R.T.: -0.006 min
Response: 2009011
Conc: 20.46 ug/ml



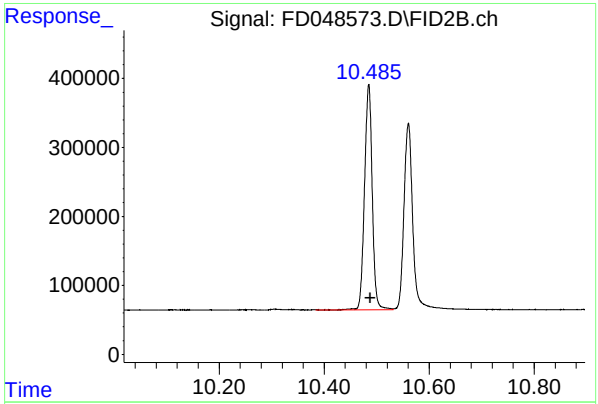
#7 Acenaphthene (C15.5)

R.T.: 8.319 min
Delta R.T.: 0.000 min
Response: 3566386
Conc: 20.11 ug/ml



#8 Flouorene (C16.55)

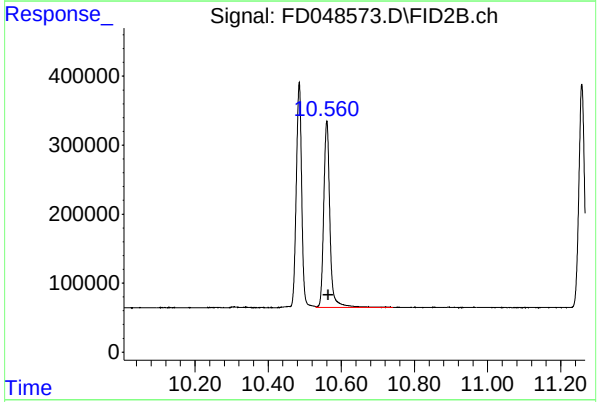
R.T.: 9.098 min
Delta R.T.: -0.003 min
Response: 3449130
Conc: 20.40 ug/ml



#9 Phenanthrene (C19.36)

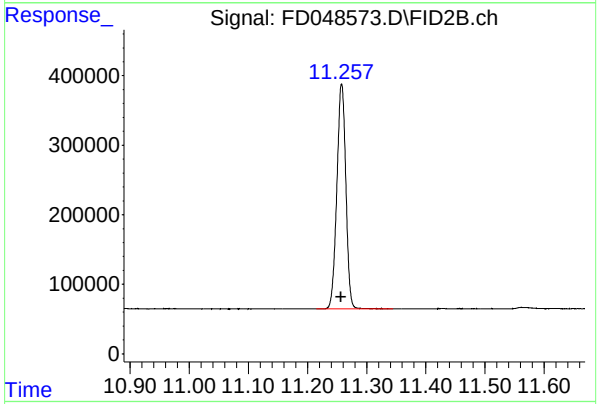
R.T.: 10.485 min
Delta R.T.: -0.003 min
Response: 3337748
Conc: 20.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



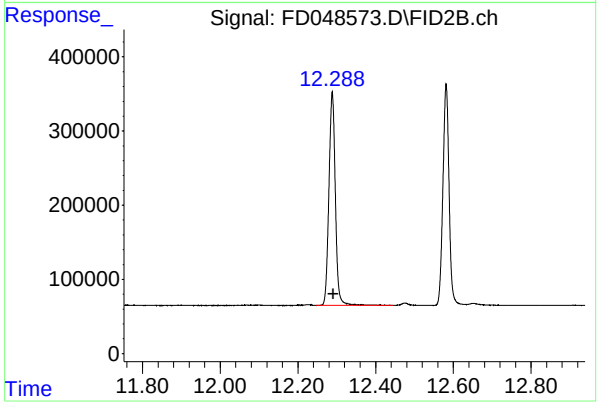
#10 Anthracene (C19.43)

R.T.: 10.560 min
Delta R.T.: -0.004 min
Response: 3166872
Conc: 19.80 ug/ml



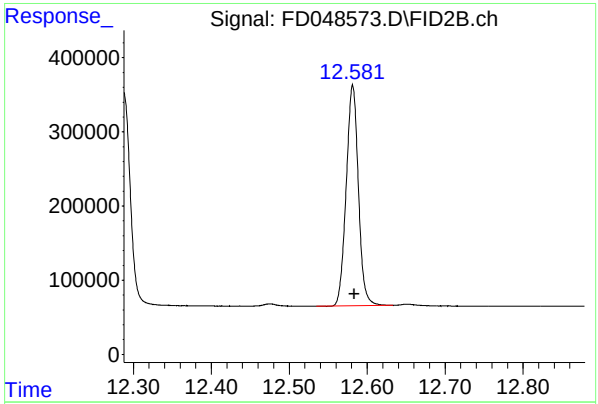
#11 ortho-Terphenyl (SURR)

R.T.: 11.258 min
Delta R.T.: 0.000 min
Response: 3418196
Conc: 20.07 ug/ml



#12 Fluoranthene (C21.85)

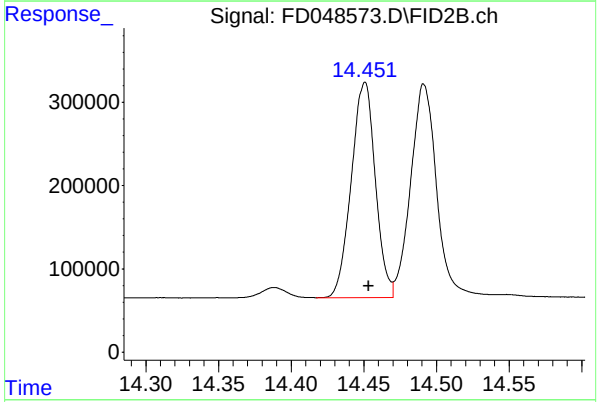
R.T.: 12.288 min
Delta R.T.: -0.003 min
Response: 3304952
Conc: 20.08 ug/ml



#13 Pyrene (C20.8)

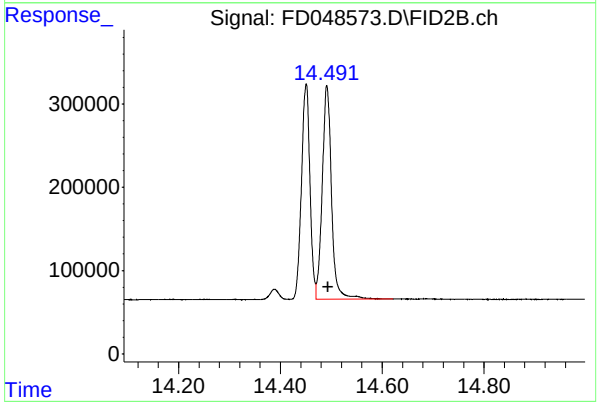
R.T.: 12.581 min
Delta R.T.: -0.002 min
Response: 3231023
Conc: 20.06 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



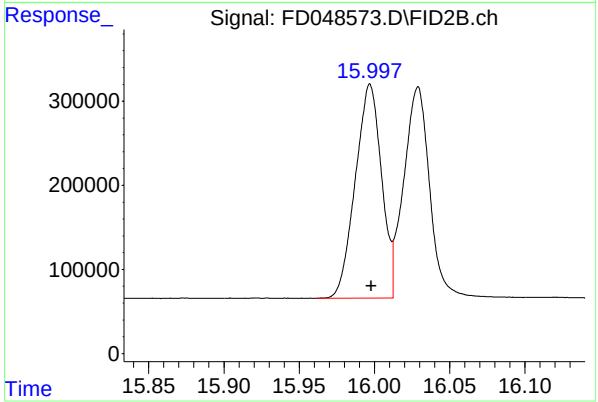
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: -0.003 min
Response: 2986450
Conc: 20.42 ug/ml



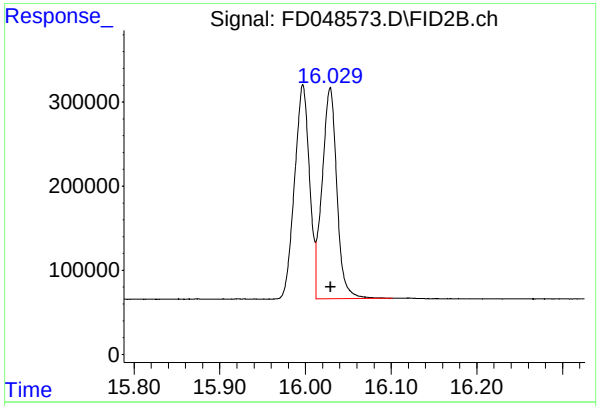
#15 Chrysene (C27.41)

R.T.: 14.492 min
Delta R.T.: -0.002 min
Response: 3268283
Conc: 19.87 ug/ml



#16 benzo[b]fluoranthene (C30.41)

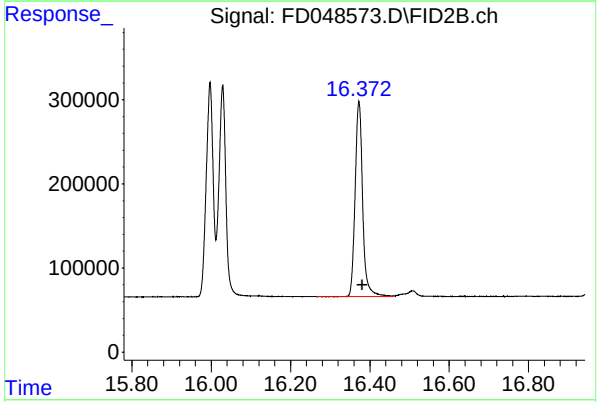
R.T.: 15.997 min
Delta R.T.: 0.000 min
Response: 3076351
Conc: 20.24 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

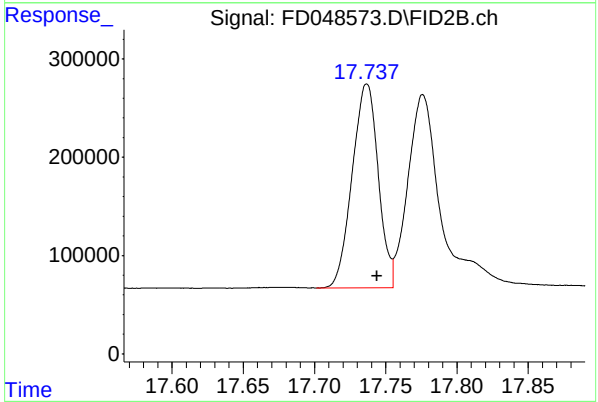
R.T.: 16.029 min
Delta R.T.: 0.000 min
Response: 3007230
Conc: 20.01 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



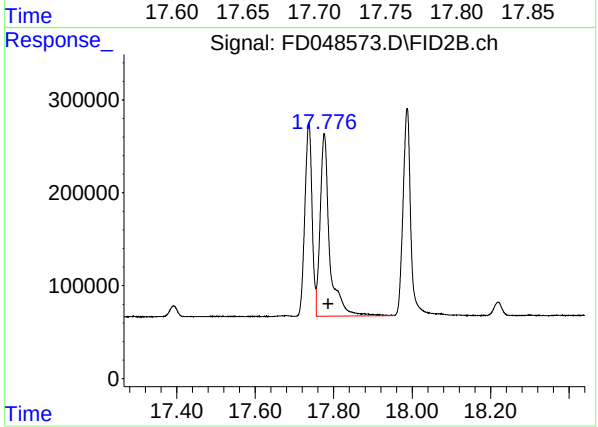
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.372 min
Delta R.T.: -0.008 min
Response: 3055729
Conc: 20.30 ug/ml



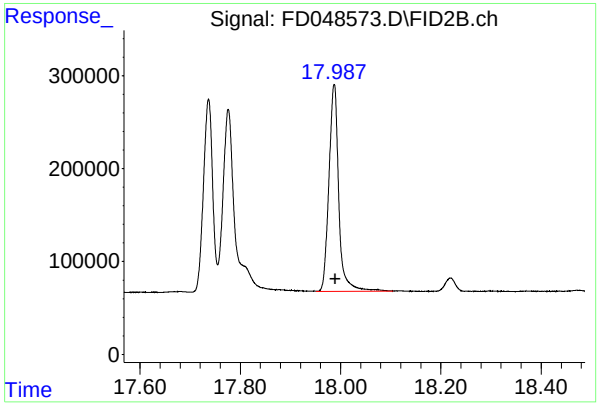
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: -0.007 min
Response: 2639364
Conc: 20.23 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 17.776 min
Delta R.T.: -0.011 min
Response: 3309486
Conc: 20.34 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 17.987 min
Delta R.T.: -0.003 mi
Response: 3030209
Conc: 19.79 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD102324AR\
Data File : FD048573.D
Signal(s) : FID2B.ch
Acq On : 23 Oct 2024 18:14
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.195	4.161	4.288	BB	411534	3511974	96.77%	5.226%
2	5.713	5.674	5.868	BB	387327	3621999	99.80%	5.390%
3	6.760	6.714	6.881	BV	365701	3629138	100.00%	5.400%
4	7.372	7.161	7.461	BB	308815	3035391	83.64%	4.517%
5	8.025	7.978	8.154	BB	351890	3549708	97.81%	5.282%
6	8.222	8.168	8.290	BV	187045	2009011	55.36%	2.989%
7	8.319	8.290	8.424	VB	365720	3566386	98.27%	5.307%
8	9.098	9.064	9.241	PB	328779	3449130	95.04%	5.132%
9	10.485	10.384	10.531	BV	326000	3337748	91.97%	4.967%
10	10.560	10.531	10.741	VB	271677	3166872	87.26%	4.712%
11	11.258	11.214	11.344	BB	324343	3418196	94.19%	5.086%
12	12.288	12.247	12.444	PB	286640	3304952	91.07%	4.918%
13	12.581	12.534	12.633	BV	297215	3231023	89.03%	4.808%
14	14.450	14.417	14.470	VV	260406	2986450	82.29%	4.444%
15	14.492	14.470	14.621	VB	257062	3268283	90.06%	4.863%
16	15.997	15.961	16.012	BV	254462	3076351	84.77%	4.578%
17	16.029	16.012	16.102	VV	249107	3007230	82.86%	4.475%
18	16.372	16.264	16.458	BV	231238	3055729	84.20%	4.547%
19	17.737	17.701	17.755	BV	208961	2639364	72.73%	3.927%
20	17.776	17.755	17.951	VV	196335	3309486	91.19%	4.924%
21	17.987	17.951	18.104	VV	224512	3030209	83.50%	4.509%
			Sum of corrected areas:			67204630		

Aromatic EPH 102324.M Wed Oct 23 18:51:40 2024

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

Inital 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	

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

Inital 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	

Quantitation Report (QT Reviewed)

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

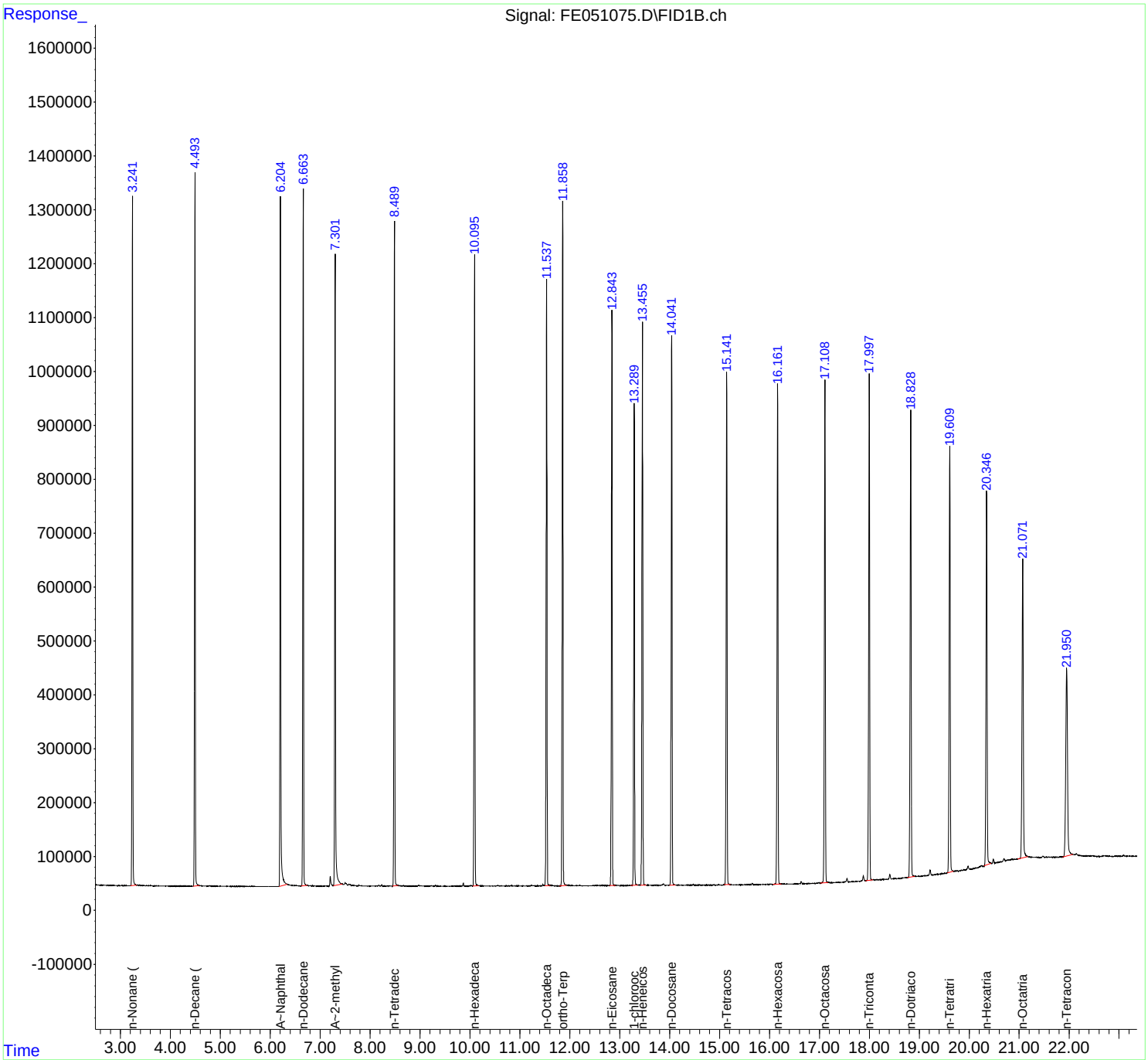
(f)=RT Delta > 1/2 Window (m)=manual int.

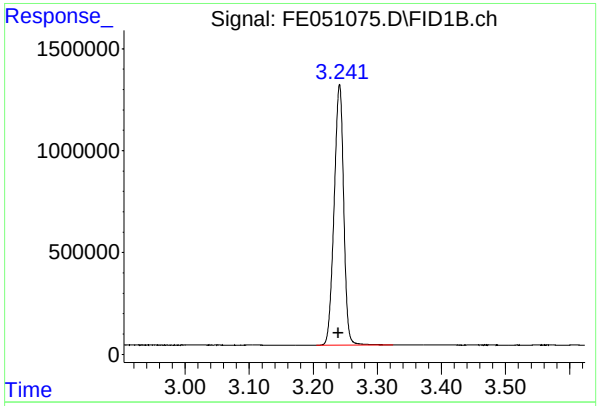
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051075.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 16:52
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

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

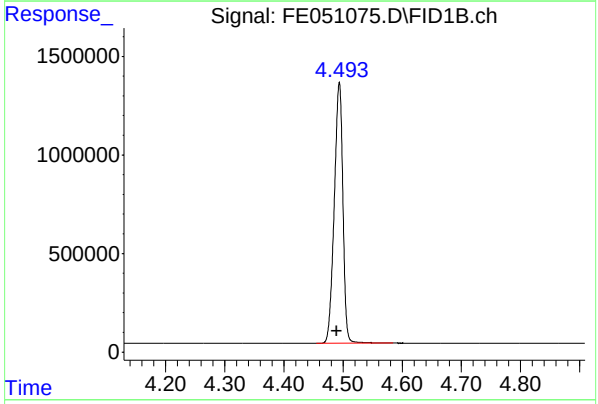




#1 n-Nonane (C9)

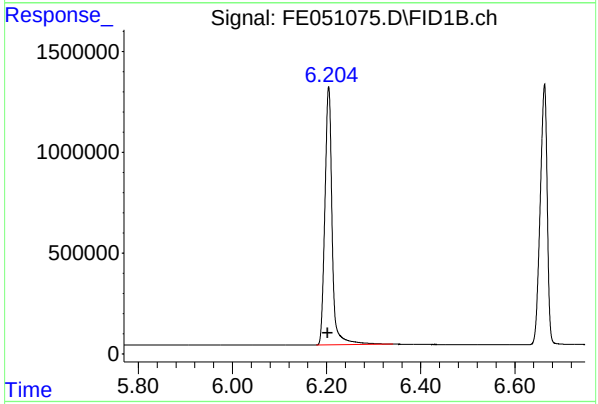
R.T.: 3.241 min
Delta R.T.: 0.002 min
Response: 13236910
Conc: 97.47 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



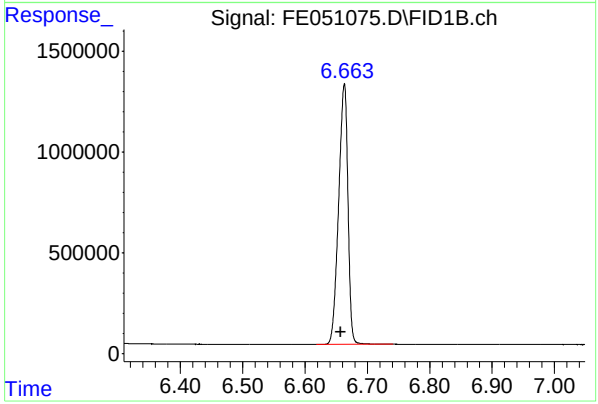
#2 n-Decane (C10)

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



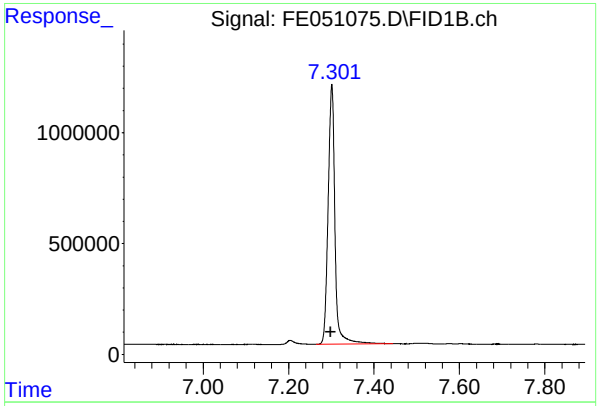
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

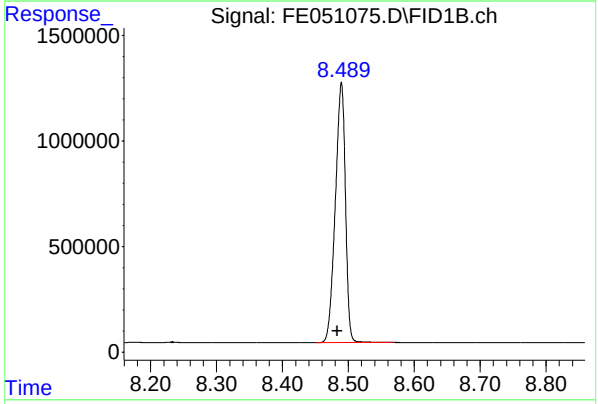
R.T.: 6.663 min
Delta R.T.: 0.005 min
Response: 13398704
Conc: 96.01 ug/ml



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

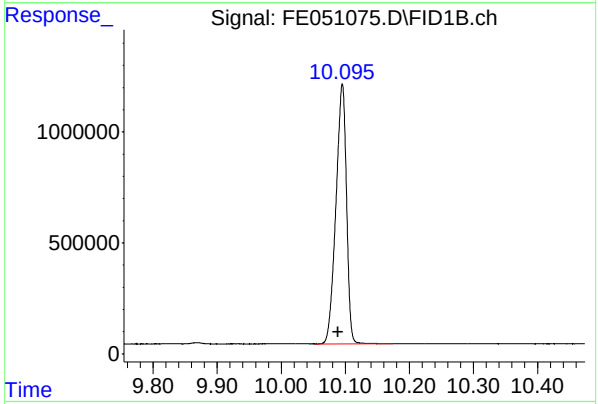
R.T.: 7.301 min
Delta R.T.: 0.003 min
Response: 12915436
Conc: 104.14 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



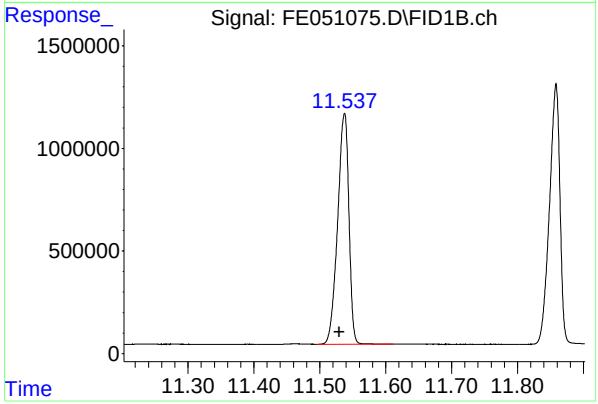
#6 n-Tetradecane (C14)

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



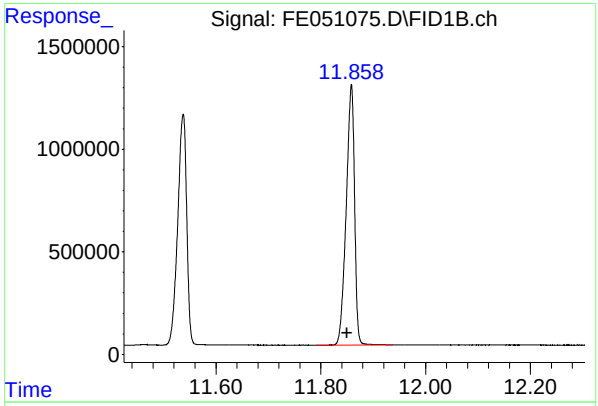
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

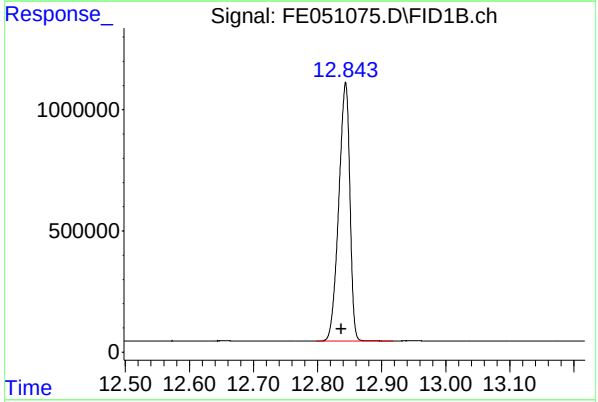
R.T.: 11.537 min
Delta R.T.: 0.007 min
Response: 13365220
Conc: 94.33 ug/ml



#9 ortho-Terphenyl (SURR)

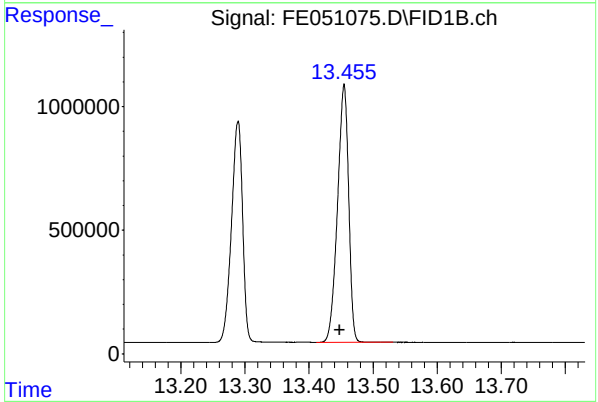
R.T.: 11.858 min
Delta R.T.: 0.007 min
Response: 14049939
Conc: 94.66 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



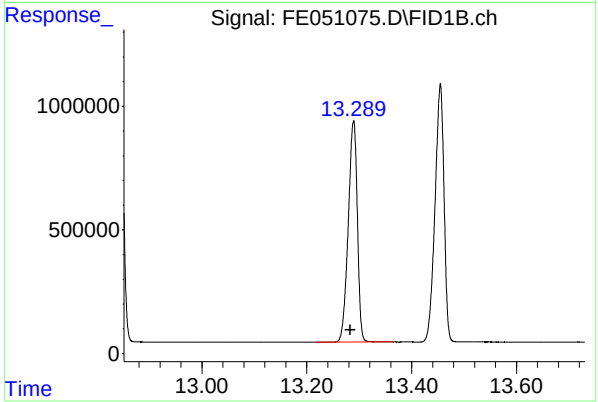
#10 n-Eicosane (C20)

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



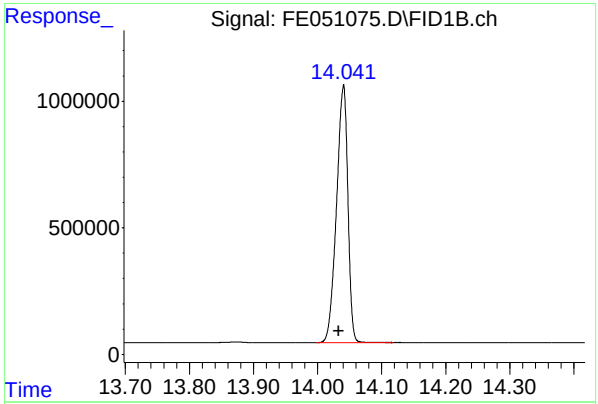
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

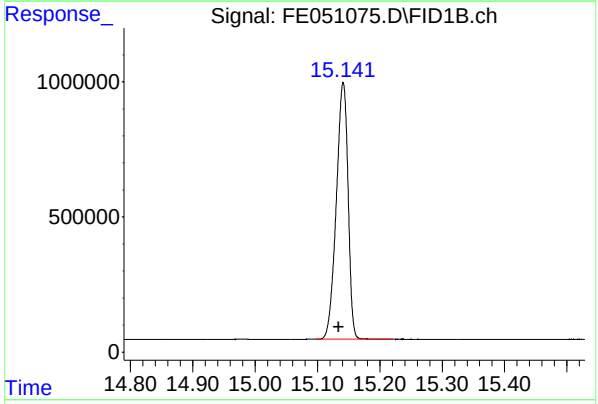
R.T.: 13.289 min
Delta R.T.: 0.006 min
Response: 10794010
Conc: 95.79 ug/ml



#13 n-Docosane (C22)

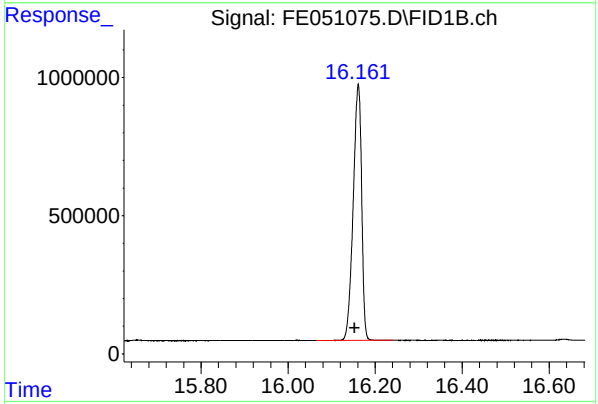
R.T.: 14.040 min
Delta R.T.: 0.007 min
Response: 12430842
Conc: 94.61 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



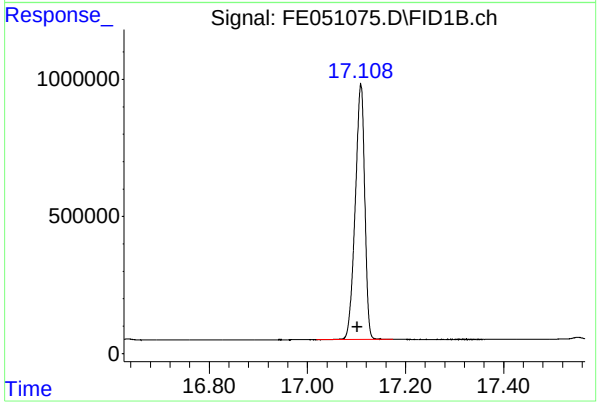
#14 n-Tetracosane (C24)

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



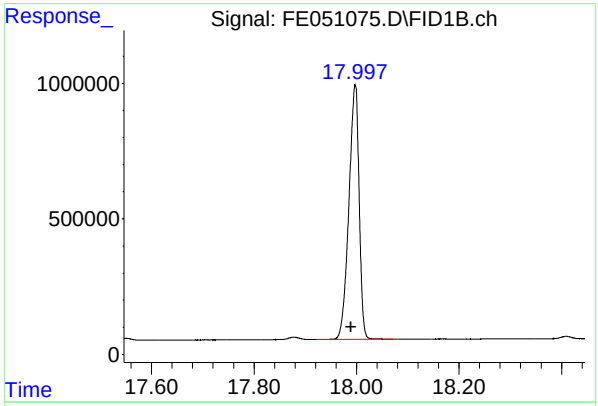
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

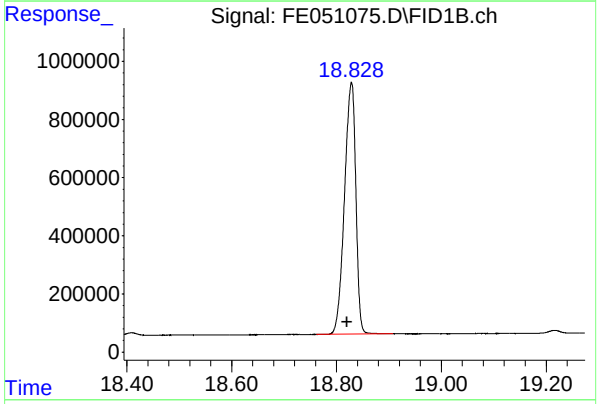
R.T.: 17.109 min
Delta R.T.: 0.007 min
Response: 12543278
Conc: 92.84 ug/ml



#17 n-Tricontane (C30)

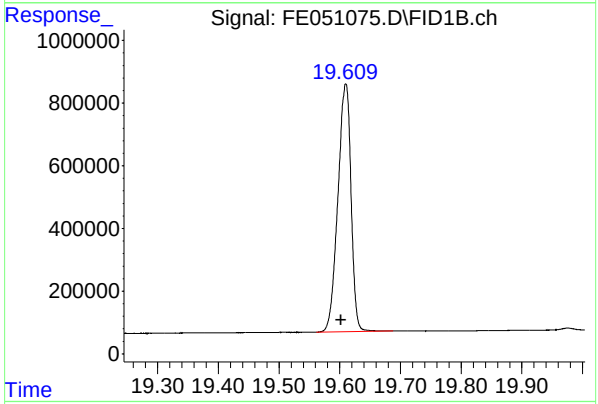
R.T.: 17.997 min
Delta R.T.: 0.008 min
Response: 13023156
Conc: 90.12 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



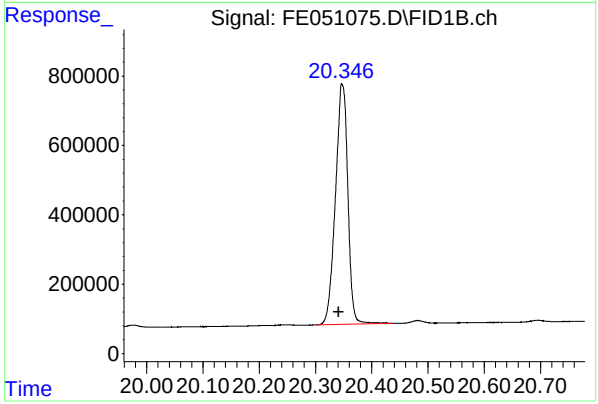
#18 n-Dotriacontane (C32)

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



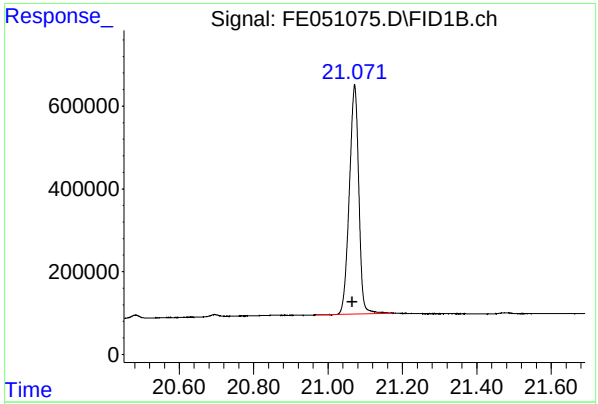
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

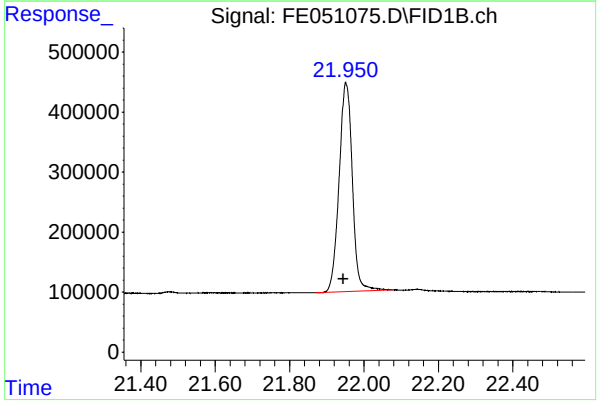
R.T.: 20.348 min
Delta R.T.: 0.006 min
Response: 10625484
Conc: 88.46 ug/ml



#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

Quantitation Report (QT Reviewed)

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

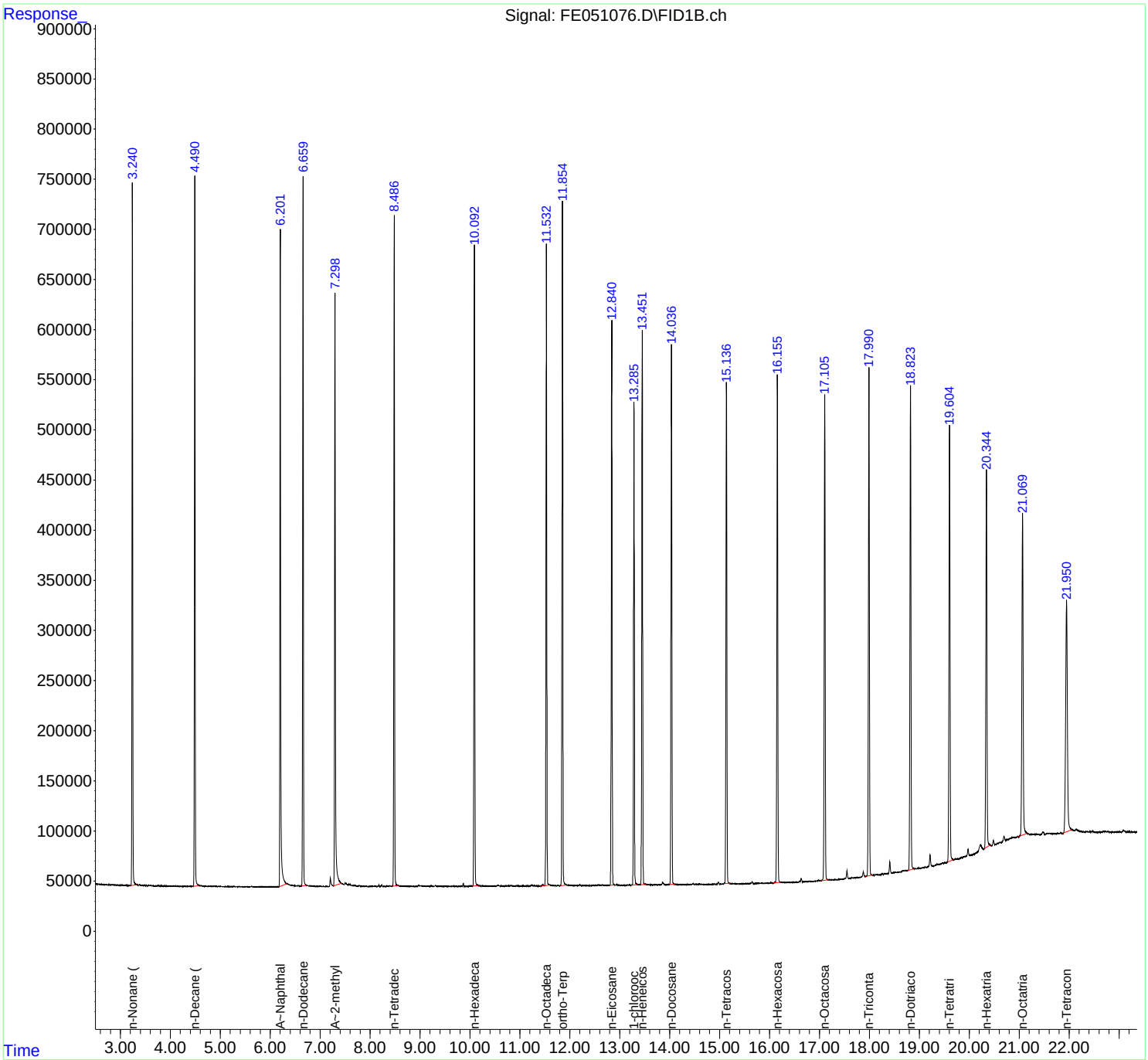
(f)=RT Delta > 1/2 Window (m)=manual int.

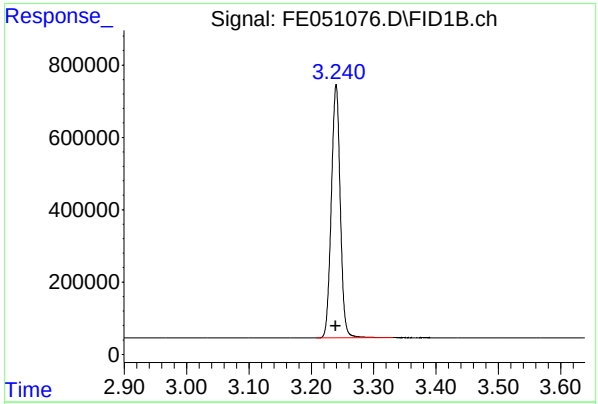
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051076.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:22
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 18 Sample Multiplier: 1

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

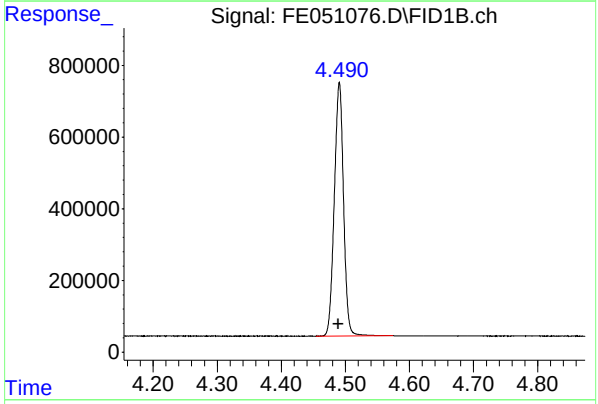




#1 n-Nonane (C9)

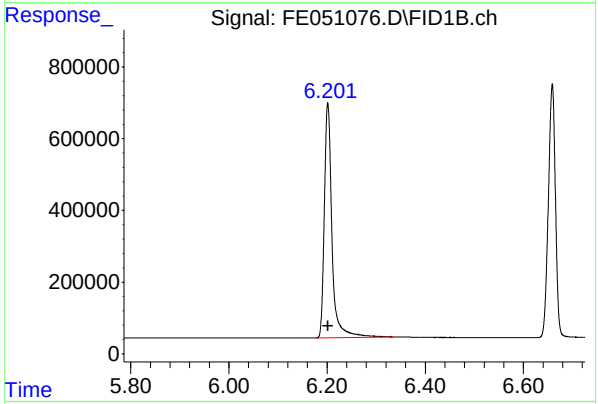
R.T.: 3.240 min
Delta R.T.: 0.000 min
Response: 6972278
Conc: 51.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



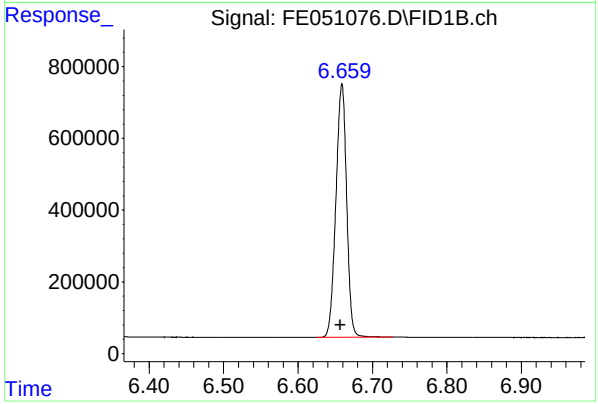
#2 n-Decane (C10)

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



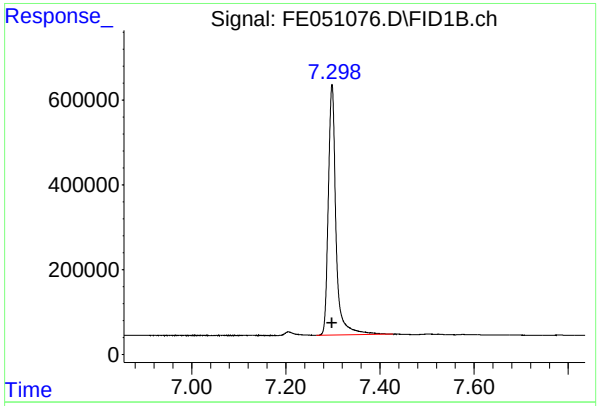
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

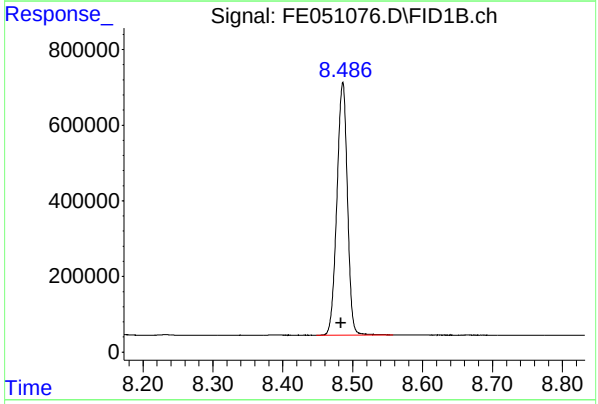
R.T.: 6.659 min
Delta R.T.: 0.002 min
Response: 7089184
Conc: 50.86 ug/ml



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

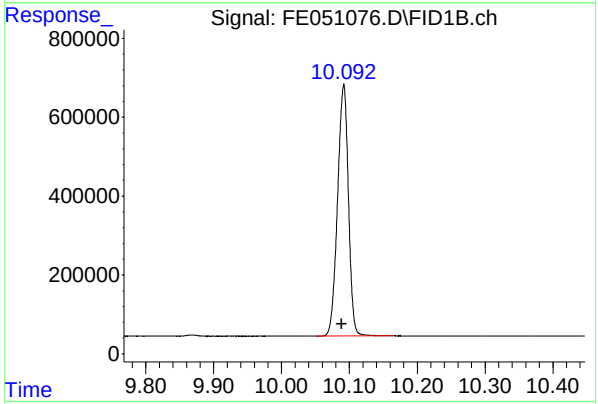
R.T.: 7.298 min
Delta R.T.: 0.000 min
Response: 6675931
Conc: 55.26 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



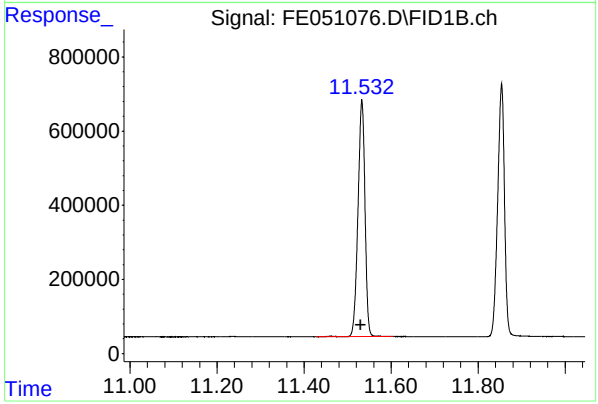
#6 n-Tetradecane (C14)

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



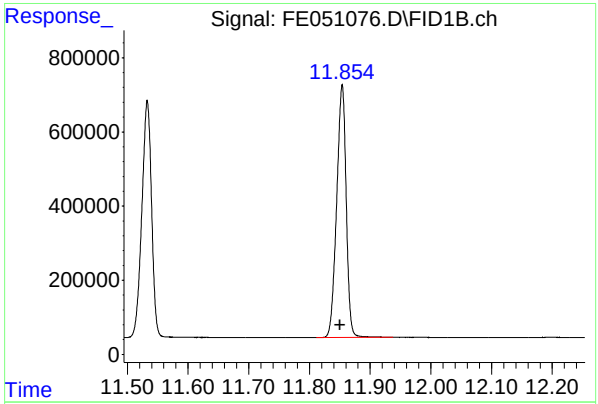
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

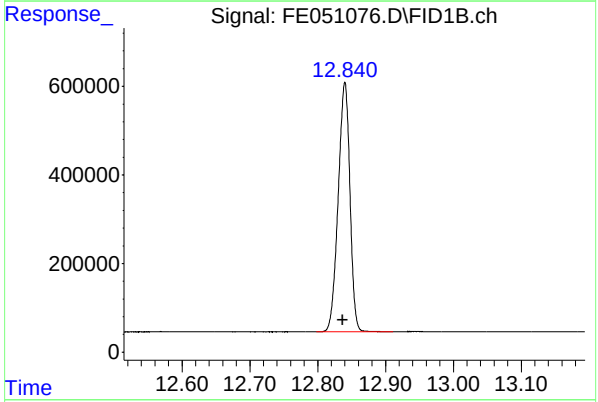
R.T.: 11.533 min
Delta R.T.: 0.003 min
Response: 7120474
Conc: 50.47 ug/ml



#9 ortho-Terphenyl (SURR)

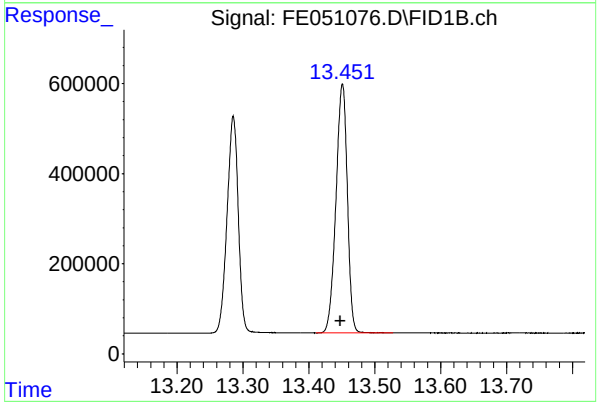
R.T.: 11.854 min
Delta R.T.: 0.003 min
Response: 7439471
Conc: 50.14 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



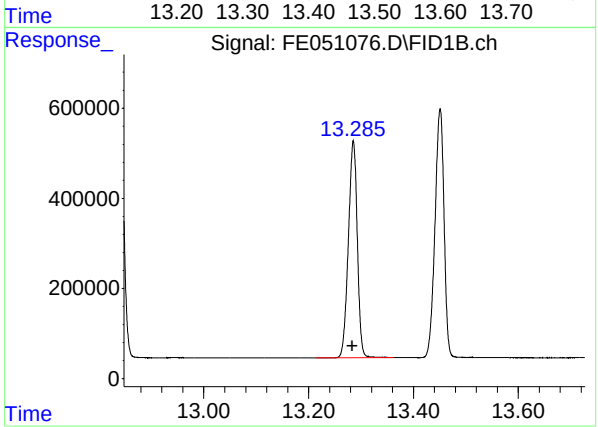
#10 n-Eicosane (C20)

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



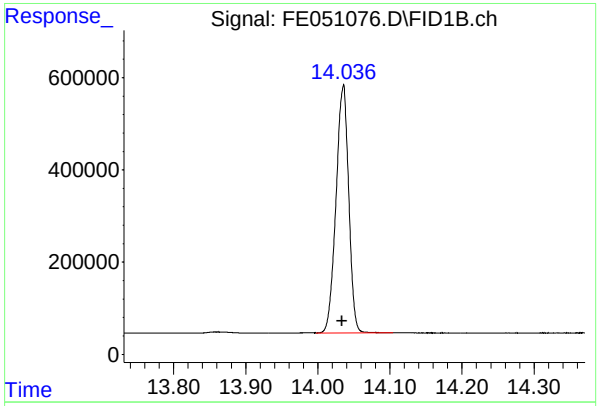
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

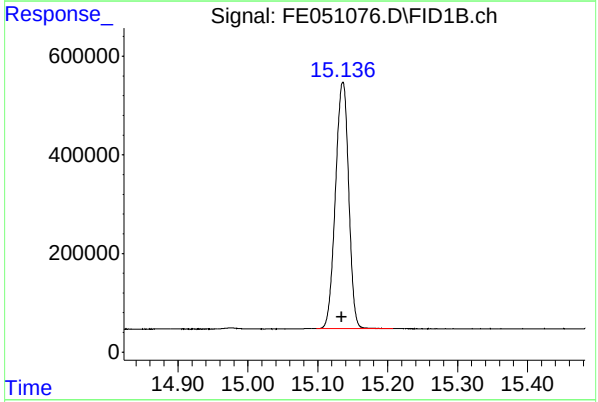
R.T.: 13.285 min
Delta R.T.: 0.002 min
Response: 5687735
Conc: 50.75 ug/ml



#13 n-Docosane (C22)

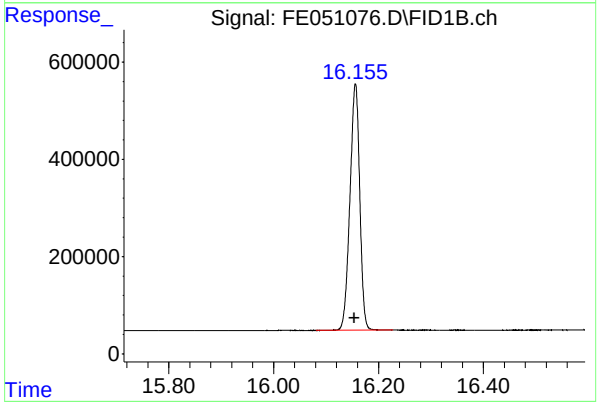
R.T.: 14.035 min
Delta R.T.: 0.002 min
Response: 6576920
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



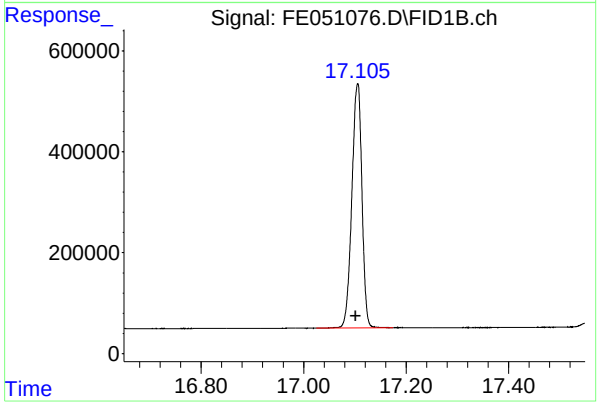
#14 n-Tetracosane (C24)

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



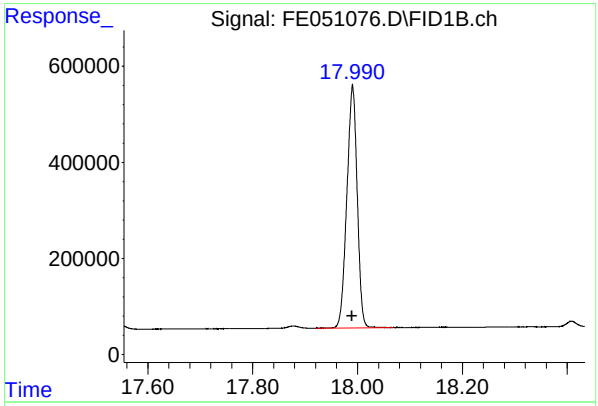
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

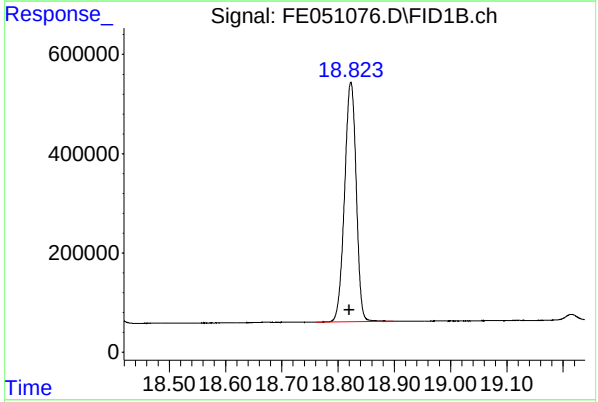
R.T.: 17.105 min
Delta R.T.: 0.003 min
Response: 6621699
Conc: 48.84 ug/ml



#17 n-Tricontane (C30)

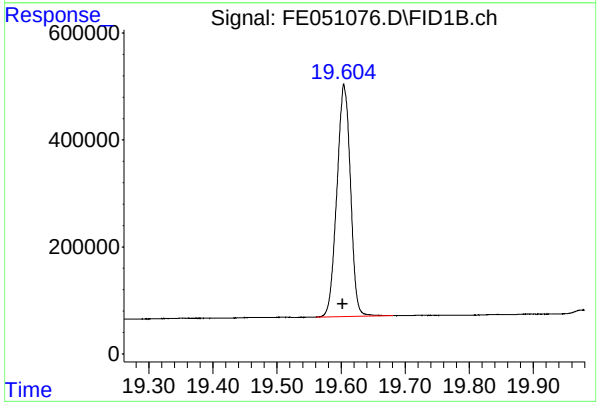
R.T.: 17.991 min
Delta R.T.: 0.001 min
Response: 6913369
Conc: 47.53 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



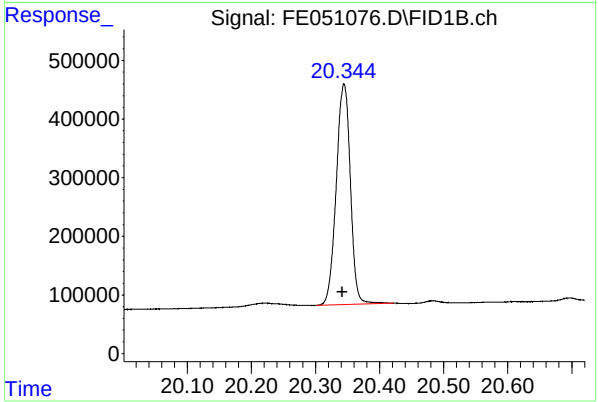
#18 n-Dotriacontane (C32)

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



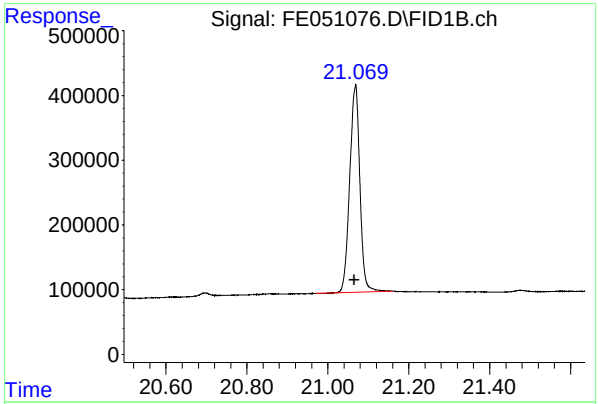
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

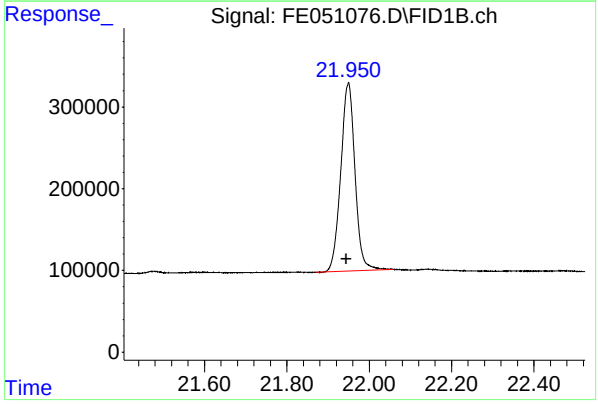
R.T.: 20.344 min
Delta R.T.: 0.003 min
Response: 5735761
Conc: 48.36 ug/ml



#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

Quantitation Report (QT Reviewed)

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

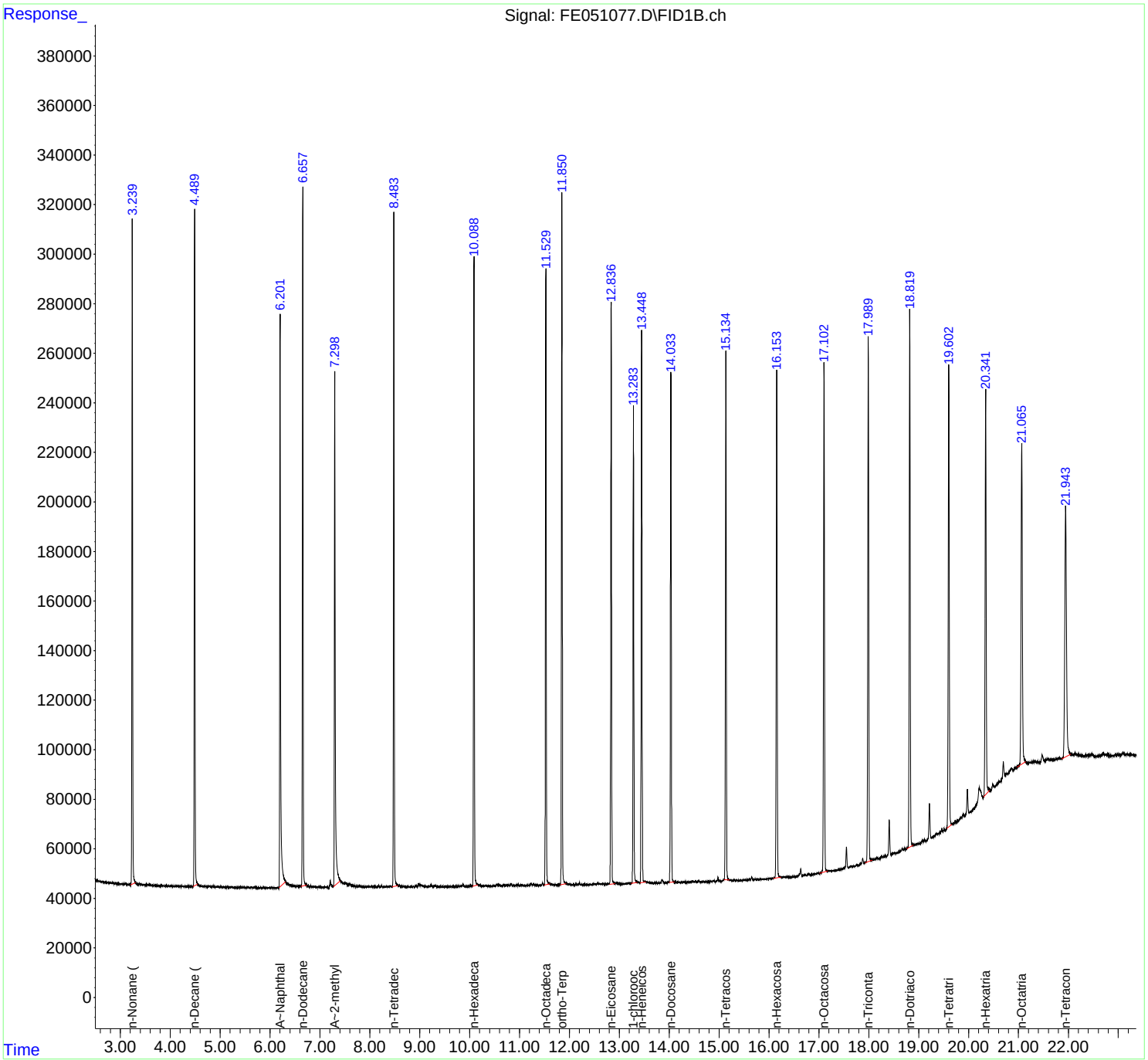
(f)=RT Delta > 1/2 Window (m)=manual int.

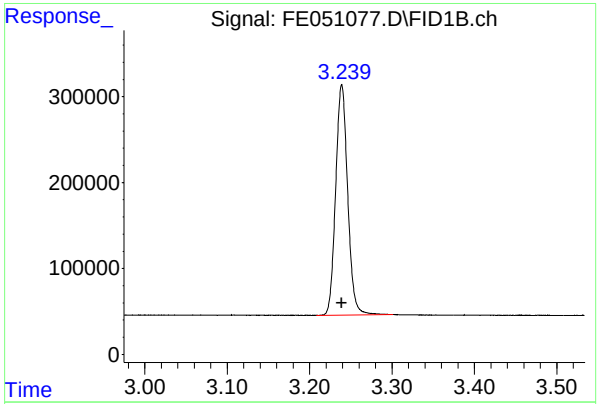
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051077.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:52
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 19 Sample Multiplier: 1

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

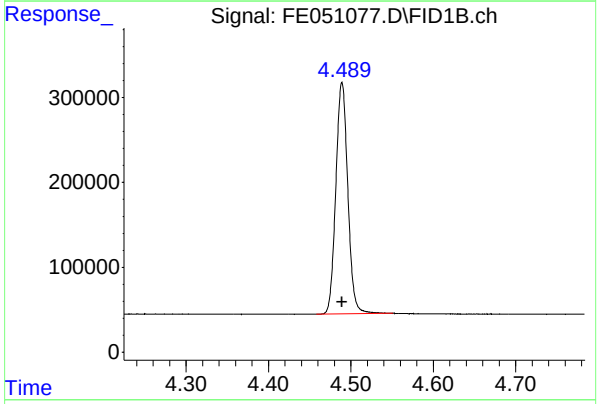




#1 n-Nonane (C9)

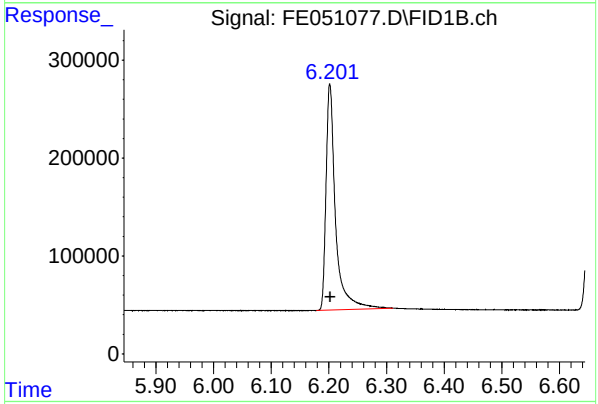
R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 2716227
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



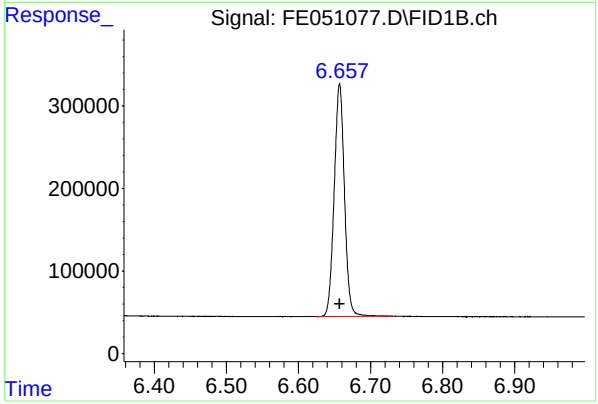
#2 n-Decane (C10)

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



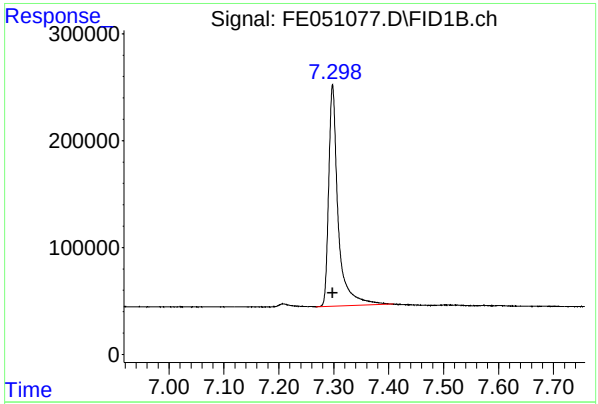
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

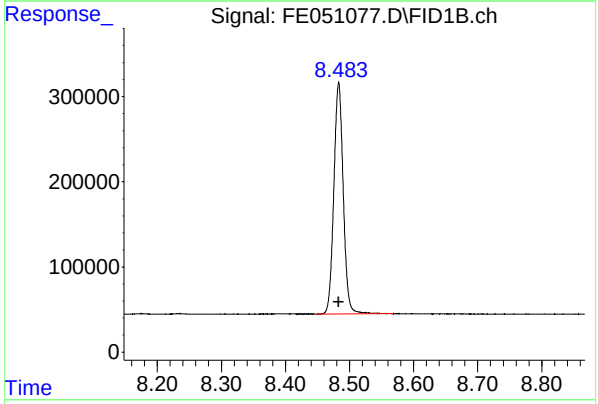
R.T.: 6.657 min
Delta R.T.: 0.000 min
Response: 2791225
Conc: 20.00 ug/ml



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

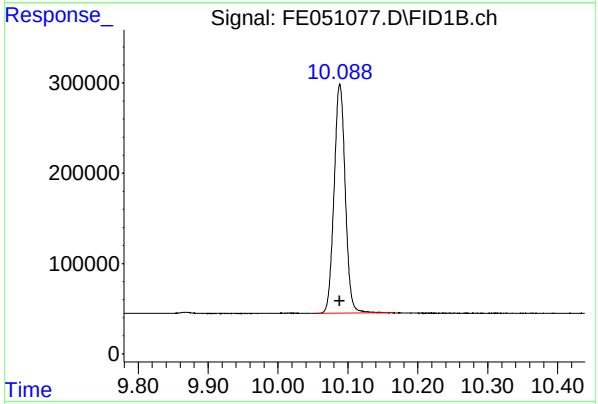
R.T.: 7.298 min
Delta R.T.: 0.000 min
Response: 2480384
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



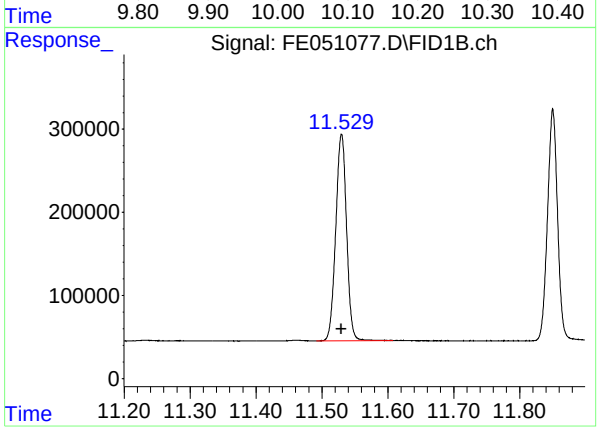
#6 n-Tetradecane (C14)

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



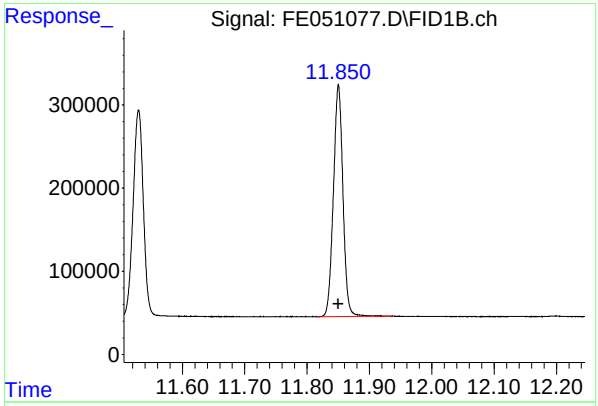
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

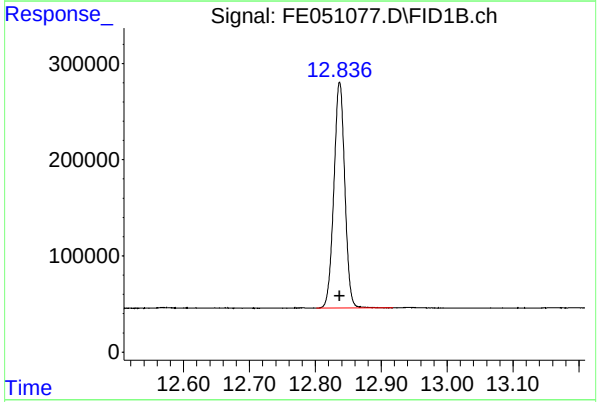
R.T.: 11.530 min
Delta R.T.: 0.000 min
Response: 2833843
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

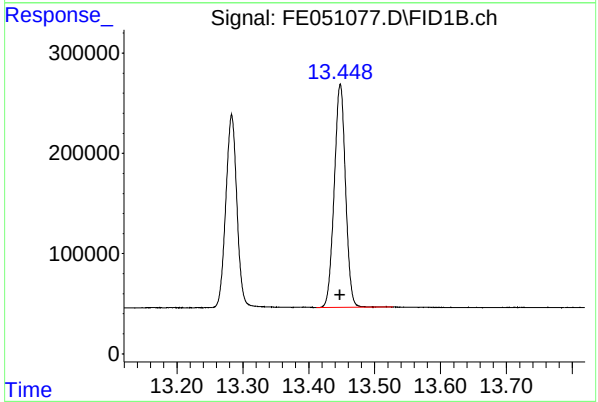
R.T.: 11.850 min
Delta R.T.: 0.000 min
Response: 2968399
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



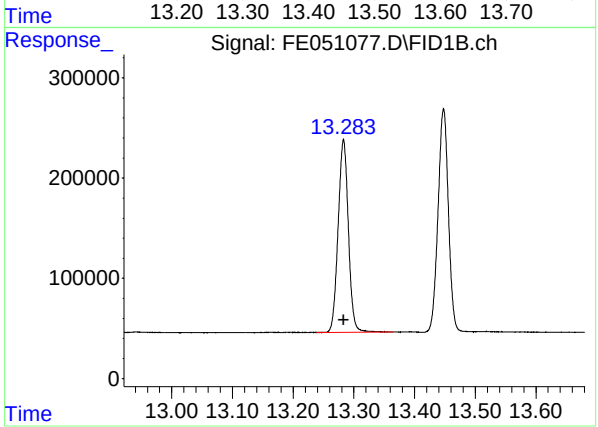
#10 n-Eicosane (C20)

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



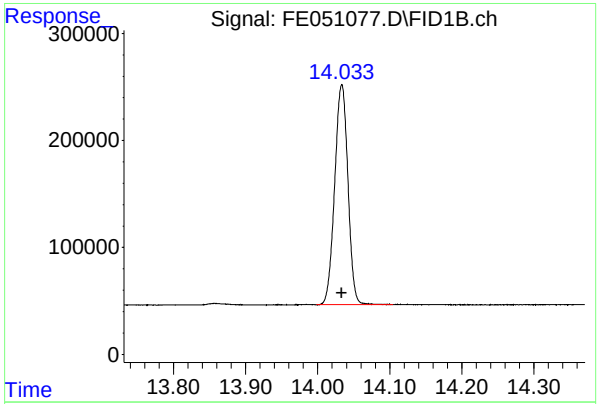
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

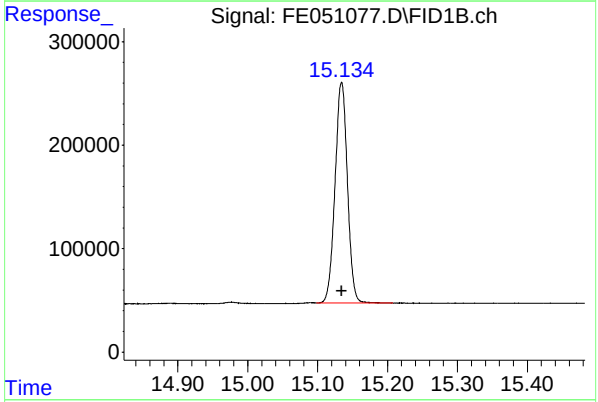
R.T.: 13.283 min
Delta R.T.: 0.000 min
Response: 2253701
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

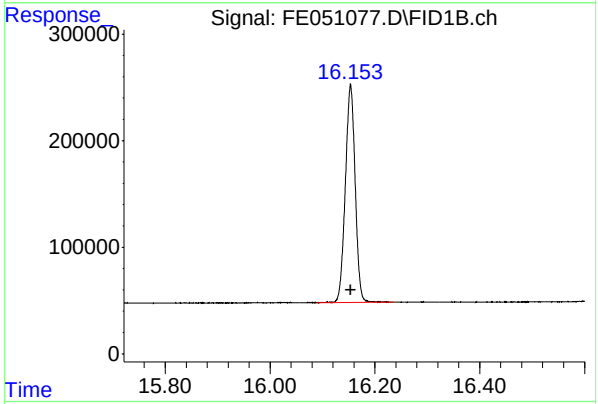
R.T.: 14.033 min
Delta R.T.: 0.000 min
Response: 2627674
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



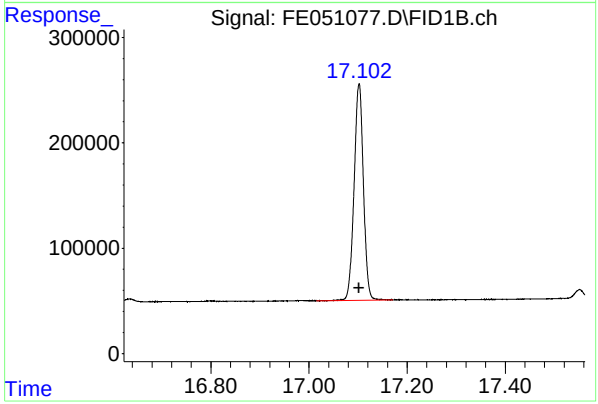
#14 n-Tetracosane (C24)

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



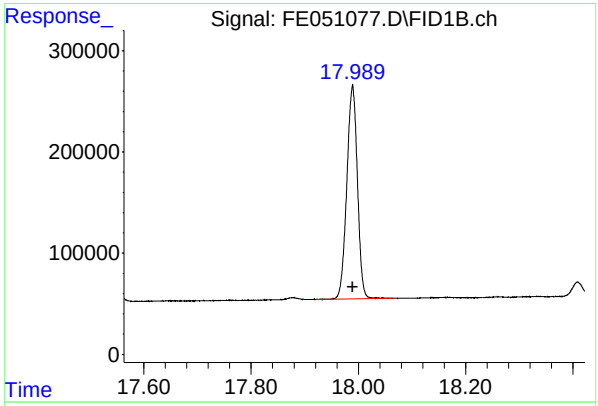
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

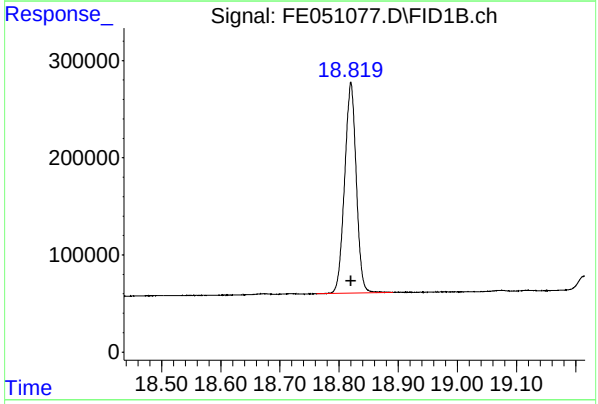
R.T.: 17.102 min
Delta R.T.: 0.000 min
Response: 2702186
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

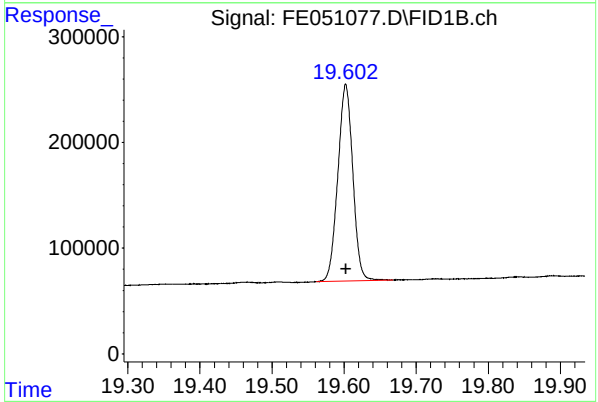
R.T.: 17.989 min
Delta R.T.: 0.000 min
Response: 2890205
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



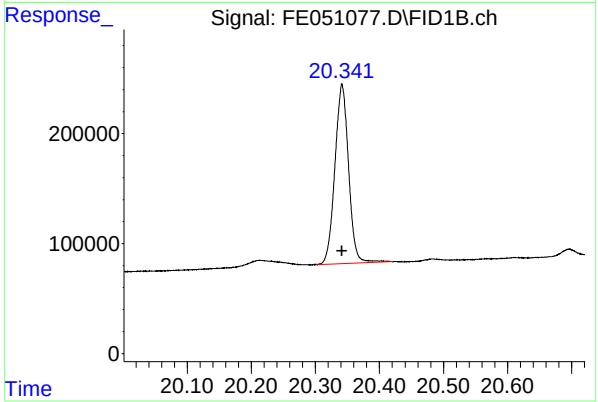
#18 n-Dotriacontane (C32)

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



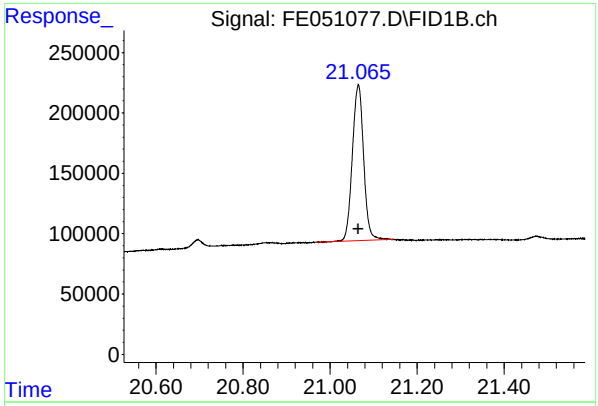
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

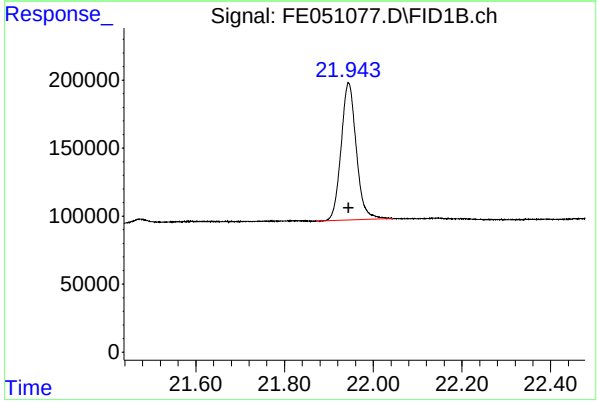
R.T.: 20.342 min
Delta R.T.: 0.000 min
Response: 2402353
Conc: 20.00 ug/ml



#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

Quantitation Report (QT Reviewed)

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

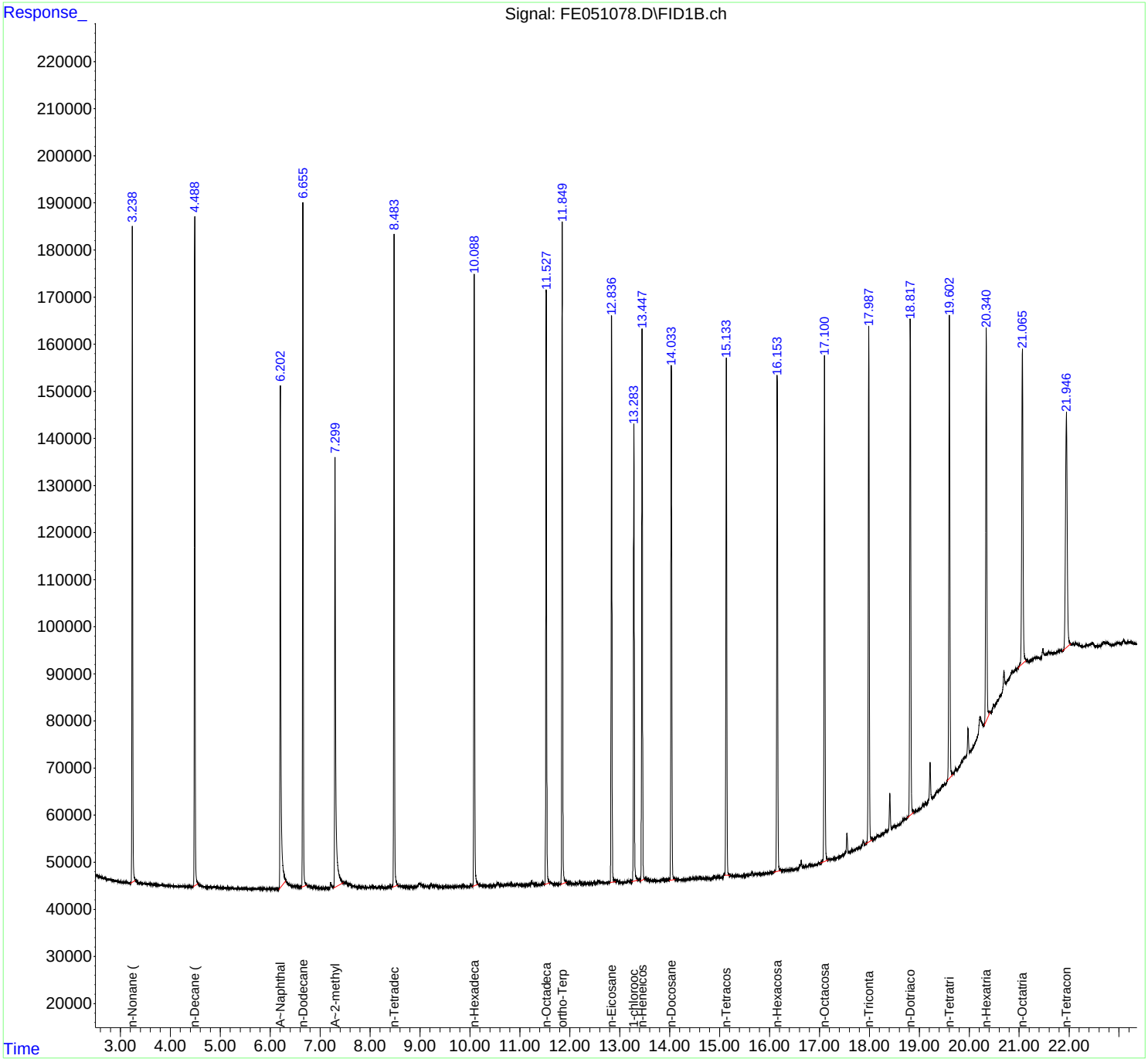
Integration File: autoint1.e
Quant Time: Nov 07 04:55:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:54:42 2024
Response via : Initial Calibration
Integrator: ChemStation

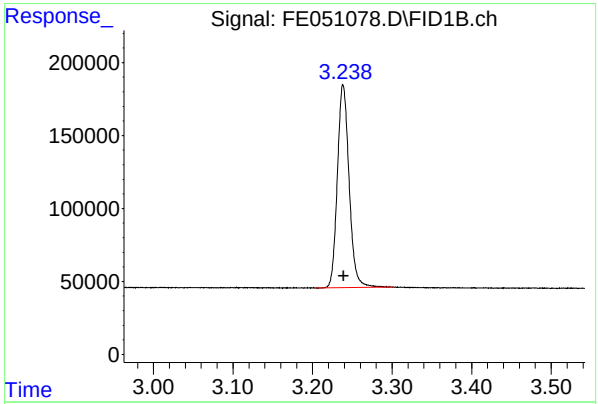
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

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





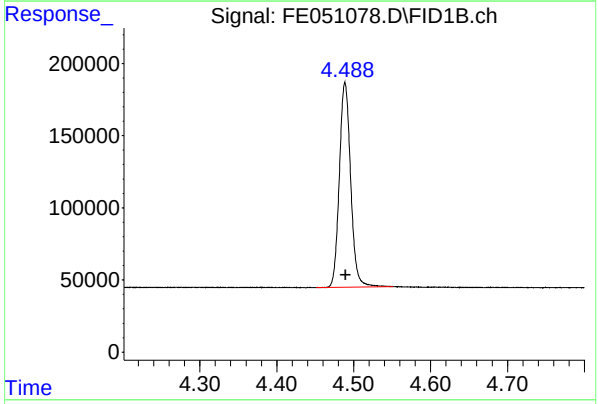
#1 n-Nonane (C9)

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

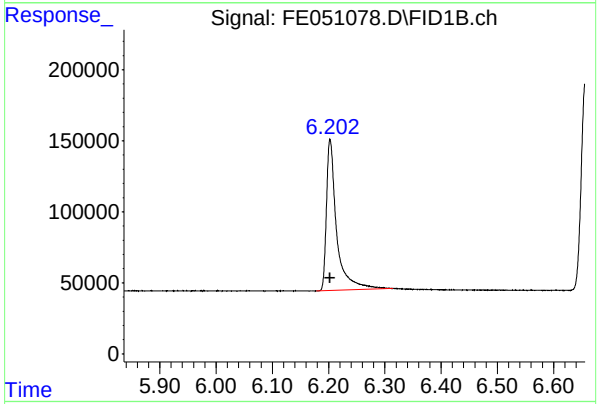
Manual Integrations
APPROVED

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



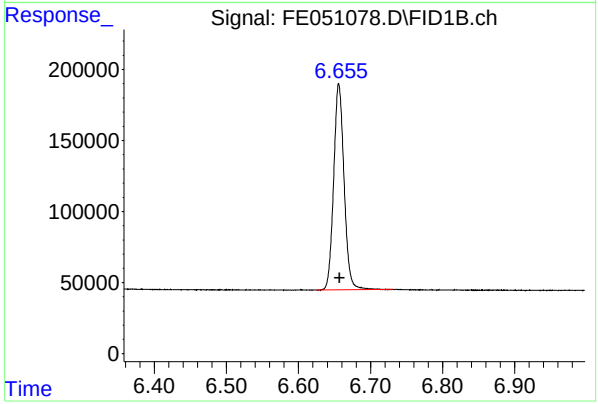
#2 n-Decane (C10)

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



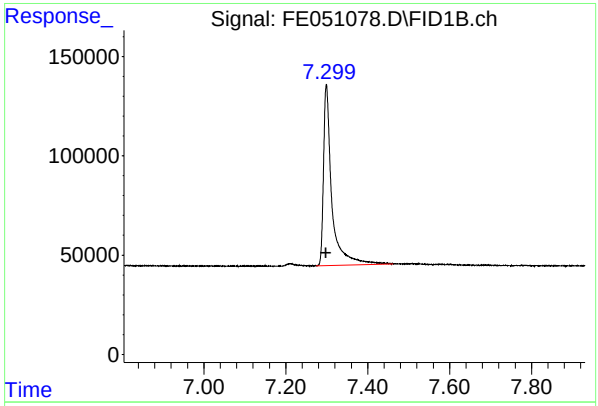
#3 A~Naphthalene (C11.7)

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



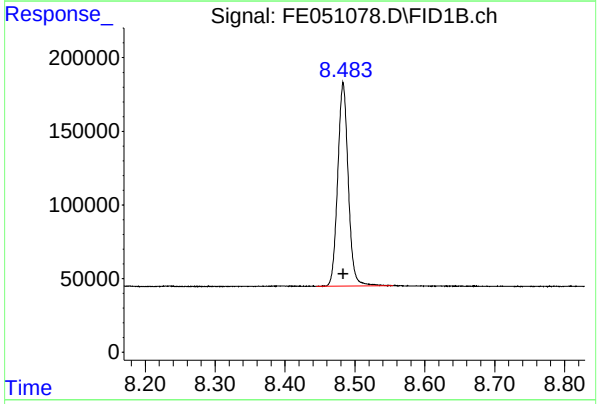
#5 A~2-methylnaphthalene (C12.89)

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

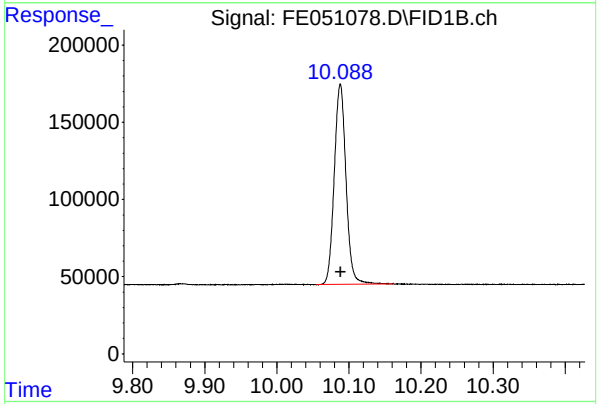
Manual Integrations
APPROVED

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



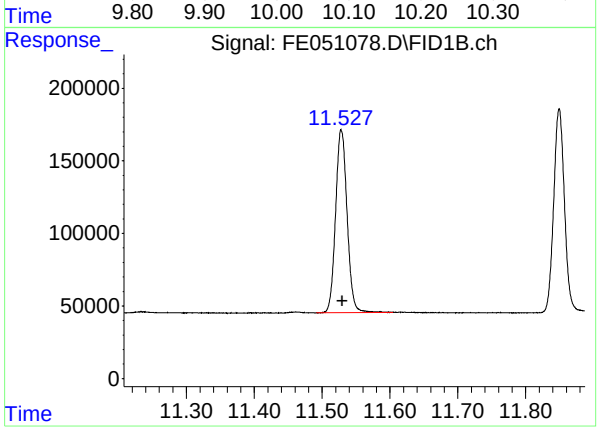
#6 n-Tetradecane (C14)

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



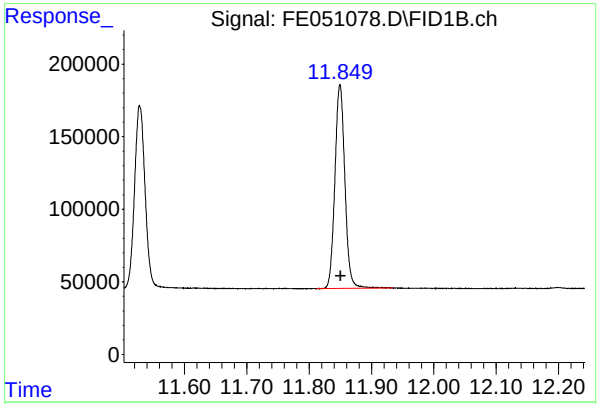
#7 n-Hexadecane (C16)

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



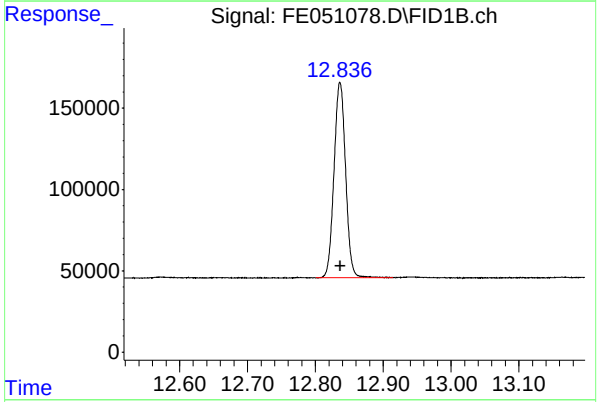
#9 ortho-Terphenyl (SURR)

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

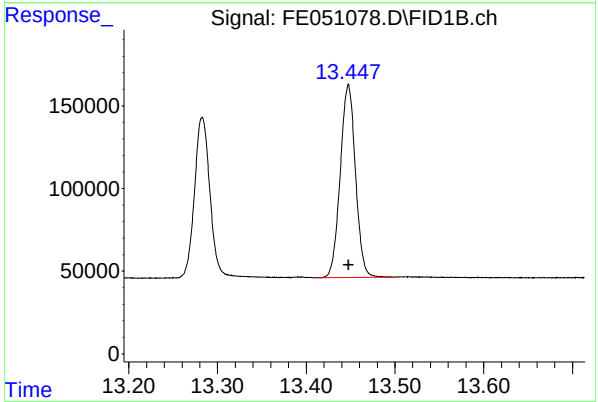
Manual Integrations
APPROVED

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



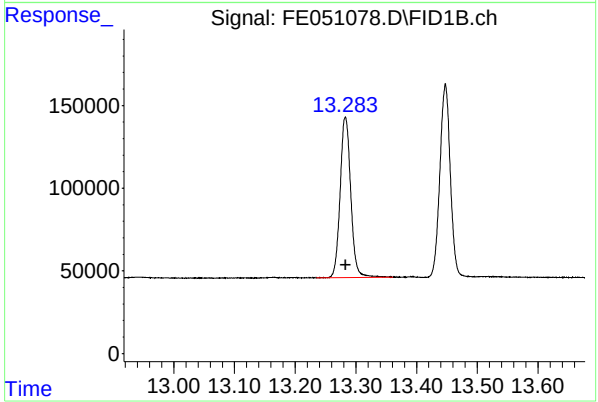
#10 n-Eicosane (C20)

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



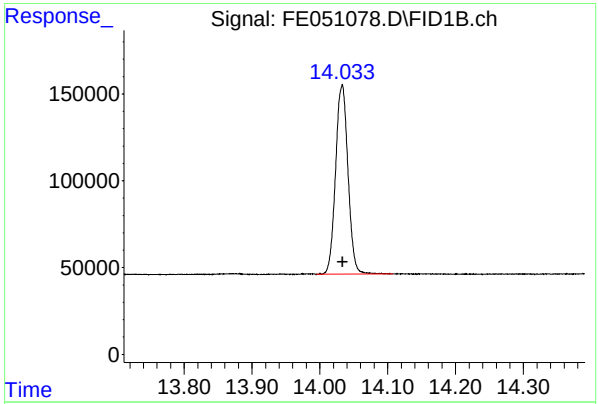
#11 n-Heneicosane (C21)

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



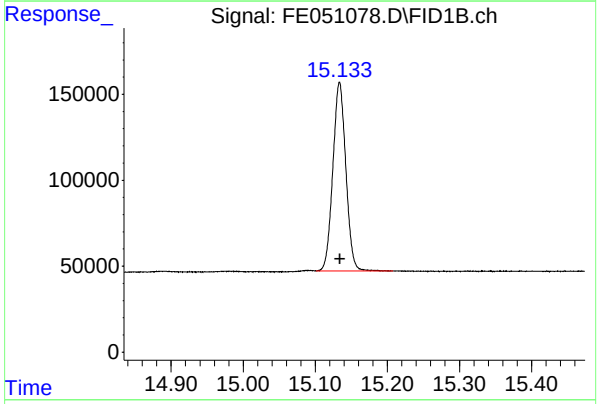
#13 n-Docosane (C22)

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

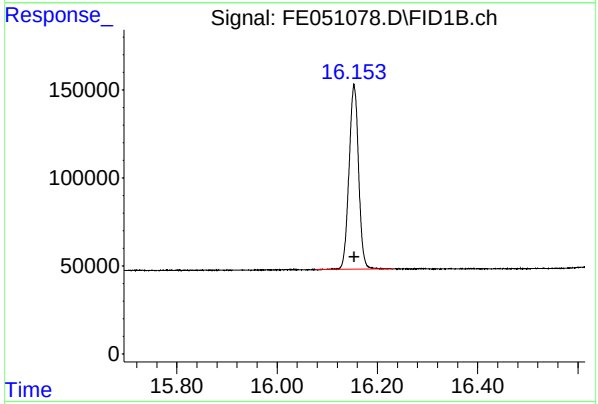
Manual Integrations
APPROVED

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



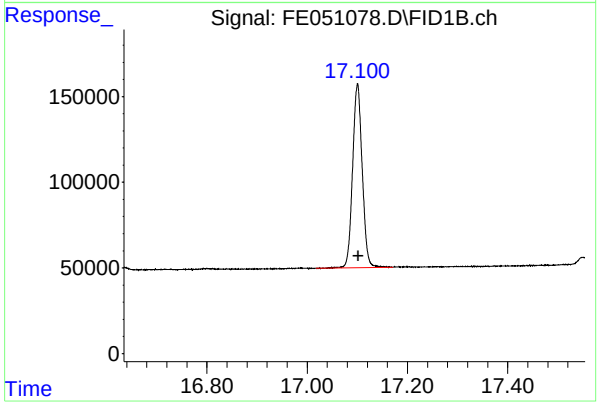
#14 n-Tetracosane (C24)

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



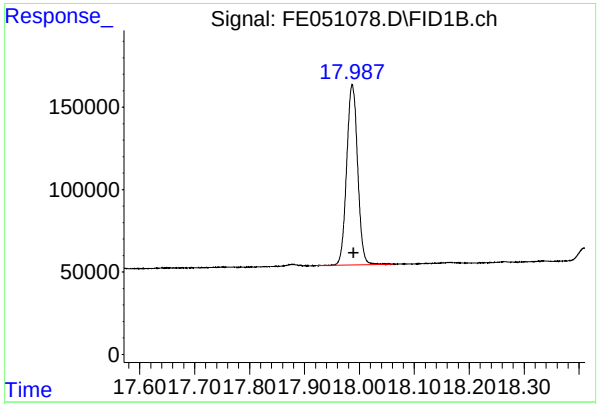
#15 n-Hexacosane (C26)

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



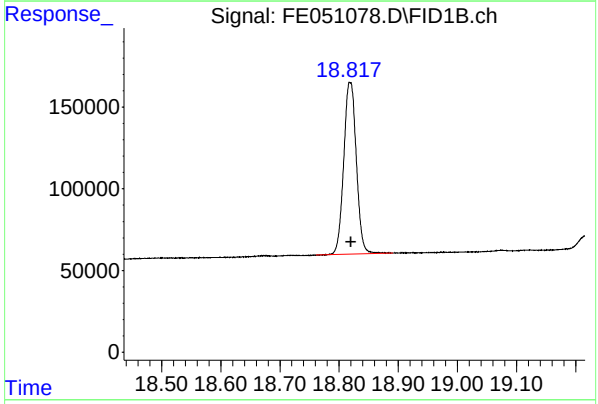
#17 n-Tricontane (C30)

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

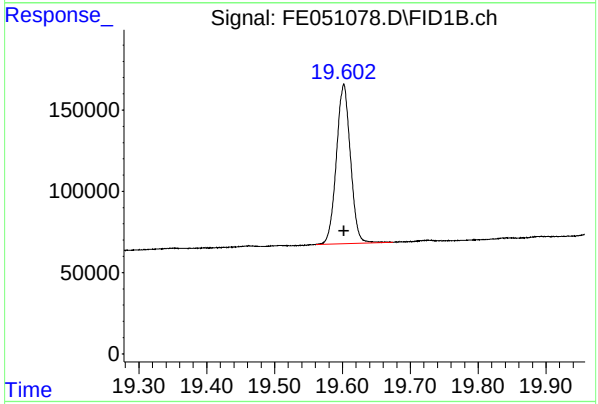
Manual Integrations
APPROVED

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



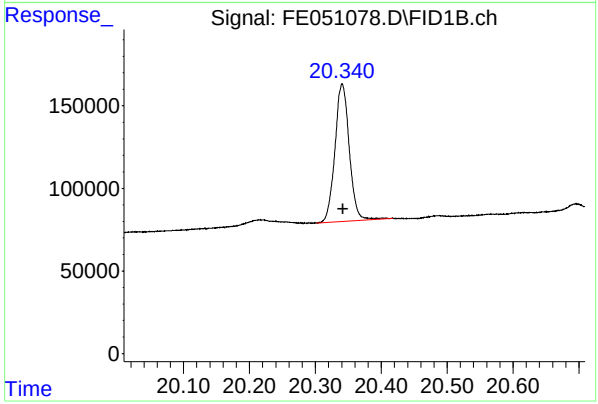
#18 n-Dotriacontane (C32)

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



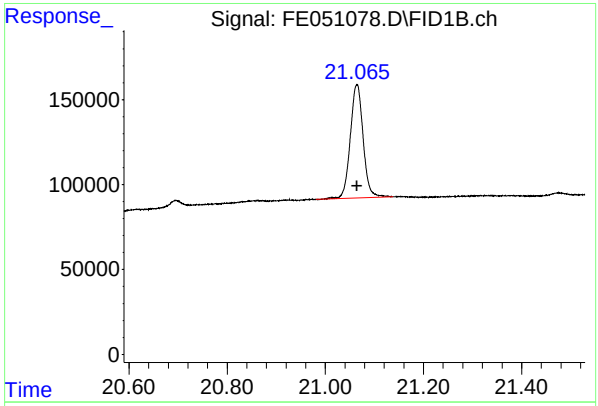
#19 n-Tetratriacontane (C34)

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



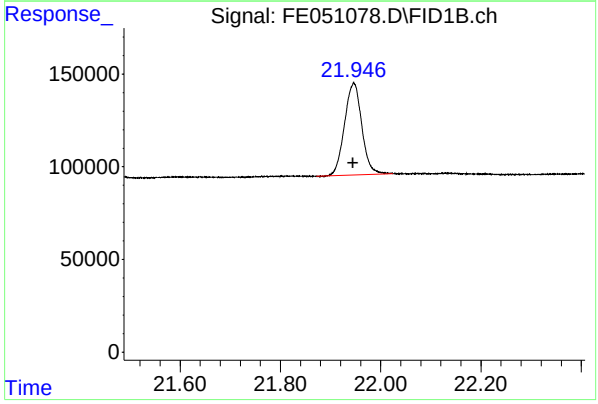
#21 n-Octatriacontane (C38)

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

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\FE11072
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

Quantitation Report (QT Reviewed)

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

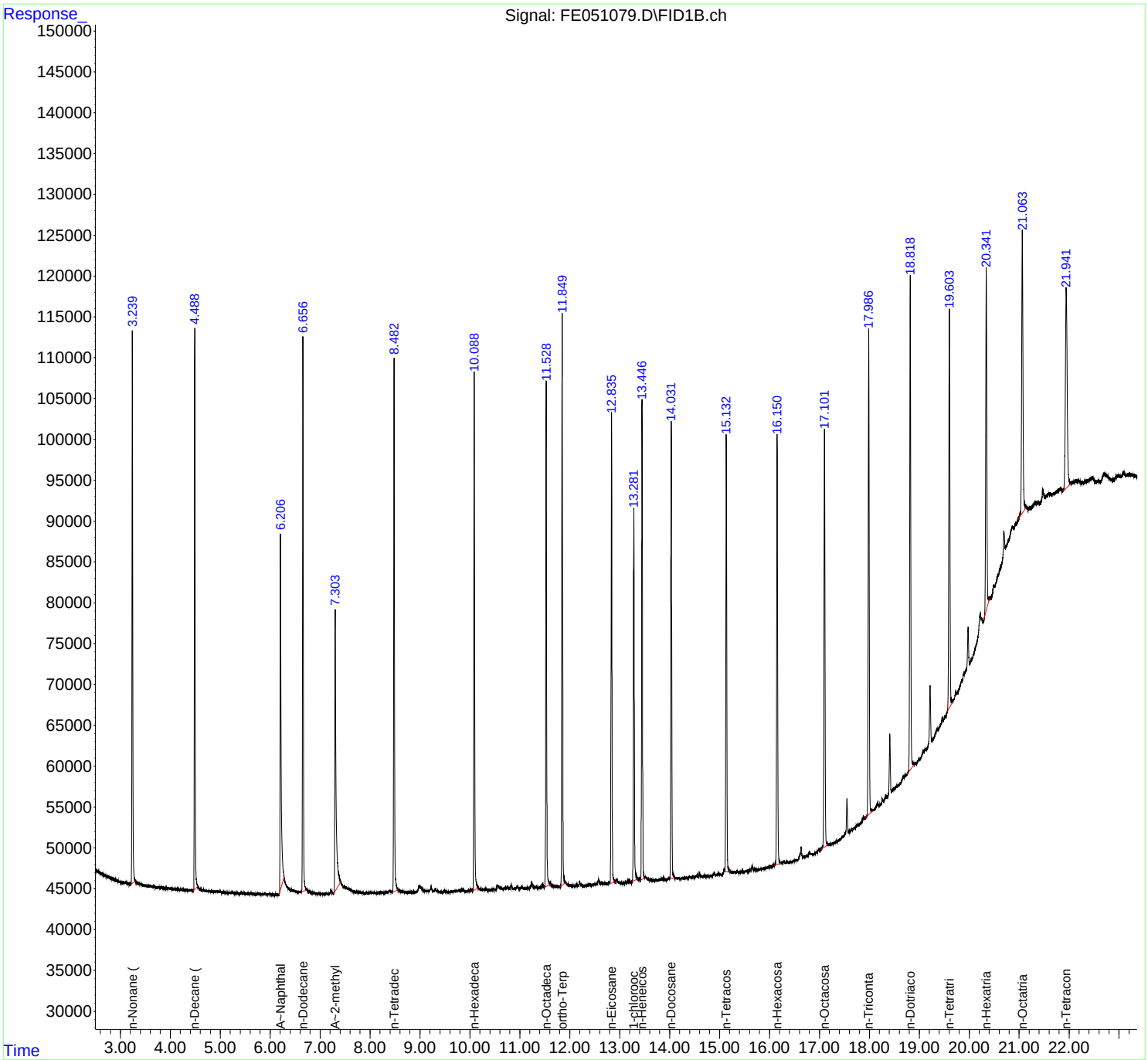
Integration File: autoint1.e
Quant Time: Nov 07 04:51:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:50:43 2024
Response via : Initial Calibration
Integrator: ChemStation

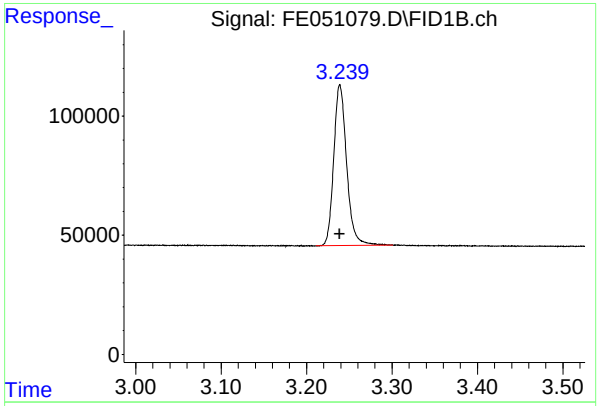
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

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





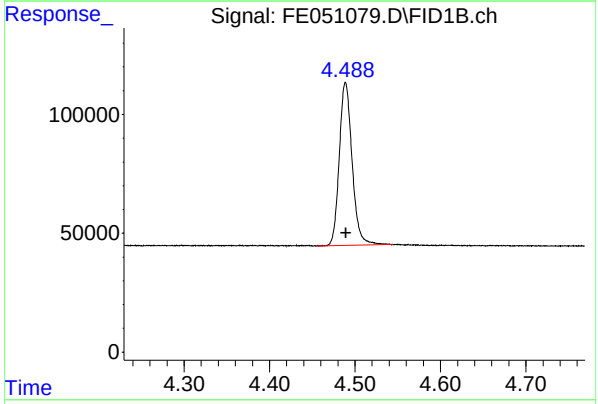
#1 n-Nonane (C9)

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

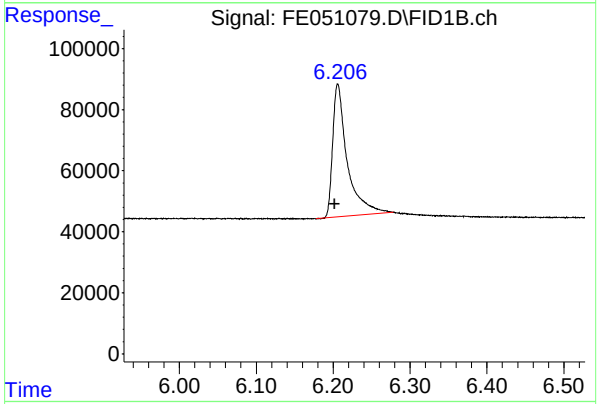
Manual Integrations APPROVED

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



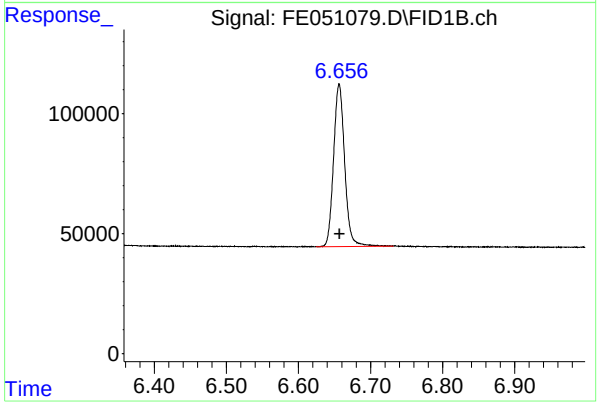
#2 n-Decane (C10)

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



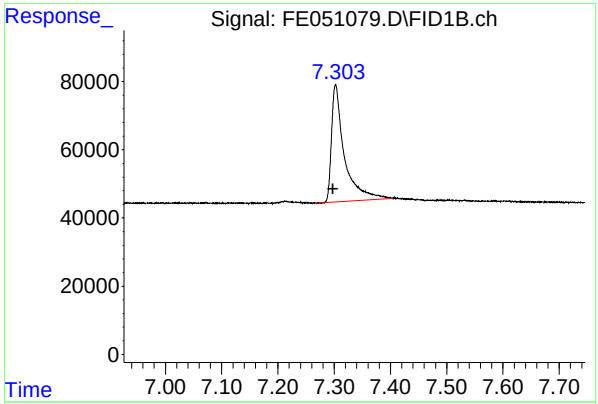
#3 A~Naphthalene (C11.7)

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



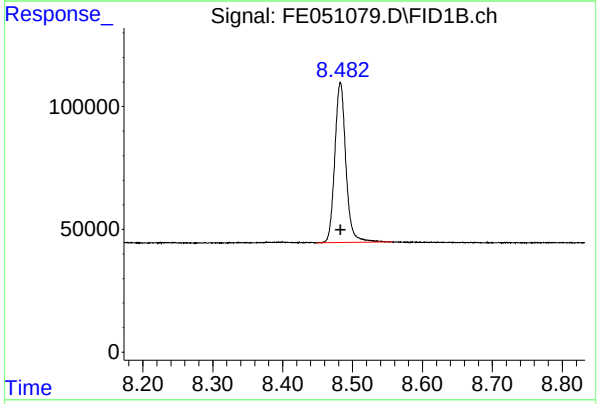
#5 A~2-methylnaphthalene (C12.89)

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

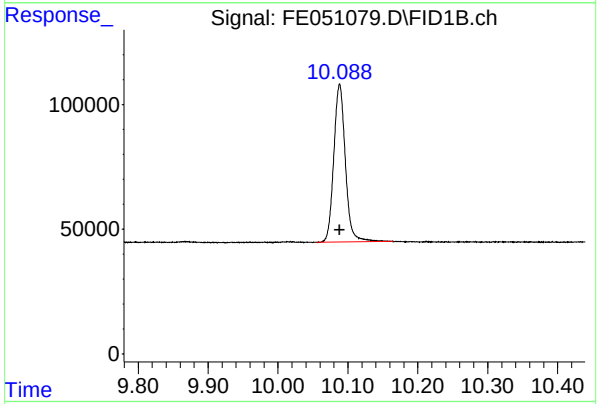
Manual Integrations
APPROVED

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



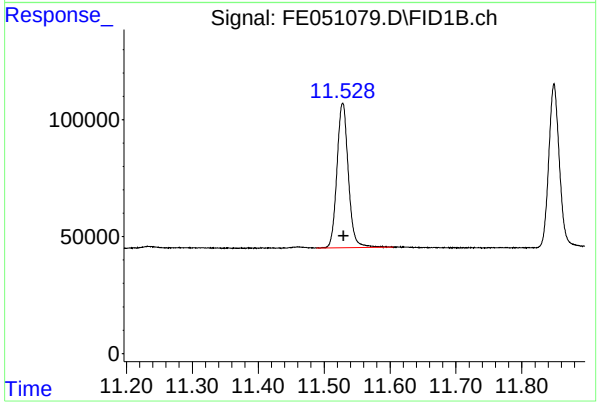
#6 n-Tetradecane (C14)

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



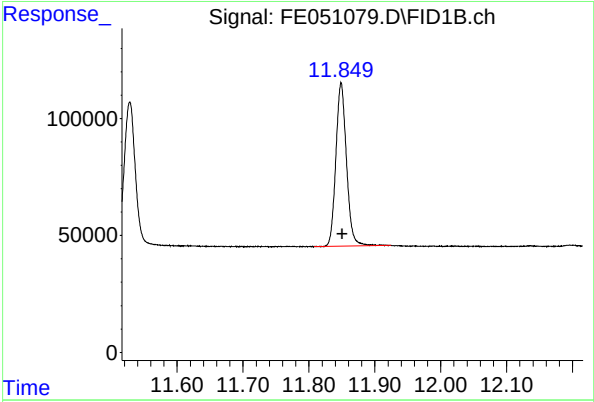
#7 n-Hexadecane (C16)

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



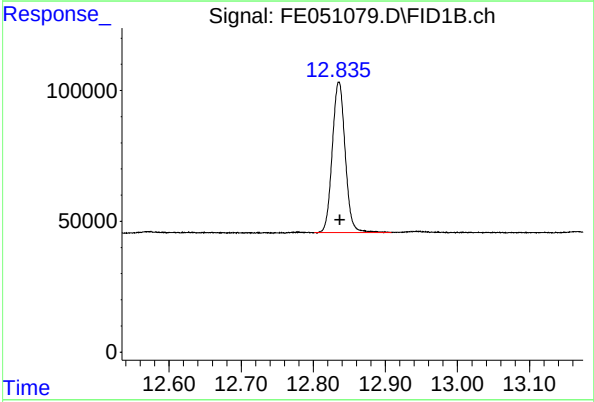
#9 ortho-Terphenyl (SURR)

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

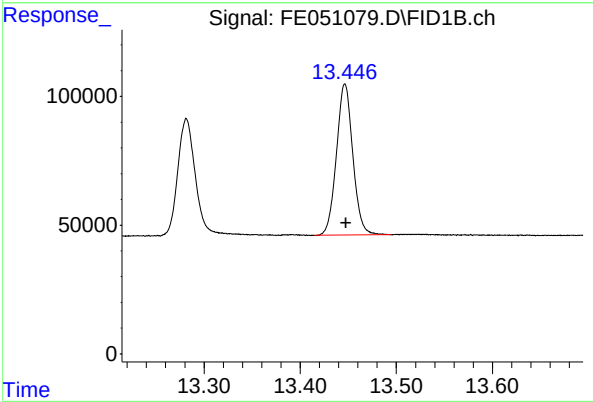
Manual Integrations APPROVED

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



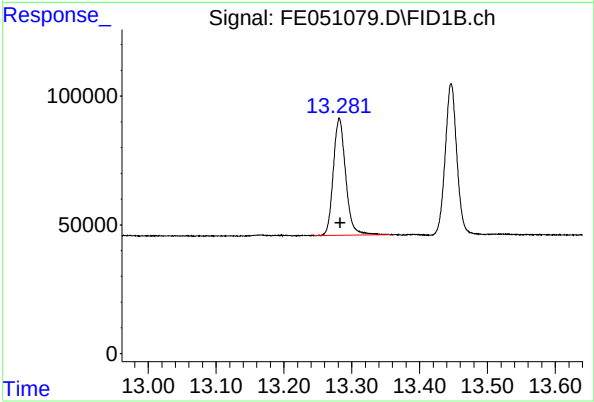
#10 n-Eicosane (C20)

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



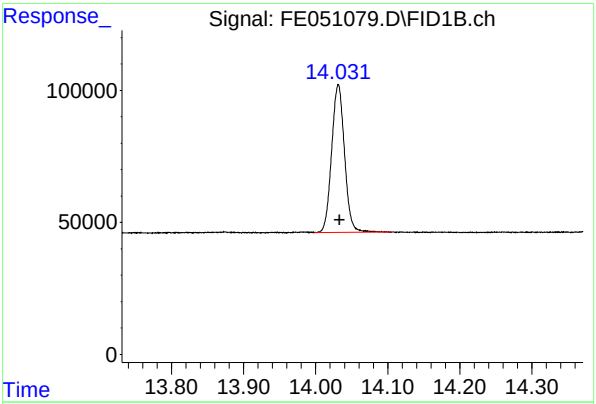
#11 n-Heneicosane (C21)

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



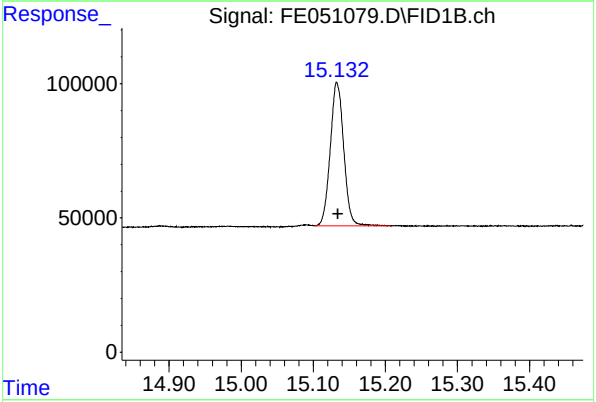
#13 n-Docosane (C22)

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

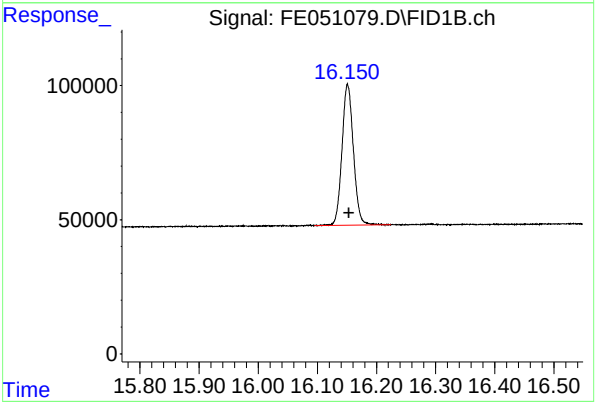
Manual Integrations APPROVED

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



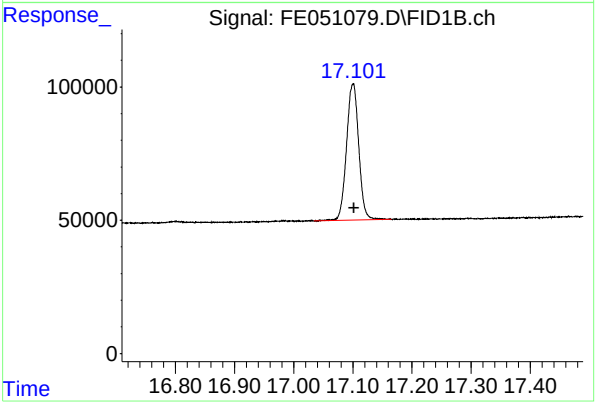
#14 n-Tetracosane (C24)

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



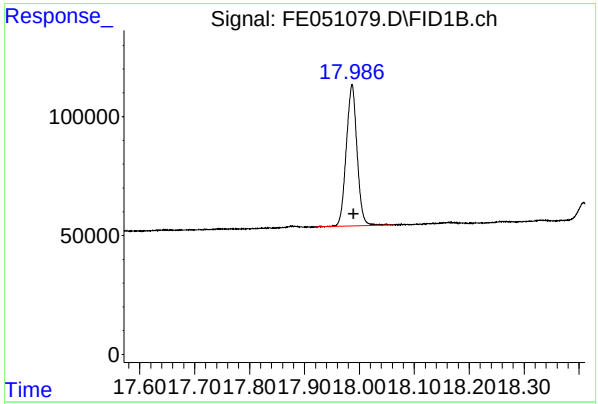
#15 n-Hexacosane (C26)

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



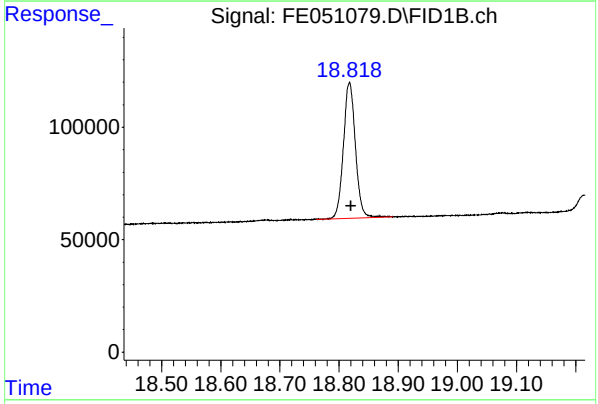
#17 n-Tricontane (C30)

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

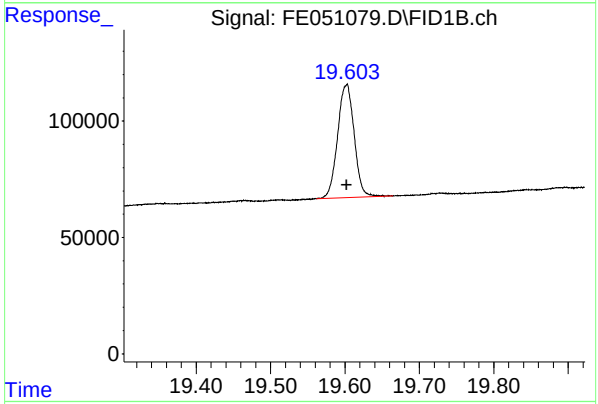
Manual Integrations
APPROVED

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



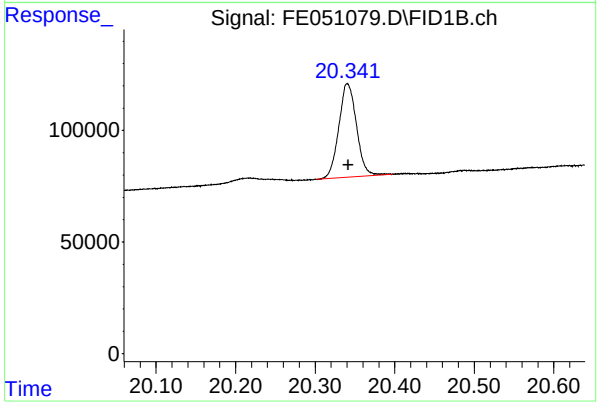
#18 n-Dotriacontane (C32)

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



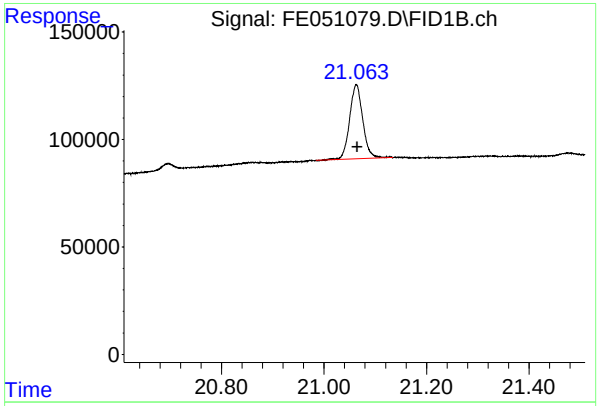
#19 n-Tetratriacontane (C34)

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



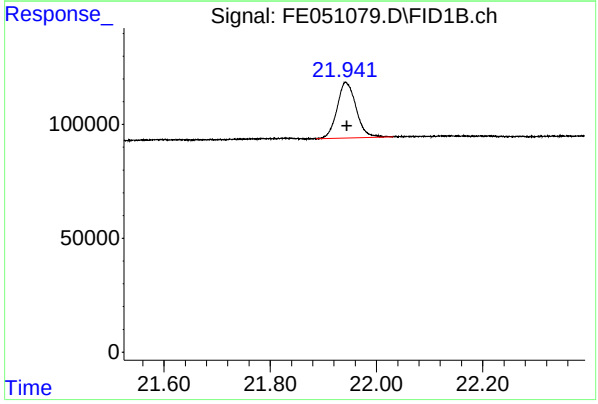
#21 n-Octatriacontane (C38)

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

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

Instrument :
FID_E
LabSampleId :
5 PPM ALIPHATIC HC STD5

rteres

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\FE11072
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

Quantitation Report (QT Reviewed)

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

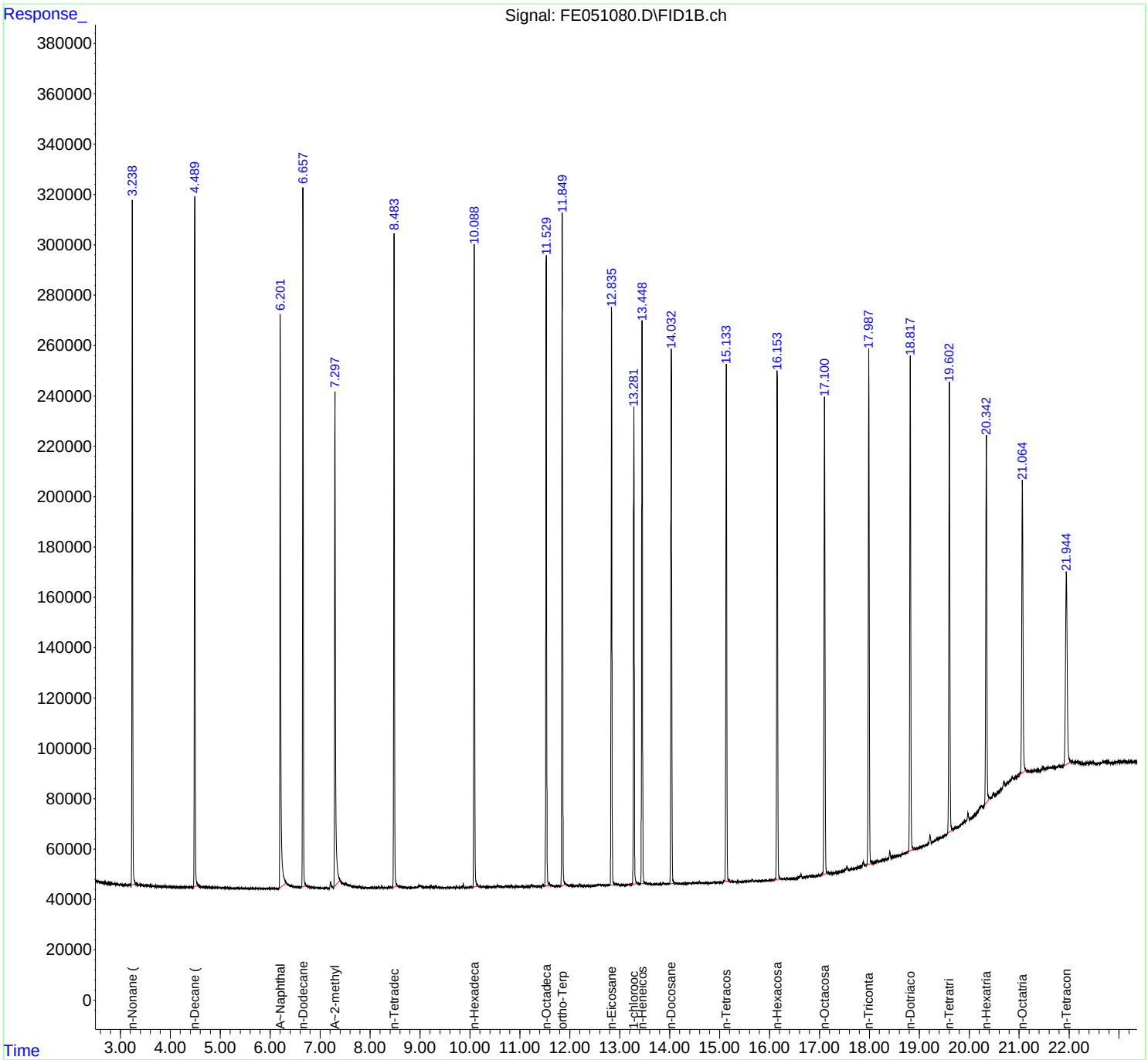
(f)=RT Delta > 1/2 Window (m)=manual int.

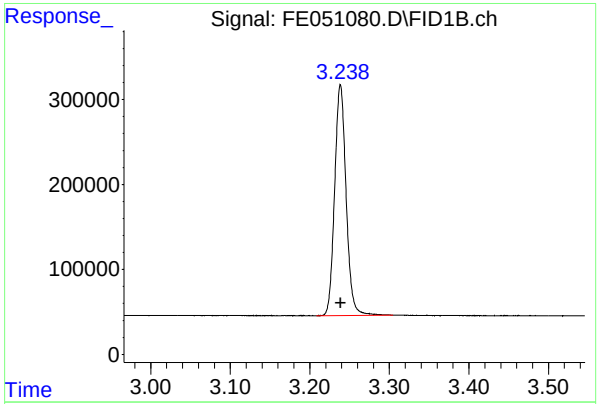
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051080.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 19:23
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 22 Sample Multiplier: 1

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

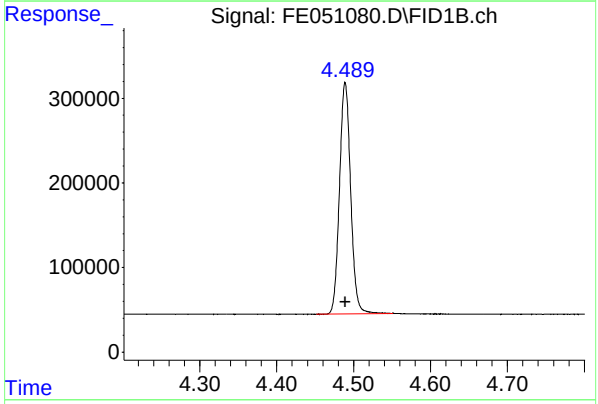




#1 n-Nonane (C9)

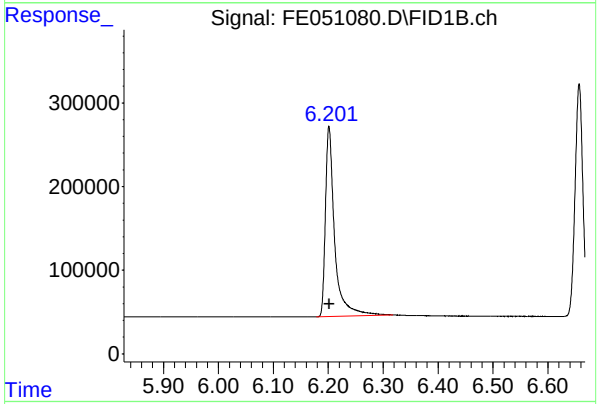
R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 2722511
Conc: 19.68 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



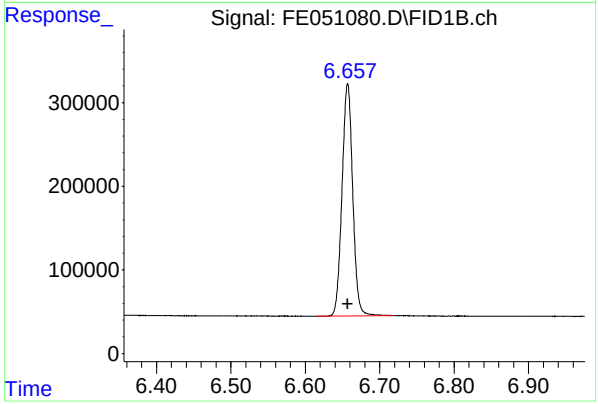
#2 n-Decane (C10)

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



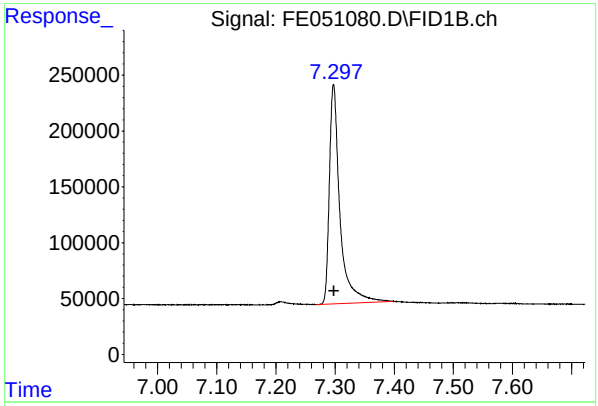
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

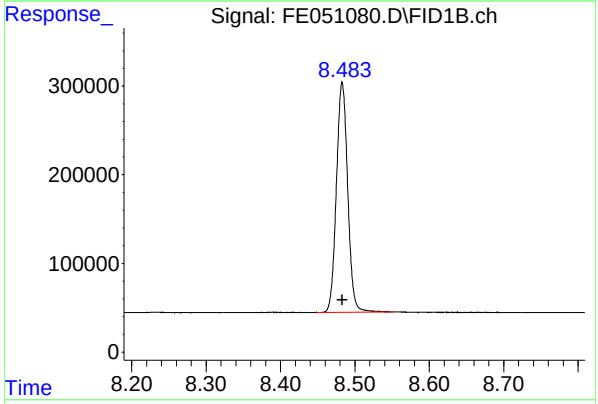
R.T.: 6.657 min
Delta R.T.: 0.000 min
Response: 2773973
Conc: 19.65 ug/ml



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

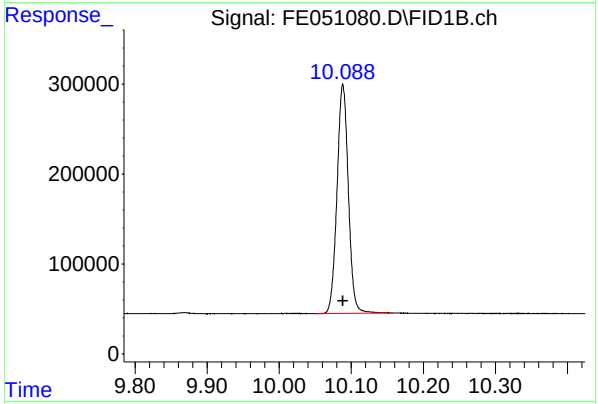
R.T.: 7.298 min
Delta R.T.: 0.000 min
Response: 2436503
Conc: 19.48 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



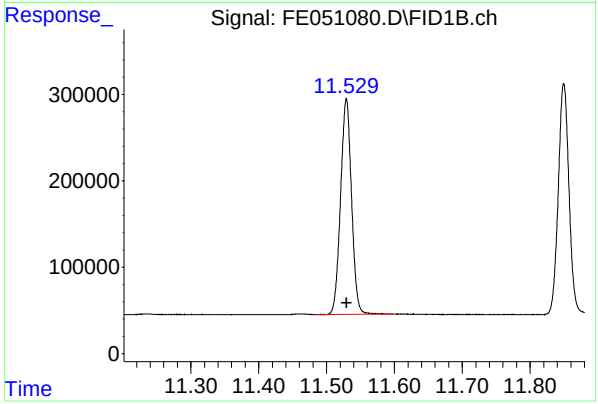
#6 n-Tetradecane (C14)

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



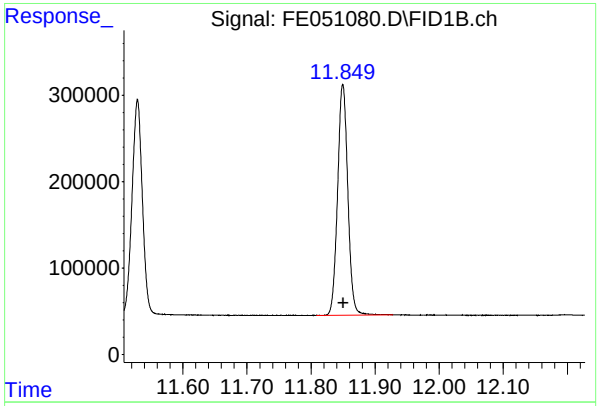
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

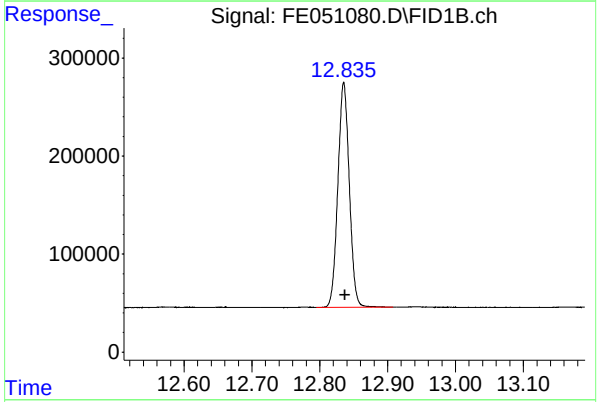
R.T.: 11.529 min
Delta R.T.: 0.000 min
Response: 2807159
Conc: 19.66 ug/ml



#9 ortho-Terphenyl (SURR)

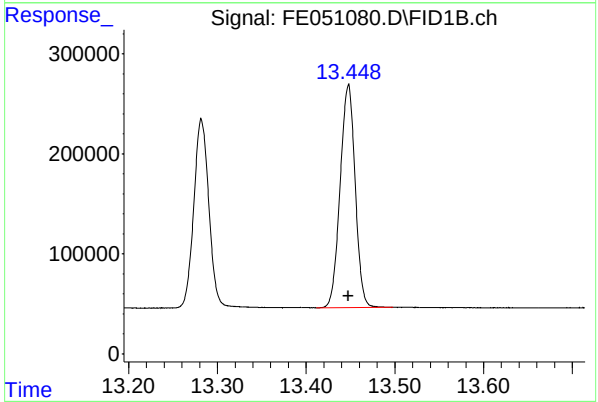
R.T.: 11.850 min
Delta R.T.: 0.000 min
Response: 2942288
Conc: 19.60 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



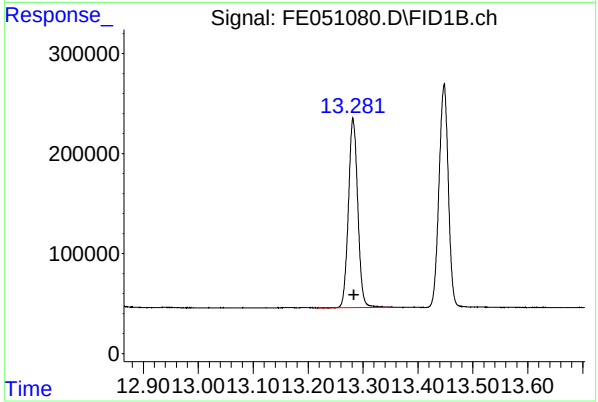
#10 n-Eicosane (C20)

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



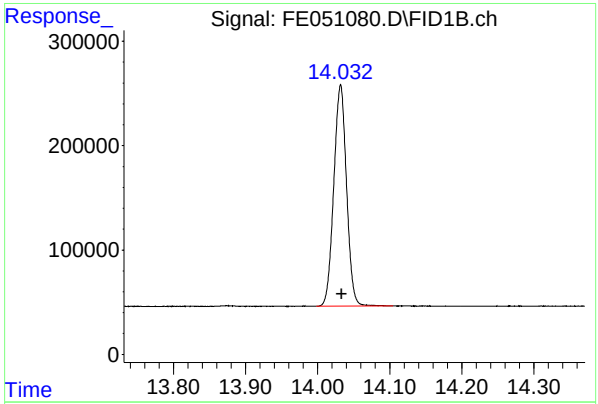
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

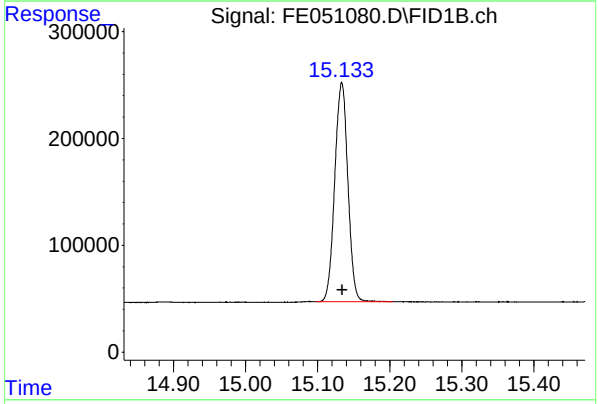
R.T.: 13.282 min
Delta R.T.: -0.001 min
Response: 2226415
Conc: 19.61 ug/ml



#13 n-Docosane (C22)

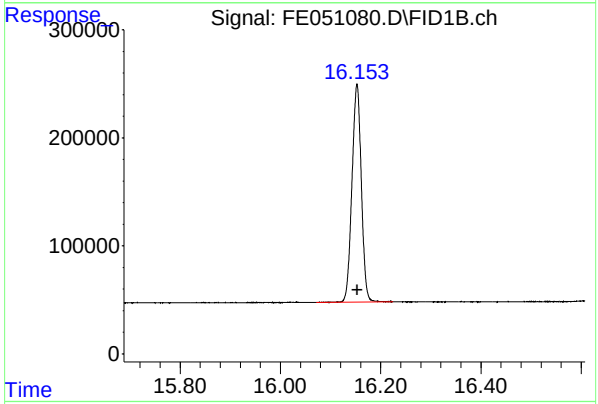
R.T.: 14.032 min
Delta R.T.: -0.002 min
Response: 2608929
Conc: 19.62 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



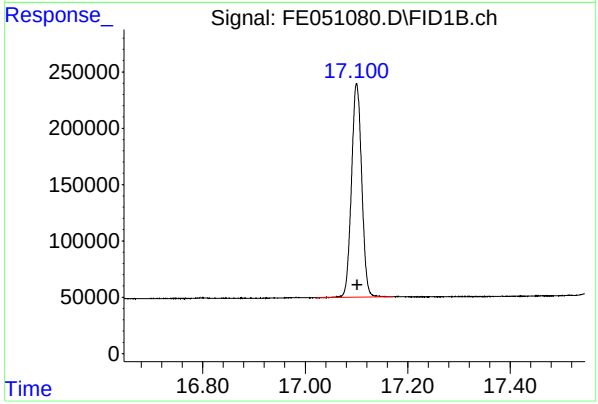
#14 n-Tetracosane (C24)

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



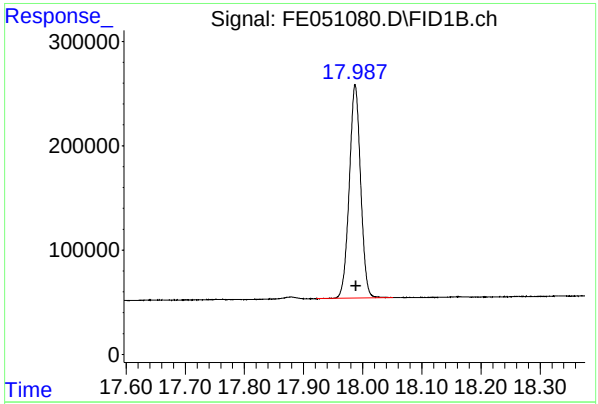
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

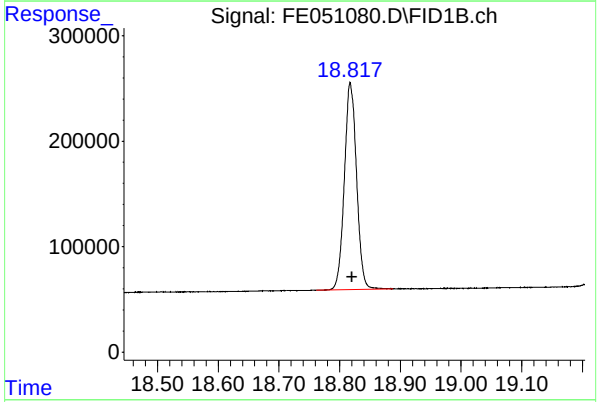
R.T.: 17.101 min
Delta R.T.: -0.001 min
Response: 2629871
Conc: 19.29 ug/ml



#17 n-Tricontane (C30)

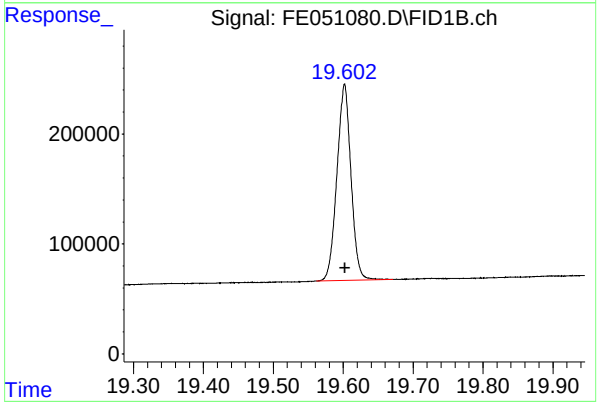
R.T.: 17.987 min
Delta R.T.: -0.002 min
Response: 2729015
Conc: 18.78 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



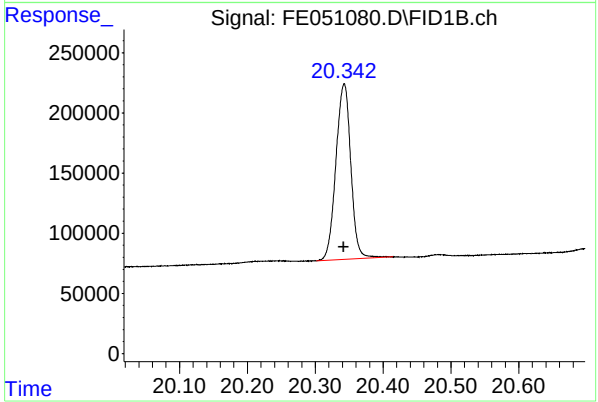
#18 n-Dotriacontane (C32)

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



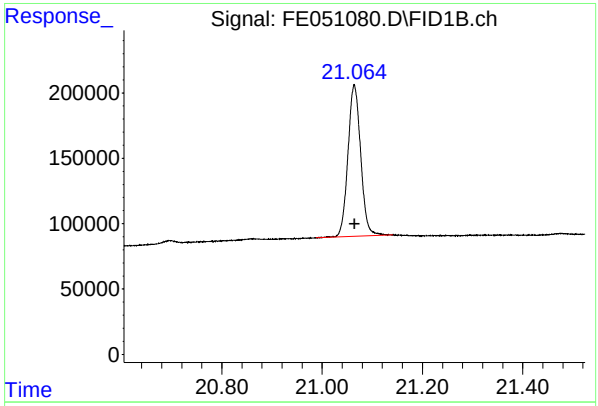
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

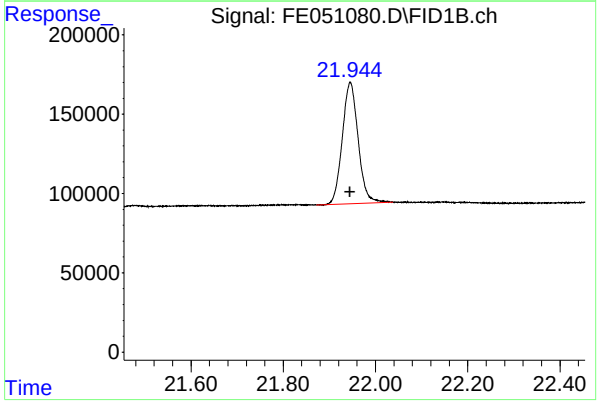
R.T.: 20.342 min
Delta R.T.: 0.000 min
Response: 2221919
Conc: 18.62 ug/ml



#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

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

Inital Calibration Report for SequenceID : FF110724AR

AreaCount

Parameter Range	FF014962.D	FF014963.D	FF014964.D	FF014965.D	FF014966.D	
Aromatic C10-C12	28868680.000	14964226.000	6421161.000	3185522.000	1590554.000	
Aromatic C12-C16	42990163.000	22411819.000	9573963.000	4746219.000	2359773.000	
Aromatic C16-C21	52959773.000	27582673.000	11784805.000	5857283.000	2928525.000	
Aromatic C21-C36	114141628.000	59439163.000	25697983.000	12790702.000	6588390.000	
Aromatic EPH	238960244.000	124397881.000	53477912.000	26579726.000	13467242.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	154569.237	4.65				
Aromatic C12-C16	153560.8439998	4.538				
Aromatic C16-C21	142096.237	4.672				
Aromatic C21-C36	138041.0419996	5.954				
Aromatic EPH	143365.2962218	5.217				

Concentration

Parameter Range	FF014962.D	FF014963.D	FF014964.D	FF014965.D	FF014966.D	
Aromatic C10-C12	200.000	100.000	40.000	20.000	10.000	
Aromatic C12-C16	300.000	150.000	60.000	30.000	15.000	
Aromatic C16-C21	400.000	200.000	80.000	40.000	20.000	
Aromatic C21-C36	900.000	450.000	180.000	90.000	45.000	
Aromatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

Parameter Range	FF014962.D	FF014963.D	FF014964.D	FF014965.D	FF014966.D	
Aromatic C10-C12	144343.400000	149642.260000	160529.025000	159276.100000	159055.400000	
Aromatic C12-C16	143300.543333	149412.126666	159566.050000	158207.300000	157318.200000	
Aromatic C16-C21	132399.432500	137913.365000	147310.062500	146432.075000	146426.250000	
Aromatic C21-C36	126824.031111	132087.028888	142766.572222	142118.911111	146408.666666	
Aromatic EPH	132755.691111	138219.867777	148549.755555	147665.144444	149636.022222	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014962.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 17:49
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 08 08:44:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	8.004	12422962	89.821 ug/ml
Spiked Amount	50.000		Recovery =	179.64%
6) S	2-Flurobiphenyl (SURR)	8.881	8355385	90.230 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	180.46%#
11) S	ortho-Terphenyl (SURR)	11.942	13667242	89.500 ug/ml
Spiked Amount	50.000		Recovery =	179.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.619	14196718	89.652 ug/ml
2) T	Naphthalene (C11.7)	6.286	14671962	90.176 ug/ml
3) T	2-Methylnaphthalene (...	7.381	14656666	89.717 ug/ml
5) T	Acenaphthylene (C15.06)	8.682	14182124	89.879 ug/ml
7) T	Acenaphthene (C15.5)	8.983	14151373	89.827 ug/ml
8) T	Flouorene (C16.55)	9.772	13843456	90.021 ug/ml
9) T	Phenanthrene (C19.36)	11.179	13560434	90.188 ug/ml
10) T	Anthracene (C19.43)	11.255	12697609	89.257 ug/ml
12) T	Fluoranthene (C21.85)	13.002	13042482	90.173 ug/ml
13) T	Pyrene (C20.8)	13.302	12858274	90.017 ug/ml
14) T	Benzo[a]anthracene (C...	15.182	12370256	89.854 ug/ml
15) T	Chrysene (C27.41)	15.230	12487877	89.463 ug/ml
16) T	benzo[b]fluoranthene ...	16.745	12785171	90.126 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.784	11850586	89.286 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	17.129	12555477	89.465 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.505	13034406	92.356 ug/mlm
20) T	Dibenz[a,h]anthracene...	18.545	12452315	81.023 ug/mlm
21) T	Benzo[g,h,i]perylene ...	18.769	13563058	88.499 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014962.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 17:49
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

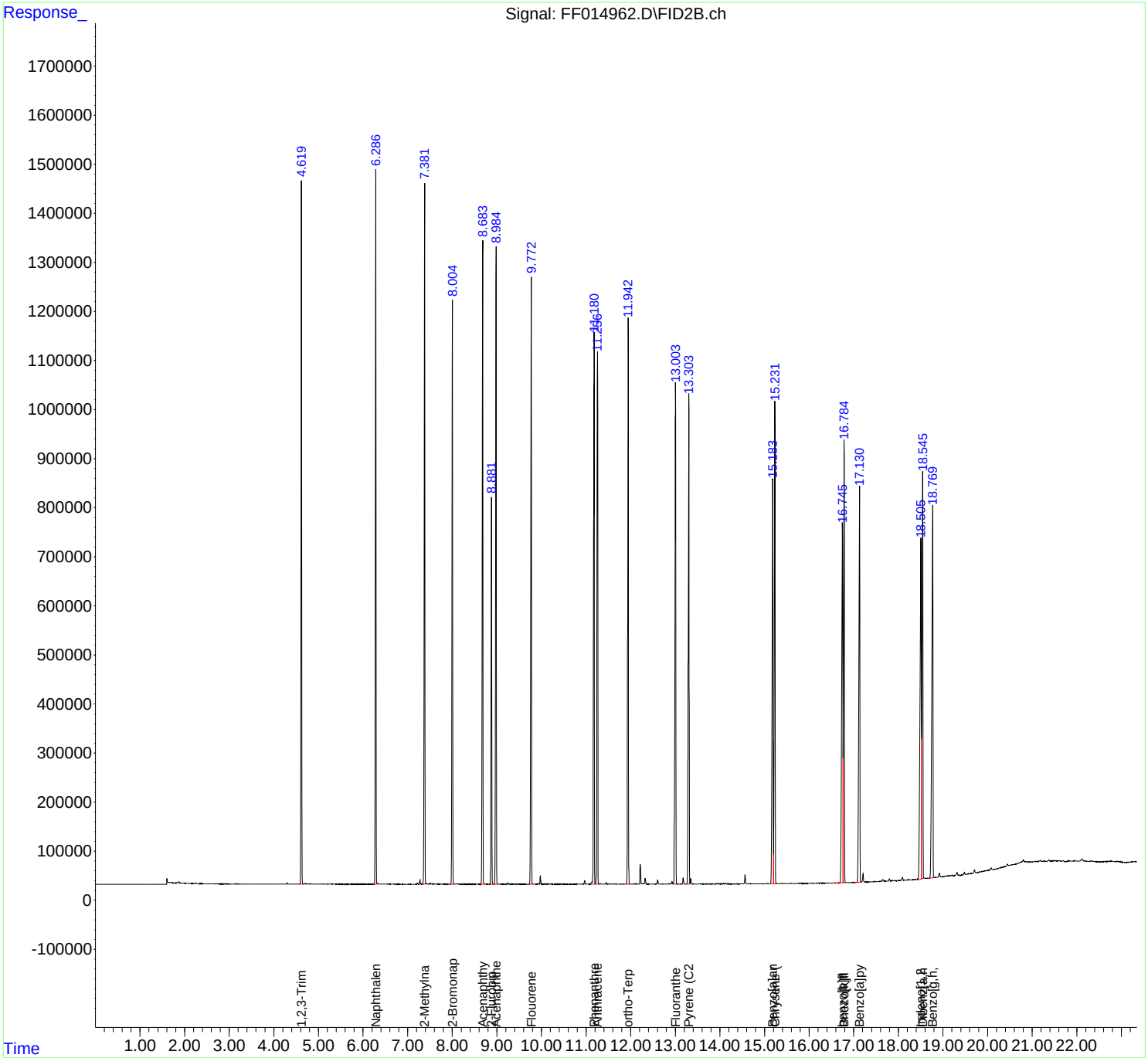
Integration File: autoint1.e
Quant Time: Nov 08 08:44:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

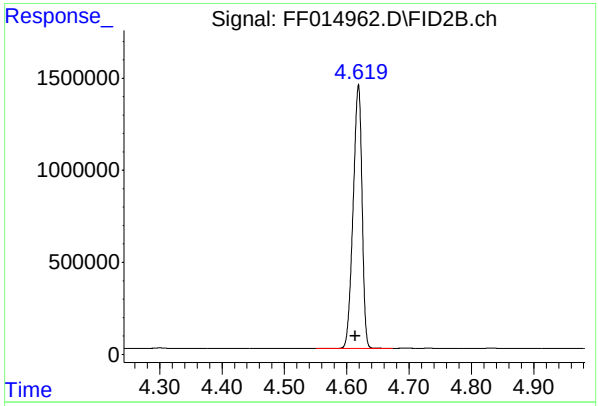
Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED

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





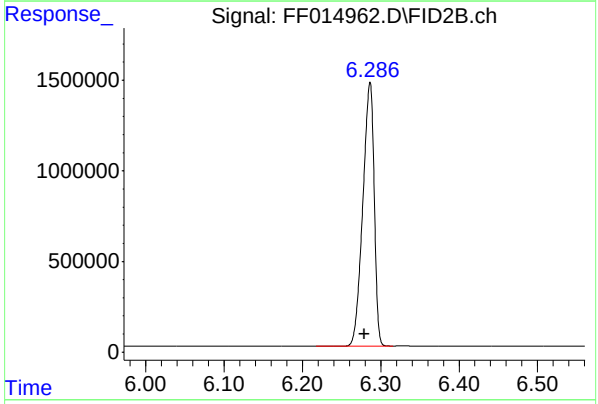
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.619 min
Delta R.T.: 0.005 min
Response: 14196718
Conc: 89.65 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

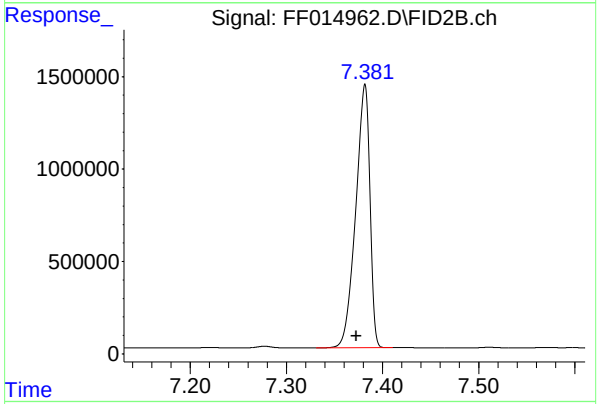
Manual Integrations
APPROVED

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



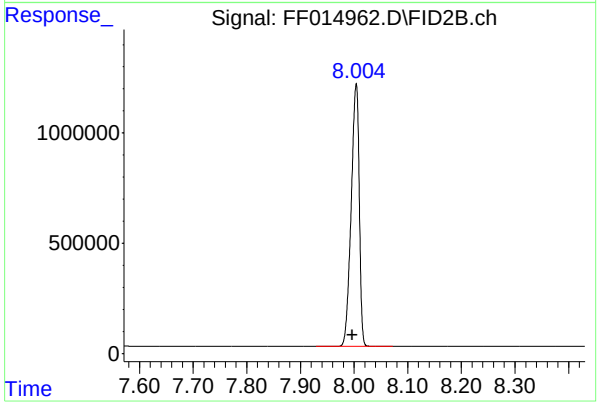
#2 Naphthalene (C11.7)

R.T.: 6.286 min
Delta R.T.: 0.007 min
Response: 14671962
Conc: 90.18 ug/ml



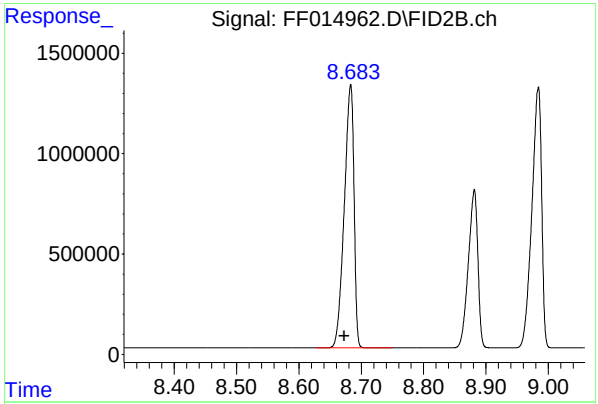
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.381 min
Delta R.T.: 0.008 min
Response: 14656666
Conc: 89.72 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 8.004 min
Delta R.T.: 0.007 min
Response: 12422962
Conc: 89.82 ug/ml



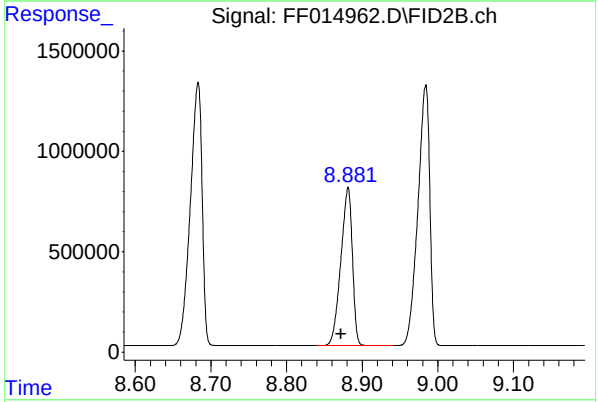
#5 Acenaphthylene (C15.06)

R.T.: 8.682 min
Delta R.T.: 0.010 min
Response: 14182124
Conc: 89.88 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

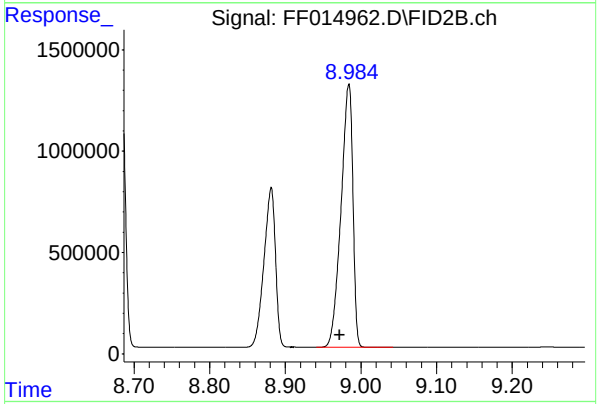
Manual Integrations
APPROVED

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



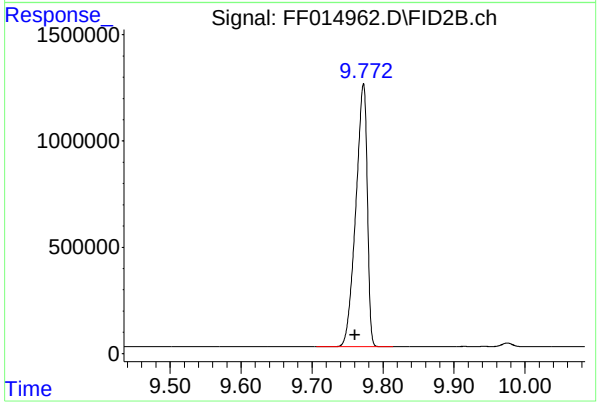
#6 2-Flurobiphenyl (SURR)

R.T.: 8.881 min
Delta R.T.: 0.009 min
Response: 8355385
Conc: 90.23 ug/ml



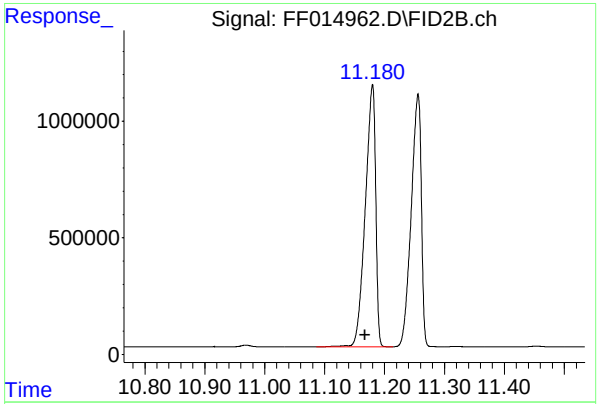
#7 Acenaphthene (C15.5)

R.T.: 8.983 min
Delta R.T.: 0.011 min
Response: 14151373
Conc: 89.83 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.772 min
Delta R.T.: 0.011 min
Response: 13843456
Conc: 90.02 ug/ml



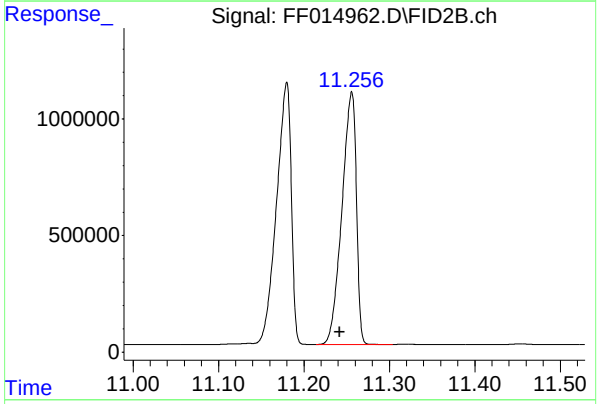
#9 Phenanthrene (C19.36)

R.T.: 11.179 min
Delta R.T.: 0.012 min
Response: 13560434
Conc: 90.19 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

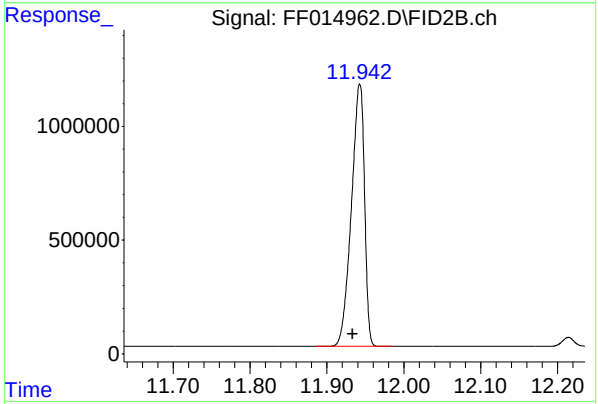
Manual Integrations
APPROVED

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



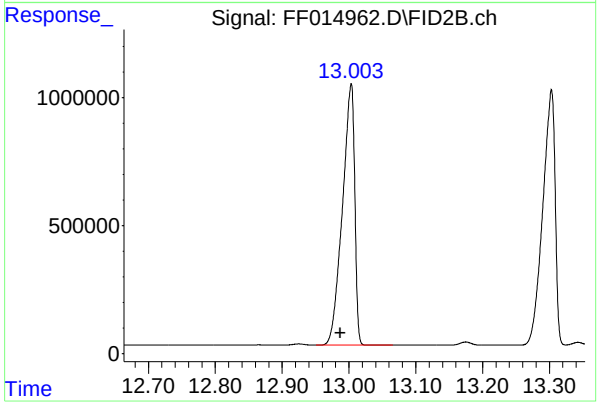
#10 Anthracene (C19.43)

R.T.: 11.255 min
Delta R.T.: 0.013 min
Response: 12697609
Conc: 89.26 ug/ml



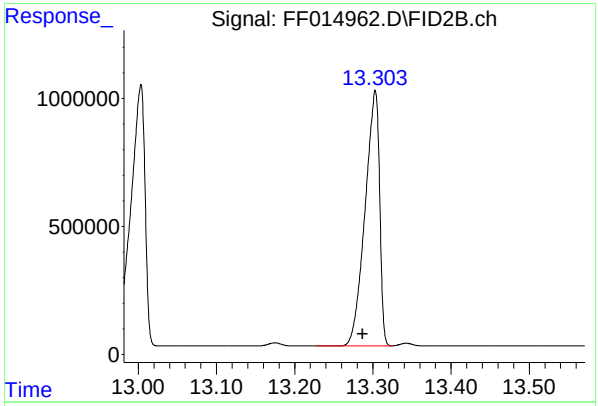
#11 ortho-Terphenyl (SURR)

R.T.: 11.942 min
Delta R.T.: 0.009 min
Response: 13667242
Conc: 89.50 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 13.002 min
Delta R.T.: 0.015 min
Response: 13042482
Conc: 90.17 ug/ml



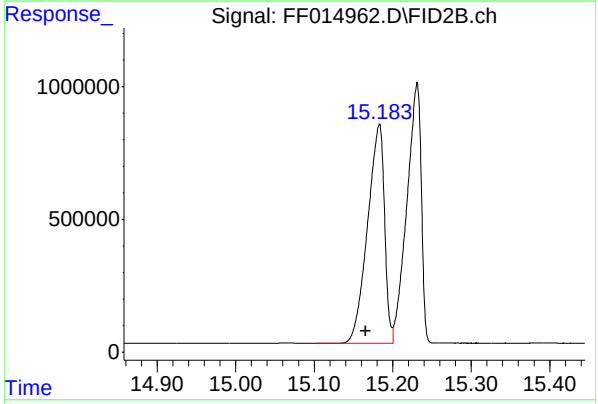
#13 Pyrene (C20.8)

R.T.: 13.302 min
Delta R.T.: 0.016 min
Response: 12858274
Conc: 90.02 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

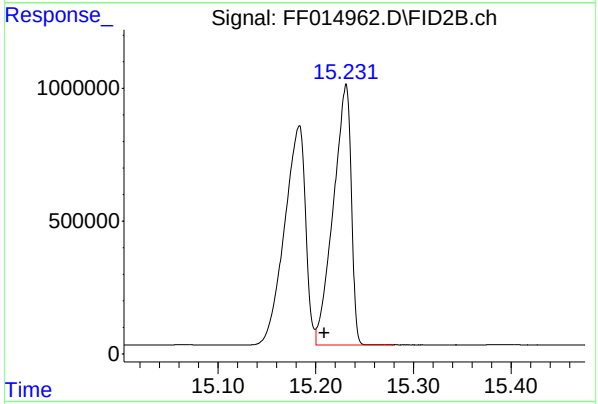
Manual Integrations
APPROVED

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



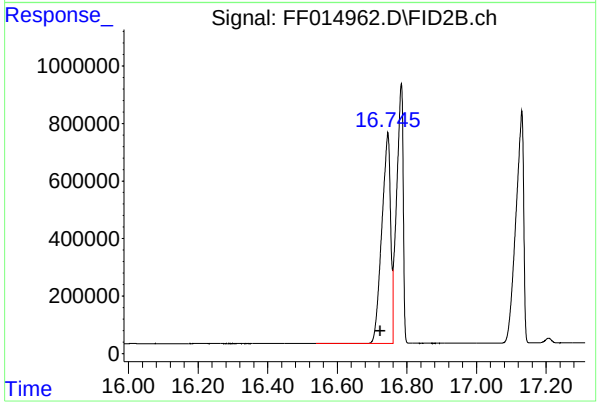
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.182 min
Delta R.T.: 0.017 min
Response: 12370256
Conc: 89.85 ug/ml



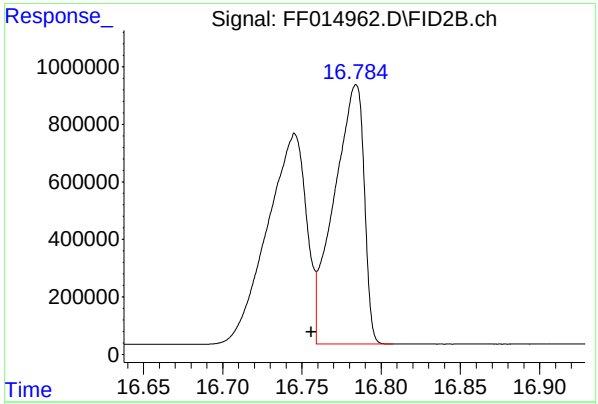
#15 Chrysene (C27.41)

R.T.: 15.230 min
Delta R.T.: 0.021 min
Response: 12487877
Conc: 89.46 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.745 min
Delta R.T.: 0.021 min
Response: 12785171
Conc: 90.13 ug/ml



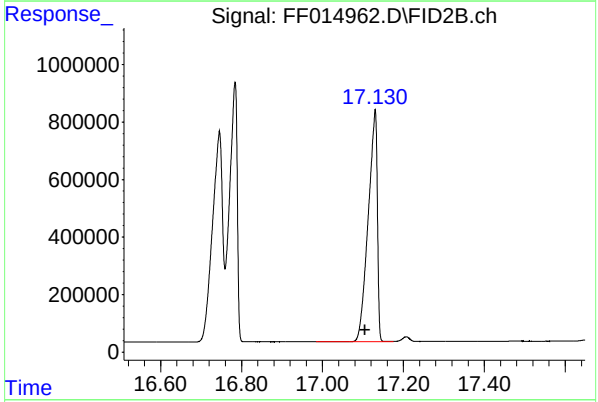
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.784 min
Delta R.T.: 0.028 mi
Response: 11850586
Conc: 89.29 ug/m

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

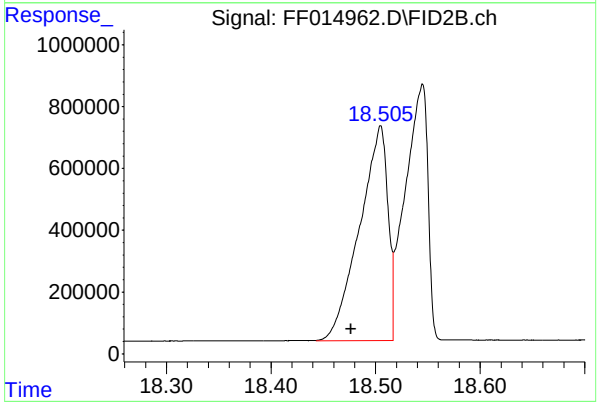
Manual Integrations
APPROVED

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



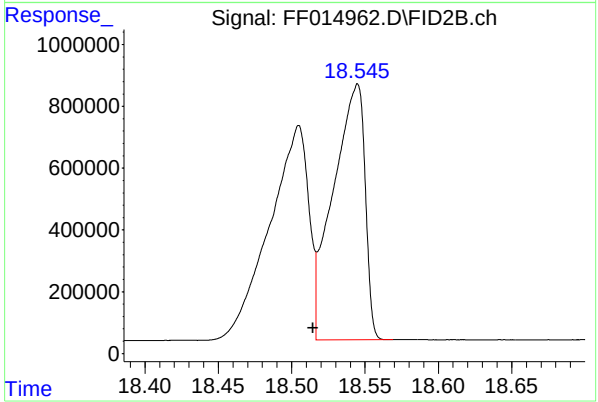
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.129 min
Delta R.T.: 0.024 min
Response: 12555477
Conc: 89.47 ug/ml



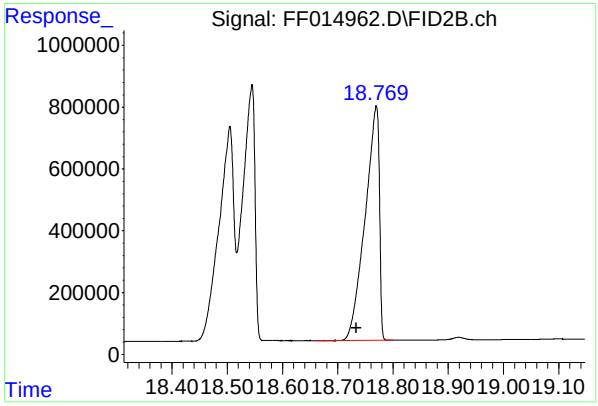
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.505 min
Delta R.T.: 0.029 min
Response: 13034406
Conc: 92.36 ug/ml m



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.545 min
Delta R.T.: 0.030 min
Response: 12452315
Conc: 81.02 ug/ml m



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.769 min
Delta R.T.: 0.035 mi
Response: 13563058
Conc: 88.50 ug/m

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED

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

rteres

Instrument :
FID_F
LabSampleId :
100 PPM AROMATIC HC STD1

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_F\Data\FF11072
Data File : FF014962.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 17:49
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.619	4.551	4.674	BV	1439542	14196718	96.76%	5.194%
2	6.286	6.217	6.316	BV	1455243	14671962	100.00%	5.368%
3	7.381	7.331	7.411	BV	1417689	14656666	99.90%	5.362%
4	8.004	7.929	8.072	BV	1193565	12422962	84.67%	4.545%
5	8.682	8.627	8.751	BB	1308832	14182124	96.66%	5.189%
6	8.881	8.839	8.941	BV	785823	8355385	56.95%	3.057%
7	8.983	8.941	9.042	VB	1301146	14151373	96.45%	5.177%
8	9.772	9.706	9.814	BB	1240764	13843456	94.35%	5.065%
9	11.179	11.086	11.214	BV	1120248	13560434	92.42%	4.961%
10	11.255	11.214	11.304	VV	1086803	12697609	86.54%	4.645%
11	11.942	11.886	11.986	BB	1155946	13667242	93.15%	5.000%
12	13.002	12.951	13.066	VB	1013870	13042482	88.89%	4.772%
13	13.302	13.227	13.326	BV	998661	12858274	87.64%	4.704%
14	15.182	15.102	15.200	BV	822219	12370256	84.31%	4.526%
15	15.230	15.200	15.279	VB	982369	12487877	85.11%	4.569%
16	16.745	16.539	16.760	BV	726302	12785171	87.14%	4.677%
17	16.783	16.760	16.841	VB	896883	11773296	80.24%	4.307%
18	17.129	16.984	17.174	BV	797898	12555477	85.57%	4.593%
19	18.504	18.294	18.517	BV	694232	13089914	89.22%	4.789%
20	18.544	18.517	18.601	VB	824051	12402005	84.53%	4.537%
21	18.769	18.661	18.800	BBA	757758	13563058	92.44%	4.962%

Sum of corrected areas: 273333740

Aromatic EPH 110724.M Fri Nov 08 08:57:24 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014963.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 18:18
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 08 08:44:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.999	6462526	46.725 ug/ml
Spiked Amount	50.000		Recovery =	93.45%
6)	S 2-Flurobiphenyl (SURR)	8.876	4344904	46.921 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	93.84%
11)	S ortho-Terphenyl (SURR)	11.937	7136048	46.730 ug/ml
Spiked Amount	50.000		Recovery =	93.46%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.616	7358676	46.470 ug/ml
2)	T Naphthalene (C11.7)	6.281	7605550	46.745 ug/ml
3)	T 2-Methylnaphthalene (...	7.376	7638820	46.759 ug/ml
5)	T Acenaphthylene (C15.06)	8.677	7397048	46.878 ug/ml
7)	T Acenaphthene (C15.5)	8.977	7375951	46.819 ug/ml
8)	T Flouorene (C16.55)	9.765	7212712	46.903 ug/ml
9)	T Phenanthrene (C19.36)	11.172	7053373	46.911 ug/ml
10)	T Anthracene (C19.43)	11.247	6643208	46.698 ug/ml
12)	T Fluoranthene (C21.85)	12.994	6772296	46.822 ug/ml
13)	T Pyrene (C20.8)	13.294	6673380	46.718 ug/ml
14)	T Benzo[a]anthracene (C...	15.173	6409798	46.559 ug/ml
15)	T Chrysene (C27.41)	15.218	6479862	46.422 ug/ml
16)	T benzo[b]fluoranthene ...	16.733	6584875	46.418 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.768	6154193	46.368 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.116	6528554	46.520 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.488	6715052	47.580 ug/ml
20)	T Dibenz[a,h]anthracene...	18.527	6708461	43.650 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.750	7086072	46.236 ug/ml

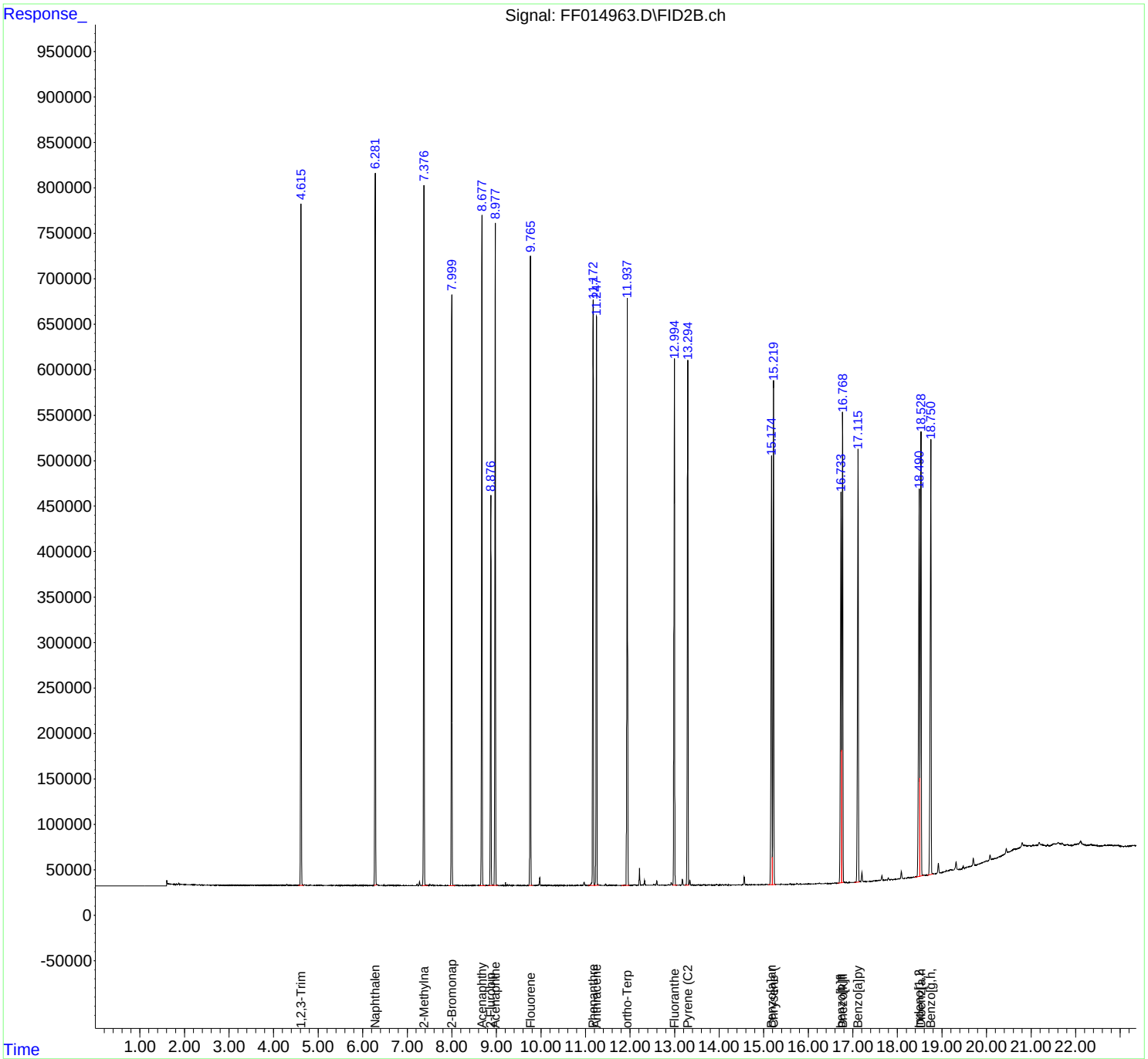
(f)=RT Delta > 1/2 Window (m)=manual int.

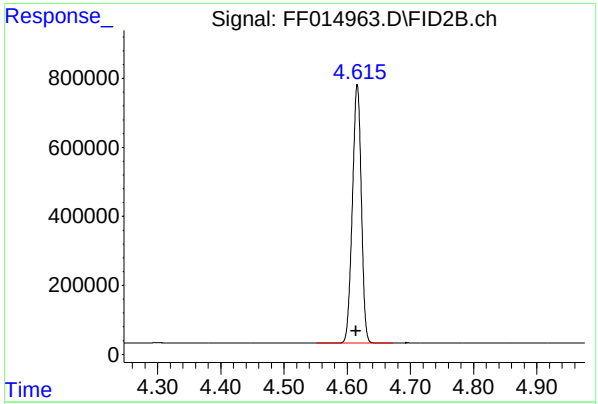
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014963.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 18:18
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 08 08:44:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

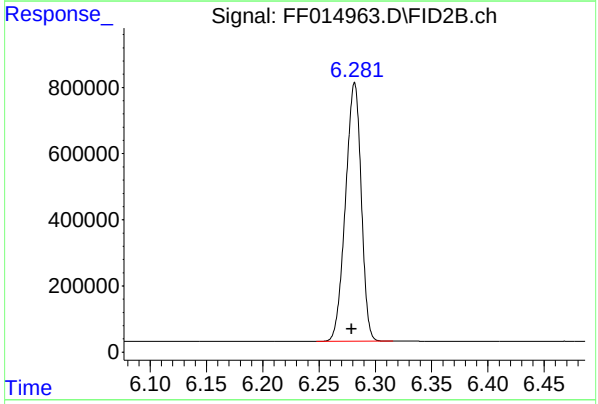




#1 1,2,3-Trimethylbenzene (C10.1)

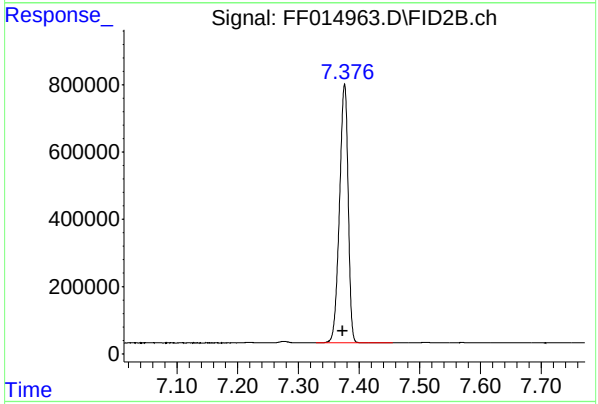
R.T.: 4.616 min
Delta R.T.: 0.002 min
Response: 7358676
Conc: 46.47 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



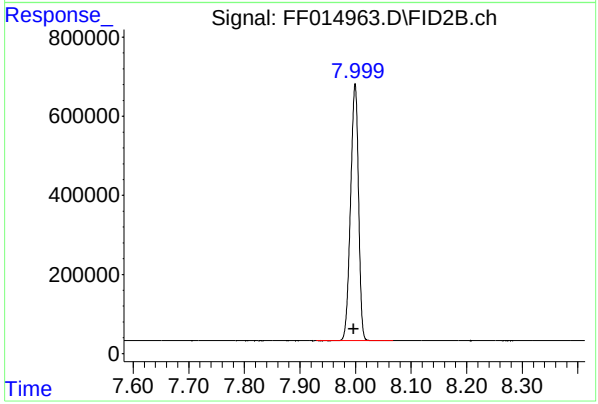
#2 Naphthalene (C11.7)

R.T.: 6.281 min
Delta R.T.: 0.002 min
Response: 7605550
Conc: 46.74 ug/ml



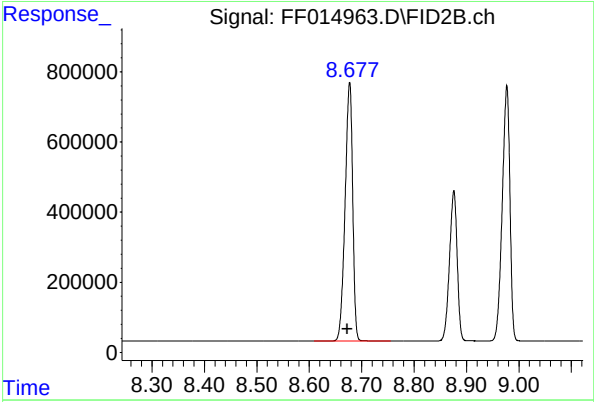
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.376 min
Delta R.T.: 0.003 min
Response: 7638820
Conc: 46.76 ug/ml



#4 2-Bromonaphthalene (SURR)

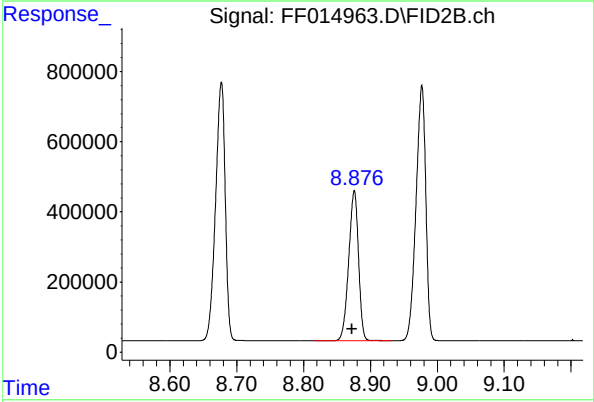
R.T.: 7.999 min
Delta R.T.: 0.002 min
Response: 6462526
Conc: 46.73 ug/ml



#5 Acenaphthylene (C15.06)

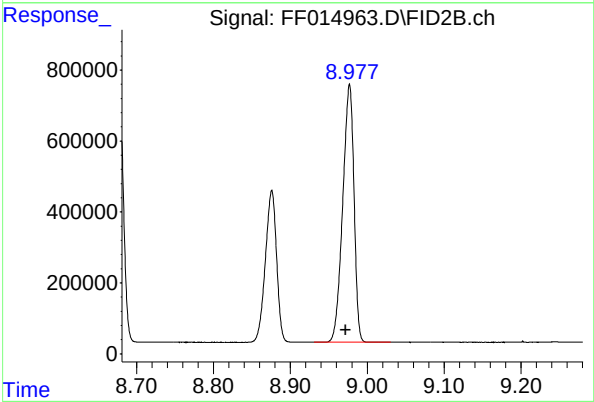
R.T.: 8.677 min
Delta R.T.: 0.004 min
Response: 7397048
Conc: 46.88 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



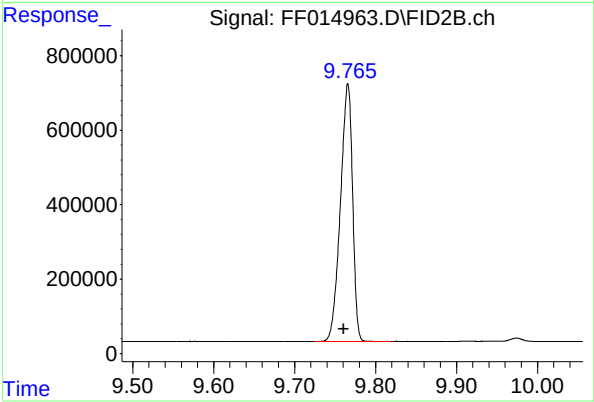
#6 2-Flurobiphenyl (SURR)

R.T.: 8.876 min
Delta R.T.: 0.004 min
Response: 4344904
Conc: 46.92 ug/ml



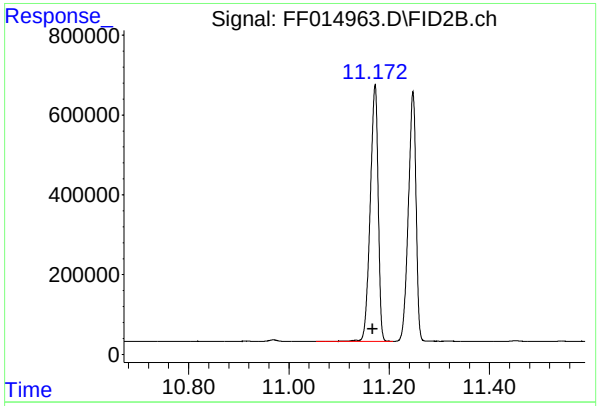
#7 Acenaphthene (C15.5)

R.T.: 8.977 min
Delta R.T.: 0.005 min
Response: 7375951
Conc: 46.82 ug/ml



#8 Flouorene (C16.55)

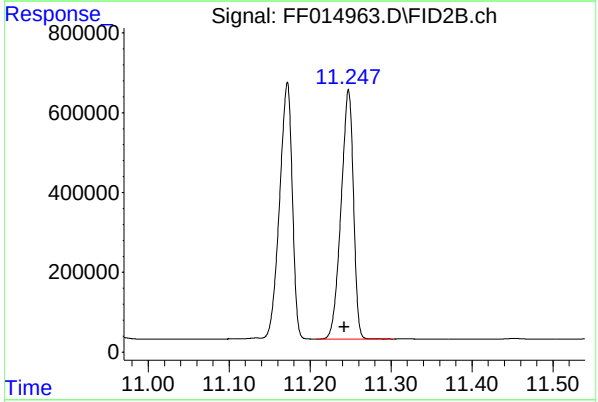
R.T.: 9.765 min
Delta R.T.: 0.005 min
Response: 7212712
Conc: 46.90 ug/ml



#9 Phenanthrene (C19.36)

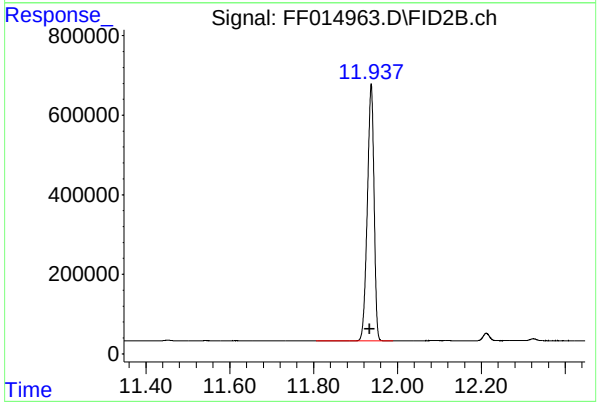
R.T.: 11.172 min
Delta R.T.: 0.004 min
Response: 7053373
Conc: 46.91 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



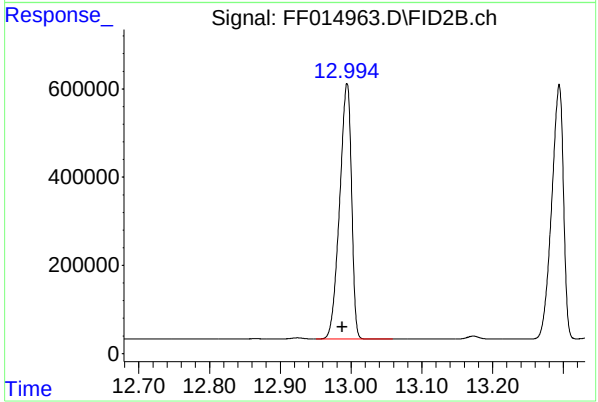
#10 Anthracene (C19.43)

R.T.: 11.247 min
Delta R.T.: 0.005 min
Response: 6643208
Conc: 46.70 ug/ml



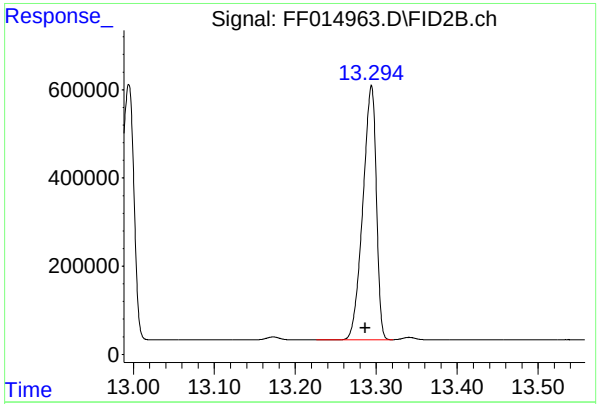
#11 ortho-Terphenyl (SURR)

R.T.: 11.937 min
Delta R.T.: 0.004 min
Response: 7136048
Conc: 46.73 ug/ml



#12 Fluoranthene (C21.85)

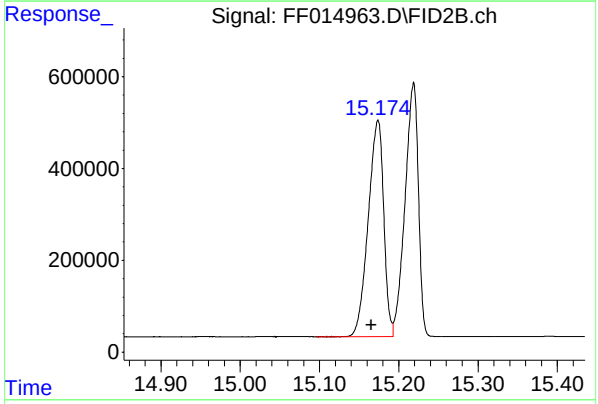
R.T.: 12.994 min
Delta R.T.: 0.007 min
Response: 6772296
Conc: 46.82 ug/ml



#13 Pyrene (C20.8)

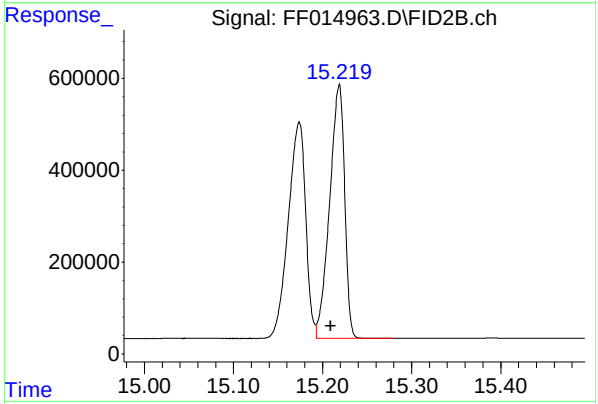
R.T.: 13.294 min
Delta R.T.: 0.007 mi
Response: 6673380
Conc: 46.72 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



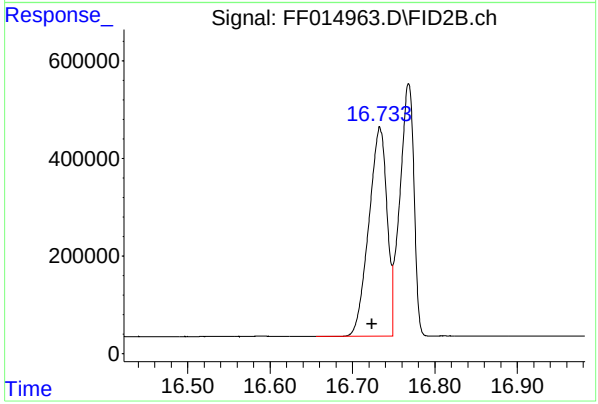
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.173 min
Delta R.T.: 0.008 min
Response: 6409798
Conc: 46.56 ug/ml



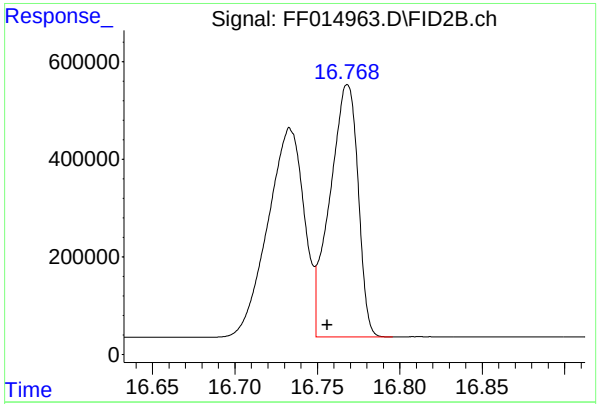
#15 Chrysene (C27.41)

R.T.: 15.218 min
Delta R.T.: 0.009 min
Response: 6479862
Conc: 46.42 ug/ml



#16 benzo[b]fluoranthene (C30.41)

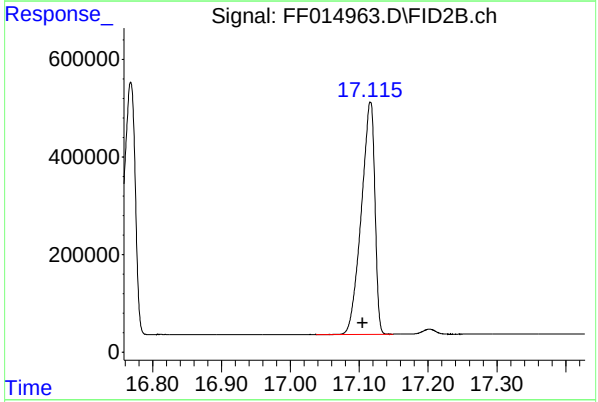
R.T.: 16.733 min
Delta R.T.: 0.009 min
Response: 6584875
Conc: 46.42 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

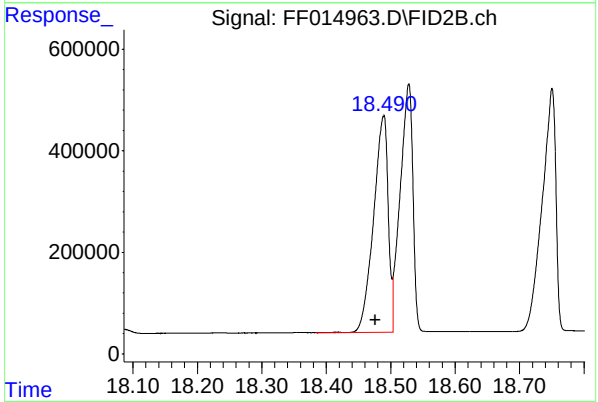
R.T.: 16.768 min
Delta R.T.: 0.012 min
Response: 6154193
Conc: 46.37 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



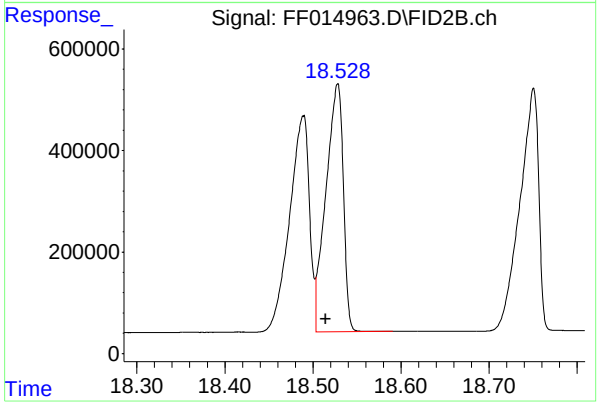
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.116 min
Delta R.T.: 0.011 min
Response: 6528554
Conc: 46.52 ug/ml



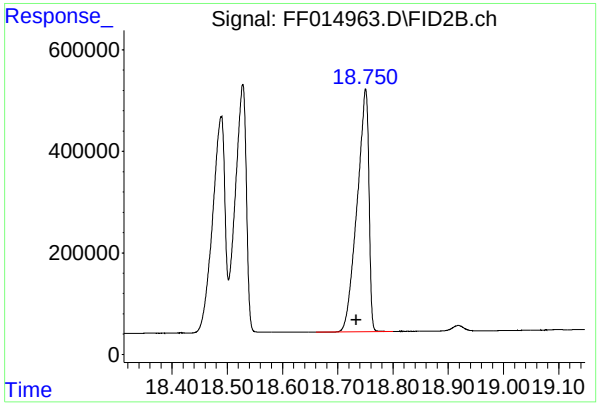
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.488 min
Delta R.T.: 0.012 min
Response: 6715052
Conc: 47.58 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.527 min
Delta R.T.: 0.013 min
Response: 6708461
Conc: 43.65 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.750 min
Delta R.T.: 0.016 mi
Response: 7086072
Conc: 46.24 ug/m

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014963.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 18:18
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.616	4.551	4.672	BV	750224	7358676	96.33%	5.170%
2	6.281	6.247	6.316	BV	780435	7605550	99.56%	5.343%
3	7.376	7.329	7.456	BB	768616	7638820	100.00%	5.367%
4	7.999	7.929	8.067	BB	650096	6462526	84.60%	4.540%
5	8.677	8.609	8.756	BB	741944	7397048	96.83%	5.197%
6	8.876	8.816	8.931	BV	429100	4344904	56.88%	3.052%
7	8.977	8.931	9.031	VB	732364	7375951	96.56%	5.182%
8	9.765	9.724	9.819	BB	695064	7212712	94.42%	5.067%
9	11.172	11.054	11.207	BV	639031	7053373	92.34%	4.955%
10	11.247	11.207	11.302	VV	626844	6643208	86.97%	4.667%
11	11.937	11.806	11.989	BB	646989	7136048	93.42%	5.013%
12	12.994	12.950	13.059	VB	581165	6772296	88.66%	4.758%
13	13.294	13.226	13.321	BV	579556	6673380	87.36%	4.688%
14	15.173	15.096	15.193	BV	473127	6409798	83.91%	4.503%
15	15.218	15.193	15.279	VB	548122	6479862	84.83%	4.552%
16	16.733	16.656	16.749	BV	428622	6584875	86.20%	4.626%
17	16.768	16.749	16.796	VV	518289	6154193	80.56%	4.324%
18	17.116	17.037	17.149	BV	477536	6528554	85.47%	4.587%
19	18.488	18.384	18.503	BV	425871	6715052	87.91%	4.718%
20	18.527	18.503	18.591	VB	488882	6708461	87.82%	4.713%
21	18.750	18.661	18.800	BBA	476604	7086072	92.76%	4.978%

Sum of corrected areas: 142341358

Aromatic EPH 110724.M Fri Nov 08 08:57:54 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014964.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 18:46
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 08 08:45:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.997	2766167	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
6)	S 2-Flurobiphenyl (SURR)	8.872	1852016	20.000 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 40.00%	
11)	S ortho-Terphenyl (SURR)	11.933	3054141	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.614	3167074	20.000 ug/ml
2)	T Naphthalene (C11.7)	6.279	3254087	20.000 ug/ml
3)	T 2-Methylnaphthalene (...	7.373	3267320	20.000 ug/ml
5)	T Acenaphthylene (C15.06)	8.673	3155839	20.000 ug/ml
7)	T Acenaphthene (C15.5)	8.972	3150804	20.000 ug/ml
8)	T Flouorene (C16.55)	9.761	3075611	20.000 ug/ml
9)	T Phenanthrene (C19.36)	11.167	3007153	20.000 ug/ml
10)	T Anthracene (C19.43)	11.242	2845179	20.000 ug/ml
12)	T Fluoranthene (C21.85)	12.987	2892760	20.000 ug/ml
13)	T Pyrene (C20.8)	13.287	2856862	20.000 ug/ml
14)	T Benzo[a]anthracene (C...	15.165	2753408	20.000 ug/ml
15)	T Chrysene (C27.41)	15.209	2791744	20.000 ug/ml
16)	T benzo[b]fluoranthene ...	16.724	2837191	20.000 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.756	2654525	20.000 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.105	2806782	20.000 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.476	2822651	20.000 ug/ml
20)	T Dibenz[a,h]anthracene...	18.514	3073773	20.000 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.734	3065149	20.000 ug/ml

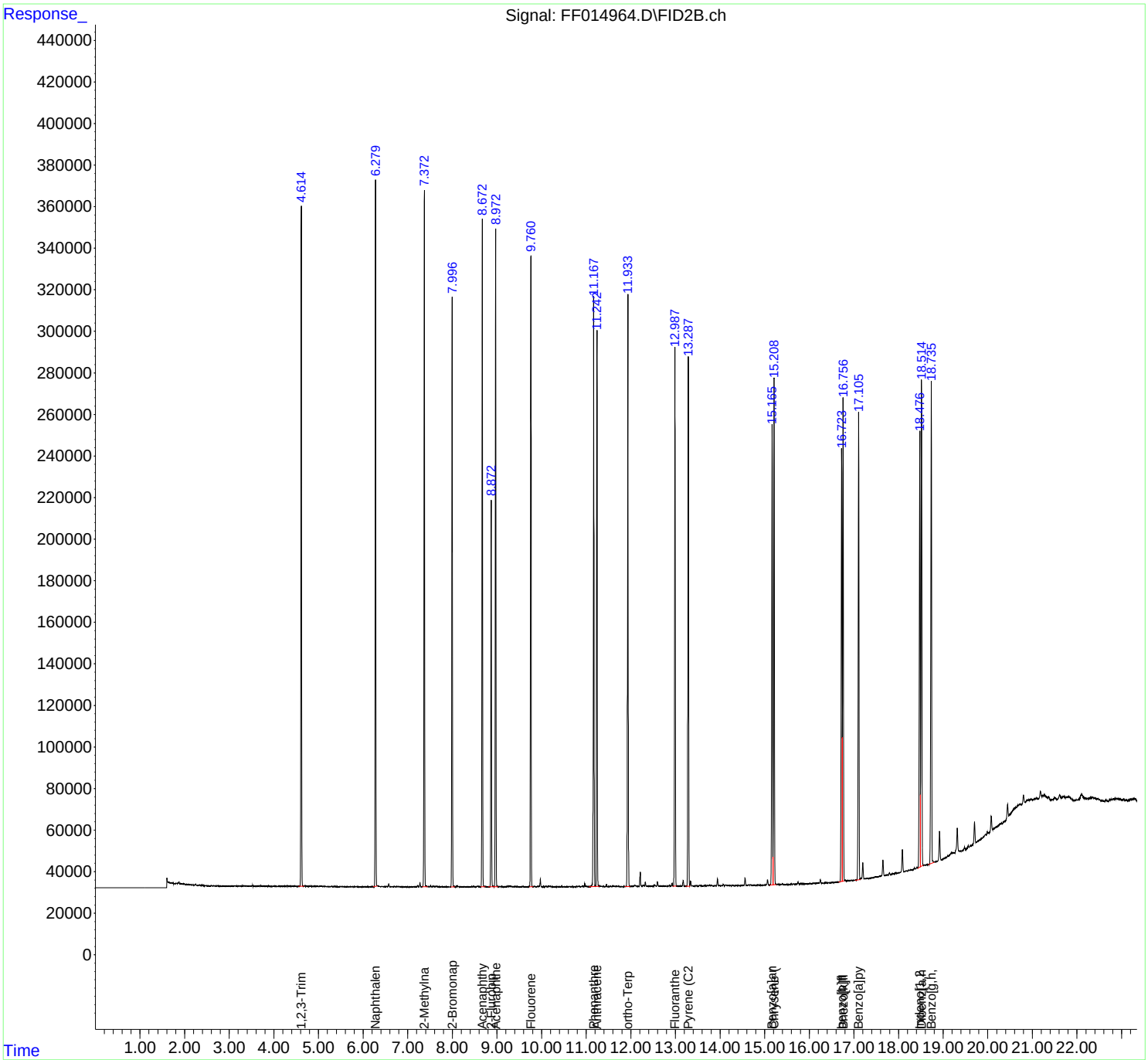
(f)=RT Delta > 1/2 Window (m)=manual int.

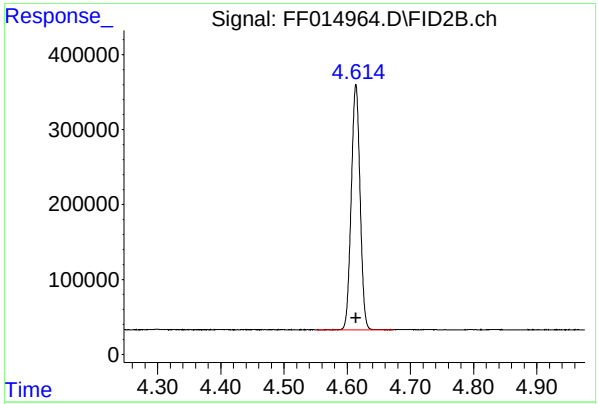
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014964.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 18:46
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 08 08:45:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

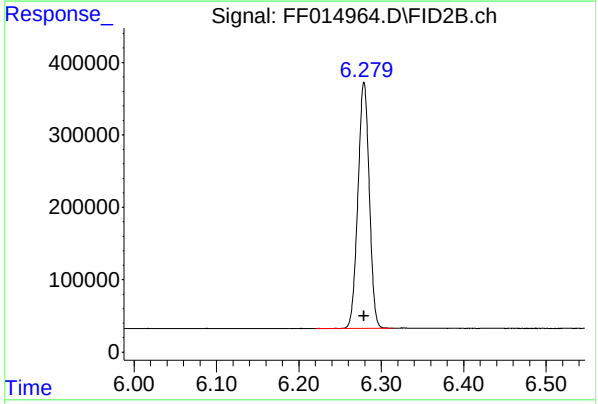




#1 1,2,3-Trimethylbenzene (C10.1)

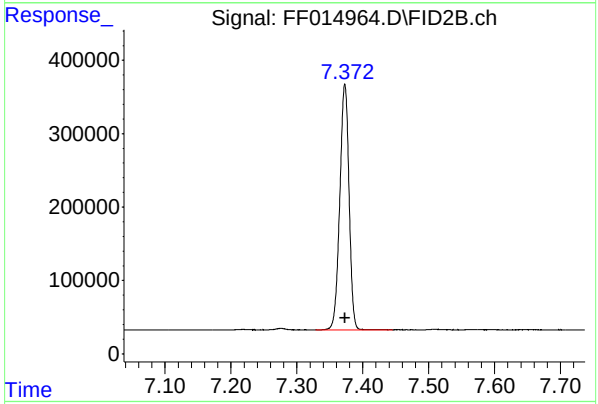
R.T.: 4.614 min
Delta R.T.: 0.000 min
Response: 3167074
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



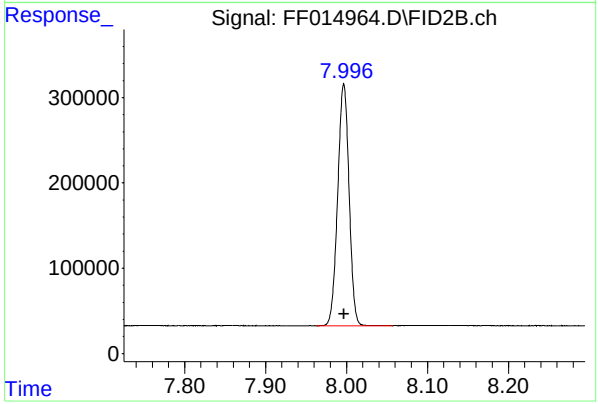
#2 Naphthalene (C11.7)

R.T.: 6.279 min
Delta R.T.: 0.000 min
Response: 3254087
Conc: 20.00 ug/ml



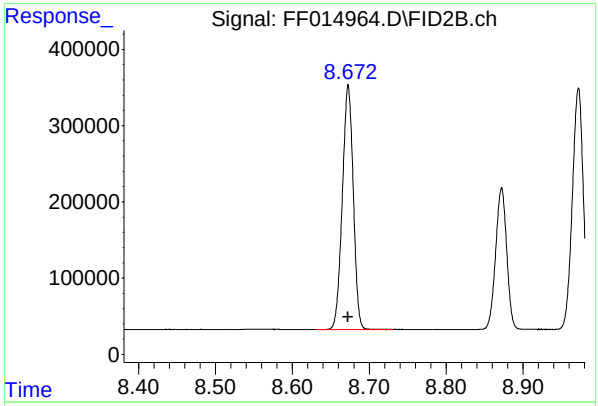
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.373 min
Delta R.T.: 0.000 min
Response: 3267320
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

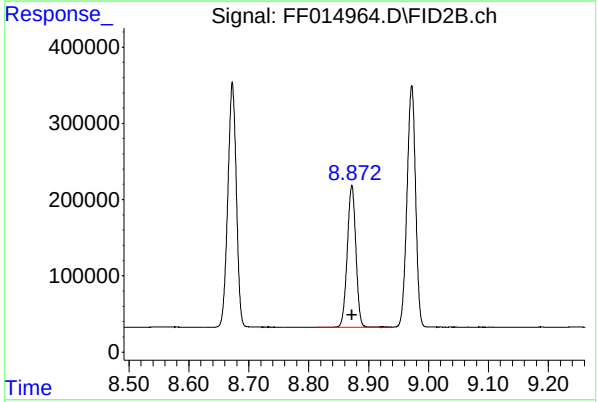
R.T.: 7.997 min
Delta R.T.: 0.000 min
Response: 2766167
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

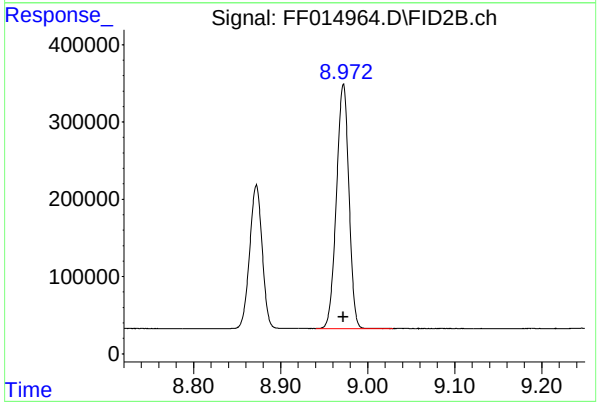
R.T.: 8.673 min
Delta R.T.: 0.000 min
Response: 3155839
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



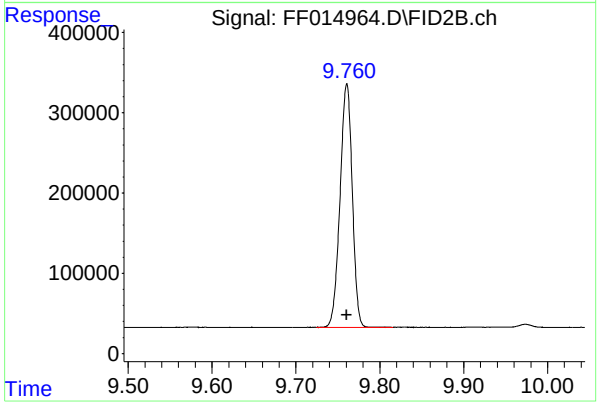
#6 2-Flurobiphenyl (SURR)

R.T.: 8.872 min
Delta R.T.: 0.000 min
Response: 1852016
Conc: 20.00 ug/ml



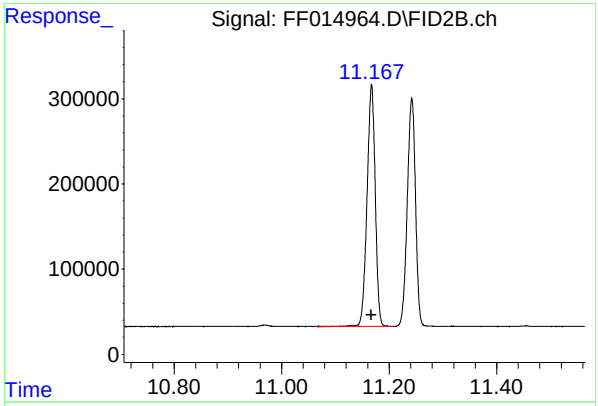
#7 Acenaphthene (C15.5)

R.T.: 8.972 min
Delta R.T.: 0.000 min
Response: 3150804
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

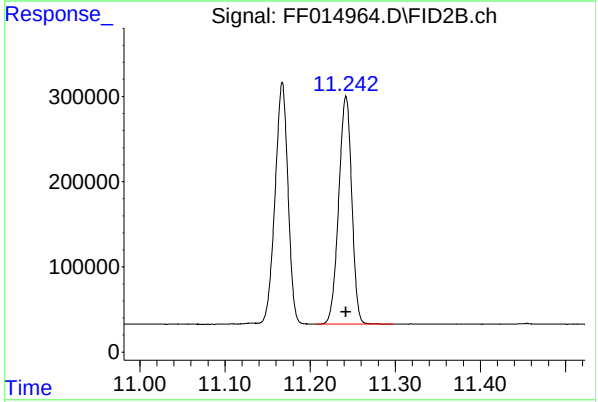
R.T.: 9.761 min
Delta R.T.: 0.000 min
Response: 3075611
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

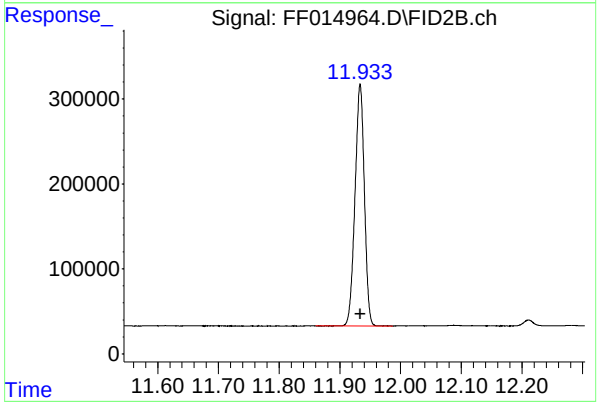
R.T.: 11.167 min
Delta R.T.: 0.000 min
Response: 3007153
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



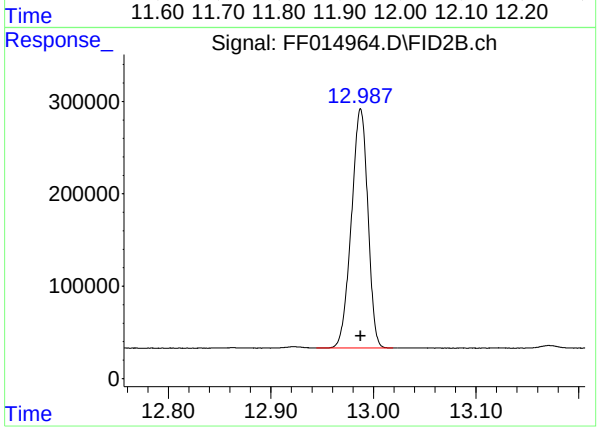
#10 Anthracene (C19.43)

R.T.: 11.242 min
Delta R.T.: 0.000 min
Response: 2845179
Conc: 20.00 ug/ml



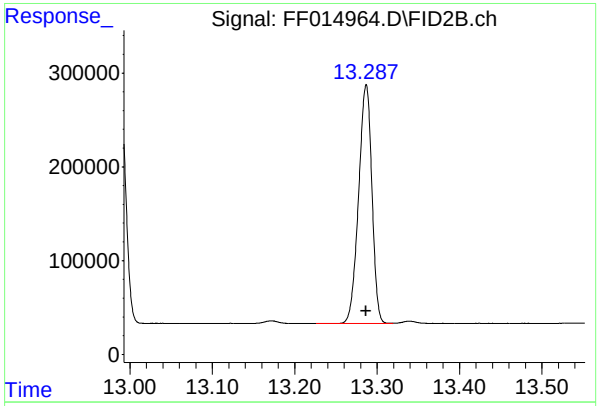
#11 ortho-Terphenyl (SURR)

R.T.: 11.933 min
Delta R.T.: 0.000 min
Response: 3054141
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

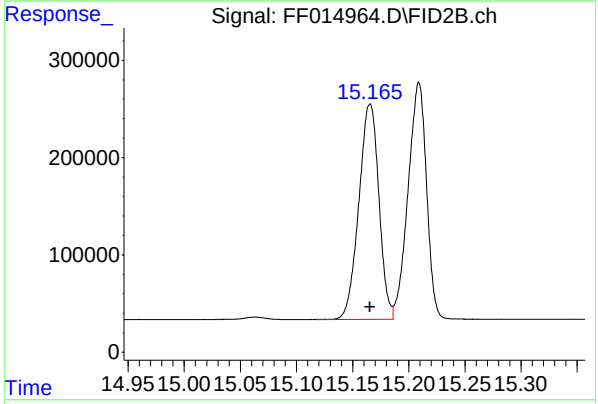
R.T.: 12.987 min
Delta R.T.: 0.000 min
Response: 2892760
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

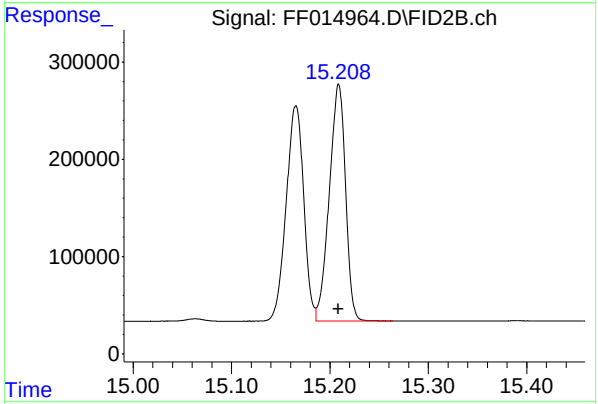
R.T.: 13.287 min
Delta R.T.: 0.000 min
Response: 2856862
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



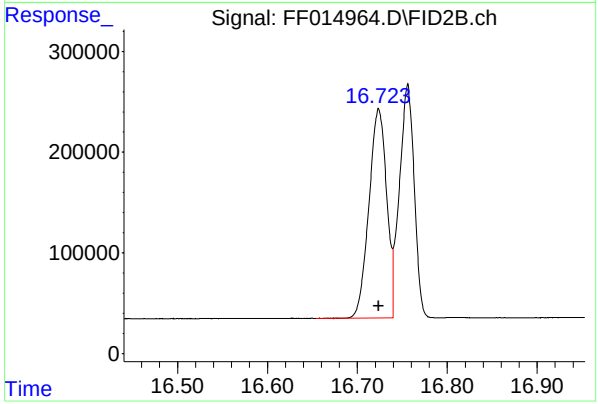
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.165 min
Delta R.T.: 0.000 min
Response: 2753408
Conc: 20.00 ug/ml



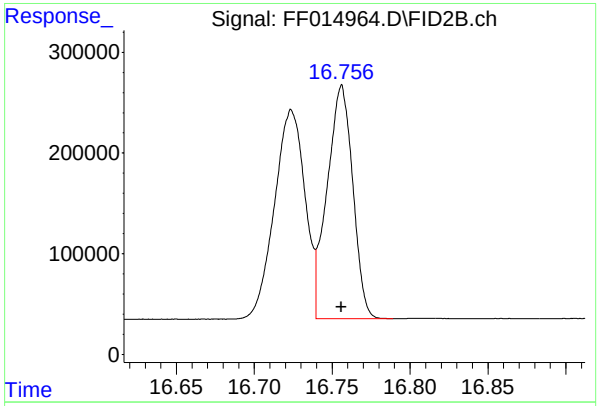
#15 Chrysene (C27.41)

R.T.: 15.209 min
Delta R.T.: 0.000 min
Response: 2791744
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

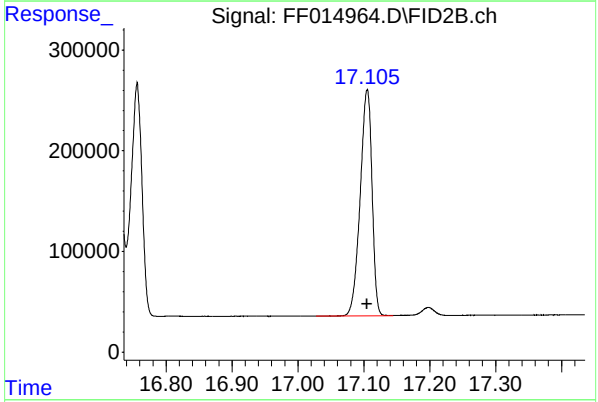
R.T.: 16.724 min
Delta R.T.: 0.000 min
Response: 2837191
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

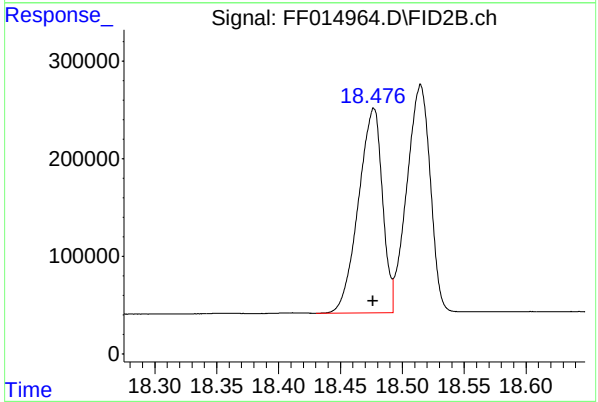
R.T.: 16.756 min
Delta R.T.: 0.000 min
Response: 2654525
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



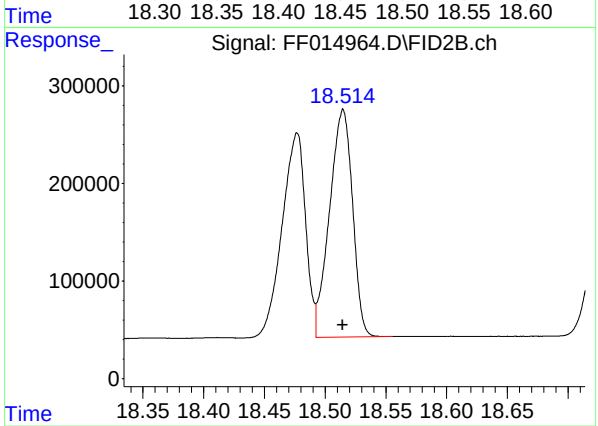
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.105 min
Delta R.T.: 0.000 min
Response: 2806782
Conc: 20.00 ug/ml



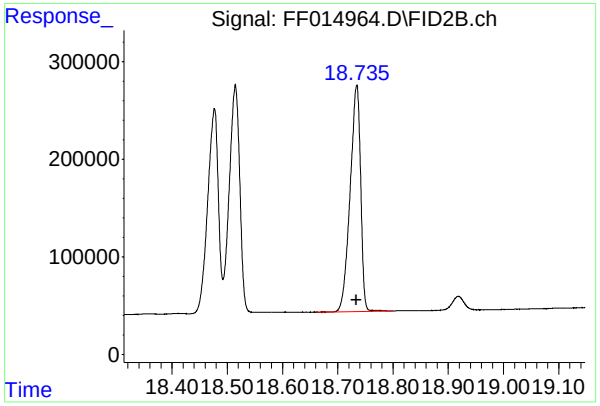
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.476 min
Delta R.T.: 0.000 min
Response: 2822651
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.514 min
Delta R.T.: 0.000 min
Response: 3073773
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.734 min
Delta R.T.: 0.000 mi
Response: 3065149
Conc: 20.00 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014964.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 18:46
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.614	4.551	4.672	BB	327924	3167074	96.93%	5.179%
2	6.279	6.221	6.314	BV	339922	3254087	99.60%	5.321%
3	7.373	7.329	7.446	BB	335383	3267320	100.00%	5.343%
4	7.997	7.962	8.057	BB	283560	2766167	84.66%	4.524%
5	8.673	8.631	8.731	BB	320731	3155839	96.59%	5.161%
6	8.872	8.812	8.941	BV	186201	1852016	56.68%	3.029%
7	8.972	8.941	9.029	VB	317705	3150804	96.43%	5.153%
8	9.761	9.724	9.816	BB	303953	3075611	94.13%	5.030%
9	11.167	11.064	11.207	BV	284399	3007153	92.04%	4.918%
10	11.242	11.207	11.297	VV	267923	2845179	87.08%	4.653%
11	11.933	11.861	11.987	BB	285145	3054141	93.48%	4.994%
12	12.987	12.944	13.019	VB	259372	2892760	88.54%	4.731%
13	13.287	13.226	13.319	BV	253873	2856862	87.44%	4.672%
14	15.165	15.117	15.186	BV	221605	2753408	84.27%	4.503%
15	15.209	15.186	15.264	VB	244280	2791744	85.44%	4.565%
16	16.724	16.654	16.740	BV	207727	2837191	86.84%	4.640%
17	16.756	16.740	16.789	VV	231224	2654525	81.24%	4.341%
18	17.105	17.027	17.144	BV	225711	2806782	85.90%	4.590%
19	18.476	18.430	18.492	PV	208764	2822651	86.39%	4.616%
20	18.514	18.492	18.556	VB	232743	3073773	94.08%	5.027%
21	18.734	18.661	18.800	BBA	231560	3065149	93.81%	5.012%
			Sum of corrected areas:			61150237		

Aromatic EPH 110724.M Fri Nov 08 08:58:19 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014965.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 19:15
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 08 08:45:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.996	1369564	9.902 ug/ml
Spiked Amount	50.000		Recovery =	19.80%
6) S	2-Flurobiphenyl (SURR)	8.871	918407	9.918 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	19.84%
11) S	ortho-Terphenyl (SURR)	11.932	1520285	9.956 ug/ml
Spiked Amount	50.000		Recovery =	19.91%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.614	1565211	9.884 ug/ml
2) T	Naphthalene (C11.7)	6.279	1620311	9.959 ug/ml
3) T	2-Methylnaphthalene (...	7.372	1613640	9.877 ug/ml
5) T	Acenaphthylene (C15.06)	8.672	1567965	9.937 ug/ml
7) T	Acenaphthene (C15.5)	8.970	1564614	9.932 ug/ml
8) T	Flouorene (C16.55)	9.759	1530864	9.955 ug/ml
9) T	Phenanthrene (C19.36)	11.165	1491720	9.921 ug/ml
10) T	Anthracene (C19.43)	11.240	1420516	9.985 ug/ml
12) T	Fluoranthene (C21.85)	12.986	1437780	9.941 ug/ml
13) T	Pyrene (C20.8)	13.284	1414183	9.900 ug/ml
14) T	Benzo[a]anthracene (C...	15.163	1372181	9.967 ug/ml
15) T	Chrysene (C27.41)	15.204	1398430	10.018 ug/ml
16) T	benzo[b]fluoranthene ...	16.720	1409539	9.936 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.751	1325553	9.987 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.100	1395587	9.944 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.470	1392923	9.870 ug/ml
20) T	Dibenz[a,h]anthracene...	18.510	1565656	10.187 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.726	1493053	9.742 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

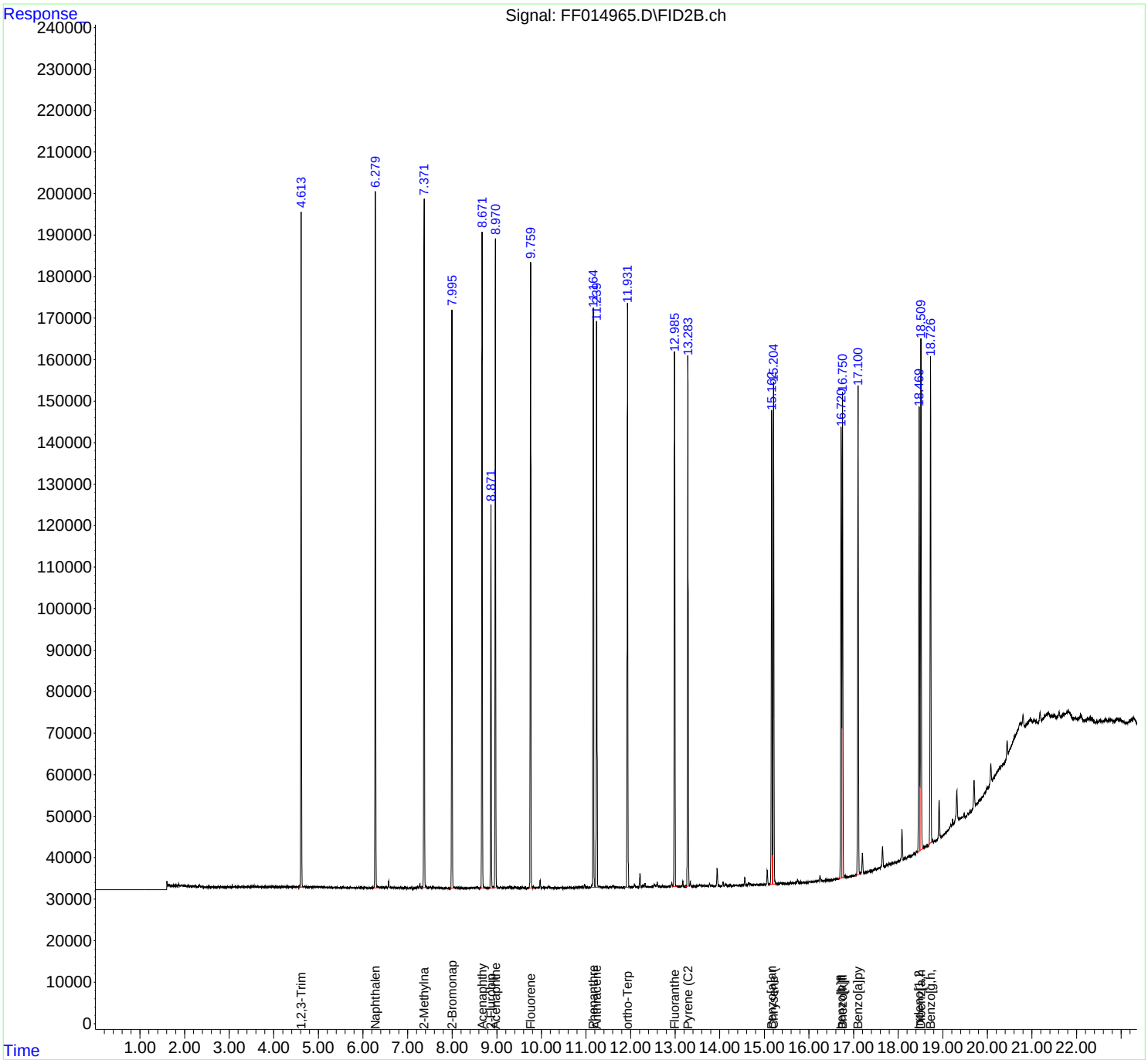
Quantitation Report (QT Reviewed)

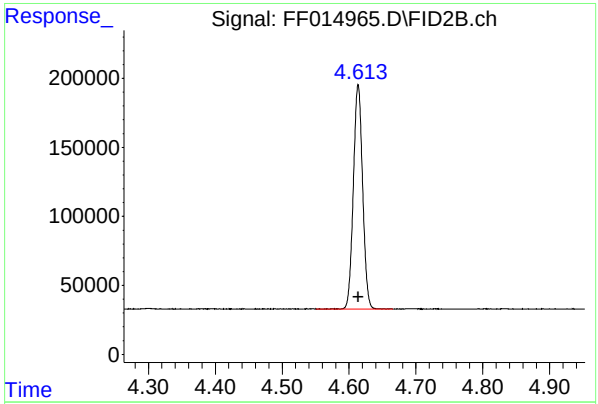
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014965.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 19:15
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 08 08:45:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

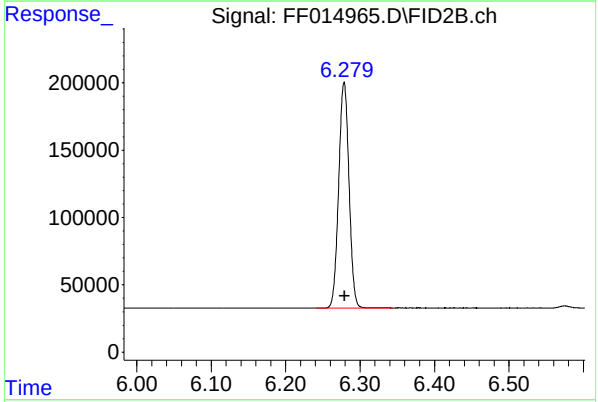




#1 1,2,3-Trimethylbenzene (C10.1)

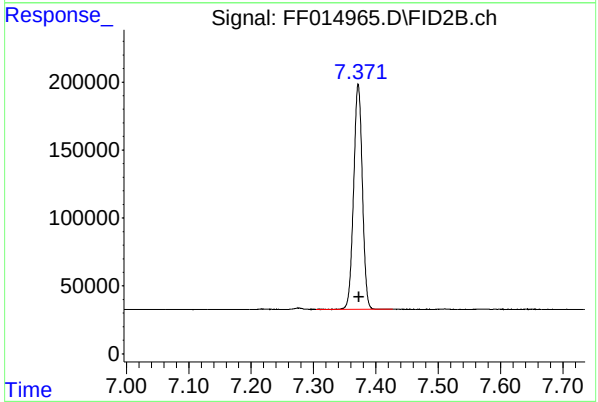
R.T.: 4.614 min
Delta R.T.: 0.000 min
Response: 1565211
Conc: 9.88 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



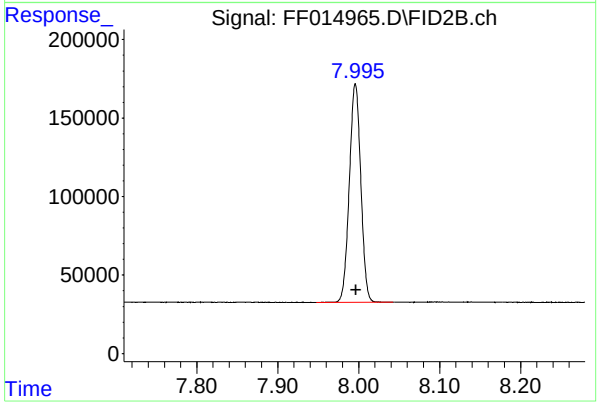
#2 Naphthalene (C11.7)

R.T.: 6.279 min
Delta R.T.: 0.000 min
Response: 1620311
Conc: 9.96 ug/ml



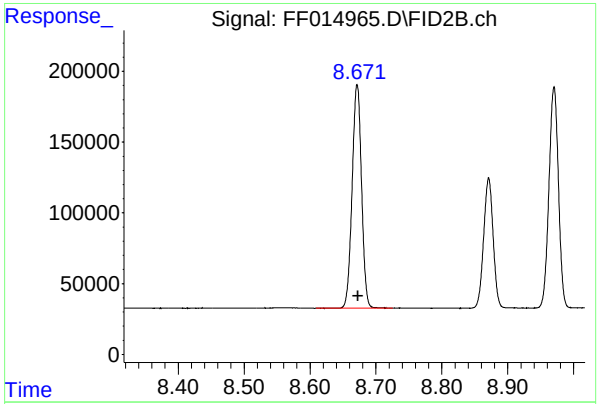
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 1613640
Conc: 9.88 ug/ml



#4 2-Bromonaphthalene (SURR)

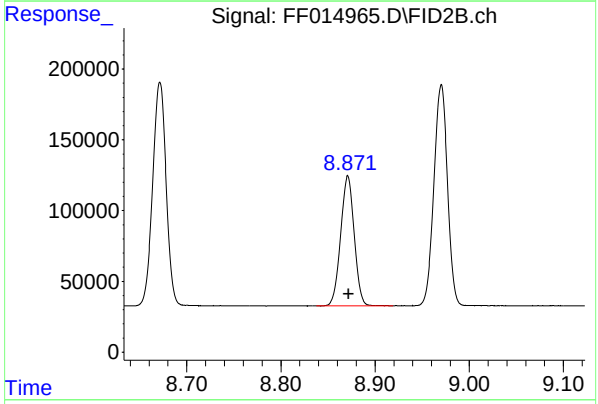
R.T.: 7.996 min
Delta R.T.: 0.000 min
Response: 1369564
Conc: 9.90 ug/ml



#5 Acenaphthylene (C15.06)

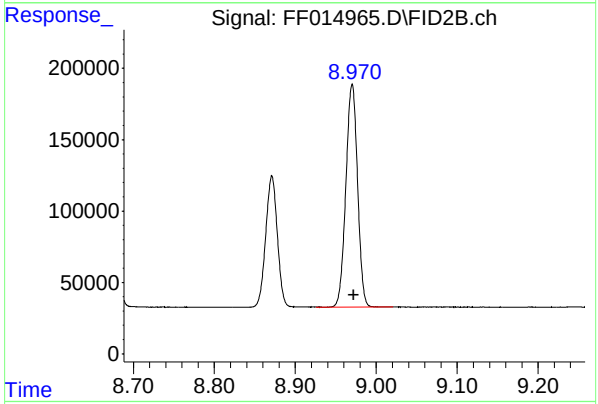
R.T.: 8.672 min
Delta R.T.: -0.001 min
Response: 1567965
Conc: 9.94 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



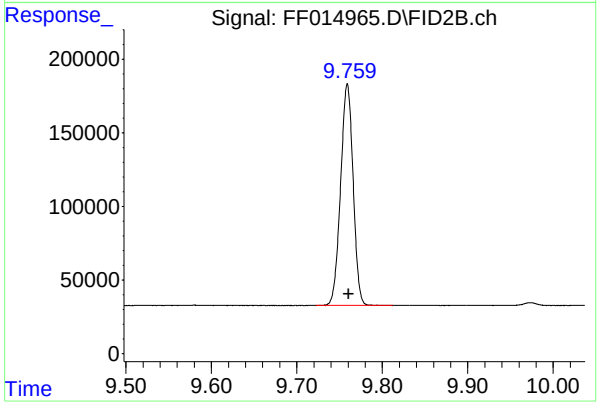
#6 2-Flurobiphenyl (SURR)

R.T.: 8.871 min
Delta R.T.: 0.000 min
Response: 918407
Conc: 9.92 ug/ml



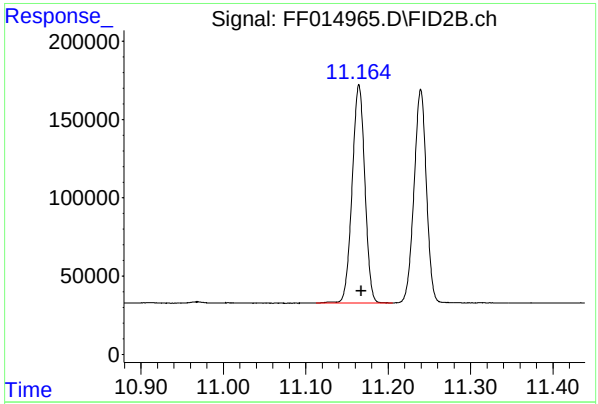
#7 Acenaphthene (C15.5)

R.T.: 8.970 min
Delta R.T.: -0.002 min
Response: 1564614
Conc: 9.93 ug/ml



#8 Flouorene (C16.55)

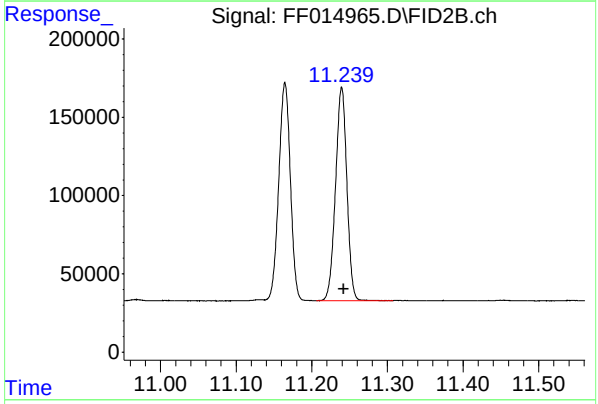
R.T.: 9.759 min
Delta R.T.: -0.001 min
Response: 1530864
Conc: 9.95 ug/ml



#9 Phenanthrene (C19.36)

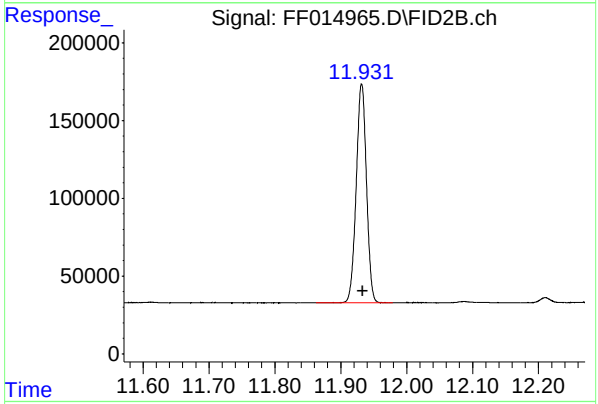
R.T.: 11.165 min
Delta R.T.: -0.003 min
Response: 1491720
Conc: 9.92 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



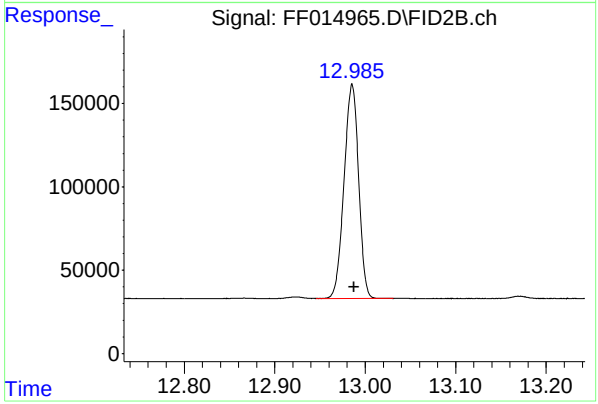
#10 Anthracene (C19.43)

R.T.: 11.240 min
Delta R.T.: -0.003 min
Response: 1420516
Conc: 9.99 ug/ml



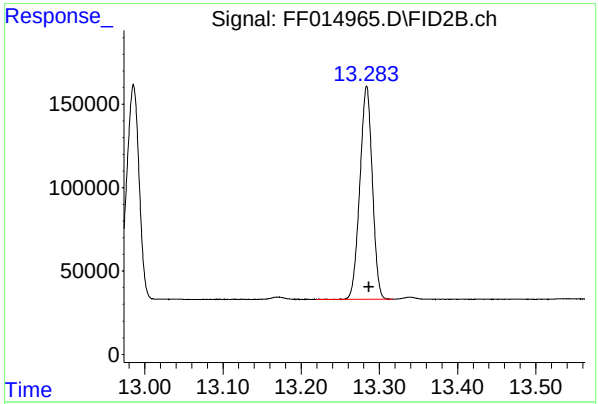
#11 ortho-Terphenyl (SURR)

R.T.: 11.932 min
Delta R.T.: -0.002 min
Response: 1520285
Conc: 9.96 ug/ml



#12 Fluoranthene (C21.85)

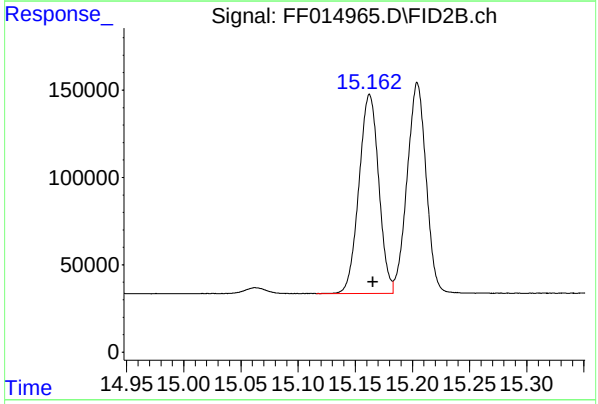
R.T.: 12.986 min
Delta R.T.: -0.002 min
Response: 1437780
Conc: 9.94 ug/ml



#13 Pyrene (C20.8)

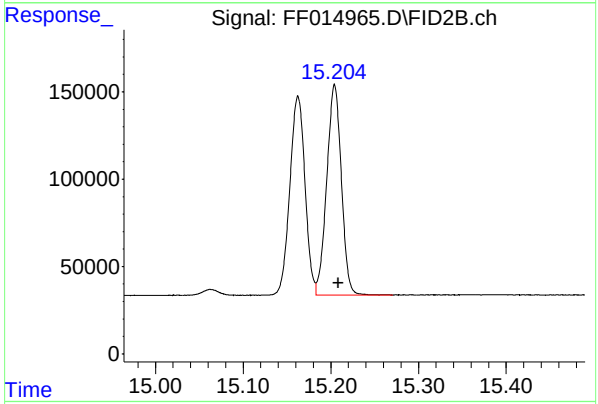
R.T.: 13.284 min
Delta R.T.: -0.003 min
Response: 1414183
Conc: 9.90 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



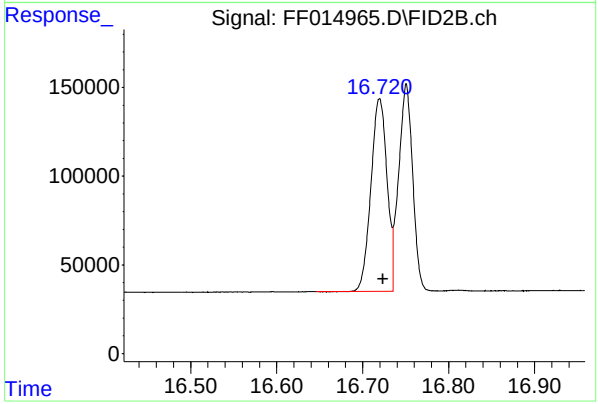
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.163 min
Delta R.T.: -0.003 min
Response: 1372181
Conc: 9.97 ug/ml



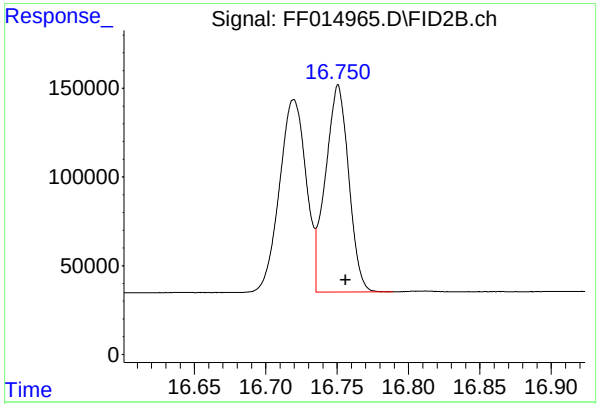
#15 Chrysene (C27.41)

R.T.: 15.204 min
Delta R.T.: -0.005 min
Response: 1398430
Conc: 10.02 ug/ml



#16 benzo[b]fluoranthene (C30.41)

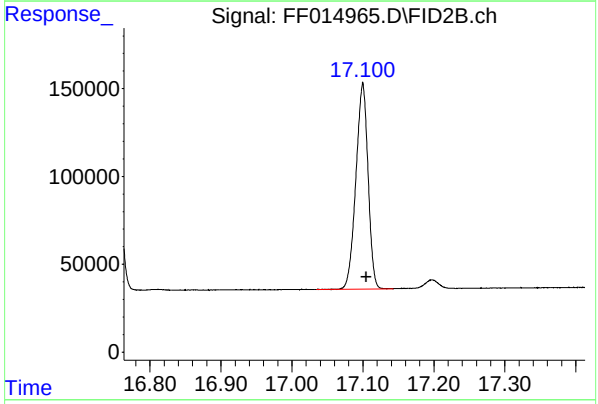
R.T.: 16.720 min
Delta R.T.: -0.004 min
Response: 1409539
Conc: 9.94 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

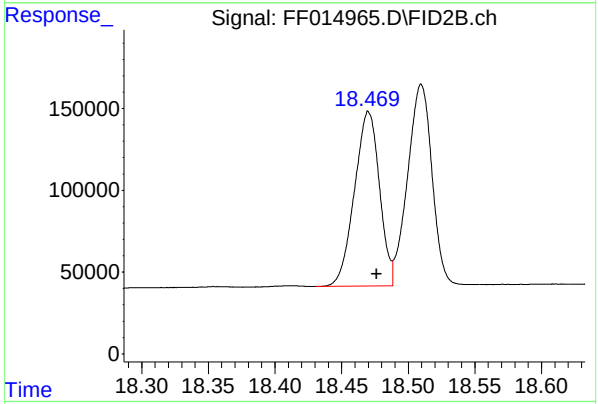
R.T.: 16.751 min
Delta R.T.: -0.005 min
Response: 1325553
Conc: 9.99 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



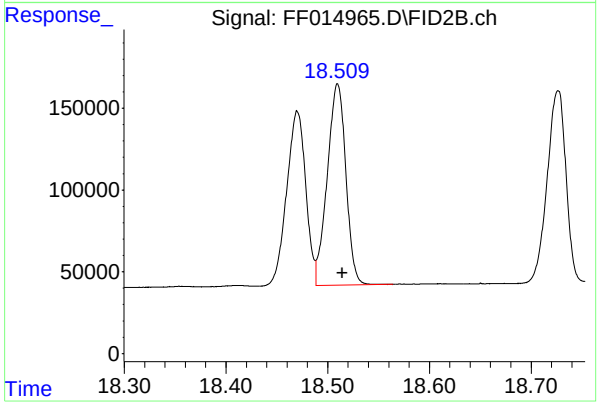
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.100 min
Delta R.T.: -0.005 min
Response: 1395587
Conc: 9.94 ug/ml



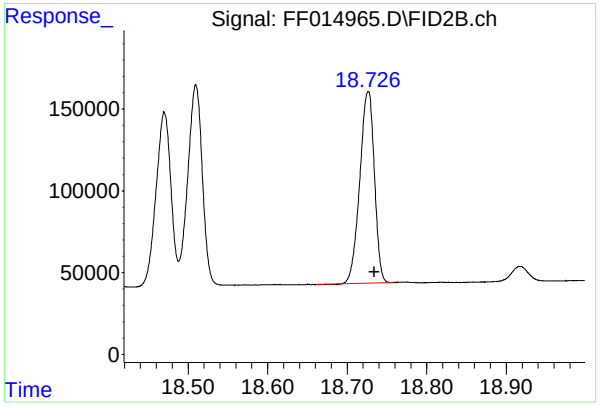
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.470 min
Delta R.T.: -0.006 min
Response: 1392923
Conc: 9.87 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.510 min
Delta R.T.: -0.005 min
Response: 1565656
Conc: 10.19 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.:	18.726 min
Delta R.T.:	-0.008 mir
Response:	1493053
Conc:	9.74 ug/m

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014965.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 19:15
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.614	4.551	4.666	BB	162694	1565211	96.60%	5.151%
2	6.279	6.241	6.344	BB	168131	1620311	100.00%	5.332%
3	7.372	7.304	7.427	BB	165510	1613640	99.59%	5.310%
4	7.996	7.947	8.042	BB	139234	1369564	84.52%	4.507%
5	8.672	8.609	8.726	BB	158234	1567965	96.77%	5.160%
6	8.871	8.837	8.919	BB	92088	918407	56.68%	3.022%
7	8.970	8.926	9.021	BB	156697	1564614	96.56%	5.149%
8	9.759	9.722	9.812	BB	150469	1530864	94.48%	5.038%
9	11.165	11.112	11.206	BV	139291	1491720	92.06%	4.909%
10	11.240	11.206	11.307	VB	136195	1420516	87.67%	4.675%
11	11.932	11.862	11.979	BB	140723	1520285	93.83%	5.003%
12	12.986	12.946	13.031	VB	128913	1437780	88.73%	4.731%
13	13.284	13.219	13.317	BV	128165	1414183	87.28%	4.654%
14	15.163	15.116	15.183	BV	114139	1372181	84.69%	4.516%
15	15.204	15.183	15.271	VB	120890	1398430	86.31%	4.602%
16	16.720	16.646	16.735	BV	108628	1409539	86.99%	4.638%
17	16.751	16.735	16.789	VV	116981	1325553	81.81%	4.362%
18	17.100	17.034	17.142	BV	116655	1395587	86.13%	4.593%
19	18.470	18.431	18.488	PV	106391	1392923	85.97%	4.584%
20	18.510	18.488	18.564	VB	123136	1565656	96.63%	5.152%
21	18.726	18.661	18.757	BV	117208	1493053	92.15%	4.913%

Sum of corrected areas: 30387981

Aromatic EPH 110724.M Fri Nov 08 08:58:41 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014966.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 19:43
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Nov 08 08:45:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.995	683331	4.941 ug/ml
Spiked Amount	50.000		Recovery =	9.88%
6)	S 2-Flurobiphenyl (SURR)	8.870	455230	4.916 ug/ml
Spiked Amount	50.000 Range 0 - 131		Recovery =	9.83%
11)	S ortho-Terphenyl (SURR)	11.931	761522	4.987 ug/ml
Spiked Amount	50.000		Recovery =	9.97%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.614	784905	4.957 ug/ml
2)	T Naphthalene (C11.7)	6.278	805649	4.952 ug/ml
3)	T 2-Methylnaphthalene (...	7.371	801496	4.906 ug/ml
5)	T Acenaphthylene (C15.06)	8.671	780019	4.943 ug/ml
7)	T Acenaphthene (C15.5)	8.969	778258	4.940 ug/ml
8)	T Flouorene (C16.55)	9.758	760561	4.946 ug/ml
9)	T Phenanthrene (C19.36)	11.164	744809	4.954 ug/ml
10)	T Anthracene (C19.43)	11.239	709953	4.991 ug/ml
12)	T Fluoranthene (C21.85)	12.984	722410	4.995 ug/ml
13)	T Pyrene (C20.8)	13.283	713202	4.993 ug/ml
14)	T Benzo[a]anthracene (C...	15.161	702023	5.099 ug/ml
15)	T Chrysene (C27.41)	15.203	724398	5.190 ug/ml
16)	T benzo[b]fluoranthene ...	16.718	724657	5.108 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.748	681476	5.134 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.097	709634	5.057 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.466	710611	5.035 ug/ml
20)	T Dibenz[a,h]anthracene...	18.507	854046	5.557 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.722	759135	4.953 ug/ml

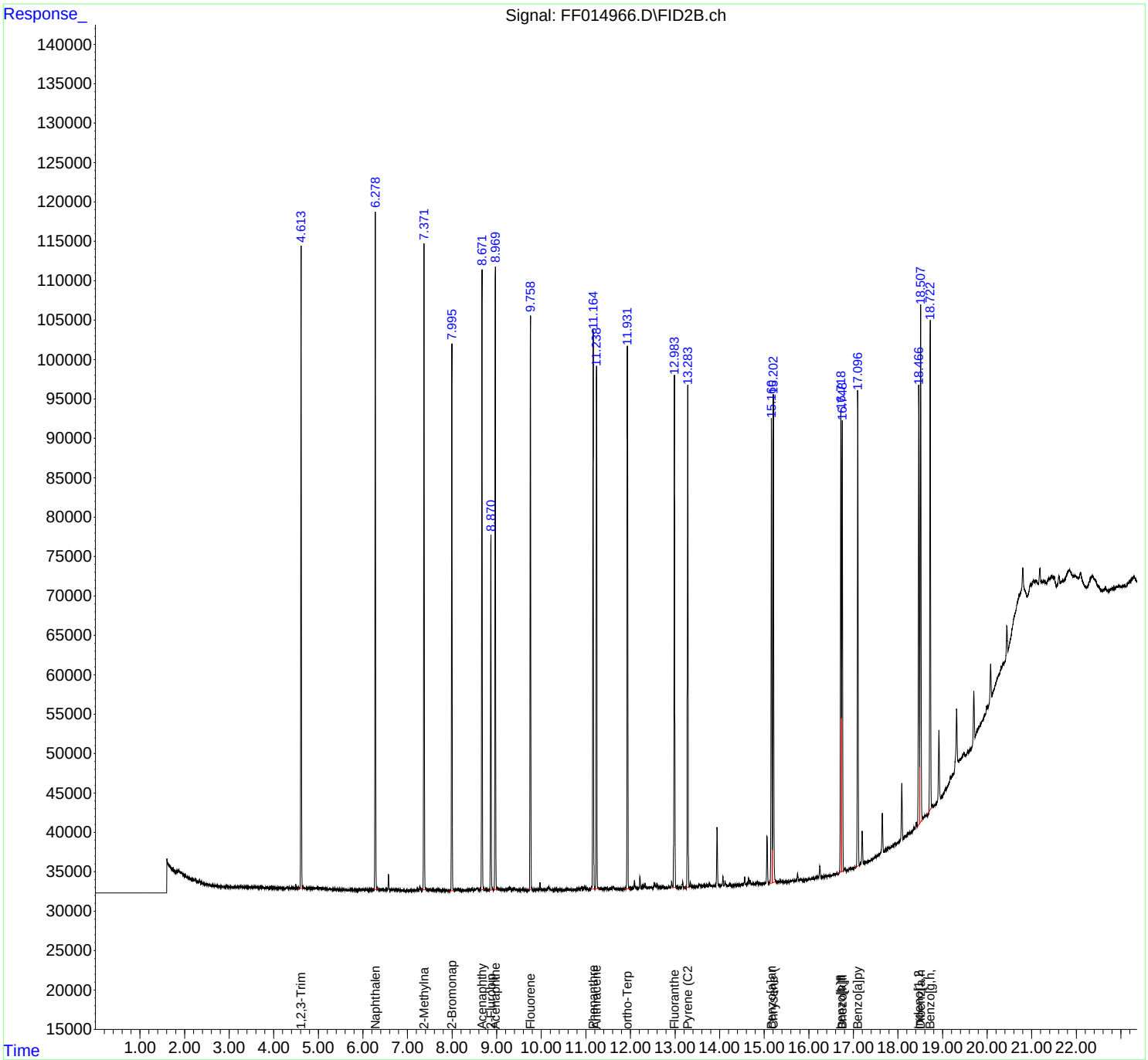
(f)=RT Delta > 1/2 Window (m)=manual int.

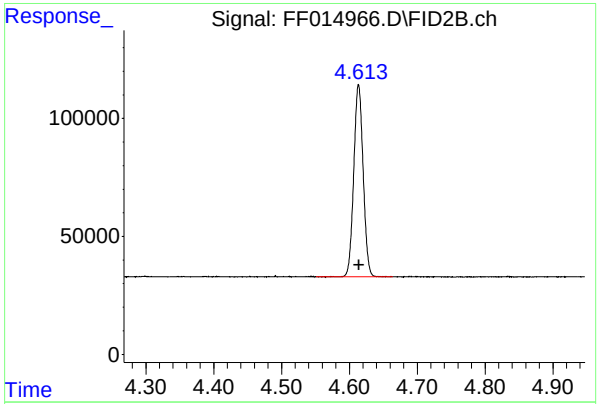
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014966.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 19:43
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Nov 08 08:45:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:43:02 2024
Response via : Initial Calibration
Integrator: ChemStation

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

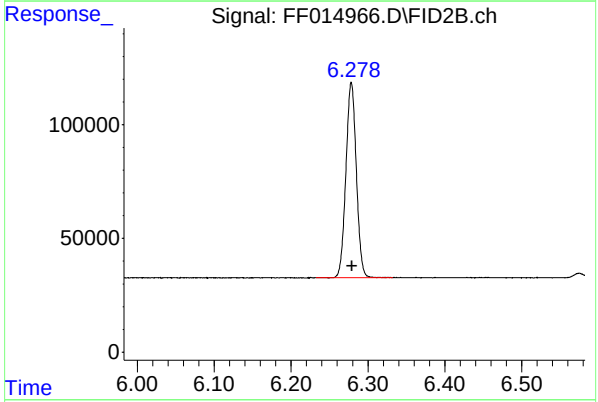




#1 1,2,3-Trimethylbenzene (C10.1)

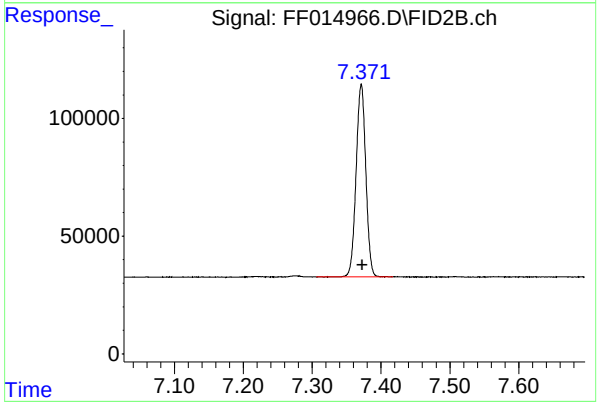
R.T.: 4.614 min
Delta R.T.: 0.000 min
Response: 784905
Conc: 4.96 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



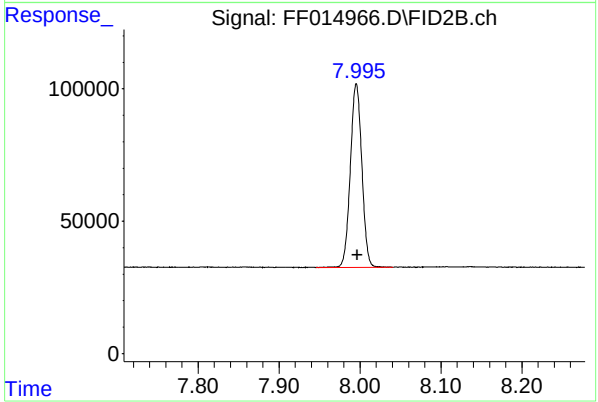
#2 Naphthalene (C11.7)

R.T.: 6.278 min
Delta R.T.: 0.000 min
Response: 805649
Conc: 4.95 ug/ml



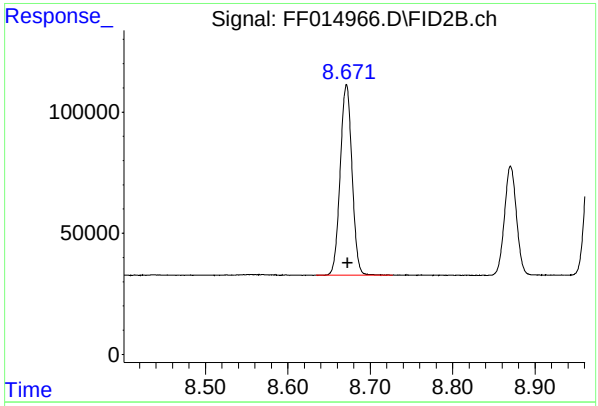
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.371 min
Delta R.T.: -0.002 min
Response: 801496
Conc: 4.91 ug/ml



#4 2-Bromonaphthalene (SURR)

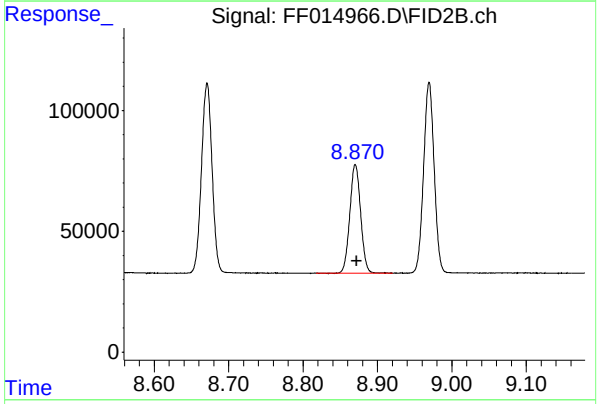
R.T.: 7.995 min
Delta R.T.: -0.001 min
Response: 683331
Conc: 4.94 ug/ml



#5 Acenaphthylene (C15.06)

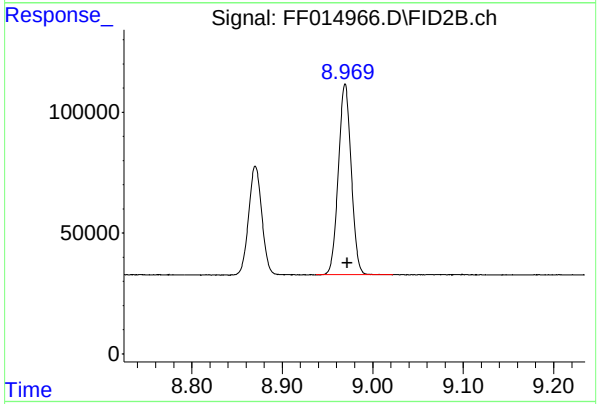
R.T.: 8.671 min
Delta R.T.: -0.002 min
Response: 780019
Conc: 4.94 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



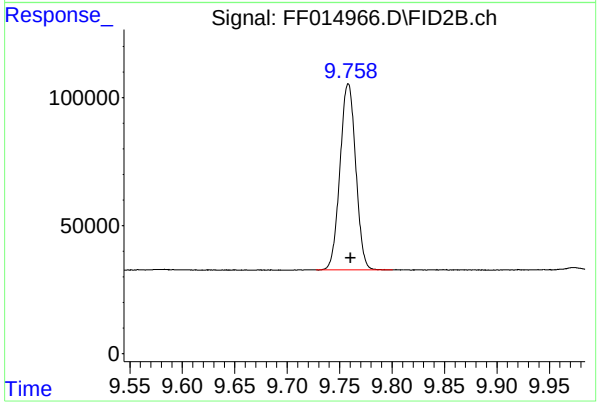
#6 2-Flurobiphenyl (SURR)

R.T.: 8.870 min
Delta R.T.: -0.002 min
Response: 455230
Conc: 4.92 ug/ml



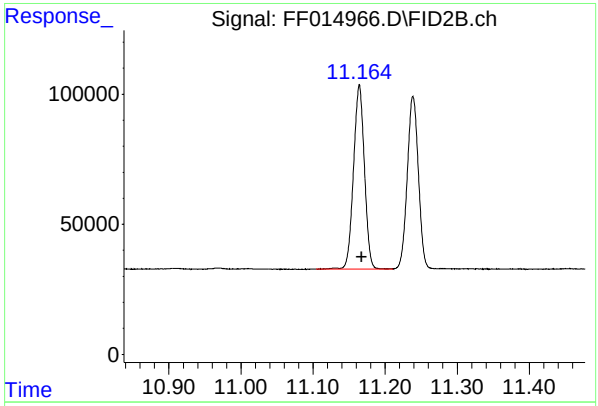
#7 Acenaphthene (C15.5)

R.T.: 8.969 min
Delta R.T.: -0.002 min
Response: 778258
Conc: 4.94 ug/ml



#8 Flouorene (C16.55)

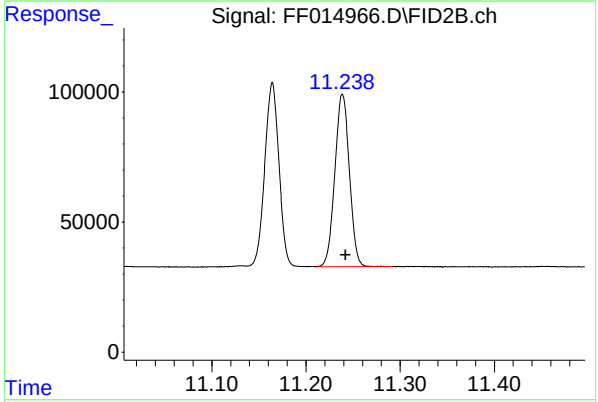
R.T.: 9.758 min
Delta R.T.: -0.002 min
Response: 760561
Conc: 4.95 ug/ml



#9 Phenanthrene (C19.36)

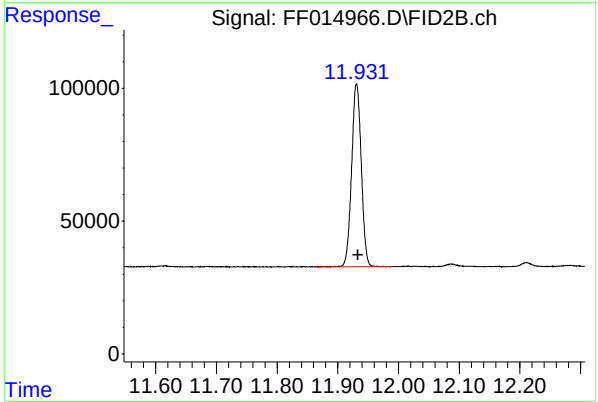
R.T.: 11.164 min
Delta R.T.: -0.003 min
Response: 744809
Conc: 4.95 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



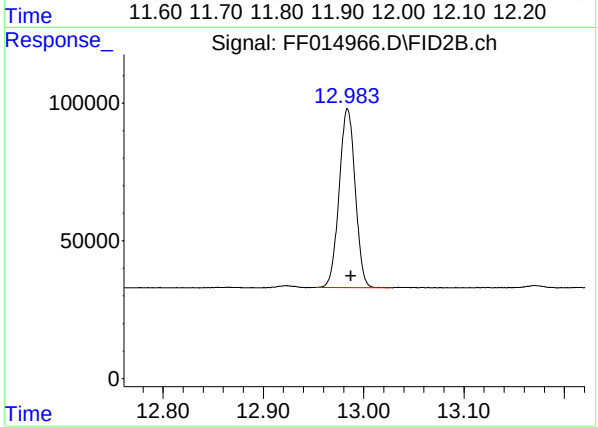
#10 Anthracene (C19.43)

R.T.: 11.239 min
Delta R.T.: -0.003 min
Response: 709953
Conc: 4.99 ug/ml



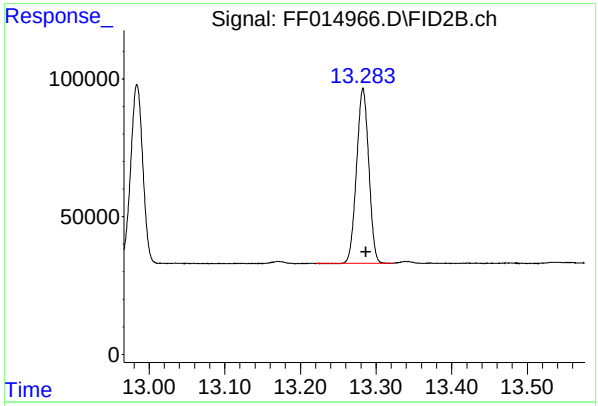
#11 ortho-Terphenyl (SURR)

R.T.: 11.931 min
Delta R.T.: -0.002 min
Response: 761522
Conc: 4.99 ug/ml



#12 Fluoranthene (C21.85)

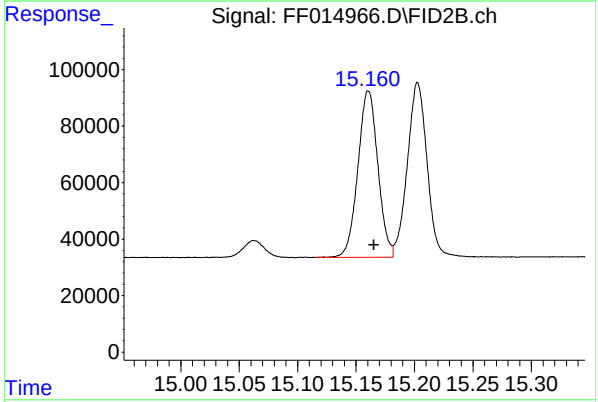
R.T.: 12.984 min
Delta R.T.: -0.003 min
Response: 722410
Conc: 4.99 ug/ml



#13 Pyrene (C20.8)

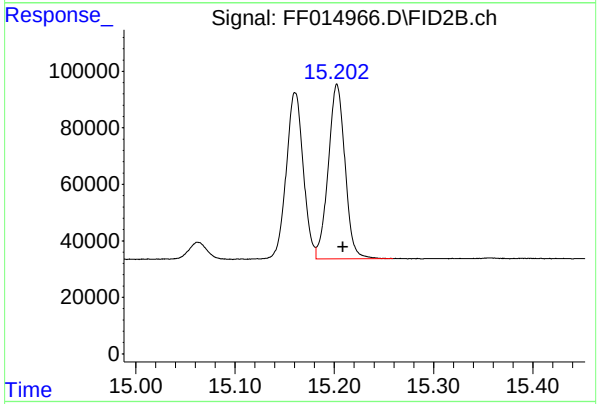
R.T.: 13.283 min
Delta R.T.: -0.004 min
Response: 713202
Conc: 4.99 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



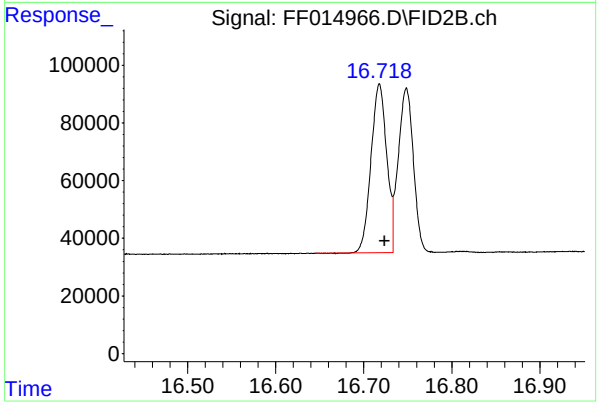
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.161 min
Delta R.T.: -0.005 min
Response: 702023
Conc: 5.10 ug/ml



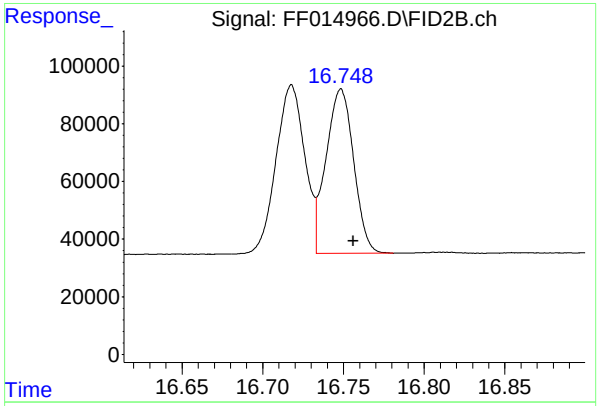
#15 Chrysene (C27.41)

R.T.: 15.203 min
Delta R.T.: -0.006 min
Response: 724398
Conc: 5.19 ug/ml



#16 benzo[b]fluoranthene (C30.41)

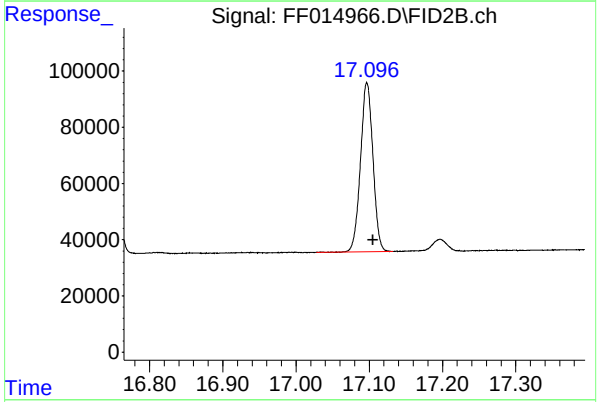
R.T.: 16.718 min
Delta R.T.: -0.006 min
Response: 724657
Conc: 5.11 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

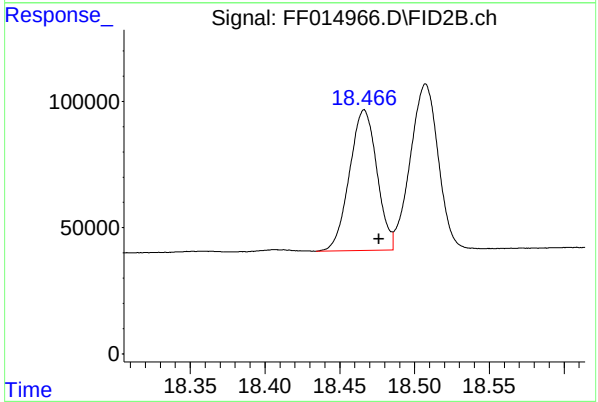
R.T.: 16.748 min
Delta R.T.: -0.008 mi
Response: 681476
Conc: 5.13 ug/m

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



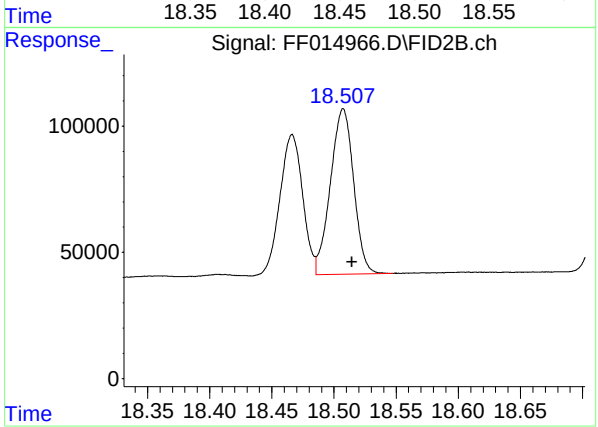
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.097 min
Delta R.T.: -0.008 min
Response: 709634
Conc: 5.06 ug/ml



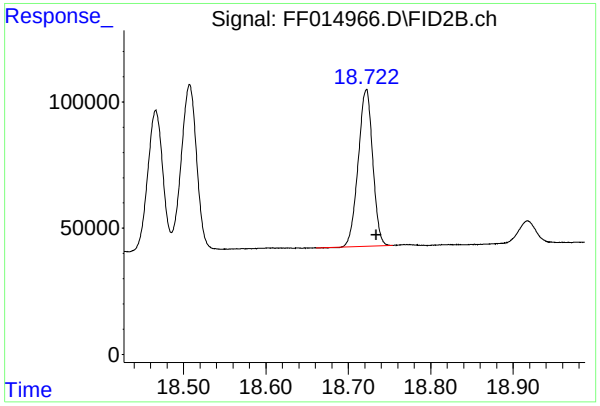
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.466 min
Delta R.T.: -0.010 min
Response: 710611
Conc: 5.04 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.507 min
Delta R.T.: -0.007 min
Response: 854046
Conc: 5.56 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.722 min
Delta R.T.: -0.012 mi
Response: 759135
Conc: 4.95 ug/m

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014966.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 19:43
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.614	4.551	4.664	BB	81313	784905	91.90%	5.108%
2	6.278	6.232	6.332	BB	85835	805649	94.33%	5.243%
3	7.371	7.306	7.417	BB	81664	801496	93.85%	5.216%
4	7.996	7.946	8.041	BB	69355	683331	80.01%	4.447%
5	8.671	8.634	8.727	BB	78582	780019	91.33%	5.076%
6	8.870	8.817	8.921	BB	44886	455230	53.30%	2.962%
7	8.969	8.937	9.022	BB	78905	778258	91.13%	5.064%
8	9.758	9.727	9.801	BB	72943	760561	89.05%	4.949%
9	11.164	11.104	11.211	BV	70881	744809	87.21%	4.847%
10	11.239	11.211	11.292	VB	66143	709953	83.13%	4.620%
11	11.931	11.864	11.991	BB	68889	761522	89.17%	4.955%
12	12.984	12.952	13.029	BB	64927	722410	84.59%	4.701%
13	13.283	13.221	13.322	BV	63564	713202	83.51%	4.641%
14	15.161	15.116	15.182	BV	58956	702023	82.20%	4.568%
15	15.203	15.182	15.259	VB	61900	724398	84.82%	4.714%
16	16.718	16.646	16.733	BV	58536	724657	84.85%	4.716%
17	16.748	16.733	16.781	VV	57282	681476	79.79%	4.435%
18	17.097	17.027	17.132	BB	60034	709634	83.09%	4.618%
19	18.466	18.434	18.486	PV	55713	710611	83.21%	4.624%
20	18.507	18.486	18.547	VV	65711	854046	100.00%	5.558%
21	18.722	18.661	18.754	BV	62494	759135	88.89%	4.940%
			Sum of corrected areas:			15367326		

Aromatic EPH 110724.M Fri Nov 08 08:59:01 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014967.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 20:11
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

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 08:50:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.996	2677459	20.119 ug/ml
	Spiked Amount 50.000		Recovery = 40.24%	
6)	S 2-Flurobiphenyl (SURR)	8.872	1788884	20.057 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 40.11%	
11)	S ortho-Terphenyl (SURR)	11.933	2937292	19.943 ug/ml
	Spiked Amount 50.000		Recovery = 39.89%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.613	3083180	20.258 ug/ml
2)	T Naphthalene (C11.7)	6.279	3162444	20.151 ug/ml
3)	T 2-Methylnaphthalene (...	7.373	3171496	20.217 ug/ml
5)	T Acenaphthylene (C15.06)	8.672	3054984	20.089 ug/ml
7)	T Acenaphthene (C15.5)	8.971	3044860	20.067 ug/ml
8)	T Flouorene (C16.55)	9.760	2965974	19.995 ug/ml
9)	T Phenanthrene (C19.36)	11.166	2883607	19.882 ug/ml
10)	T Anthracene (C19.43)	11.241	2756127	20.084 ug/ml
12)	T Fluoranthene (C21.85)	12.986	2778509	19.881 ug/ml
13)	T Pyrene (C20.8)	13.286	2741087	19.893 ug/ml
14)	T Benzo[a]anthracene (C...	15.164	2628452	19.698 ug/ml
15)	T Chrysene (C27.41)	15.207	2665304	19.633 ug/ml
16)	T benzo[b]fluoranthene ...	16.723	2691646	19.581 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.755	2538092	19.731 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.103	2679045	19.758 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.474	2668215	19.414 ug/mlm
20)	T Dibenz[a,h]anthracene...	18.513	2742319	18.535 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.732	2893039	19.768 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF110724AR\
Data File : FF014967.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 20:11
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 36 Sample Multiplier: 1

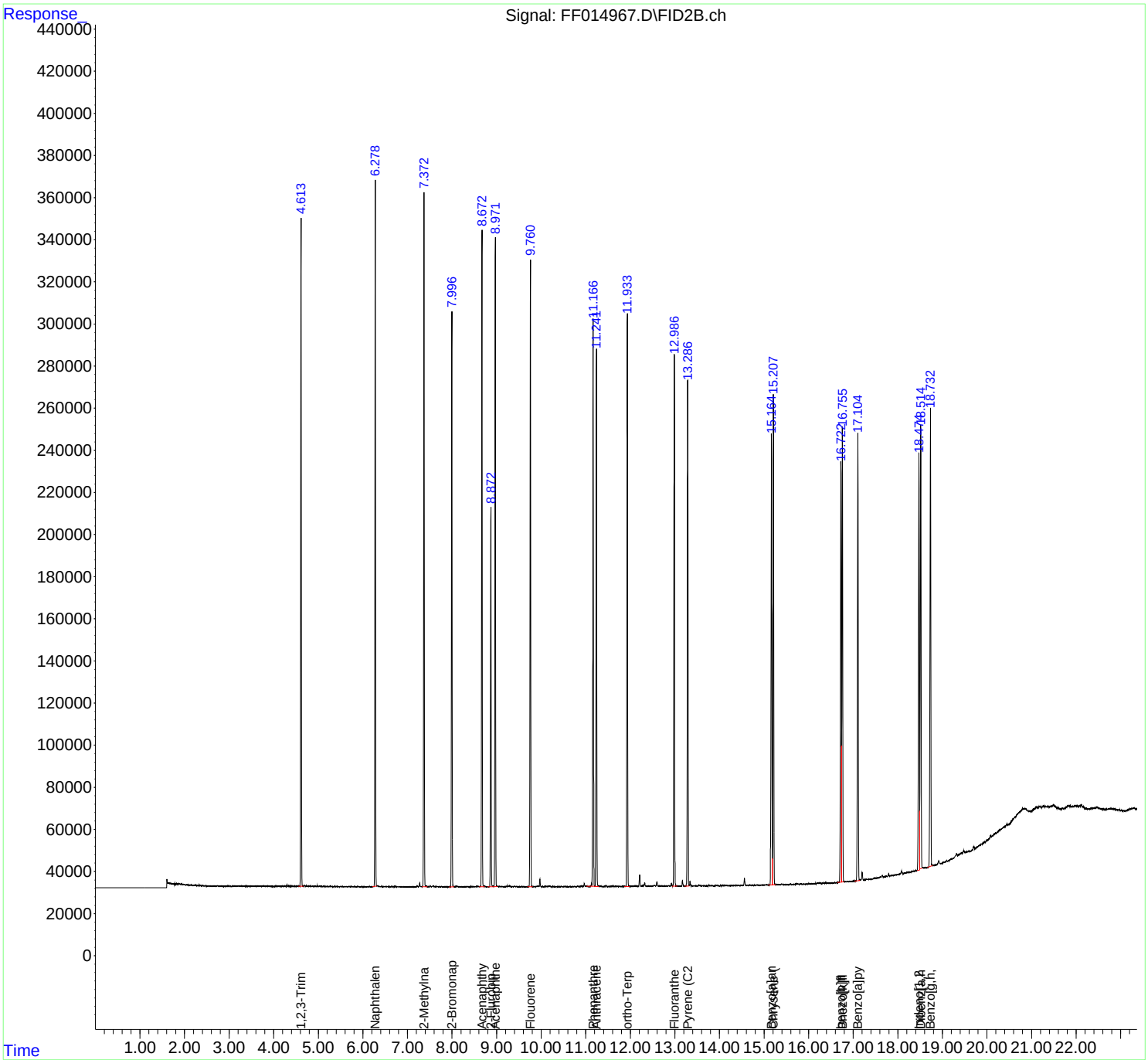
Integration File: autoint1.e
Quant Time: Nov 08 08:50:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

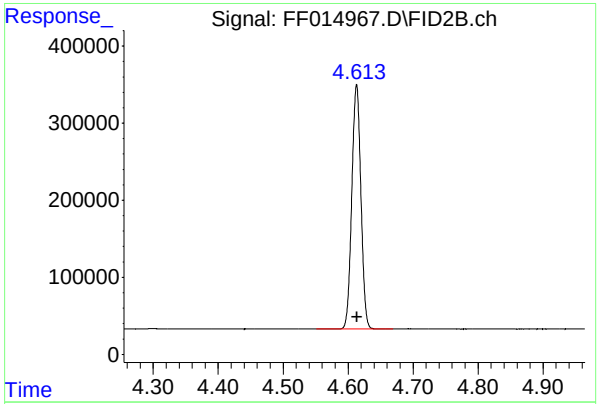
Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED

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





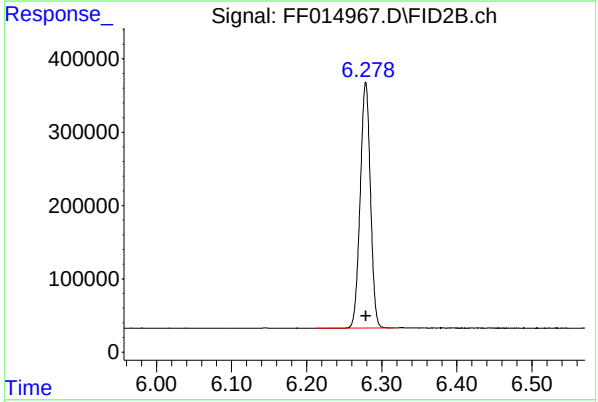
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.613 min
Delta R.T.: 0.000 min
Response: 3083180
Conc: 20.26 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

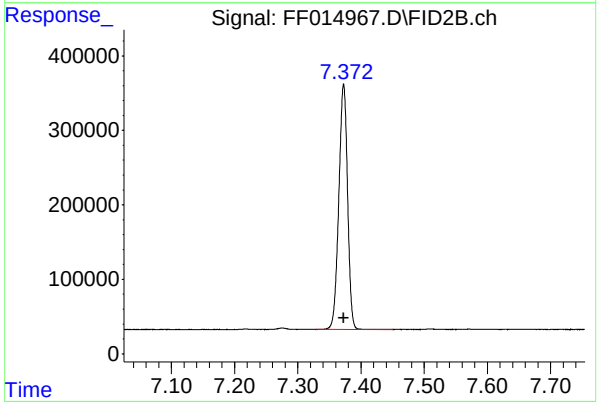
Manual Integrations APPROVED

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



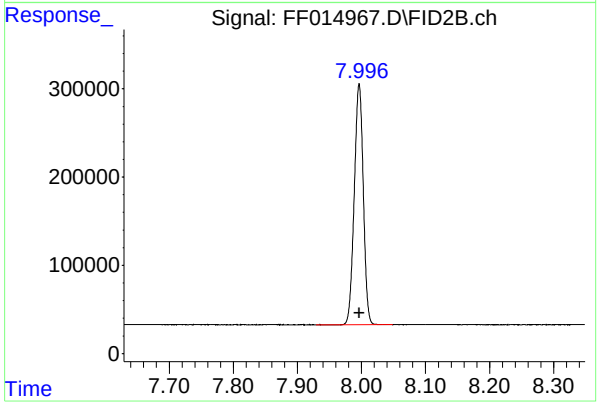
#2 Naphthalene (C11.7)

R.T.: 6.279 min
Delta R.T.: 0.000 min
Response: 3162444
Conc: 20.15 ug/ml



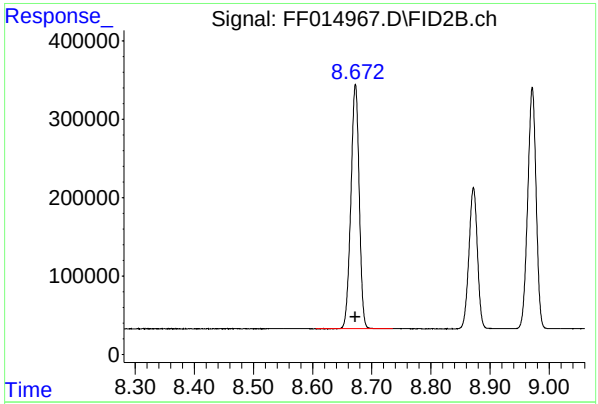
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.373 min
Delta R.T.: 0.000 min
Response: 3171496
Conc: 20.22 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.996 min
Delta R.T.: 0.000 min
Response: 2677459
Conc: 20.12 ug/ml



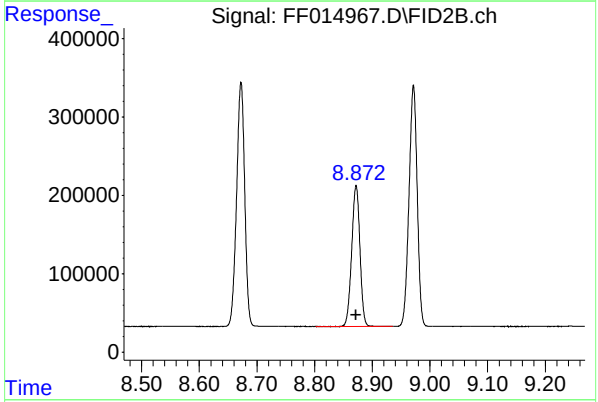
#5 Acenaphthylene (C15.06)

R.T.: 8.672 min
Delta R.T.: 0.000 min
Response: 3054984
Conc: 20.09 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

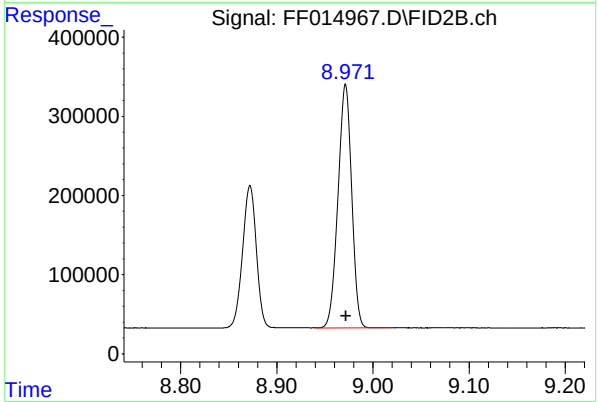
Manual Integrations
APPROVED

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



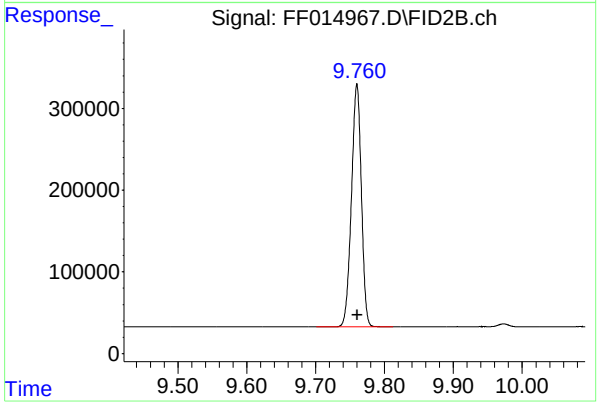
#6 2-Flurobiphenyl (SURR)

R.T.: 8.872 min
Delta R.T.: 0.000 min
Response: 1788884
Conc: 20.06 ug/ml



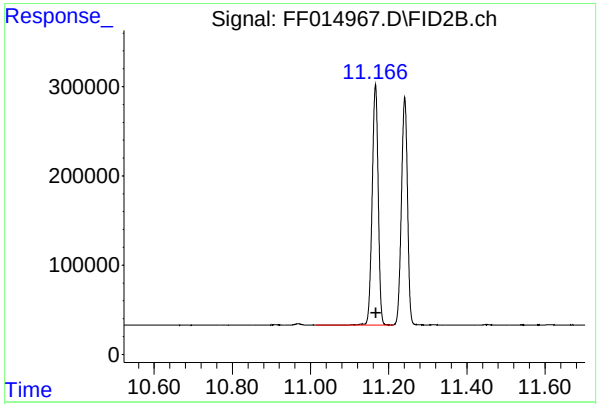
#7 Acenaphthene (C15.5)

R.T.: 8.971 min
Delta R.T.: 0.000 min
Response: 3044860
Conc: 20.07 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.760 min
Delta R.T.: 0.000 min
Response: 2965974
Conc: 20.00 ug/ml



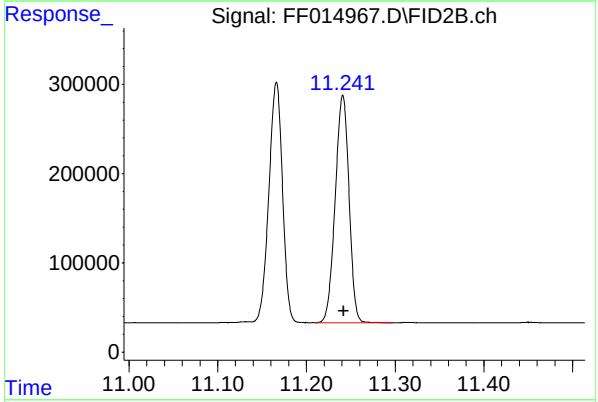
#9 Phenanthrene (C19.36)

R.T.: 11.166 min
Delta R.T.: -0.001 min
Response: 2883607
Conc: 19.88 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

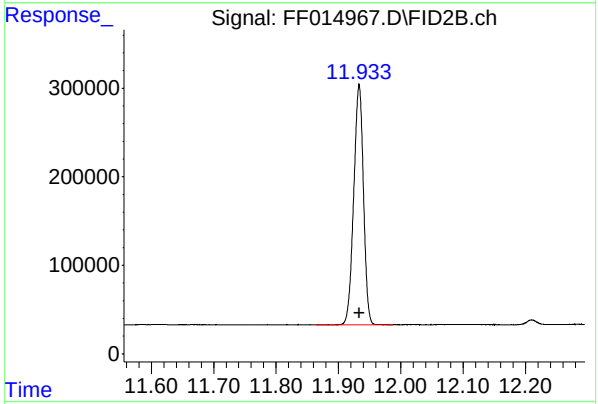
Manual Integrations
APPROVED

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



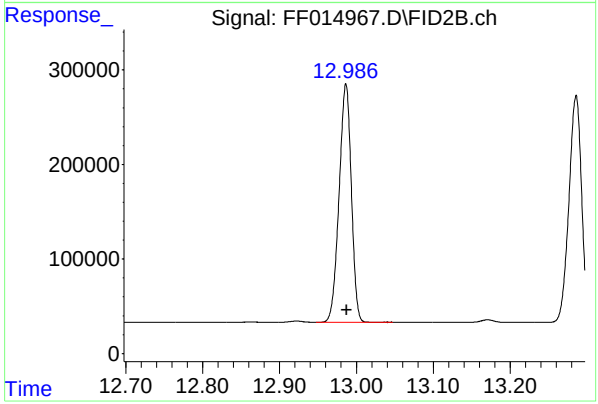
#10 Anthracene (C19.43)

R.T.: 11.241 min
Delta R.T.: -0.001 min
Response: 2756127
Conc: 20.08 ug/ml



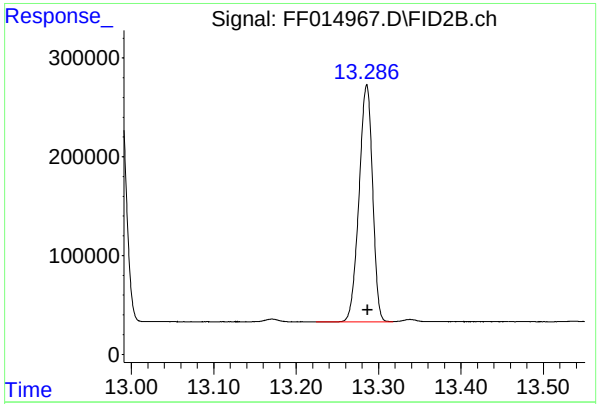
#11 ortho-Terphenyl (SURR)

R.T.: 11.933 min
Delta R.T.: 0.000 min
Response: 2937292
Conc: 19.94 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.986 min
Delta R.T.: -0.001 min
Response: 2778509
Conc: 19.88 ug/ml



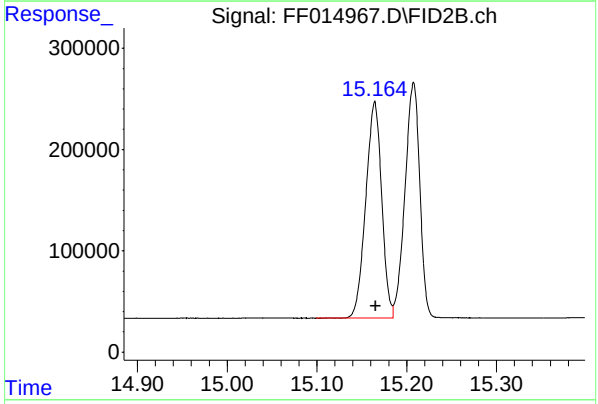
#13 Pyrene (C20.8)

R.T.: 13.286 min
Delta R.T.: -0.001 min
Response: 2741087
Conc: 19.89 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

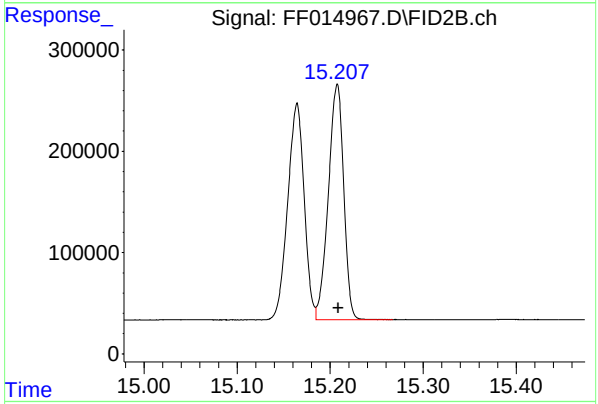
Manual Integrations
APPROVED

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



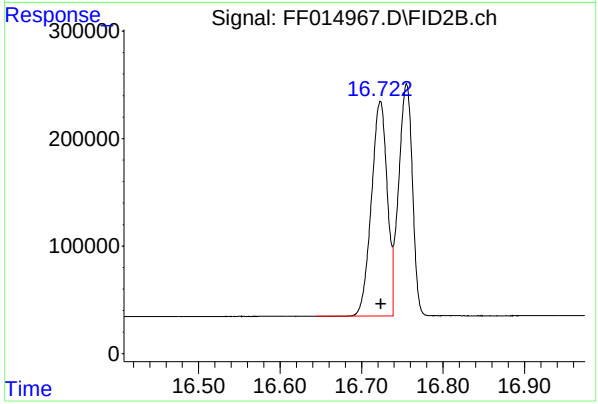
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.164 min
Delta R.T.: -0.001 min
Response: 2628452
Conc: 19.70 ug/ml



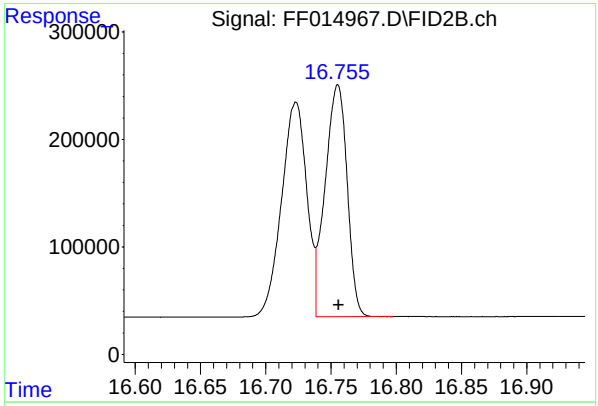
#15 Chrysene (C27.41)

R.T.: 15.207 min
Delta R.T.: -0.001 min
Response: 2665304
Conc: 19.63 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.723 min
Delta R.T.: 0.000 min
Response: 2691646
Conc: 19.58 ug/ml



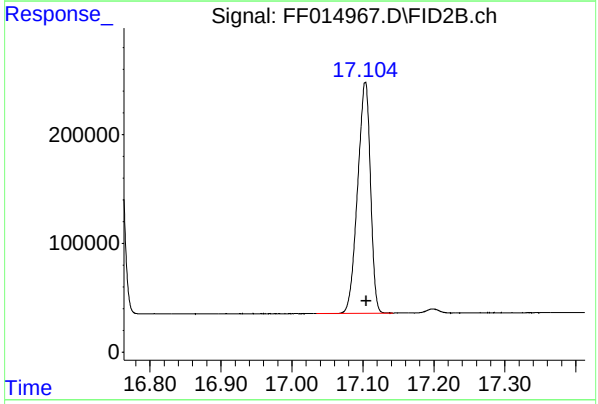
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.755 min
Delta R.T.: 0.000 mi
Response: 2538092
Conc: 19.73 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

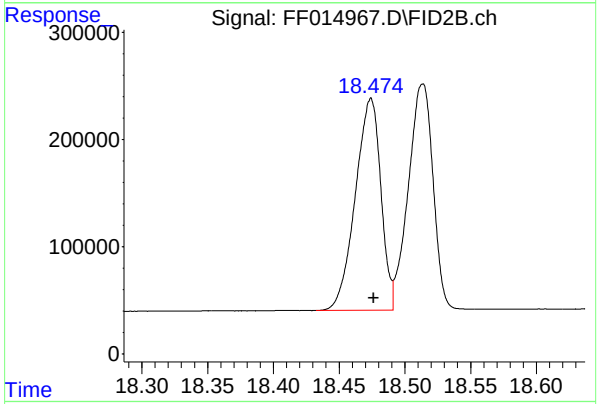
Manual Integrations
APPROVED

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



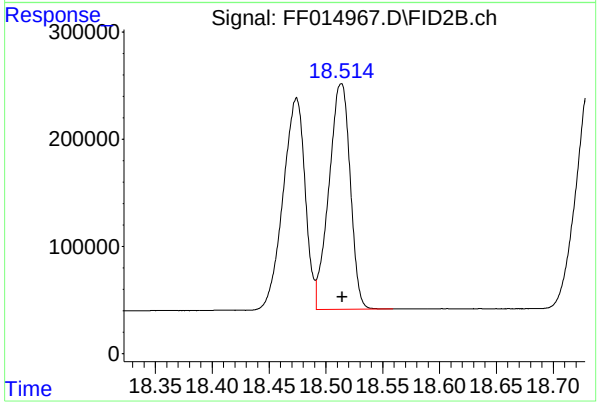
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.103 min
Delta R.T.: -0.002 min
Response: 2679045
Conc: 19.76 ug/ml



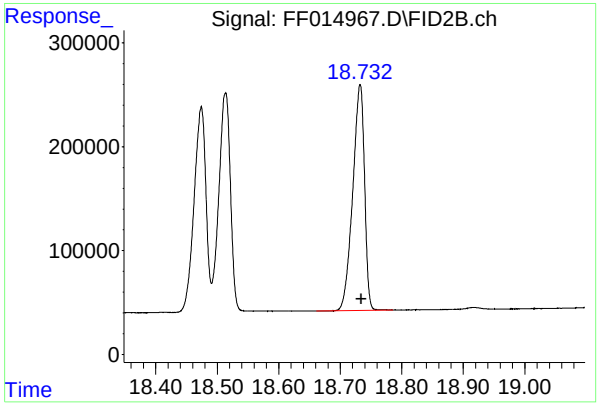
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.474 min
Delta R.T.: -0.002 min
Response: 2668215
Conc: 19.41 ug/ml m



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.513 min
Delta R.T.: -0.001 min
Response: 2742319
Conc: 18.54 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.732 min
Delta R.T.: -0.002 mi
Response: 2893039
Conc: 19.77 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED

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

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

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_F\Data\FF11072
Data File : FF014967.D
Signal(s) : FID2B.ch
Acq On : 07 Nov 2024 20:11
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.613	4.551	4.669	BB	316958	3083180	97.22%	5.268%
2	6.279	6.212	6.315	BV	336245	3162444	99.71%	5.403%
3	7.373	7.329	7.451	BB	329296	3171496	100.00%	5.418%
4	7.996	7.929	8.049	BB	272723	2677459	84.42%	4.574%
5	8.672	8.606	8.736	BB	312077	3054984	96.33%	5.219%
6	8.872	8.802	8.936	BB	180201	1788884	56.41%	3.056%
7	8.971	8.941	9.021	BB	307713	3044860	96.01%	5.202%
8	9.760	9.701	9.812	BB	298467	2965974	93.52%	5.067%
9	11.166	11.014	11.211	BV	269251	2883607	90.92%	4.927%
10	11.241	11.211	11.297	VV	254766	2756127	86.90%	4.709%
11	11.933	11.864	11.987	BB	270631	2937292	92.62%	5.018%
12	12.986	12.947	13.047	PB	252310	2778509	87.61%	4.747%
13	13.286	13.224	13.317	BV	240301	2741087	86.43%	4.683%
14	15.164	15.099	15.185	BV	213412	2628452	82.88%	4.491%
15	15.207	15.185	15.267	VB	232655	2665304	84.04%	4.554%
16	16.723	16.644	16.739	BV	199452	2691646	84.87%	4.599%
17	16.755	16.739	16.797	VB	216639	2538092	80.03%	4.336%
18	17.103	17.034	17.142	BV	213052	2679045	84.47%	4.577%
19	18.474	18.281	18.491	BV	197525	2648168	83.50%	4.524%
20	18.513	18.491	18.559	VB	211030	2742319	86.47%	4.685%
21	18.732	18.661	18.786	BB	218242	2893039	91.22%	4.943%
			Sum of corrected areas:			58531968		

Aromatic EPH 110724.M Fri Nov 08 08:59:38 2024

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

Continuing Calibration Report for SequenceID : FC111324AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067734.D**						
Aliphatic C9-C12	7176964.000	60.000	3.169	6.447	119616.067	135469.641	11.703
Aliphatic C12-C16	4748255.000	40.000	6.448	9.836	118706.375	131681.730	9.854
Aliphatic C16-C21	6999820.000	60.000	9.837	13.192	116663.667	127235.092	8.309
Aliphatic C21-C28	9375270.000	80.000	13.193	16.845	117190.875	120090.398	2.414
Aliphatic C28-C40	13486380.000	120.000	16.846	21.681	112386.500	101093.195	-11.171
Aliphatic EPH	41786689.000	360.000	3.169	21.681	116074.136	118799.912	2.294

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	13 Nov 2024 13:03
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067734.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.169	6.447	7176964.000	60.000	ug/ml
Aliphatic C12-C16	6.448	9.836	4748255.000	40.000	ug/ml
Aliphatic C16-C21	9.837	13.192	6999820.000	60.000	ug/ml
Aliphatic C21-C28	13.193	16.845	9375270.000	80.000	ug/ml
Aliphatic C28-C40	16.846	21.681	13486380.000	120.000	ug/ml
Aliphatic EPH	3.169	21.681	41786689.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067734.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 13:03
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 01:17:16 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)	11.486	2634732	17.956 ug/ml
	Spiked Amount 50.000		Recovery = 35.91%	
12)	S 1-chlorooctadecane (S...	12.924	1980545	18.340 ug/ml
	Spiked Amount 50.000		Recovery = 36.68%	
	Target Compounds			
1)	T n-Nonane (C9)	3.269	2334469	17.328 ug/ml
2)	T n-Decane (C10)	4.333	2429986	17.835 ug/ml
3)	T A~Naphthalene (C11.7)	5.910	2632726	17.766 ug/ml
4)	T n-Dodecane (C12)	6.347	2412509	17.812 ug/ml
5)	T A~2-methylnaphthalene...	6.964	2515890	17.815 ug/ml
6)	T n-Tetradecane (C14)	8.139	2350934	17.910 ug/ml
7)	T n-Hexadecane (C16)	9.735	2397321	18.147 ug/ml
8)	T n-Octadecane (C18)	11.175	2418893	18.309 ug/ml
10)	T n-Eicosane (C20)	12.482	2311692	18.321 ug/ml
11)	T n-Heneicosane (C21)	13.092	2269235	18.387 ug/ml
13)	T n-Docosane (C22)	13.677	2277809	18.602 ug/ml
14)	T n-Tetracosane (C24)	14.778	2332427	19.243 ug/ml
15)	T n-Hexacosane (C26)	15.798	2318577	19.475 ug/ml
16)	T n-Octacosane (C28)	16.745	2446457	20.795 ug/ml
17)	T n-Tricontane (C30)	17.632	2748795	22.742 ug/ml
18)	T n-Dotriacontane (C32)	18.463	2822673	23.856 ug/ml
19)	T n-Tetratriacontane (C34)	19.244	2439942	23.298 ug/ml
20)	T n-Hexatriacontane (C36)	19.982	1997562	21.945 ug/ml
21)	T n-Octatriacontane (C38)	20.702	1796748	20.747 ug/ml
22)	T n-Tetracontane (C40)	21.583	1680660	19.770 ug/ml

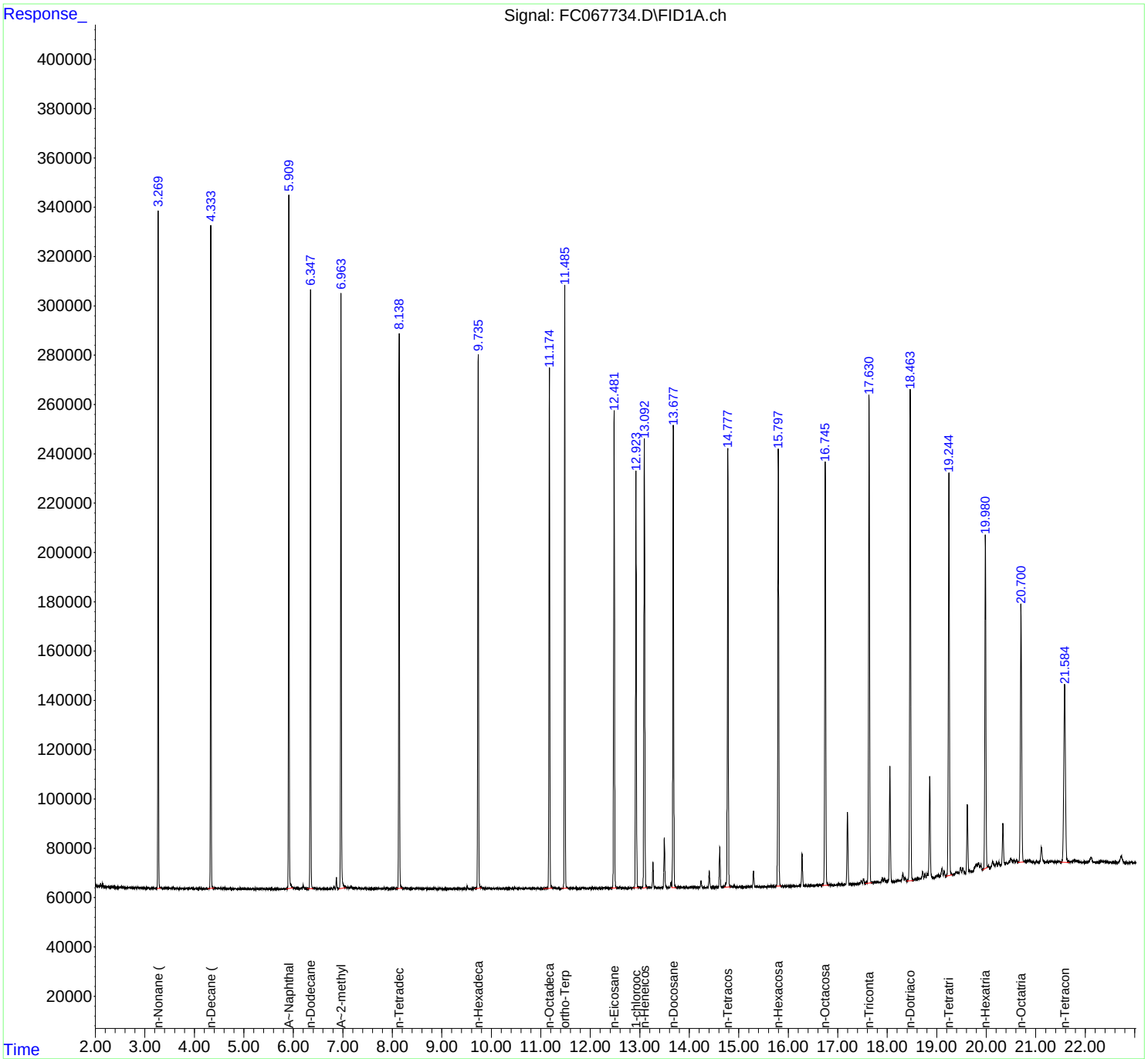
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067734.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 13:03
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 01:17:16 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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067734.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 13:03
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 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	3.269	3.245	3.314	BB	274635	2334469	82.70%	4.529%
2	4.333	4.279	4.394	BB	269115	2429986	86.09%	4.714%
3	5.910	5.859	6.000	BB	282251	2632726	93.27%	5.107%
4	6.347	6.285	6.402	BB	243075	2412509	85.47%	4.680%
5	6.964	6.917	7.064	BB	240457	2515890	89.13%	4.880%
6	8.139	8.082	8.199	BB	224389	2350934	83.29%	4.560%
7	9.735	9.677	9.800	BB	215524	2397321	84.93%	4.650%
8	11.175	11.054	11.242	BB	210209	2418893	85.70%	4.692%
9	11.486	11.417	11.545	BB	244882	2634732	93.34%	5.111%
10	12.482	12.420	12.539	BB	193298	2311692	81.90%	4.484%
11	12.924	12.864	12.989	BB	169073	1980545	70.17%	3.842%
12	13.092	13.055	13.154	BB	181205	2269235	80.39%	4.402%
13	13.677	13.645	13.740	VB	186392	2277809	80.70%	4.419%
14	14.778	14.709	14.839	BB	175446	2332427	82.63%	4.525%
15	15.798	15.757	15.859	BB	177422	2318577	82.14%	4.498%
16	16.745	16.679	16.820	BB	171225	2446457	86.67%	4.746%
17	17.632	17.559	17.695	BB	196022	2748795	97.38%	5.332%
18	18.463	18.395	18.527	BB	197887	2822673	100.00%	5.476%
19	19.244	19.187	19.310	BB	162707	2439942	86.44%	4.733%
20	19.982	19.930	20.020	BV	133980	1997562	70.77%	3.875%
21	20.702	20.642	20.764	BB	101264	1796748	63.65%	3.485%
22	21.583	21.494	21.679	BB	72216	1680660	59.54%	3.260%
			Sum of corrected areas:			51550579		

Aliphatic EPH 102324.M Thu Nov 14 03:20:42 2024

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Continuing Calibration Report for SequenceID : FC111324AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067745.D**						
Aliphatic C9-C12	7960875.000	60.000	3.169	6.447	132681.250	135469.641	2.058
Aliphatic C12-C16	5183286.000	40.000	6.448	9.836	129582.150	131681.730	1.594
Aliphatic C16-C21	7536116.000	60.000	9.837	13.192	125601.933	127235.092	1.284
Aliphatic C21-C28	9658304.000	80.000	13.193	16.845	120728.800	120090.398	-0.532
Aliphatic C28-C40	12823575.000	120.000	16.846	21.681	106863.125	101093.195	-5.708
Aliphatic EPH	43162156.000	360.000	3.169	21.681	119894.878	118799.912	-0.922

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Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	13 Nov 2024 22:40
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067745.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.169	6.447	7960875.000	60.000	ug/ml
Aliphatic C12-C16	6.448	9.836	5183286.000	40.000	ug/ml
Aliphatic C16-C21	9.837	13.192	7536116.000	60.000	ug/ml
Aliphatic C21-C28	13.193	16.845	9658304.000	80.000	ug/ml
Aliphatic C28-C40	16.846	21.681	12823575.000	120.000	ug/ml
Aliphatic EPH	3.169	21.681	43162156.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067745.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 22:40
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 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:19:36 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)	11.487	2853277	19.446 ug/ml
Spiked Amount	50.000		Recovery =	38.89%
12) S	1-chlorooctadecane (S...	12.925	2131382	19.737 ug/ml
Spiked Amount	50.000		Recovery =	39.47%
	Target Compounds			
1) T	n-Nonane (C9)	3.270	2630353	19.525 ug/ml
2) T	n-Decane (C10)	4.334	2678484	19.659 ug/ml
3) T	A~Naphthalene (C11.7)	5.910	2905205	19.605 ug/ml
4) T	n-Dodecane (C12)	6.348	2652038	19.581 ug/ml
5) T	A~2-methylnaphthalene...	6.964	2765109	19.580 ug/ml
6) T	n-Tetradecane (C14)	8.140	2575153	19.619 ug/ml
7) T	n-Hexadecane (C16)	9.736	2608133	19.743 ug/ml
8) T	n-Octadecane (C18)	11.176	2609712	19.754 ug/ml
10) T	n-Eicosane (C20)	12.483	2487790	19.717 ug/ml
11) T	n-Heneicosane (C21)	13.093	2438614	19.760 ug/ml
13) T	n-Docosane (C22)	13.679	2432659	19.867 ug/ml
14) T	n-Tetracosane (C24)	14.780	2428202	20.033 ug/ml
15) T	n-Hexacosane (C26)	15.798	2384790	20.031 ug/ml
16) T	n-Octacosane (C28)	16.747	2412653	20.508 ug/ml
17) T	n-Tricontane (C30)	17.632	2570819	21.269 ug/ml
18) T	n-Dotriacontane (C32)	18.464	2559373	21.631 ug/mlm
19) T	n-Tetratriacontane (C34)	19.244	2264602	21.624 ug/ml
20) T	n-Hexatriacontane (C36)	19.983	1929624	21.198 ug/ml
21) T	n-Octatriacontane (C38)	20.704	1815629	20.965 ug/mlm
22) T	n-Tetracontane (C40)	21.583	1683528	19.804 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067745.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 22:40
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

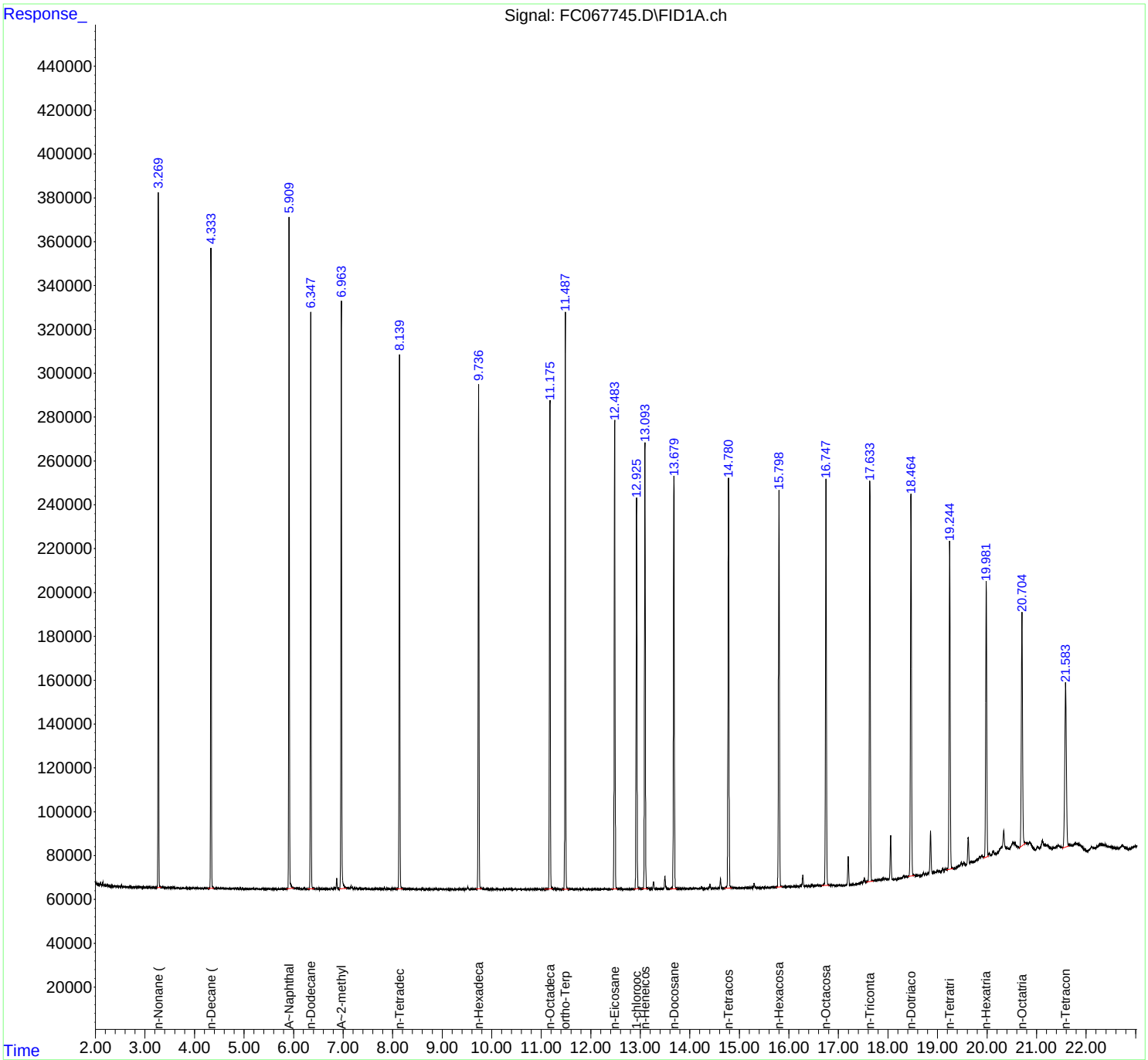
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:19:36 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
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11132
Data File : FC067745.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 22:40
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	3.270	3.245	3.322	BB	316257	2630353	90.54%	4.889%
2	4.334	4.273	4.398	BB	291937	2678484	92.20%	4.979%
3	5.910	5.857	6.005	BB	305616	2905205	100.00%	5.400%
4	6.348	6.283	6.410	BB	262019	2652038	91.29%	4.930%
5	6.964	6.917	7.065	BB	268324	2765109	95.18%	5.140%
6	8.140	8.075	8.200	BB	244095	2575153	88.64%	4.787%
7	9.736	9.680	9.798	BB	230048	2608133	89.77%	4.848%
8	11.176	11.067	11.232	BB	222359	2609712	89.83%	4.851%
9	11.487	11.420	11.552	BB	261837	2853277	98.21%	5.304%
10	12.483	12.418	12.540	BB	213962	2487790	85.63%	4.624%
11	12.925	12.863	12.980	BB	178751	2131382	73.36%	3.962%
12	13.093	13.023	13.150	BB	202737	2438614	83.94%	4.533%
13	13.679	13.592	13.745	BB	187916	2432659	83.73%	4.522%
14	14.780	14.690	14.853	BB	186793	2428202	83.58%	4.514%
15	15.798	15.735	15.860	BB	181016	2384790	82.09%	4.433%
16	16.747	16.668	16.817	BB	184278	2412653	83.05%	4.485%
17	17.632	17.562	17.702	BB	179215	2570819	88.49%	4.779%
18	18.464	18.337	18.532	VB	171404	2581496	88.86%	4.799%
19	19.244	19.177	19.315	BB	148332	2264602	77.95%	4.210%
20	19.983	19.935	20.021	VV	123843	1929624	66.42%	3.587%
21	20.704	20.622	20.777	BB	105751	1786369	61.49%	3.321%
22	21.585	21.347	21.648	BB	72733	1669546	57.47%	3.103%
			Sum of corrected areas:			53796011		

Aliphatic EPH 102324.M Thu Nov 14 03:35:39 2024

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD111324AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048715.D**						
Aromatic C10-C12	7611262.000	40.000	4.089	5.807	190281.550	176202.694	-7.990
Aromatic C12-C16	11365912.000	60.000	5.808	8.412	189431.867	177273.493	-6.859
Aromatic C16-C21	13442306.000	80.000	8.413	12.673	168028.825	163832.550	-2.561
Aromatic C21-C36	30749875.000	180.000	12.674	18.078	170832.639	152713.153	-11.865
Aromatic EPH	63169355.000	360.000	4.089	18.078	175470.431	161887.469	-8.390

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	13 Nov 2024 13:03
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048715.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.089	5.807	7611262.000	40.000	ug/ml
Aromatic C12-C16	5.808	8.412	11365912.000	60.000	ug/ml
Aromatic C16-C21	8.413	12.673	13442306.000	80.000	ug/ml
Aromatic C21-C36	12.674	18.078	30749875.000	180.000	ug/ml
Aromatic EPH	4.089	18.078	63169355.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048715.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 13:03
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 01:44:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.366	3268597	21.535 ug/ml
	Spiked Amount 50.000		Recovery = 43.07%	
6)	S 2-Flurobiphenyl (SURR)	8.216	2119562	21.586 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 43.17%	
11)	S ortho-Terphenyl (SURR)	11.249	3679391	21.600 ug/ml
	Spiked Amount 50.000		Recovery = 43.20%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.189	3760831	21.618 ug/ml
2)	T Naphthalene (C11.7)	5.707	3850431	21.579 ug/ml
3)	T 2-Methylnaphthalene (...	6.753	3842729	21.484 ug/ml
5)	T Acenaphthylene (C15.06)	8.018	3712736	21.144 ug/ml
7)	T Acenaphthene (C15.5)	8.312	3810447	21.484 ug/ml
8)	T Flouorene (C16.55)	9.091	3650705	21.597 ug/ml
9)	T Phenanthrene (C19.36)	10.477	3584970	21.687 ug/ml
10)	T Anthracene (C19.43)	10.553	2658955	16.628 ug/ml
12)	T Fluoranthene (C21.85)	12.280	3595900	21.849 ug/ml
13)	T Pyrene (C20.8)	12.573	3547676	22.025 ug/ml
14)	T Benzo[a]anthracene (C...	14.442	3252236	22.243 ug/ml
15)	T Chrysene (C27.41)	14.483	3604579	21.913 ug/ml
16)	T benzo[b]fluoranthene ...	15.988	3481188	22.898 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.019	3323007	22.109 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.364	3433260	22.813 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.727	2949807	22.608 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	3651467	22.438 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.978	3458431	22.591 ug/ml

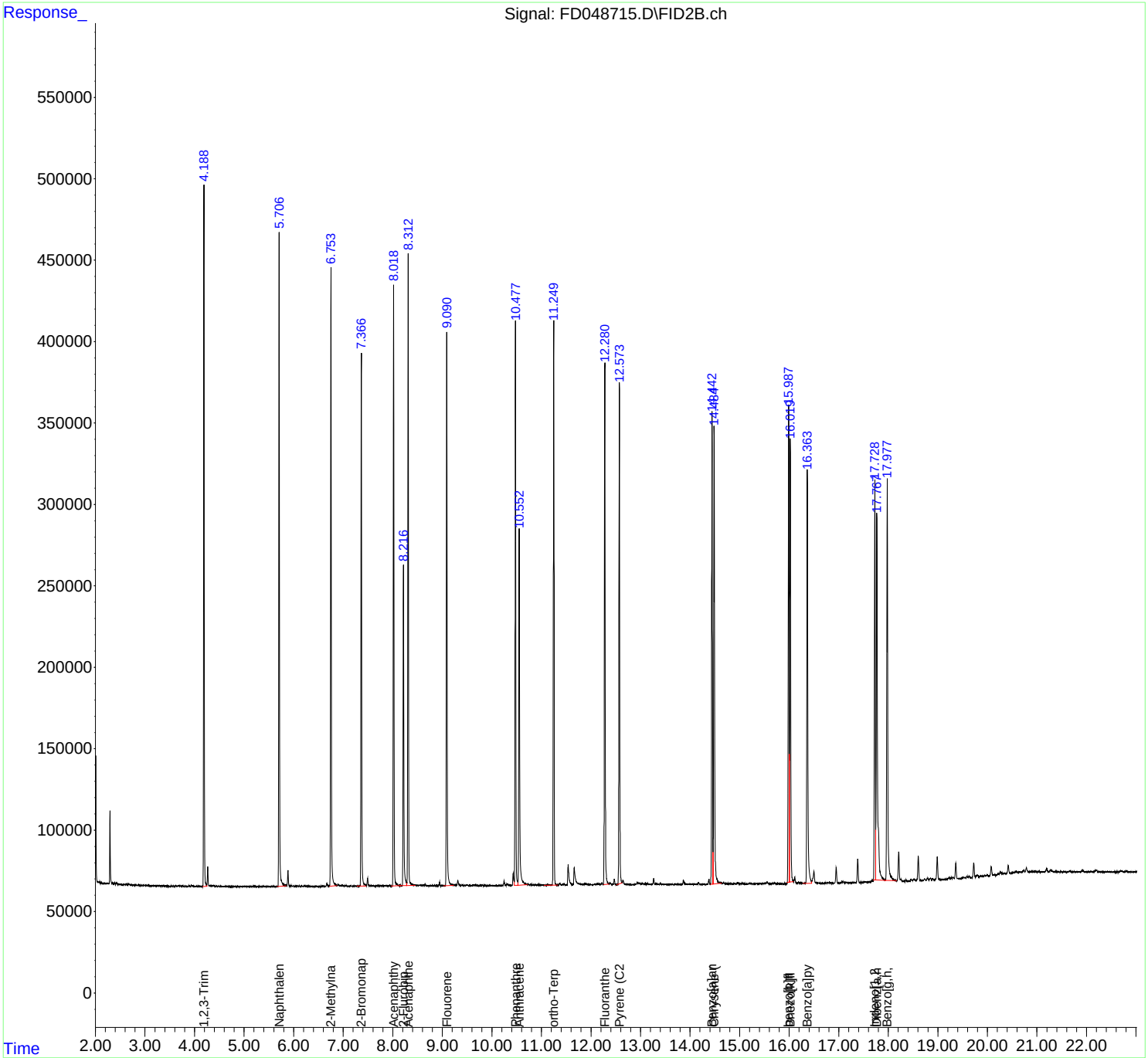
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048715.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 13:03
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 01:44:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048715.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 13:03
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.189	4.161	4.248	BV	428620	3760831	97.67%	5.206%
2	5.707	5.661	5.854	BB	400019	3850431	100.00%	5.330%
3	6.753	6.721	6.881	PV	378446	3842729	99.80%	5.320%
4	7.366	7.274	7.458	BV	324767	3268597	84.89%	4.525%
5	8.018	7.961	8.148	BB	369131	3712736	96.42%	5.140%
6	8.216	8.148	8.283	BV	195348	2119562	55.05%	2.934%
7	8.312	8.283	8.454	VB	384673	3810447	98.96%	5.275%
8	9.091	9.018	9.234	BB	339886	3650705	94.81%	5.054%
9	10.477	10.450	10.528	VV	346324	3584970	93.11%	4.963%
10	10.553	10.528	10.728	VB	218159	2658955	69.06%	3.681%
11	11.249	11.054	11.334	BB	344161	3679391	95.56%	5.094%
12	12.280	12.251	12.368	PV	321244	3595900	93.39%	4.978%
13	12.573	12.518	12.626	BV	306212	3547676	92.14%	4.911%
14	14.442	14.408	14.462	PV	287654	3252236	84.46%	4.502%
15	14.483	14.462	14.641	VB	283442	3604579	93.61%	4.990%
16	15.988	15.961	16.004	BV	293465	3481188	90.41%	4.819%
17	16.019	16.004	16.085	VV	270806	3323007	86.30%	4.600%
18	16.364	16.271	16.455	BV	253850	3433260	89.17%	4.753%
19	17.727	17.701	17.747	BV	247412	2949807	76.61%	4.084%
20	17.767	17.747	17.941	VV	225566	3651467	94.83%	5.055%
21	17.978	17.941	18.161	VV	247501	3458431	89.82%	4.788%
			Sum of corrected areas:			72236904		

Aromatic EPH 102324.M Thu Nov 14 02:51:15 2024

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

Continuing Calibration Report for SequenceID : FD111324AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048726.D**						
Aromatic C10-C12	6232410.000	40.000	4.089	5.807	155810.250	176202.694	11.573
Aromatic C12-C16	9308929.000	60.000	5.808	8.412	155148.817	177273.493	12.481
Aromatic C16-C21	11595850.000	80.000	8.413	12.673	144948.125	163832.550	11.527
Aromatic C21-C36	25181205.000	180.000	12.674	18.078	139895.583	152713.153	8.393
Aromatic EPH	52318394.000	360.000	4.089	18.078	145328.872	161887.469	10.228

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	13 Nov 2024 22:40
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048726.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.089	5.807	6232410.000	40.000	ug/ml
Aromatic C12-C16	5.808	8.412	9308929.000	60.000	ug/ml
Aromatic C16-C21	8.413	12.673	11595850.000	80.000	ug/ml
Aromatic C21-C36	12.674	18.078	25181205.000	180.000	ug/ml
Aromatic EPH	4.089	18.078	52318394.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048726.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 22:40
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 01:46:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.365	2648578	17.450 ug/ml
Spiked Amount	50.000		Recovery =	34.90%
6) S	2-Flurobiphenyl (SURR)	8.215	1738365	17.704 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	35.41%
11) S	ortho-Terphenyl (SURR)	11.250	2993453	17.573 ug/ml
Spiked Amount	50.000		Recovery =	35.15%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.189	3090186	17.763 ug/ml
2) T	Naphthalene (C11.7)	5.706	3142224	17.610 ug/ml
3) T	2-Methylnaphthalene (...	6.753	3129119	17.494 ug/ml
5) T	Acenaphthylene (C15.06)	8.018	3079970	17.541 ug/ml
7) T	Acenaphthene (C15.5)	8.312	3099840	17.477 ug/ml
8) T	Flouorene (C16.55)	9.090	2993836	17.711 ug/ml
9) T	Phenanthrene (C19.36)	10.477	2928005	17.713 ug/ml
10) T	Anthracene (C19.43)	10.552	2794488	17.475 ug/ml
12) T	Fluoranthene (C21.85)	12.280	2924541	17.770 ug/ml
13) T	Pyrene (C20.8)	12.574	2879521	17.877 ug/ml
14) T	Benzo[a]anthracene (C...	14.443	2717938	18.589 ug/ml
15) T	Chrysene (C27.41)	14.484	2912435	17.706 ug/ml
16) T	benzo[b]fluoranthene ...	15.990	2826169	18.590 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.021	2725484	18.133 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.366	2804082	18.632 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.730	2502164	19.177 ug/ml
20) T	Dibenz[a,h]anthracene...	17.770	2912229	17.895 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.980	2856163	18.657 ug/ml

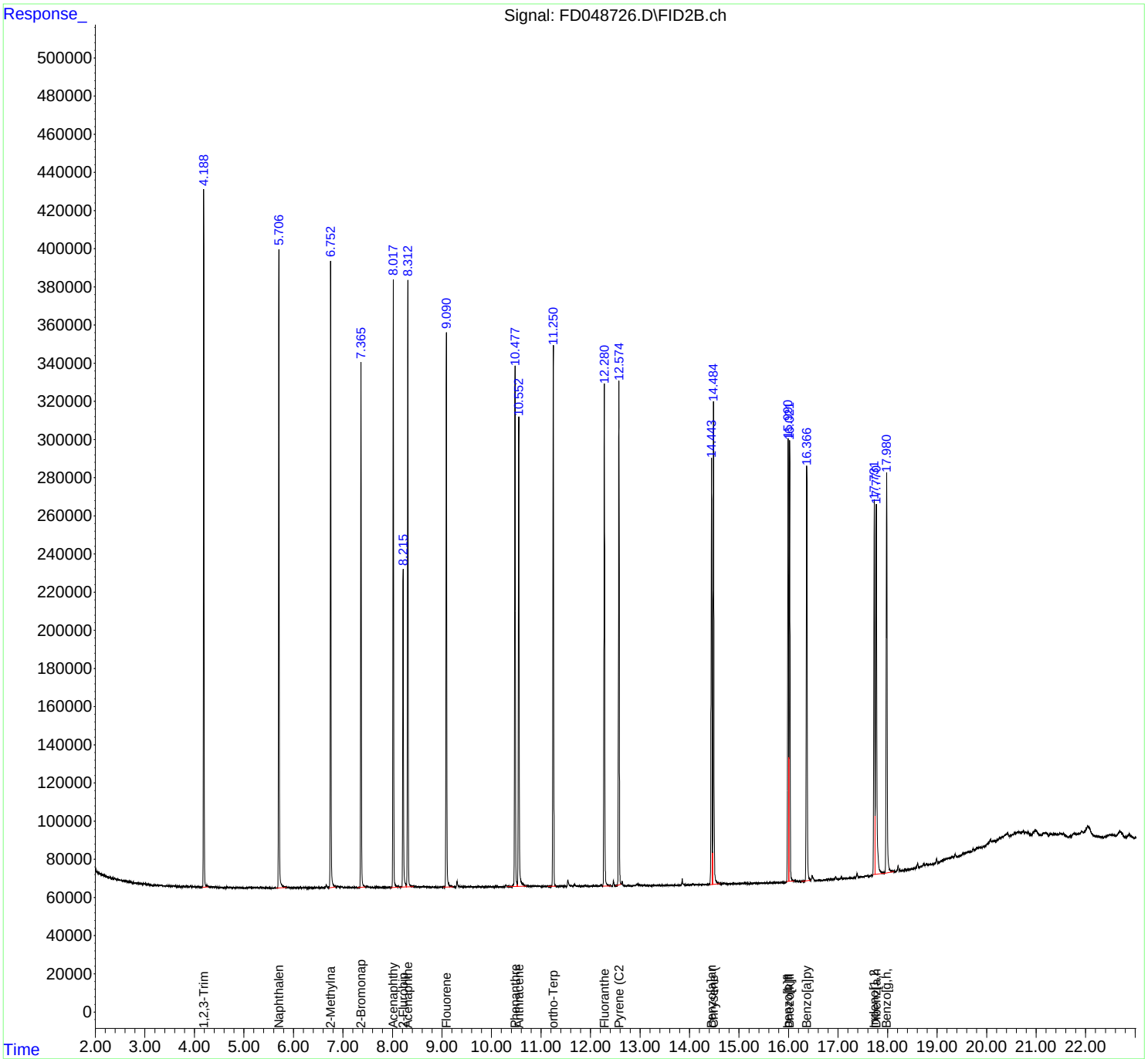
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048726.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 22:40
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 01:46:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048726.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 22:40
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.189	4.161	4.281	BB	362770	3090186	98.34%	5.176%
2	5.706	5.651	5.864	BB	331702	3142224	100.00%	5.263%
3	6.753	6.718	6.855	PV	325293	3129119	99.58%	5.242%
4	7.365	7.291	7.461	BB	274262	2648578	84.29%	4.437%
5	8.018	7.958	8.131	BB	317890	3079970	98.02%	5.159%
6	8.215	8.151	8.284	BV	166065	1738365	55.32%	2.912%
7	8.312	8.284	8.431	VB	315902	3099840	98.65%	5.192%
8	9.090	9.018	9.228	BB	290412	2993836	95.28%	5.015%
9	10.477	10.317	10.523	PV	274560	2928005	93.18%	4.905%
10	10.552	10.523	10.711	VB	245142	2794488	88.93%	4.681%
11	11.250	11.141	11.306	BB	284816	2993453	95.27%	5.014%
12	12.280	12.244	12.411	PB	263031	2924541	93.07%	4.899%
13	12.574	12.508	12.619	BV	265177	2879521	91.64%	4.823%
14	14.443	14.407	14.463	PV	224205	2717938	86.50%	4.553%
15	14.484	14.463	14.611	VB	252764	2912435	92.69%	4.879%
16	15.990	15.961	16.005	BV	232141	2826169	89.94%	4.734%
17	16.021	16.005	16.118	VB	230877	2725484	86.74%	4.565%
18	16.366	16.261	16.444	BV	216056	2804082	89.24%	4.697%
19	17.730	17.701	17.748	BV	197612	2502164	79.63%	4.191%
20	17.770	17.748	17.938	VB	194399	2912229	92.68%	4.878%
21	17.980	17.941	18.131	BB	210297	2856163	90.90%	4.784%
			Sum of corrected areas:			59698792		

Aromatic EPH 102324.M Thu Nov 14 02:54:16 2024

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

Continuing Calibration Report for SequenceID : FE111324AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051211.D**						
Aliphatic C9-C12	9612822.000	60.000	3.138	6.755	160213.700	139914.732	-14.508
Aliphatic C12-C16	6121766.000	40.000	6.756	10.187	153044.150	140635.568	-8.823
Aliphatic C16-C21	8557243.000	60.000	10.188	13.546	142620.717	137768.027	-3.522
Aliphatic C21-C28	11355790.000	80.000	13.547	17.200	141947.375	133951.574	-5.969
Aliphatic C28-C40	15363749.000	120.000	17.201	22.043	128031.242	128748.418	0.557
Aliphatic EPH	51011370.000	360.000	3.138	22.043	141698.250	134589.790	-5.282

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	13 Nov 2024 21:42
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051211.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.138	6.755	9612822.000	60.000	ug/ml
Aliphatic C12-C16	6.756	10.187	6121766.000	40.000	ug/ml
Aliphatic C16-C21	10.188	13.546	8557243.000	60.000	ug/ml
Aliphatic C21-C28	13.547	17.200	11355790.000	80.000	ug/ml
Aliphatic C28-C40	17.201	22.043	15363749.000	120.000	ug/ml
Aliphatic EPH	3.138	22.043	51011370.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051211.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2024 21:42
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 14 04:07:30 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)	11.846	3073648	20.478 ug/ml
Spiked Amount	50.000		Recovery =	40.96%
12)	S 1-chlorooctadecane (S...	13.280	2326010	20.488 ug/ml
Spiked Amount	50.000		Recovery =	40.98%
	Target Compounds			
1)	T n-Nonane (C9)	3.236	3168603	22.900 ug/ml
2)	T n-Decane (C10)	4.486	3244747	23.147 ug/ml
3)	T A~Naphthalene (C11.7)	6.199	2994437	22.711 ug/ml
4)	T n-Dodecane (C12)	6.654	3199472	22.660 ug/ml
5)	T A~2-methylnaphthalene...	7.295	2748022	21.968 ug/ml
6)	T n-Tetradecane (C14)	8.480	3071370	22.039 ug/ml
7)	T n-Hexadecane (C16)	10.085	3050396	21.496 ug/ml
8)	T n-Octadecane (C18)	11.526	2998568	20.998 ug/ml
10)	T n-Eicosane (C20)	12.833	2820035	20.606 ug/ml
11)	T n-Heneicosane (C21)	13.444	2738640	20.492 ug/ml
13)	T n-Docosane (C22)	14.029	2772010	20.850 ug/ml
14)	T n-Tetracosane (C24)	15.130	2807792	21.166 ug/ml
15)	T n-Hexacosane (C26)	16.149	2837768	21.198 ug/ml
16)	T n-Octacosane (C28)	17.098	2938220	21.552 ug/ml
17)	T n-Tricontane (C30)	17.984	3117702	21.459 ug/ml
18)	T n-Dotriacontane (C32)	18.815	3147211	21.196 ug/ml
19)	T n-Tetratriacontane (C34)	19.598	2793894	20.793 ug/ml
20)	T n-Hexatriacontane (C36)	20.338	2394681	20.070 ug/ml
21)	T n-Octatriacontane (C38)	21.060	2106237	18.506 ug/ml
22)	T n-Tetracontane (C40)	21.939	1804024	16.220 ug/ml

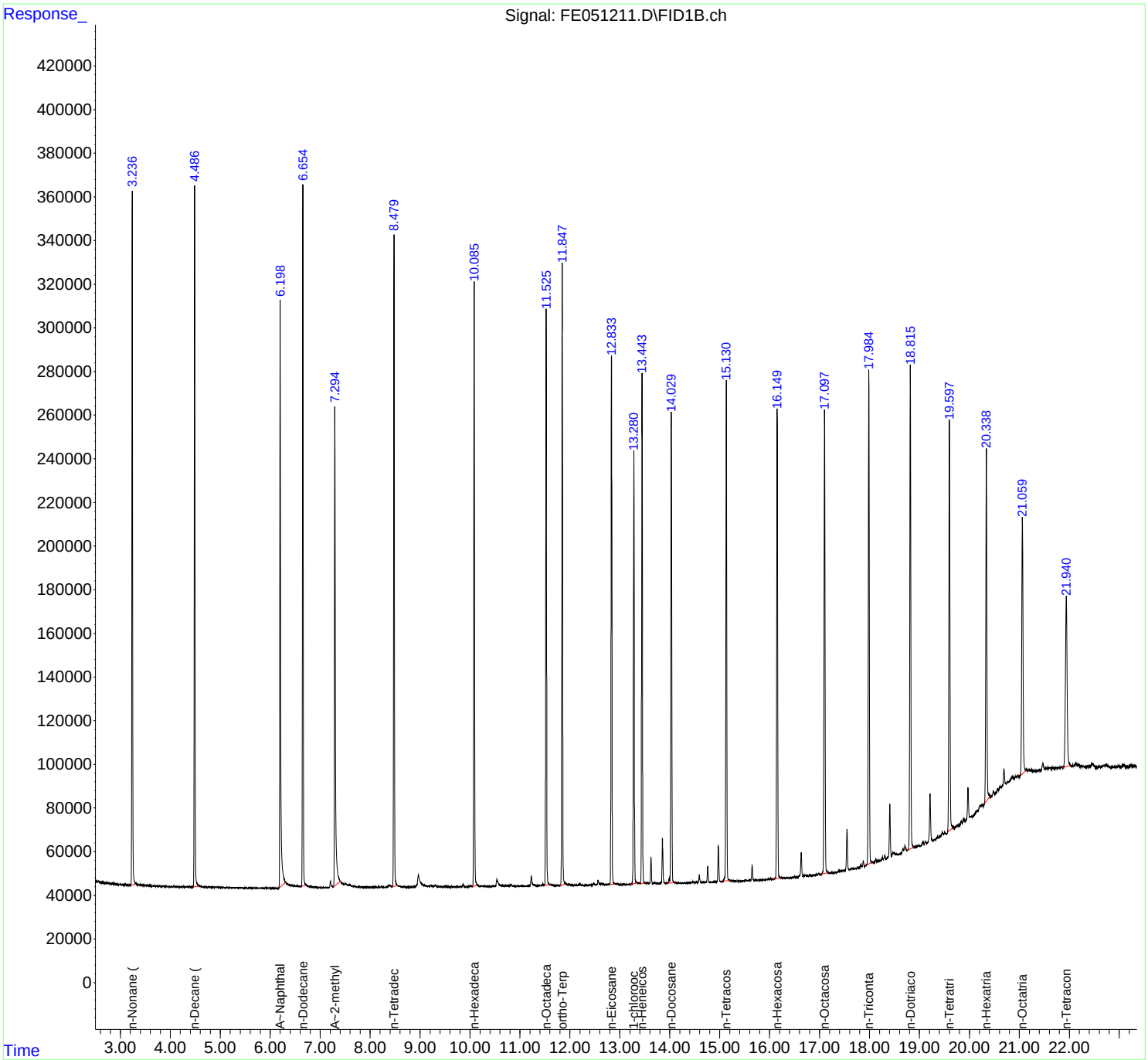
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051211.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2024 21:42
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 14 04:07:30 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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051211.D
Signal(s) : FID1B.ch
Acq On : 13 Nov 2024 21:42
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	3.236	3.208	3.315	BB	316066	3168603	97.65%	5.098%
2	4.486	4.451	4.571	BB	321659	3244747	100.00%	5.221%
3	6.199	6.178	6.308	BB	267276	2994437	92.29%	4.818%
4	6.654	6.618	6.724	BB	321529	3199472	98.60%	5.148%
5	7.295	7.265	7.405	BB	219713	2748022	84.69%	4.421%
6	8.480	8.444	8.555	BB	296716	3071370	94.66%	4.942%
7	10.085	10.048	10.158	BB	276121	3050396	94.01%	4.908%
8	11.526	11.485	11.598	BB	263417	2998568	92.41%	4.824%
9	11.846	11.805	11.921	BB	285558	3073648	94.73%	4.945%
10	12.833	12.791	12.905	BB	241421	2820035	86.91%	4.537%
11	13.280	13.208	13.351	BB	198351	2326010	71.69%	3.742%
12	13.444	13.408	13.515	BB	233487	2738640	84.40%	4.406%
13	14.029	13.958	14.098	BB	216243	2772010	85.43%	4.460%
14	15.130	15.045	15.201	BB	229975	2807792	86.53%	4.518%
15	16.149	16.068	16.221	BB	214299	2837768	87.46%	4.566%
16	17.098	17.025	17.168	BB	212557	2938220	90.55%	4.727%
17	17.984	17.921	18.044	BB	226267	3117702	96.08%	5.016%
18	18.815	18.761	18.881	BB	221742	3147211	96.99%	5.064%
19	19.598	19.561	19.671	BB	187943	2793894	86.11%	4.495%
20	20.338	20.301	20.411	BB	161719	2394681	73.80%	3.853%
21	21.060	21.011	21.135	BB	115700	2106237	64.91%	3.389%
22	21.939	21.871	22.021	BB	77687	1804024	55.60%	2.903%
			Sum of corrected areas:			62153486		

Aliphatic EPH 110724.M Thu Nov 14 04:50:39 2024

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

Continuing Calibration Report for SequenceID : FE111324AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051223.D**						
Aliphatic C9-C12	8922213.000	60.000	3.138	6.755	148703.550	139914.732	-6.282
Aliphatic C12-C16	5852546.000	40.000	6.756	10.187	146313.650	140635.568	-4.037
Aliphatic C16-C21	8481312.000	60.000	10.188	13.546	141355.200	137768.027	-2.604
Aliphatic C21-C28	11406276.000	80.000	13.547	17.200	142578.450	133951.574	-6.440
Aliphatic C28-C40	15462714.000	120.000	17.201	22.043	128855.950	128748.418	-0.084
Aliphatic EPH	50125061.000	360.000	3.138	22.043	139236.281	134589.790	-3.452

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	14 Nov 2024 04:44
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051223.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.138	6.755	8922213.000	60.000	ug/ml
Aliphatic C12-C16	6.756	10.187	5852546.000	40.000	ug/ml
Aliphatic C16-C21	10.188	13.546	8481312.000	60.000	ug/ml
Aliphatic C21-C28	13.547	17.200	11406276.000	80.000	ug/ml
Aliphatic C28-C40	17.201	22.043	15462714.000	120.000	ug/ml
Aliphatic EPH	3.138	22.043	50125061.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051223.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 04:44
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 14 05:30:58 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)	11.846	3060116	20.388 ug/ml
Spiked Amount	50.000		Recovery =	40.78%
12) S	1-chlorooctadecane (S...	13.279	2318450	20.421 ug/ml
Spiked Amount	50.000		Recovery =	40.84%
	Target Compounds			
1) T	n-Nonane (C9)	3.236	2929537	21.172 ug/ml
2) T	n-Decane (C10)	4.486	2995429	21.369 ug/ml
3) T	A~Naphthalene (C11.7)	6.199	2793237	21.185 ug/ml
4) T	n-Dodecane (C12)	6.653	2997247	21.227 ug/ml
5) T	A~2-methylnaphthalene...	7.295	2609405	20.860 ug/ml
6) T	n-Tetradecane (C14)	8.479	2914300	20.912 ug/ml
7) T	n-Hexadecane (C16)	10.084	2938246	20.705 ug/ml
8) T	n-Octadecane (C18)	11.525	2938582	20.578 ug/ml
10) T	n-Eicosane (C20)	12.832	2805125	20.497 ug/ml
11) T	n-Heneicosane (C21)	13.443	2737605	20.484 ug/ml
13) T	n-Docosane (C22)	14.029	2777274	20.890 ug/ml
14) T	n-Tetracosane (C24)	15.130	2823922	21.287 ug/ml
15) T	n-Hexacosane (C26)	16.149	2856497	21.338 ug/ml
16) T	n-Octacosane (C28)	17.097	2948583	21.628 ug/ml
17) T	n-Tricontane (C30)	17.984	3141954	21.626 ug/ml
18) T	n-Dotriacontane (C32)	18.815	3173887	21.376 ug/ml
19) T	n-Tetratriacontane (C34)	19.597	2809332	20.908 ug/ml
20) T	n-Hexatriacontane (C36)	20.338	2395783	20.079 ug/ml
21) T	n-Octatriacontane (C38)	21.058	2101424	18.463 ug/ml
22) T	n-Tetracontane (C40)	21.937	1840334	16.547 ug/ml

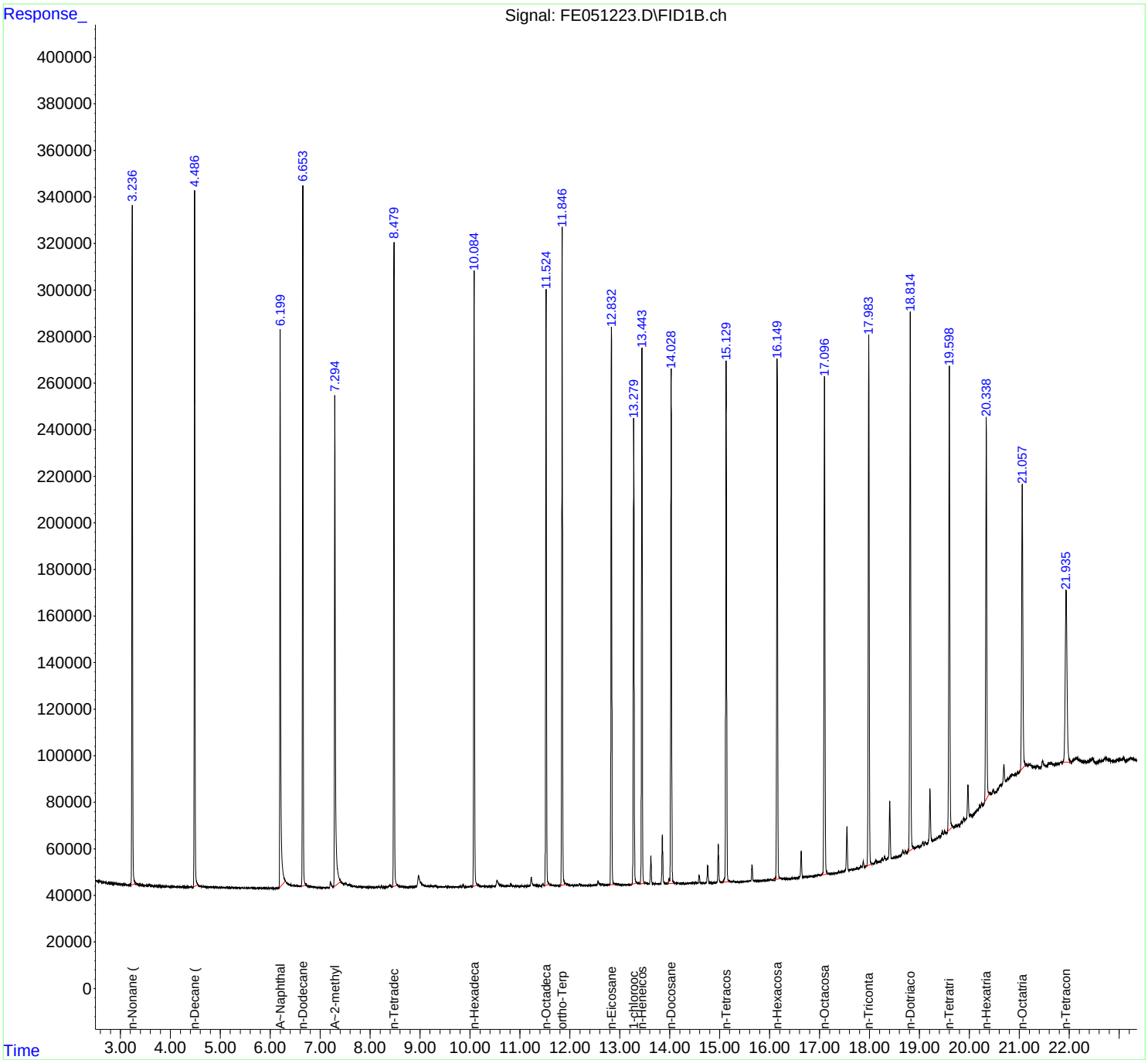
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111324AL\
Data File : FE051223.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 04:44
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 14 05:30:58 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\FE111324AL\
Data File : FE051223.D
Signal(s) : FID1B.ch
Acq On : 14 Nov 2024 04:44
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	3.236	3.204	3.311	BB	289789	2929537	92.30%	4.810%
2	4.486	4.454	4.551	BB	297932	2995429	94.38%	4.918%
3	6.199	6.178	6.304	BB	238781	2793237	88.01%	4.586%
4	6.653	6.618	6.718	BB	300870	2997247	94.43%	4.921%
5	7.295	7.268	7.411	BB	209592	2609405	82.21%	4.284%
6	8.479	8.448	8.544	BB	274355	2914300	91.82%	4.785%
7	10.084	10.051	10.148	BB	264539	2938246	92.58%	4.824%
8	11.525	11.491	11.591	BB	255577	2938582	92.59%	4.825%
9	11.846	11.801	11.931	BB	278223	3060116	96.42%	5.024%
10	12.832	12.798	12.901	BB	238451	2805125	88.38%	4.606%
11	13.279	13.218	13.348	BB	198727	2318450	73.05%	3.807%
12	13.443	13.408	13.508	BB	228735	2737605	86.25%	4.495%
13	14.029	13.954	14.098	BB	219524	2777274	87.50%	4.560%
14	15.130	15.051	15.198	BB	223028	2823922	88.97%	4.637%
15	16.149	16.068	16.218	BB	222427	2856497	90.00%	4.690%
16	17.097	17.028	17.168	BB	213780	2948583	92.90%	4.841%
17	17.984	17.921	18.048	BB	227291	3141954	98.99%	5.159%
18	18.815	18.761	18.884	BB	229253	3173887	100.00%	5.211%
19	19.597	19.561	19.668	BB	199821	2809332	88.51%	4.613%
20	20.338	20.301	20.408	BB	162346	2395783	75.48%	3.934%
21	21.058	21.011	21.124	BB	122290	2101424	66.21%	3.450%
22	21.937	21.871	22.031	BB	73544	1840334	57.98%	3.022%
			Sum of corrected areas:			60906269		

Aliphatic EPH 110724.M Thu Nov 14 05:31:10 2024

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

Continuing Calibration Report for SequenceID : FF111324AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015011.D**						
Aromatic EPH	50600951.000	360.000	4.508	18.815	140558.197	143365.296	1.958
Aromatic C10-C12	6223435.000	40.000	4.508	6.372	155585.875	154569.237	-0.658
Aromatic C12-C16	9170599.000	60.000	6.373	9.063	152843.317	153560.844	0.467
Aromatic C16-C21	11198491.000	80.000	9.064	13.374	139981.138	142096.237	1.488
Aromatic C21-C36	24008426.000	180.000	13.375	18.815	133380.144	138041.042	3.376

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	13 Nov 2024 15:25
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015011.D	Misc:	
Instrument:	FID_F	ALS Vial:	41
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.508	6.372	6223435.000	40.000	ug/ml
Aromatic C12-C16	6.373	9.063	9170599.000	60.000	ug/ml
Aromatic C16-C21	9.064	13.374	11198491.000	80.000	ug/ml
Aromatic C21-C36	13.375	18.815	24008426.000	180.000	ug/ml
Aromatic EPH	4.508	18.815	50600951.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015011.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 15:25
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 02:58:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.990	2651225	19.922 ug/ml
Spiked Amount	50.000		Recovery =	39.84%
6) S	2-Flurobiphenyl (SURR)	8.863	1759475	19.728 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	39.46%
11) S	ortho-Terphenyl (SURR)	11.924	2941444	19.971 ug/ml
Spiked Amount	50.000		Recovery =	39.94%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.608	3081974	20.250 ug/ml
2) T	Naphthalene (C11.7)	6.272	3141461	20.017 ug/ml
3) T	2-Methylnaphthalene (...	7.365	3130532	19.956 ug/ml
5) T	Acenaphthylene (C15.06)	8.664	3019592	19.856 ug/ml
7) T	Acenaphthene (C15.5)	8.963	3020475	19.906 ug/ml
8) T	Flouorene (C16.55)	9.751	2913929	19.644 ug/ml
9) T	Phenanthrene (C19.36)	11.156	2858651	19.710 ug/ml
10) T	Anthracene (C19.43)	11.231	2691379	19.612 ug/ml
12) T	Fluoranthene (C21.85)	12.975	2766067	19.792 ug/ml
13) T	Pyrene (C20.8)	13.274	2734532	19.846 ug/ml
14) T	Benzo[a]anthracene (C...	15.152	2623387	19.660 ug/ml
15) T	Chrysene (C27.41)	15.194	2679657	19.739 ug/ml
16) T	benzo[b]fluoranthene ...	16.709	2730427	19.864 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.740	2594723	20.171 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.089	2718080	20.046 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.458	2487683	18.100 ug/ml
20) T	Dibenz[a,h]anthracene...	18.498	2601761	17.585 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.715	2806641	19.178 ug/ml

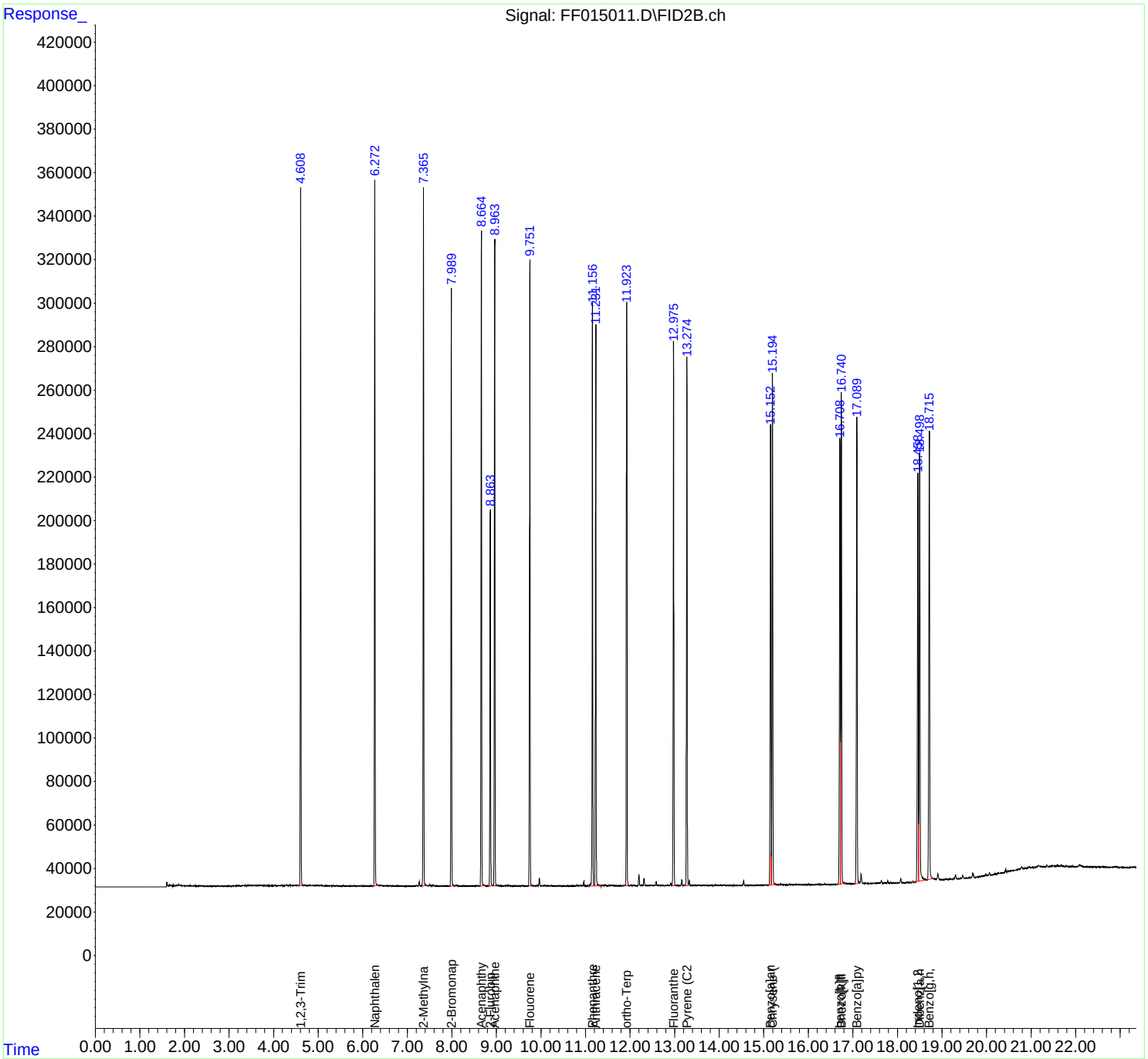
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015011.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 15:25
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 02:58:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015011.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 15:25
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.608	4.550	4.674	BV	321299	3081974	98.11%	5.318%
2	6.272	6.209	6.347	BB	324689	3141461	100.00%	5.421%
3	7.365	7.322	7.445	BB	321806	3130532	99.65%	5.402%
4	7.990	7.929	8.064	BB	275946	2651225	84.39%	4.575%
5	8.664	8.599	8.744	BB	301057	3019592	96.12%	5.210%
6	8.863	8.804	8.922	BV	173469	1759475	56.01%	3.036%
7	8.963	8.922	9.024	VB	297547	3020475	96.15%	5.212%
8	9.751	9.697	9.807	BB	288441	2913929	92.76%	5.028%
9	11.156	11.050	11.200	BV	268919	2858651	91.00%	4.933%
10	11.231	11.200	11.342	VB	257119	2691379	85.67%	4.644%
11	11.924	11.849	11.980	BB	268534	2941444	93.63%	5.076%
12	12.975	12.939	13.024	PB	250363	2766067	88.05%	4.773%
13	13.274	13.212	13.307	BV	243131	2734532	87.05%	4.719%
14	15.152	15.085	15.172	BV	211732	2623387	83.51%	4.527%
15	15.194	15.172	15.274	VB	235046	2679657	85.30%	4.624%
16	16.709	16.625	16.724	BV	204989	2730427	86.92%	4.711%
17	16.740	16.724	16.835	VB	226450	2594723	82.60%	4.477%
18	17.089	17.015	17.155	BV	215046	2718080	86.52%	4.690%
19	18.458	18.294	18.475	BV	187619	2487683	79.19%	4.293%
20	18.498	18.475	18.650	VB	197262	2601761	82.82%	4.489%
21	18.715	18.660	18.800	BBA	206071	2806641	89.34%	4.843%
			Sum of corrected areas:			57953098		

Aromatic EPH 110724.M Thu Nov 14 03:13:21 2024

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

Continuing Calibration Report for SequenceID : FF111324AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015023.D**						
Aromatic EPH	50197626.000	360.000	4.508	18.815	139437.850	143365.296	2.739
Aromatic C10-C12	6068161.000	40.000	4.508	6.372	151704.025	154569.237	1.854
Aromatic C12-C16	9060125.000	60.000	6.373	9.063	151002.083	153560.844	1.666
Aromatic C16-C21	11097245.000	80.000	9.064	13.374	138715.563	142096.237	2.379
Aromatic C21-C36	23972095.000	180.000	13.375	18.815	133178.306	138041.042	3.523

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	13 Nov 2024 21:57
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015023.D	Misc:	
Instrument:	FID_F	ALS Vial:	41
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.508	6.372	6068161.000	40.000	ug/ml
Aromatic C12-C16	6.373	9.063	9060125.000	60.000	ug/ml
Aromatic C16-C21	9.064	13.374	11097245.000	80.000	ug/ml
Aromatic C21-C36	13.375	18.815	23972095.000	180.000	ug/ml
Aromatic EPH	4.508	18.815	50197626.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015023.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 21:57
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 03:00:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.991	2613662	19.639 ug/ml
Spiked Amount	50.000		Recovery =	39.28%
6) S	2-Flurobiphenyl (SURR)	8.866	1742164	19.534 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	39.07%
11) S	ortho-Terphenyl (SURR)	11.926	2907864	19.743 ug/ml
Spiked Amount	50.000		Recovery =	39.49%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.608	2988541	19.636 ug/ml
2) T	Naphthalene (C11.7)	6.273	3079620	19.623 ug/ml
3) T	2-Methylnaphthalene (...	7.367	3085138	19.666 ug/ml
5) T	Acenaphthylene (C15.06)	8.666	2987445	19.645 ug/ml
7) T	Acenaphthene (C15.5)	8.965	2987542	19.689 ug/ml
8) T	Flouorene (C16.55)	9.753	2900530	19.554 ug/ml
9) T	Phenanthrene (C19.36)	11.158	2835120	19.548 ug/ml
10) T	Anthracene (C19.43)	11.233	2663875	19.412 ug/ml
12) T	Fluoranthene (C21.85)	12.978	2730413	19.537 ug/ml
13) T	Pyrene (C20.8)	13.276	2697720	19.578 ug/ml
14) T	Benzo[a]anthracene (C...	15.154	2562398	19.203 ug/ml
15) T	Chrysene (C27.41)	15.197	2613099	19.248 ug/ml
16) T	benzo[b]fluoranthene ...	16.712	2701983	19.657 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.744	2515221	19.553 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.092	2636778	19.447 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.461	2616248	19.036 ug/ml
20) T	Dibenz[a,h]anthracene...	18.502	2685062	18.148 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.719	2910893	19.890 ug/ml

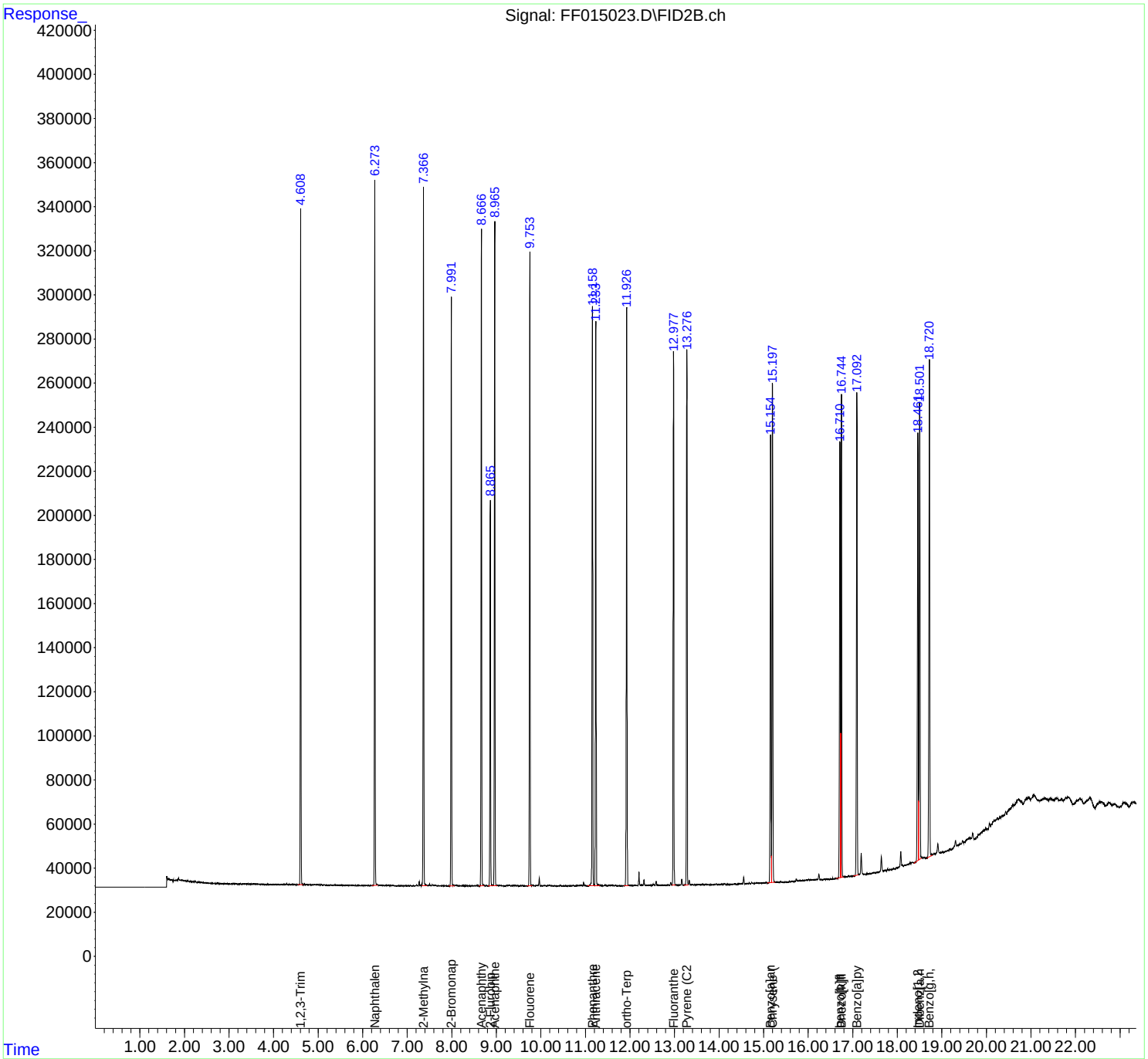
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015023.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 21:57
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 14 03:00:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Fri Nov 08 08:49:17 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111324AR\
Data File : FF015023.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 21:57
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 110724.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.608	4.551	4.664	BB	306356	2988541	96.87%	5.201%
2	6.273	6.206	6.341	BB	319582	3079620	99.82%	5.359%
3	7.367	7.327	7.446	BB	315659	3085138	100.00%	5.369%
4	7.991	7.929	8.057	BB	267007	2613662	84.72%	4.549%
5	8.666	8.609	8.731	BB	297999	2987445	96.83%	5.199%
6	8.866	8.809	8.929	BB	175026	1742164	56.47%	3.032%
7	8.965	8.934	9.021	BB	301136	2987542	96.84%	5.199%
8	9.753	9.691	9.809	BB	287413	2900530	94.02%	5.048%
9	11.158	11.044	11.201	BV	262064	2835120	91.90%	4.934%
10	11.233	11.201	11.324	VB	255492	2663875	86.35%	4.636%
11	11.926	11.862	11.974	BB	262503	2907864	94.25%	5.061%
12	12.978	12.936	13.017	VB	242093	2730413	88.50%	4.752%
13	13.276	13.214	13.309	BV	242496	2697720	87.44%	4.695%
14	15.154	15.081	15.175	BV	203249	2562398	83.06%	4.459%
15	15.197	15.175	15.254	VB	226749	2613099	84.70%	4.548%
16	16.712	16.632	16.727	BV	197853	2701983	87.58%	4.702%
17	16.744	16.727	16.792	VB	219382	2515221	81.53%	4.377%
18	17.092	17.021	17.129	BB	219725	2636778	85.47%	4.589%
19	18.461	18.377	18.479	BV	194389	2616248	84.80%	4.553%
20	18.502	18.479	18.546	VV	206975	2685062	87.03%	4.673%
21	18.719	18.661	18.791	BV	223996	2910893	94.35%	5.066%

Sum of corrected areas: 57461316

Aromatic EPH 110724.M Thu Nov 14 03:14:14 2024

QC SAMPLE DATA

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

Report of Analysis

Client:	BAPS North Bergen	Date Collected:	
Project:	BAPS North Bergen	Date Received:	
Client Sample ID:	PB164943BL	SDG No.:	P4822
Lab Sample ID:	PB164943BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/13/24 16:03	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FC067735.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067735.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067735.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067735.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067735.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048716.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048716.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048716.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD048716.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.00	mg/kg	
Total EPH	Total EPH	7.12	U		7.12	12.0	mg/kg	

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

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	PB164943BL		SDG No.:	P4822	
Lab Sample ID:	PB164943BL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067735.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.4		40 - 140	73%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164943BL	Acq On:	13 Nov 2024 16:03
Client Sample ID:	PB164943BL	Operator:	YP/AJ
Data file:	FC067735.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	3.169	6.447	0	0	300	ug/ml
Aliphatic C12-C16	6.448	9.836	0	0	200	ug/ml
Aliphatic C16-C21	9.837	13.192	0	0	300	ug/ml
Aliphatic C21-C28	13.193	16.845	0	0	400	ug/ml
Aliphatic C28-C40	16.846	21.681	0	0	600	ug/ml
Aliphatic EPH	3.169	21.681	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.927	12.927	3933323	36.42		ug/ml
Aliphatic C9-C28	3.169	16.845	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067735.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 16:03
Operator : YP/AJ
Sample : PB164943BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164943BL

Integration File: autoint1.e
Quant Time: Nov 14 01:17:27 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			
12) S 1-chlorooctadecane (S...	12.927	3933323	36.424 ug/ml
Spiked Amount 50.000		Recovery = 72.85%	
Target Compounds			

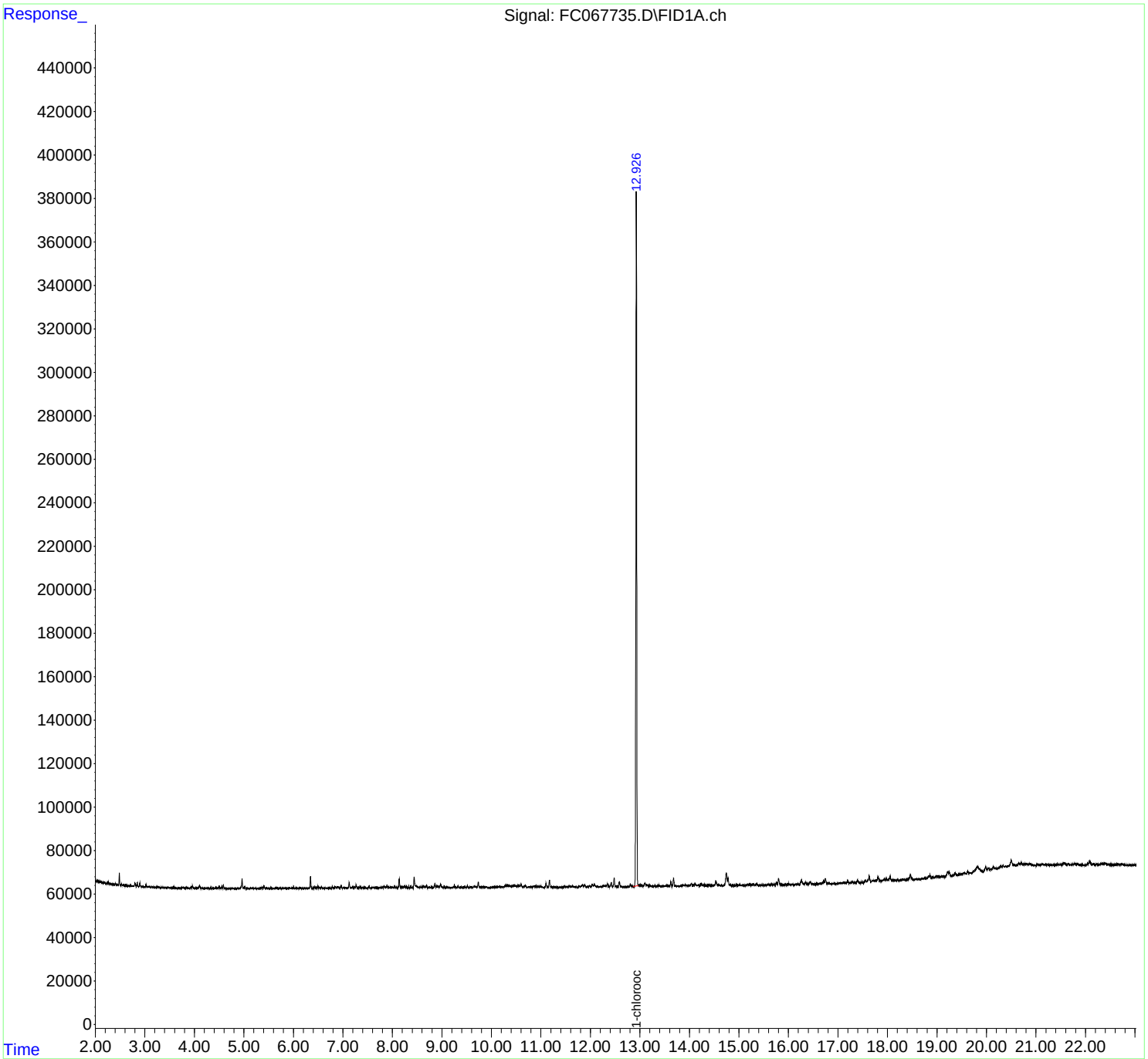
(f)=RT Delta > 1/2 Window (m)=manual int.

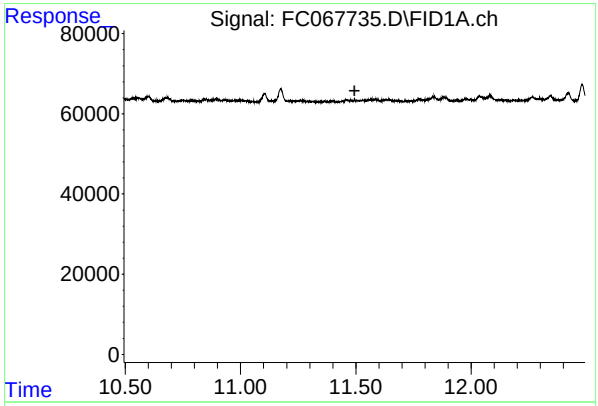
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067735.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 16:03
Operator : YP/AJ
Sample : PB164943BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164943BL

Integration File: autoint1.e
Quant Time: Nov 14 01:17:27 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

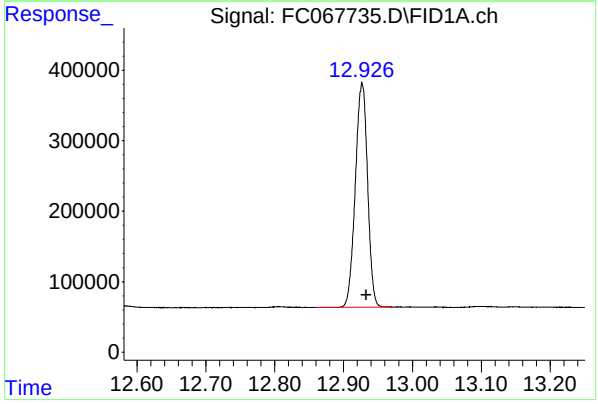




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.494 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB164943BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.927 min
Delta R.T.: -0.006 min
Response: 3933323
Conc: 36.42 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067735.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 16:03
Sample : PB164943BL
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	12.927	12.860	12.972	BB	318882	3933323	100.00%	100.000%

Sum of corrected areas: 3933323

Aliphatic EPH 102324.M Thu Nov 14 03:21:02 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	PB164943BL		SDG No.:	P4822	
Lab Sample ID:	PB164943BL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048716.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.00	U	2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.9		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	47.1		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.9		40 - 140	86%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164943BL	Acq On:	13 Nov 2024 16:03
Client Sample ID:	PB164943BL	Operator:	YP/AJ
Data file:	FD048716.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.089	5.807	0	0	200	ug/ml
Aromatic C12-C16	5.808	8.412	0	0	300	ug/ml
Aromatic C16-C21	8.413	12.673	0	0	500	ug/ml
Aromatic C21-C36	12.674	18.078	0	0	800	ug/ml
Aromatic EPH	4.089	18.078	0	0		ug/ml
ortho-Terphenyl (SURR)	11.251	11.251	7312301	42.93		ug/ml
2-Bromonaphthalene (SURR)	7.363	7.363	7124048	46.94		ug/ml
2-Flurobiphenyl (SURR)	8.213	8.213	4628535	47.14		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048716.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 16:03
Operator : YP/AJ
Sample : PB164943BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164943BL

Integration File: autoint1.e
Quant Time: Nov 14 01:44:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.363	7124048	46.937 ug/ml
Spiked Amount 50.000		Recovery =	93.87%
6) S 2-Flurobiphenyl (SURR)	8.213	4628535	47.138 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	94.28%
11) S ortho-Terphenyl (SURR)	11.251	7312301	42.928 ug/ml
Spiked Amount 50.000		Recovery =	85.86%
Target Compounds			

(f)=RT Delta > 1/2 Window (m)=manual int.

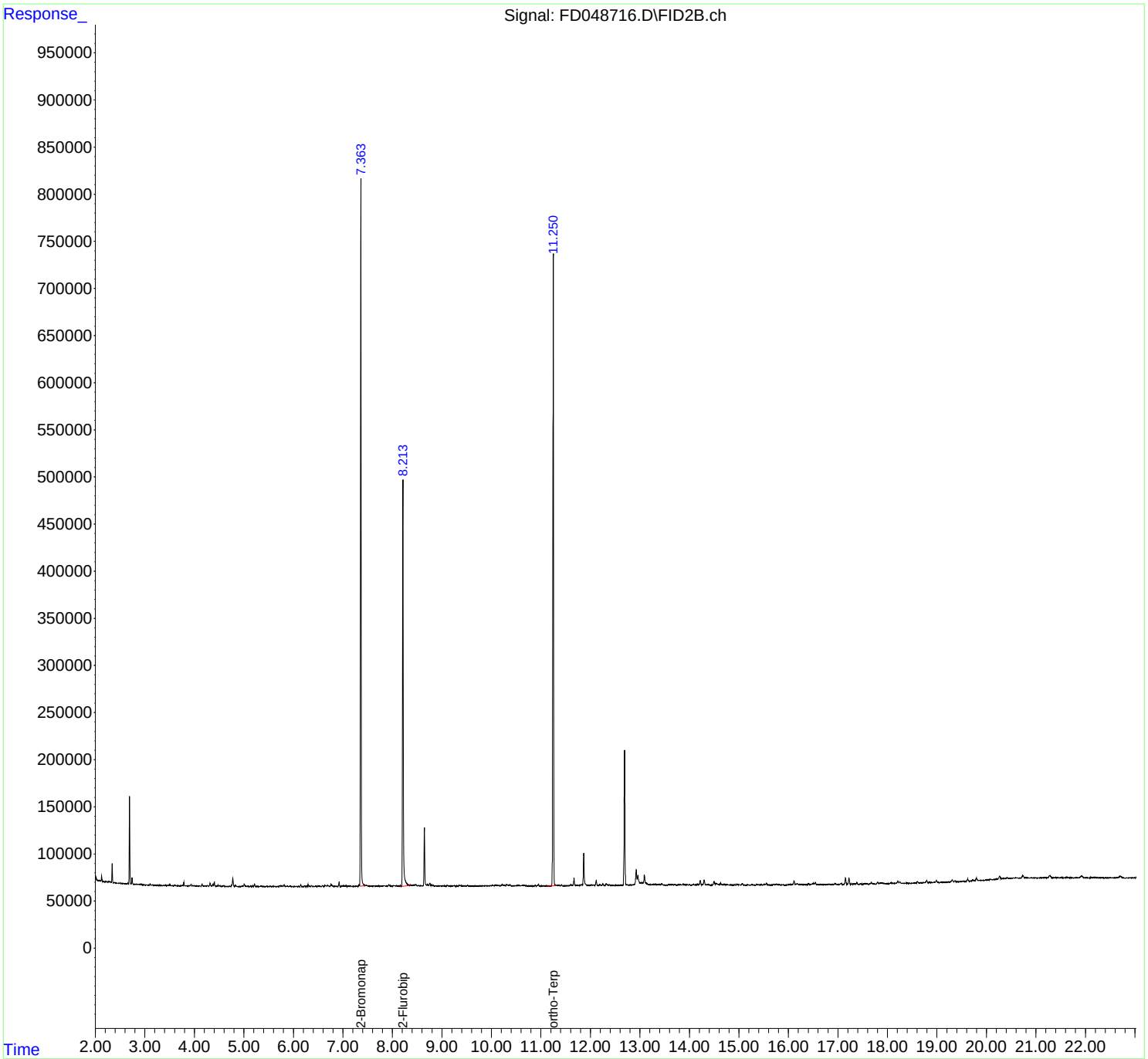
Quantitation Report (QT Reviewed)

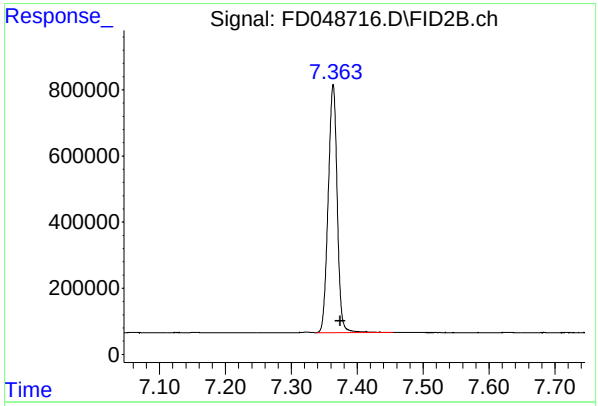
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048716.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 16:03
Operator : YP/AJ
Sample : PB164943BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164943BL

Integration File: autoint1.e
Quant Time: Nov 14 01:44:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

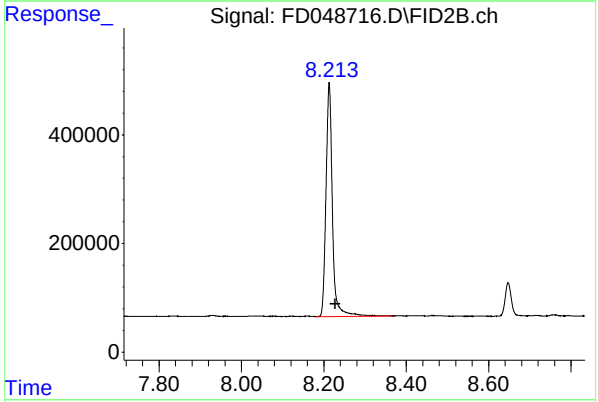




#4 2-Bromonaphthalene (SURR)

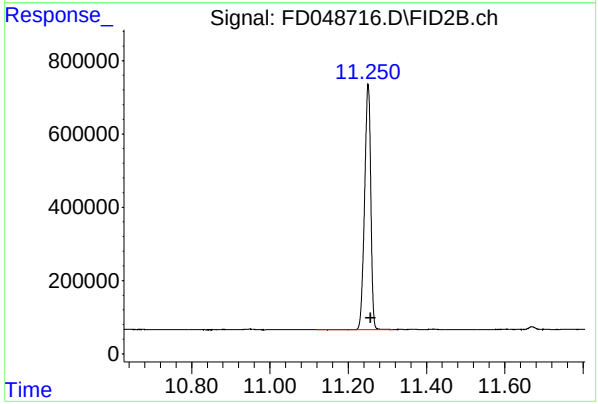
R.T.: 7.363 min
Delta R.T.: -0.011 mi
Response: 7124048
Conc: 46.94 ug/m

Instrument :
FID_D
ClientSampleId :
PB164943BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.213 min
Delta R.T.: -0.015 min
Response: 4628535
Conc: 47.14 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.251 min
Delta R.T.: -0.006 min
Response: 7312301
Conc: 42.93 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048716.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 16:03
Sample : PB164943BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.363	7.338	7.454	VV	753447	7124048	97.43%	37.367%
2	8.213	8.181	8.368	PV	427814	4628535	63.30%	24.278%
3	11.251	11.118	11.314	PV	672862	7312301	100.00%	38.355%

Sum of corrected areas: 19064884

Aromatic EPH 102324.M Thu Nov 14 02:51:39 2024

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

Report of Analysis

Client:	BAPS North Bergen			Date Collected:	
Project:	BAPS North Bergen			Date Received:	
Client Sample ID:	PB164943BS			SDG No.:	P4822
Lab Sample ID:	PB164943BS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/13/24 16:39	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.33		1	0.38	1.00	mg/kg	FC067736.D
Aliphatic C12-C16	Aliphatic C12-C16	5.11		1	0.24	0.67	mg/kg	FC067736.D
Aliphatic C16-C21	Aliphatic C16-C21	8.83		1	0.30	1.00	mg/kg	FC067736.D
Aliphatic C21-C28	Aliphatic C21-C28	12.0		1	0.80	1.33	mg/kg	FC067736.D
Aliphatic C28-C40	Aliphatic C28-C40	20.5		1	1.80	2.00	mg/kg	FC067736.D
Aromatic C10-C12	Aromatic C10-C12	4.64		1	0.30	0.67	mg/kg	FD048717.D
Aromatic C12-C16	Aromatic C12-C16	8.32		1	0.34	1.00	mg/kg	FD048717.D
Aromatic C16-C21	Aromatic C16-C21	16.9		1	0.96	1.67	mg/kg	FD048717.D
Aromatic C21-C36	Aromatic C21-C36	26.2		1	2.00	2.67	mg/kg	FD048717.D
Total AliphaticEPH	Total AliphaticEPH	51.8			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	56.1			3.60	6.01	mg/kg	
Total EPH	Total EPH	108			7.12	12.0	mg/kg	

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

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	PB164943BS		SDG No.:	P4822	
Lab Sample ID:	PB164943BS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067736.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.33		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.11		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.83		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.0		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.5		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.9		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164943BS	Acq On:	13 Nov 2024 16:39
Client Sample ID:	PB164943BS	Operator:	YP/AJ
Data file:	FC067736.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	3.169	6.447	10843046	80.04	300	ug/ml
Aliphatic C12-C16	6.448	9.836	10096874	76.676	200	ug/ml
Aliphatic C16-C21	9.837	13.192	16854201	132.465	300	ug/ml
Aliphatic C21-C28	13.193	16.845	21533821	179.313	400	ug/ml
Aliphatic C28-C40	16.846	21.681	31043106	307.074	600	ug/ml
Aliphatic EPH	3.169	21.681	90371048	775.569		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.926	12.926	4307506	39.89		ug/ml
Aliphatic C9-C28	3.169	16.845	59327942	468.494	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067736.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 16:39
Operator : YP/AJ
Sample : PB164943BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164943BS

Integration File: autoint1.e
Quant Time: Nov 14 01:17:36 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			
12) S	1-chlorooctadecane (S...	12.926	4307506	39.889 ug/ml
Spiked Amount	50.000		Recovery =	79.78%
	Target Compounds			
1) T	n-Nonane (C9)	3.269	2898417	21.514 ug/ml
2) T	n-Decane (C10)	4.333	3649310	26.785 ug/ml
4) T	n-Dodecane (C12)	6.347	4295319	31.713 ug/ml
6) T	n-Tetradecane (C14)	8.139	4830531	36.801 ug/ml
7) T	n-Hexadecane (C16)	9.737	5266343	39.865 ug/ml
8) T	n-Octadecane (C18)	11.176	5592230	42.329 ug/ml
10) T	n-Eicosane (C20)	12.485	5735584	45.456 ug/ml
11) T	n-Heneicosane (C21)	13.094	5526387	44.779 ug/ml
13) T	n-Docosane (C22)	13.680	5507683	44.979 ug/ml
14) T	n-Tetracosane (C24)	14.781	5440239	44.883 ug/ml
15) T	n-Hexacosane (C26)	15.800	5328540	44.757 ug/ml
16) T	n-Octacosane (C28)	16.748	5257359	44.688 ug/ml
17) T	n-Tricontane (C30)	17.634	5275331	43.644 ug/ml
18) T	n-Dotriacontane (C32)	18.464	5234095	44.237 ug/ml
19) T	n-Tetratriacontane (C34)	19.245	5220958	49.853 ug/ml
20) T	n-Hexatriacontane (C36)	19.983	5121152	56.260 ug/ml
21) T	n-Octatriacontane (C38)	20.707	5116929	59.085 ug/ml
22) T	n-Tetracontane (C40)	21.587	5074641	59.694 ug/ml

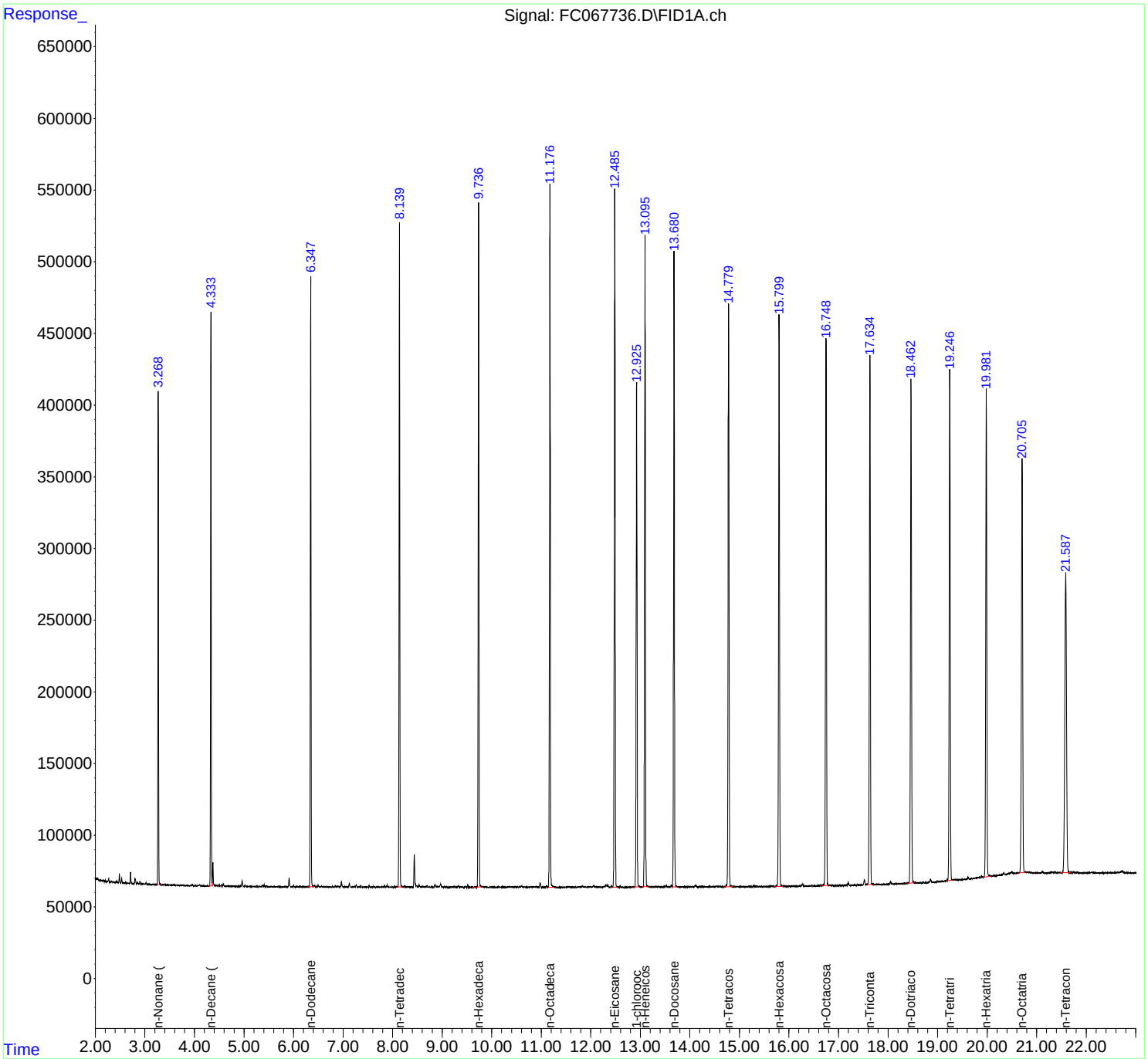
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067736.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 16:39
Operator : YP/AJ
Sample : PB164943BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164943BS

Integration File: autoint1.e
Quant Time: Nov 14 01:17:36 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\FC111324AL\
Data File : FC067736.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 16:39
Sample : PB164943BS
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	3.269	3.245	3.320	BB	344143	2898417	50.53%	3.061%
2	4.333	4.277	4.357	BV	402298	3649310	63.63%	3.854%
3	6.347	6.285	6.412	BB	425151	4295319	74.89%	4.537%
4	8.139	8.080	8.205	BB	462954	4830531	84.22%	5.102%
5	9.737	9.612	9.810	BB	477400	5266343	91.82%	5.562%
6	11.176	11.134	11.262	BB	489167	5592230	97.50%	5.907%
7	12.485	12.444	12.549	PB	490192	5735584	100.00%	6.058%
8	12.926	12.855	12.985	BB	350683	4307506	75.10%	4.550%
9	13.094	13.029	13.169	BB	453676	5526387	96.35%	5.837%
10	13.680	13.641	13.752	PB	442121	5507683	96.03%	5.817%
11	14.781	14.682	14.869	BB	402246	5440239	94.85%	5.746%
12	15.800	15.715	15.877	BB	394666	5328540	92.90%	5.628%
13	16.748	16.660	16.814	BB	381147	5257359	91.66%	5.553%
14	17.634	17.567	17.694	BB	368913	5275331	91.98%	5.572%
15	18.464	18.380	18.537	BB	346311	5234095	91.26%	5.528%
16	19.245	19.164	19.310	BB	350536	5220958	91.03%	5.514%
17	19.983	19.910	20.085	BB	336288	5121152	89.29%	5.409%
18	20.707	20.627	20.784	BB	285718	5116929	89.21%	5.405%
19	21.587	21.487	21.685	BB	209614	5074641	88.48%	5.360%

Sum of corrected areas: 94678555

Aliphatic EPH 102324.M Thu Nov 14 03:21:29 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	PB164943BS		SDG No.:	P4822	
Lab Sample ID:	PB164943BS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048717.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.64		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.32		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	16.9		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	26.2		2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.1		40 - 140	104%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.0		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.0		40 - 140	92%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164943BS	Acq On:	13 Nov 2024 16:39
Client Sample ID:	PB164943BS	Operator:	YP/AJ
Data file:	FD048717.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.089	5.807	12276260	69.671	200	ug/ml
Aromatic C12-C16	5.808	8.412	22133475	124.855	300	ug/ml
Aromatic C16-C21	8.413	12.673	41607483	253.963	500	ug/ml
Aromatic C21-C36	12.674	18.078	60069578	393.349	800	ug/ml
Aromatic EPH	4.089	18.078	136086796	841.839		ug/ml
ortho-Terphenyl (SURR)	11.252	11.252	7844218	46.05		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	7906349	52.09		ug/ml
2-Flurobiphenyl (SURR)	8.216	8.216	4909438	50		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048717.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 16:39
Operator : YP/AJ
Sample : PB164943BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164943BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:45:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	7906349	52.091 ug/ml
Spiked Amount	50.000		Recovery =	104.18%
6) S	2-Flurobiphenyl (SURR)	8.216	4909438	49.998 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	100.00%
11) S	ortho-Terphenyl (SURR)	11.252	7844218	46.050 ug/ml
Spiked Amount	50.000		Recovery =	92.10%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.189	5670660	32.595 ug/mlm
2) T	Naphthalene (C11.7)	5.706	6571702	36.830 ug/ml
3) T	2-Methylnaphthalene (...	6.753	6484874	36.256 ug/ml
5) T	Acenaphthylene (C15.06)	8.020	7591347	43.233 ug/ml
7) T	Acenaphthene (C15.5)	8.315	8057254	45.428 ug/ml
8) T	Flouorene (C16.55)	9.093	8131947	48.108 ug/ml
9) T	Phenanthrene (C19.36)	10.480	8114259	49.086 ug/ml
10) T	Anthracene (C19.43)	10.556	8096300	50.630 ug/ml
12) T	Fluoranthene (C21.85)	12.285	8182167	49.716 ug/mlm
13) T	Pyrene (C20.8)	12.578	8060535	50.041 ug/ml
14) T	Benzo[a]anthracene (C...	14.447	7631011	52.190 ug/ml
15) T	Chrysene (C27.41)	14.491	7592076	46.155 ug/ml
16) T	benzo[b]fluoranthene ...	15.995	7655518	50.356 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.030	7592261	50.513 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.371	7398779	49.163 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.739	7596359	58.219 ug/ml
20) T	Dibenz[a,h]anthracene...	17.777	7225222	44.399 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.991	7378352	48.196 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048717.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 16:39
Operator : YP/AJ
Sample : PB164943BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

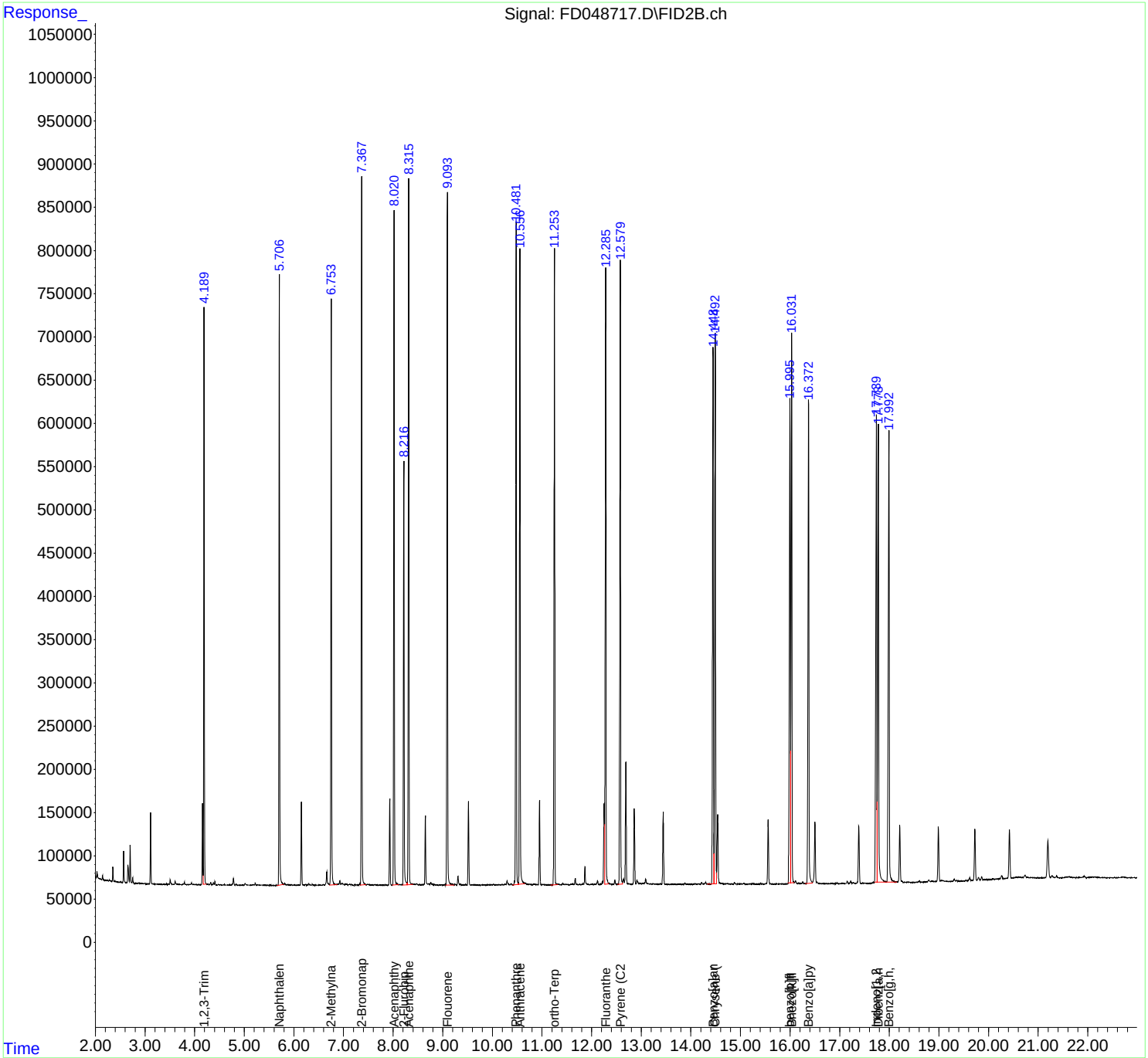
Instrument :
FID_D
ClientSampleId :
PB164943BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:45:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_D
ClientSampleId :
PB164943BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11132
Data File : FD048717.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 16:39
Sample : PB164943BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.189	4.172	4.253	M	668386	5704558	61.98%	3.639%
2	5.706	5.657	5.795	PV	702190	6571702	71.40%	4.193%
3	6.753	6.720	6.878	VB	678312	6484874	70.45%	4.137%
4	7.367	7.338	7.456	VB	825282	7906349	85.90%	5.044%
5	8.020	7.981	8.108	PV	789177	7591347	82.47%	4.843%
6	8.216	8.184	8.283	BV	494457	4909438	53.34%	3.132%
7	8.315	8.283	8.405	VV	810051	8057254	87.54%	5.140%
8	9.093	9.060	9.225	VV	813091	8131947	88.35%	5.188%
9	10.480	10.403	10.523	PV	773641	8114259	88.16%	5.177%
10	10.556	10.523	10.661	VV	723471	8096300	87.96%	5.165%
11	11.252	11.178	11.321	BV	722014	7844218	85.22%	5.004%
12	12.285	12.227	12.425	VV	714721	9204442	100.00%	5.872%
13	12.578	12.517	12.623	PV	717159	8060535	87.57%	5.142%
14	14.447	14.329	14.466	PV	623430	7631011	82.91%	4.868%
15	14.491	14.466	14.517	VV	635774	7592076	82.48%	4.844%
16	15.995	15.961	16.010	BV	557059	7655518	83.17%	4.884%
17	16.030	16.010	16.088	VV	643132	7592261	82.48%	4.844%
18	16.371	16.298	16.448	BV	558737	7398779	80.38%	4.720%
19	17.739	17.701	17.755	BV	535655	7596359	82.53%	4.846%
20	17.777	17.755	17.944	VV	532127	7225222	78.50%	4.609%
21	17.991	17.944	18.155	VV	520852	7378352	80.16%	4.707%
			Sum of corrected areas:			156746801		

Aromatic EPH 102324.M Thu Nov 14 02:52:35 2024

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

Report of Analysis

Client:	BAPS North Bergen			Date Collected:	
Project:	BAPS North Bergen			Date Received:	
Client Sample ID:	PB164943BSD			SDG No.:	P4822
Lab Sample ID:	PB164943BSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/13/24 17:15	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.59		1	0.38	1.00	mg/kg	FC067737.D
Aliphatic C12-C16	Aliphatic C12-C16	5.33		1	0.24	0.67	mg/kg	FC067737.D
Aliphatic C16-C21	Aliphatic C16-C21	9.21		1	0.30	1.00	mg/kg	FC067737.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5		1	0.80	1.33	mg/kg	FC067737.D
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1	1.80	2.00	mg/kg	FC067737.D
Aromatic C10-C12	Aromatic C10-C12	4.65		1	0.30	0.67	mg/kg	FD048718.D
Aromatic C12-C16	Aromatic C12-C16	8.33		1	0.34	1.00	mg/kg	FD048718.D
Aromatic C16-C21	Aromatic C16-C21	17.0		1	0.96	1.67	mg/kg	FD048718.D
Aromatic C21-C36	Aromatic C21-C36	26.3		1	2.00	2.66	mg/kg	FD048718.D
Total AliphaticEPH	Total AliphaticEPH	54.0			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	56.3			3.60	6.00	mg/kg	
Total EPH	Total EPH	110			7.12	12.0	mg/kg	

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

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	PB164943BSD		SDG No.:	P4822	
Lab Sample ID:	PB164943BSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.02	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067737.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.59		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.33		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.21		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.5		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.0		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164943BSD	Acq On:	13 Nov 2024 17:15
Client Sample ID:	PB164943BSD	Operator:	YP/AJ
Data file:	FC067737.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	3.169	6.447	11372955	83.952	300	ug/ml
Aliphatic C12-C16	6.448	9.836	10544774	80.078	200	ug/ml
Aliphatic C16-C21	9.837	13.192	17580324	138.172	300	ug/ml
Aliphatic C21-C28	13.193	16.845	22511414	187.454	400	ug/ml
Aliphatic C28-C40	16.846	21.681	32420259	320.697	600	ug/ml
Aliphatic EPH	3.169	21.681	94429726	810.352		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.926	12.926	4855338	44.96		ug/ml
Aliphatic C9-C28	3.169	16.845	62009467	489.656	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067737.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 17:15
Operator : YP/AJ
Sample : PB164943BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164943BSD

Integration File: autoint1.e
Quant Time: Nov 14 01:17:47 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			
12) S	1-chlorooctadecane (S...	12.926	4855338	44.962 ug/ml
Spiked Amount	50.000		Recovery =	89.92%
	Target Compounds			
1) T	n-Nonane (C9)	3.270	3045796	22.608 ug/ml
2) T	n-Decane (C10)	4.334	3829095	28.104 ug/ml
4) T	n-Dodecane (C12)	6.348	4498064	33.210 ug/ml
6) T	n-Tetradecane (C14)	8.140	5047276	38.452 ug/ml
7) T	n-Hexadecane (C16)	9.738	5497498	41.615 ug/ml
8) T	n-Octadecane (C18)	11.177	5831850	44.143 ug/ml
10) T	n-Eicosane (C20)	12.484	5983755	47.423 ug/ml
11) T	n-Heneicosane (C21)	13.095	5764719	46.710 ug/ml
13) T	n-Docosane (C22)	13.680	5747085	46.935 ug/ml
14) T	n-Tetracosane (C24)	14.781	5687445	46.922 ug/ml
15) T	n-Hexacosane (C26)	15.800	5569329	46.779 ug/ml
16) T	n-Octacosane (C28)	16.748	5507555	46.814 ug/ml
17) T	n-Tricontane (C30)	17.633	5519219	45.662 ug/ml
18) T	n-Dotriacontane (C32)	18.465	5468520	46.218 ug/ml
19) T	n-Tetratriacontane (C34)	19.247	5454647	52.084 ug/ml
20) T	n-Hexatriacontane (C36)	19.985	5323210	58.480 ug/ml
21) T	n-Octatriacontane (C38)	20.705	5344177	61.709 ug/ml
22) T	n-Tetracontane (C40)	21.588	5310486	62.468 ug/ml

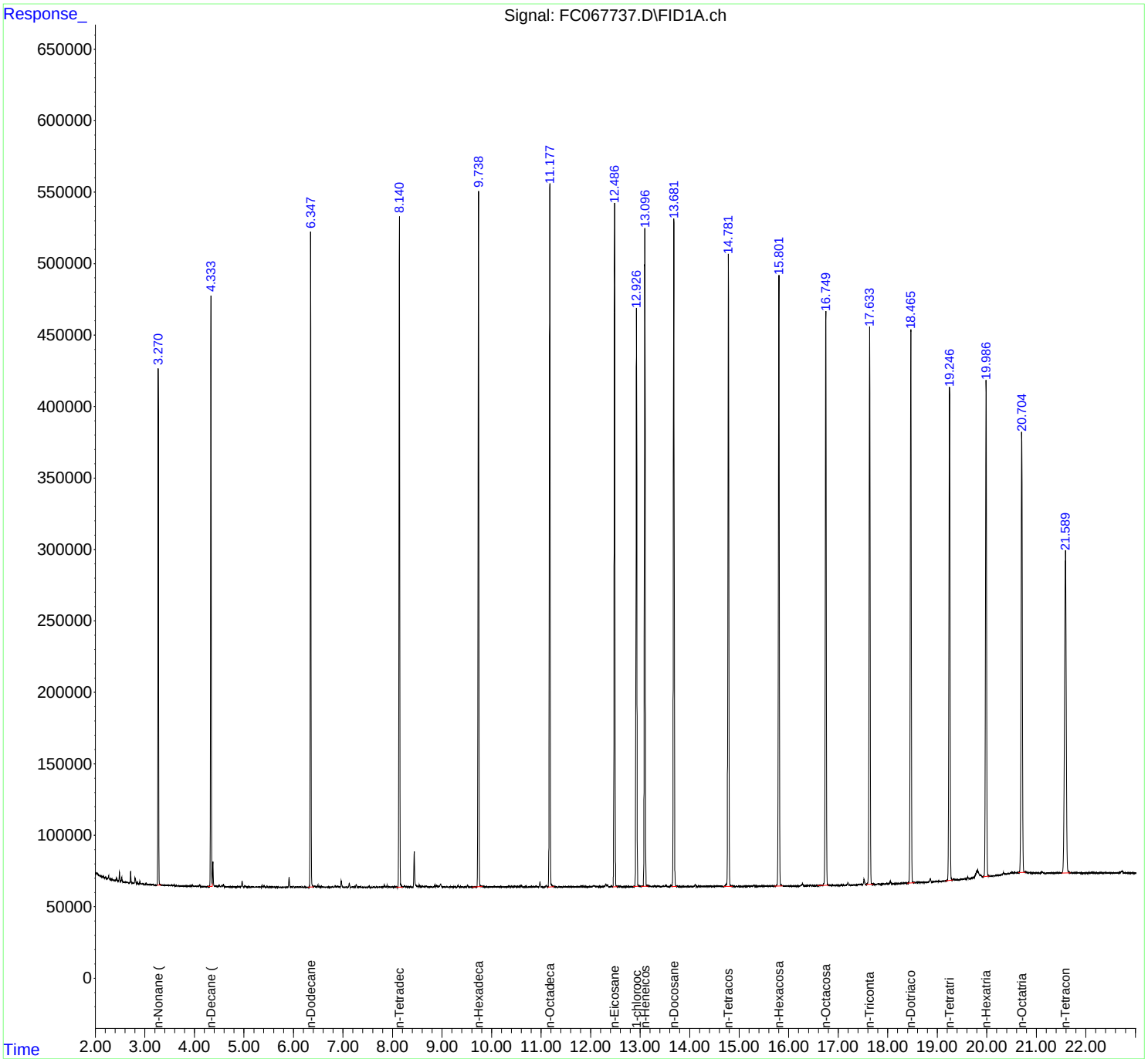
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067737.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 17:15
Operator : YP/AJ
Sample : PB164943BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164943BSD

Integration File: autoint1.e
Quant Time: Nov 14 01:17:47 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\FC111324AL\
Data File : FC067737.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 17:15
Sample : PB164943BSD
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	3.270	3.245	3.330	BB	361496	3045796	50.90%	3.068%
2	4.334	4.280	4.358	BV	413284	3829095	63.99%	3.857%
3	6.348	6.294	6.412	BV	459202	4498064	75.17%	4.530%
4	8.140	8.079	8.212	BB	470466	5047276	84.35%	5.084%
5	9.738	9.614	9.812	BB	486888	5497498	91.87%	5.537%
6	11.177	11.134	11.265	BB	491997	5831850	97.46%	5.874%
7	12.484	12.445	12.547	PB	472387	5983755	100.00%	6.027%
8	12.926	12.864	12.970	BB	404612	4855338	81.14%	4.890%
9	13.095	13.024	13.167	BB	456834	5764719	96.34%	5.806%
10	13.680	13.641	13.745	VB	464461	5747085	96.04%	5.788%
11	14.781	14.682	14.859	BB	439586	5687445	95.05%	5.728%
12	15.800	15.715	15.877	BB	424145	5569329	93.07%	5.609%
13	16.748	16.580	16.807	BB	396615	5507555	92.04%	5.547%
14	17.633	17.567	17.707	BB	388879	5519219	92.24%	5.559%
15	18.465	18.392	18.540	BB	387931	5468520	91.39%	5.508%
16	19.247	19.165	19.310	BB	345050	5454647	91.16%	5.494%
17	19.985	19.920	20.054	BB	345324	5323210	88.96%	5.362%
18	20.705	20.639	20.784	BB	307200	5344177	89.31%	5.383%
19	21.588	21.512	21.692	BB	222399	5310486	88.75%	5.349%

Sum of corrected areas: 99285062

Aliphatic EPH 102324.M Thu Nov 14 03:21:57 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	PB164943BSD		SDG No.:	P4822	
Lab Sample ID:	PB164943BSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.02	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048718.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.65		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.33		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	17.0		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	26.3		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.3		40 - 140	105%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.1		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.2		40 - 140	92%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164943BSD	Acq On:	13 Nov 2024 17:15
Client Sample ID:	PB164943BSD	Operator:	YP/AJ
Data file:	FD048718.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.089	5.807	12307090	69.846	200	ug/ml
Aromatic C12-C16	5.808	8.412	22166227	125.04	300	ug/ml
Aromatic C16-C21	8.413	12.673	41808118	255.188	500	ug/ml
Aromatic C21-C36	12.674	18.078	60392468	395.463	800	ug/ml
Aromatic EPH	4.089	18.078	136673903	845.537		ug/ml
ortho-Terphenyl (SURR)	11.251	11.251	7869360	46.2		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	7937055	52.29		ug/ml
2-Flurobiphenyl (SURR)	8.216	8.216	4923413	50.14		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048718.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 17:15
Operator : YP/AJ
Sample : PB164943BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164943BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:45:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.367	7937055	52.294 ug/ml
	Spiked Amount 50.000		Recovery = 104.59%	
6)	S 2-Flurobiphenyl (SURR)	8.216	4923413	50.141 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 100.28%	
11)	S ortho-Terphenyl (SURR)	11.251	7869360	46.198 ug/ml
	Spiked Amount 50.000		Recovery = 92.40%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.189	5700417	32.766 ug/mlm
2)	T Naphthalene (C11.7)	5.707	6578880	36.870 ug/ml
3)	T 2-Methylnaphthalene (...	6.753	6498291	36.331 ug/ml
5)	T Acenaphthylene (C15.06)	8.020	7626059	43.431 ug/ml
7)	T Acenaphthene (C15.5)	8.315	8041877	45.341 ug/ml
8)	T Flouorene (C16.55)	9.093	8103104	47.937 ug/ml
9)	T Phenanthrene (C19.36)	10.480	8138915	49.235 ug/ml
10)	T Anthracene (C19.43)	10.556	8210799	51.346 ug/ml
12)	T Fluoranthene (C21.85)	12.285	8171229	49.650 ug/mlm
13)	T Pyrene (C20.8)	12.577	8082919	50.180 ug/ml
14)	T Benzo[a]anthracene (C...	14.447	7686996	52.573 ug/ml
15)	T Chrysene (C27.41)	14.490	7578158	46.070 ug/ml
16)	T benzo[b]fluoranthene ...	15.995	7691087	50.590 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.029	7628545	50.754 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.371	7461219	49.578 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.738	7648388	58.618 ug/ml
20)	T Dibenz[a,h]anthracene...	17.775	7283963	44.760 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.990	7414112	48.429 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048718.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 17:15
Operator : YP/AJ
Sample : PB164943BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

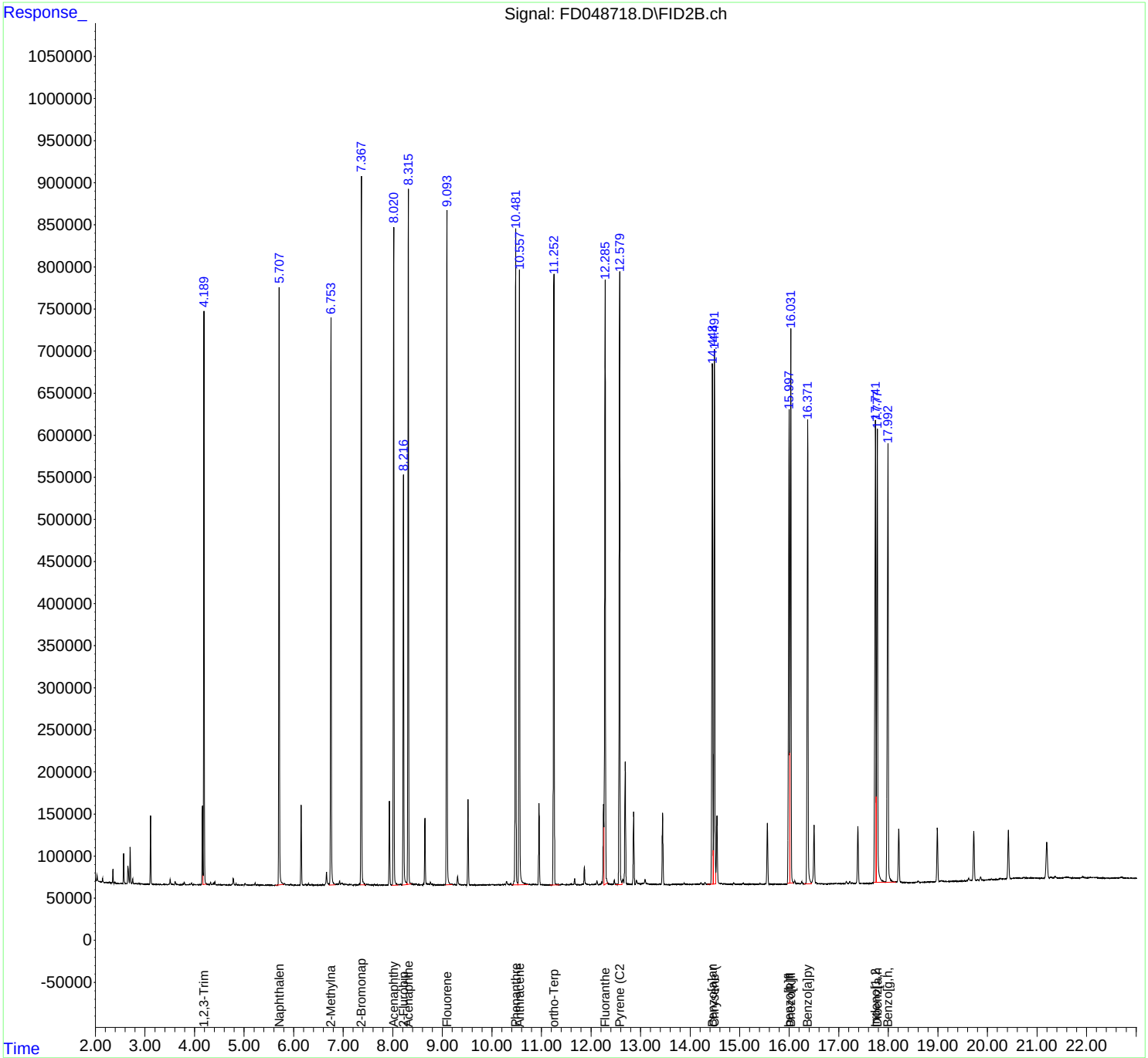
Instrument :
FID_D
ClientSampleId :
PB164943BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:45:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :
FID_D
ClientSampleId :
PB164943BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11132
Data File : FD048718.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 17:15
Sample : PB164943BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.189	4.172	4.256	M	681729	5728210	61.78%	3.639%
2	5.707	5.631	5.801	BV	712422	6578880	70.95%	4.180%
3	6.753	6.720	6.835	VV	678653	6498291	70.08%	4.128%
4	7.367	7.341	7.459	VV	847361	7937055	85.60%	5.042%
5	8.020	7.984	8.105	VV	789735	7626059	82.24%	4.845%
6	8.216	8.187	8.288	PV	489348	4923413	53.10%	3.128%
7	8.315	8.288	8.374	VV	821781	8041877	86.73%	5.109%
8	9.093	9.064	9.201	BB	807113	8103104	87.39%	5.148%
9	10.480	10.404	10.524	PV	795417	8138915	87.78%	5.171%
10	10.556	10.524	10.738	VV	712020	8210799	88.55%	5.216%
11	11.251	11.168	11.361	BB	718057	7869360	84.87%	4.999%
12	12.284	12.163	12.441	PB	713085	9272381	100.00%	5.891%
13	12.577	12.498	12.624	VV	730582	8082919	87.17%	5.135%
14	14.447	14.348	14.468	BV	624309	7686996	82.90%	4.884%
15	14.490	14.468	14.518	VV	647199	7578158	81.73%	4.814%
16	15.995	15.961	16.011	BV	552705	7691087	82.95%	4.886%
17	16.029	16.011	16.089	VV	629059	7628545	82.27%	4.846%
18	16.371	16.304	16.449	BV	553274	7461219	80.47%	4.740%
19	17.738	17.701	17.754	BV	531033	7648388	82.49%	4.859%
20	17.775	17.754	17.948	VV	519876	7283963	78.56%	4.628%
21	17.990	17.948	18.158	VV	519346	7414112	79.96%	4.710%

Sum of corrected areas: 157403729

Aromatic EPH 102324.M Thu Nov 14 02:53:32 2024

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

Report of Analysis

Client:	BAPS North Bergen			Date Collected:	
Project:	BAPS North Bergen			Date Received:	
Client Sample ID:	B-6-3MS			SDG No.:	P4822
Lab Sample ID:	P4768-07MS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	95.4
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/13/24 19:04	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.83		1	0.40	1.05	mg/kg	FC067740.D
Aliphatic C12-C16	Aliphatic C12-C16	7.46		1	0.25	0.70	mg/kg	FC067740.D
Aliphatic C16-C21	Aliphatic C16-C21	11.7		1	0.31	1.05	mg/kg	FC067740.D
Aliphatic C21-C28	Aliphatic C21-C28	15.8		1	0.84	1.40	mg/kg	FC067740.D
Aliphatic C28-C40	Aliphatic C28-C40	36.3		1	1.89	2.10	mg/kg	FC067740.D
Aromatic C10-C12	Aromatic C10-C12	5.58		1	0.31	0.70	mg/kg	FD048721.D
Aromatic C12-C16	Aromatic C12-C16	10.3		1	0.36	1.05	mg/kg	FD048721.D
Aromatic C16-C21	Aromatic C16-C21	28.3		1	1.01	1.75	mg/kg	FD048721.D
Aromatic C21-C36	Aromatic C21-C36	43.5		1	2.10	2.79	mg/kg	FD048721.D
Total AliphaticEPH	Total AliphaticEPH	79.1			3.69	6.30	mg/kg	
Total AromaticEPH	Total AromaticEPH	87.7			3.78	6.29	mg/kg	
Total EPH	Total EPH	167			7.47	12.6	mg/kg	

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

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	B-6-3MS		SDG No.:	P4822	
Lab Sample ID:	P4768-07MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	95.4	
Sample Wt/Vol:	30.02	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067740.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	7.83		0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.46		0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	11.7		0.31	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	15.8		0.84	1.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	36.3		1.89	2.10	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.7		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4768-07MS	Acq On:	13 Nov 2024 19:04
Client Sample ID:	B-6-3MS	Operator:	YP/AJ
Data file:	FC067740.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	3.169	6.447	15179956	112.054	300	ug/ml
Aliphatic C12-C16	6.448	9.836	14063205	106.797	200	ug/ml
Aliphatic C16-C21	9.837	13.192	21297462	167.387	300	ug/ml
Aliphatic C21-C28	13.193	16.845	27104137	225.698	400	ug/ml
Aliphatic C28-C40	16.846	21.681	52539511	519.714	600	ug/ml
Aliphatic EPH	3.169	21.681	130184271	1130		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.926	12.926	4391882	40.67		ug/ml
Aliphatic C9-C28	3.169	16.845	77644760	611.936	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067740.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 19:04
Operator : YP/AJ
Sample : P4768-07MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-6-3MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:18:22 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			
12) S	1-chlorooctadecane (S...	12.926	4391882	40.670 ug/mlm
Spiked Amount	50.000		Recovery =	81.34%
	Target Compounds			
1) T	n-Nonane (C9)	3.270	3858484	28.641 ug/ml
2) T	n-Decane (C10)	4.334	4731693	34.729 ug/ml
4) T	n-Dodecane (C12)	6.348	5380706	39.727 ug/ml
6) T	n-Tetradecane (C14)	8.141	6051317	46.102 ug/ml
7) T	n-Hexadecane (C16)	9.739	6574494	49.768 ug/ml
8) T	n-Octadecane (C18)	11.178	6823698	51.650 ug/ml
10) T	n-Eicosane (C20)	12.485	6879194	54.520 ug/ml
11) T	n-Heneicosane (C21)	13.096	6606151	53.528 ug/ml
13) T	n-Docosane (C22)	13.681	6583873	53.768 ug/ml
14) T	n-Tetracosane (C24)	14.781	6477457	53.440 ug/mlm
15) T	n-Hexacosane (C26)	15.801	6410853	53.847 ug/ml
16) T	n-Octacosane (C28)	16.749	6273724	53.327 ug/ml
17) T	n-Tricontane (C30)	17.635	6441311	53.291 ug/ml
18) T	n-Dotriacontane (C32)	18.466	6251844	52.838 ug/ml
19) T	n-Tetratriacontane (C34)	19.249	6376751	60.889 ug/mlm
20) T	n-Hexatriacontane (C36)	19.987	6069150	66.674 ug/mlm
21) T	n-Octatriacontane (C38)	20.710	6063487	70.015 ug/mlm
22) T	n-Tetracontane (C40)	21.589	5820414	68.467 ug/mlm

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067740.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 19:04
Operator : YP/AJ
Sample : P4768-07MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

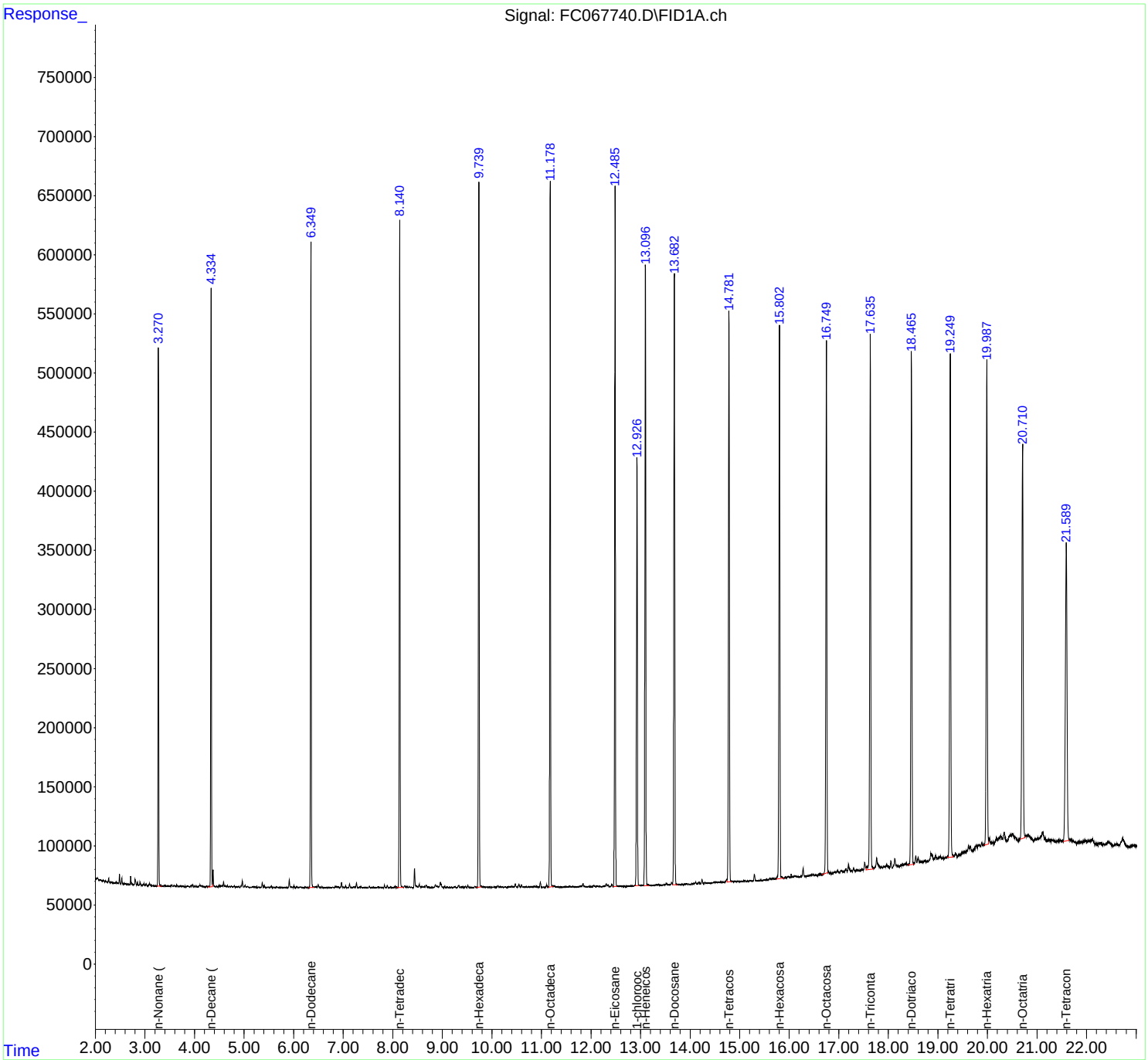
Instrument :
FID_C
ClientSampleId :
B-6-3MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:18:22 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 :
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rteres

Area Percent Report

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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11132
Data File : FC067740.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 19:04
Sample : P4768-07MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

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	3.270	3.254	3.350	PH	454189	3852569	54.51%	2.862%
2	3.368	3.350	3.378	PV	163	1352	0.02%	0.001%
3	3.392	3.378	3.406	PV	704	6809	0.10%	0.005%
4	3.417	3.406	3.434	VV	559	4582	0.06%	0.003%
5	3.446	3.434	3.453	PV	399	2862	0.04%	0.002%
6	3.470	3.453	3.492	VV	513	7079	0.10%	0.005%
7	3.507	3.492	3.517	VV	381	2826	0.04%	0.002%
8	3.534	3.517	3.564	VV	1399	18383	0.26%	0.014%
9	3.584	3.564	3.615	VV	729	11869	0.17%	0.009%
10	3.641	3.615	3.684	VV	1476	21024	0.30%	0.016%
11	3.712	3.684	3.745	VV	626	11722	0.17%	0.009%
12	3.760	3.745	3.791	VV	701	9335	0.13%	0.007%
13	3.807	3.791	3.825	VV	692	6485	0.09%	0.005%
14	3.855	3.825	3.904	VV	700	17292	0.24%	0.013%
15	3.934	3.904	3.948	PV	1686	20138	0.28%	0.015%
16	3.963	3.948	3.982	VV	2293	22927	0.32%	0.017%
17	3.996	3.982	4.013	VV	750	9274	0.13%	0.007%
18	4.029	4.013	4.051	VV	1544	16678	0.24%	0.012%
19	4.111	4.051	4.126	VV	1911	31918	0.45%	0.024%
20	4.139	4.126	4.164	VV	1233	17674	0.25%	0.013%
21	4.174	4.164	4.214	VV	570	9151	0.13%	0.007%
22	4.247	4.214	4.267	PV	889	13935	0.20%	0.010%
23	4.288	4.267	4.303	VV	728	11358	0.16%	0.008%
24	4.334	4.303	4.359	VV	507652	4736313	67.02%	3.519%
25	4.374	4.359	4.467	VV	15002	172444	2.44%	0.128%
26	4.500	4.467	4.517	VV	2082	31476	0.45%	0.023%
27	4.531	4.517	4.542	VV	1239	14836	0.21%	0.011%
28	4.556	4.542	4.570	VV	1983	22015	0.31%	0.016%
29	4.586	4.570	4.602	VV	4572	45660	0.65%	0.034%
30	4.613	4.602	4.628	VV	1656	17761	0.25%	0.013%
31	4.661	4.628	4.687	VV	1336	28936	0.41%	0.021%
32	4.704	4.687	4.721	VV	1123	14998	0.21%	0.011%
33	4.743	4.721	4.764	VV	1135	19453	0.28%	0.014%
34	4.802	4.764	4.825	VV	1556	25566	0.36%	0.019%
35	4.851	4.825	4.866	VV	614	10120	0.14%	0.008%
36	4.886	4.866	4.909	VV	801	12038	0.17%	0.009%

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rteres

37	4.965	4.909	4.993	VV	5524	84427	1.19%	0.063%
38	5.019	4.993	5.037	VV	1564	23980		
39	5.047	5.037	5.057	VV	635	6308		
40	5.071	5.057	5.110	VV	1031	15166		
41	5.166	5.110	5.179	VV	675	12898		
42	5.188	5.179	5.214	VV	545	9015		
43	5.227	5.214	5.241	VV	448	5708	0.08%	0.004%
44	5.256	5.241	5.271	VV	573	7128	0.10%	0.005%
45	5.280	5.271	5.299	VV	371	5070	0.07%	0.004%
46	5.316	5.299	5.344	VV	407	7497	0.11%	0.006%
47	5.367	5.344	5.394	VV	4238	51254	0.73%	0.038%
48	5.407	5.394	5.434	VV	1897	21725	0.31%	0.016%
49	5.465	5.434	5.501	VV	469	9796	0.14%	0.007%
50	5.548	5.501	5.575	VV	996	19806	0.28%	0.015%
51	5.608	5.575	5.634	VV	327	7551	0.11%	0.006%
52	5.660	5.634	5.690	VV	771	14875	0.21%	0.011%
53	5.710	5.690	5.726	VV	282	4718	0.07%	0.004%
54	5.737	5.726	5.747	VV	264	2693	0.04%	0.002%
55	5.767	5.747	5.798	VV	322	6128	0.09%	0.005%
56	5.822	5.798	5.847	PV	296	4420	0.06%	0.003%
57	5.869	5.847	5.891	VV	371	6989	0.10%	0.005%
58	5.912	5.891	5.946	VV	6729	76379	1.08%	0.057%
59	5.963	5.946	5.986	VV	874	11934	0.17%	0.009%
60	6.007	5.986	6.031	VV	1526	18374	0.26%	0.014%
61	6.067	6.031	6.110	VV	757	15368	0.22%	0.011%
62	6.141	6.110	6.168	VV	611	12798	0.18%	0.010%
63	6.181	6.168	6.192	VV	257	3059	0.04%	0.002%
64	6.196	6.192	6.211	VV	226	1845	0.03%	0.001%
65	6.232	6.211	6.249	VV	447	6801	0.10%	0.005%
66	6.268	6.249	6.291	VV	418	6458	0.09%	0.005%
67	6.348	6.291	6.413	VV	541572	5404628	76.47%	4.015%
68	6.431	6.413	6.451	VV	1123	16302	0.23%	0.012%
69	6.466	6.451	6.477	VV	727	8843	0.13%	0.007%
70	6.495	6.477	6.516	VV	2700	31265	0.44%	0.023%
71	6.532	6.516	6.549	VV	818	10229	0.14%	0.008%
72	6.567	6.549	6.591	VV	893	11065	0.16%	0.008%
73	6.618	6.591	6.641	VV	348	6506	0.09%	0.005%
74	6.666	6.641	6.689	VV	424	6787	0.10%	0.005%
75	6.703	6.689	6.721	VV	273	3886	0.05%	0.003%
76	6.740	6.721	6.763	VV	291	4649	0.07%	0.003%
77	6.788	6.763	6.821	PV	746	11370	0.16%	0.008%
78	6.841	6.821	6.855	VV	1219	15767	0.22%	0.012%
79	6.865	6.855	6.877	VV	769	8548	0.12%	0.006%
80	6.900	6.877	6.933	VV	992	21065	0.30%	0.016%
81	6.967	6.933	7.026	VV	4508	67582	0.96%	0.050%
82	7.048	7.026	7.087	VV	1389	20378	0.29%	0.015%
83	7.129	7.087	7.155	VV	3359	42082	0.60%	0.031%
84	7.169	7.155	7.176	VV	415	4613	0.07%	0.003%
85	7.189	7.176	7.197	VV	510	5240	0.07%	0.004%
86	7.234	7.197	7.247	VV	682	15108	0.21%	0.011%
87	7.268	7.247	7.298	VV	4208	49521	0.70%	0.037%
88	7.331	7.298	7.344	VV	678	13043	0.18%	0.010%
89	7.360	7.344	7.383	VV	965	12169	0.17%	0.009%

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90	7.392	7.383	7.402	VV	260	2348	0.03%	0.002%
91	7.440	7.402	7.462	VV	447	9873		
92	7.474	7.462	7.501	VV	191	3432		
93	7.529	7.501	7.548	PV	1454	17141		
94	7.580	7.548	7.591	VV	530	8409		
95	7.608	7.591	7.656	VV	403	10672		
96	7.695	7.656	7.714	VV	613	12757	0.18%	0.009%
97	7.721	7.714	7.734	VV	372	4399	0.06%	0.003%
98	7.745	7.734	7.768	VV	485	7288	0.10%	0.005%
99	7.791	7.768	7.809	VV	541	6928	0.10%	0.005%
100	7.834	7.809	7.858	VV	2232	25865	0.37%	0.019%
101	7.890	7.858	7.915	VV	2197	28117	0.40%	0.021%
102	7.930	7.915	7.944	VV	307	4394	0.06%	0.003%
103	7.959	7.944	7.982	VV	913	10865	0.15%	0.008%
104	8.045	7.982	8.078	VV	1317	26702	0.38%	0.020%
105	8.141	8.078	8.212	VV	563152	6079955	86.03%	4.517%
106	8.240	8.212	8.270	VV	1647	34661	0.49%	0.026%
107	8.291	8.270	8.311	VV	1033	16620	0.24%	0.012%
108	8.331	8.311	8.354	VV	789	13087	0.19%	0.010%
109	8.371	8.354	8.397	VV	825	11243	0.16%	0.008%
110	8.440	8.397	8.506	VV	16407	219532	3.11%	0.163%
111	8.537	8.506	8.570	VV	3081	50376	0.71%	0.037%
112	8.591	8.570	8.614	VV	1095	21984	0.31%	0.016%
113	8.626	8.614	8.638	VV	994	11761	0.17%	0.009%
114	8.674	8.638	8.714	VV	2350	51727	0.73%	0.038%
115	8.738	8.714	8.767	VV	700	11155	0.16%	0.008%
116	8.789	8.767	8.813	VV	606	9101	0.13%	0.007%
117	8.859	8.813	8.882	VV	2479	43350	0.61%	0.032%
118	8.895	8.882	8.927	VV	1489	28785	0.41%	0.021%
119	8.961	8.927	9.026	VV	3876	94526	1.34%	0.070%
120	9.045	9.026	9.071	VV	874	11437	0.16%	0.008%
121	9.094	9.071	9.124	VV	543	8580	0.12%	0.006%
122	9.148	9.124	9.160	VV	333	4642	0.07%	0.003%
123	9.175	9.160	9.184	VV	378	4333	0.06%	0.003%
124	9.197	9.184	9.208	VV	371	4402	0.06%	0.003%
125	9.216	9.208	9.228	VV	289	2708	0.04%	0.002%
126	9.258	9.228	9.300	VV	934	19451	0.28%	0.014%
127	9.326	9.300	9.360	VV	1875	35885	0.51%	0.027%
128	9.377	9.360	9.392	VV	716	9184	0.13%	0.007%
129	9.414	9.392	9.441	VV	469	9457	0.13%	0.007%
130	9.466	9.441	9.491	VV	1009	15679	0.22%	0.012%
131	9.516	9.491	9.551	VV	2184	27935	0.40%	0.021%
132	9.571	9.551	9.593	VV	346	5114	0.07%	0.004%
133	9.607	9.593	9.620	PV	188	1431	0.02%	0.001%
134	9.656	9.620	9.699	VV	1179	22212	0.31%	0.017%
135	9.739	9.699	9.871	VV	587653	6633986	93.87%	4.928%
136	9.882	9.871	9.922	VV	473	11427	0.16%	0.008%
137	9.959	9.922	9.986	VV	557	11950	0.17%	0.009%
138	10.011	9.986	10.030	VV	388	6638	0.09%	0.005%
139	10.055	10.030	10.069	VV	570	8962	0.13%	0.007%
140	10.078	10.069	10.086	VV	353	3616	0.05%	0.003%
141	10.125	10.086	10.147	VV	1740	31588	0.45%	0.023%

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					rteres			
142	10.171	10.147	10.187	VV	860	13637	0.19%	0.010%
143	10.213	10.187	10.248	VV	732	15416		
144	10.270	10.248	10.305	VV	473	9698		
145	10.362	10.305	10.384	VV	738	24167		
146	10.402	10.384	10.435	VV	1233	23026		
147	10.473	10.435	10.509	VV	3197	53142		
148	10.546	10.509	10.575	VV	2465	47898	0.68%	0.036%
149	10.600	10.575	10.629	VV	1968	31676	0.45%	0.024%
150	10.693	10.629	10.714	VV	688	20814	0.29%	0.015%
151	10.727	10.714	10.740	VV	359	4748	0.07%	0.004%
152	10.752	10.740	10.766	VV	346	4937	0.07%	0.004%
153	10.797	10.766	10.824	VV	926	19330	0.27%	0.014%
154	10.845	10.824	10.878	VV	971	21934	0.31%	0.016%
155	10.895	10.878	10.946	VV	890	21921	0.31%	0.016%
156	10.978	10.946	11.016	VV	4333	54776	0.78%	0.041%
157	11.032	11.016	11.072	PV	231	3863	0.05%	0.003%
158	11.105	11.072	11.136	VV	2178	28710	0.41%	0.021%
159	11.178	11.136	11.244	VV	596234	6847524	96.89%	5.087%
160	11.266	11.244	11.311	VV	1530	27870	0.39%	0.021%
161	11.328	11.311	11.351	VV	528	6218	0.09%	0.005%
162	11.367	11.351	11.386	VV	155	1893	0.03%	0.001%
163	11.407	11.386	11.431	PV	230	2638	0.04%	0.002%
164	11.488	11.431	11.511	VV	540	15203	0.22%	0.011%
165	11.529	11.511	11.545	VV	376	6831	0.10%	0.005%
166	11.566	11.545	11.601	VV	752	15802	0.22%	0.012%
167	11.650	11.601	11.681	VV	534	17851	0.25%	0.013%
168	11.693	11.681	11.714	VV	258	2970	0.04%	0.002%
169	11.778	11.714	11.794	VV	744	17796	0.25%	0.013%
170	11.841	11.794	11.874	VV	3021	59185	0.84%	0.044%
171	11.891	11.874	11.913	VV	478	8188	0.12%	0.006%
172	11.932	11.913	11.957	VV	409	7213	0.10%	0.005%
173	11.978	11.957	12.018	VV	440	11385	0.16%	0.008%
174	12.059	12.018	12.097	VV	1166	29719	0.42%	0.022%
175	12.127	12.097	12.154	VV	653	15731	0.22%	0.012%
176	12.176	12.154	12.198	VV	441	8259	0.12%	0.006%
177	12.254	12.198	12.265	VV	706	15230	0.22%	0.011%
178	12.306	12.265	12.326	VV	2556	46627	0.66%	0.035%
179	12.343	12.326	12.391	VV	1719	28438	0.40%	0.021%
180	12.421	12.391	12.444	VV	2116	30033	0.42%	0.022%
181	12.485	12.444	12.561	PV	578782	6898172	97.61%	5.125%
182	12.585	12.561	12.668	VV	594	17865	0.25%	0.013%
183	12.674	12.668	12.707	VV	98	1091	0.02%	0.001%
184	12.751	12.707	12.788	PV	482	11985	0.17%	0.009%
185	12.805	12.788	12.823	VV	363	4906	0.07%	0.004%
186	12.843	12.823	12.854	VV	398	5179	0.07%	0.004%
187	12.926	12.854	12.966	VV	362200	4426736	62.64%	3.289%
188	12.978	12.966	13.021	VV	927	22284	0.32%	0.017%
189	13.037	13.021	13.053	VV	828	11374	0.16%	0.008%
190	13.096	13.053	13.136	VV	531327	6608443	93.51%	4.909%
191	13.143	13.136	13.180	VV	1001	19685	0.28%	0.015%
192	13.195	13.180	13.234	VV	366	10068	0.14%	0.007%
193	13.252	13.234	13.265	VV	296	4399	0.06%	0.003%
194	13.310	13.265	13.330	VV	612	17132	0.24%	0.013%

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					rteres			
195	13.358	13.330	13.418	VV	727	25089	0.36%	0.019%
196	13.437	13.418	13.447	VV	357	4824		
197	13.473	13.447	13.492	VV	774	12614		
198	13.521	13.492	13.565	VV	1662	32856		
199	13.624	13.565	13.643	VV	2281	37312		
200	13.681	13.643	13.749	VV	514301	6598416	93	
201	13.764	13.749	13.785	VV	376	5581	0.08%	0.004%
202	13.827	13.785	13.849	VV	321	6201	0.09%	0.005%
203	13.908	13.849	13.936	PV	631	14614	0.21%	0.011%
204	13.940	13.936	13.964	VV	298	3090	0.04%	0.002%
205	13.973	13.964	14.011	VV	185	3088	0.04%	0.002%
206	14.112	14.011	14.139	PV	1720	37318	0.53%	0.028%
207	14.179	14.139	14.210	VV	1753	24375	0.34%	0.018%
208	14.238	14.210	14.271	VV	3601	48271	0.68%	0.036%
209	14.298	14.271	14.324	VV	963	15224	0.22%	0.011%
210	14.371	14.324	14.428	VV	465	19317	0.27%	0.014%
211	14.486	14.428	14.507	VV	1146	24928	0.35%	0.019%
212	14.535	14.507	14.566	VV	762	21142	0.30%	0.016%
213	14.585	14.566	14.601	VV	708	11258	0.16%	0.008%
214	14.635	14.601	14.677	VV	842	25034	0.35%	0.019%
215	14.688	14.677	14.695	VV	563	5126	0.07%	0.004%
216	14.735	14.695	14.744	VV	2517	36446	0.52%	0.027%
217	14.782	14.744	14.879	VV	478068	6525777	92.34%	4.848%
218	14.916	14.879	14.939	VV	721	18740	0.27%	0.014%
219	14.949	14.939	14.953	VV	422	3340	0.05%	0.002%
220	14.976	14.953	15.001	VV	637	11775	0.17%	0.009%
221	15.028	15.001	15.059	VV	421	9955	0.14%	0.007%
222	15.084	15.059	15.108	VV	777	13781	0.19%	0.010%
223	15.112	15.108	15.144	VV	555	6121	0.09%	0.005%
224	15.160	15.144	15.181	VV	367	3828	0.05%	0.003%
225	15.218	15.181	15.261	VV	513	14168	0.20%	0.011%
226	15.296	15.261	15.334	VV	5600	82429	1.17%	0.061%
227	15.341	15.334	15.364	VV	428	4756	0.07%	0.004%
228	15.379	15.364	15.400	VV	446	4826	0.07%	0.004%
229	15.421	15.400	15.451	PV	762	10262	0.15%	0.008%
230	15.514	15.451	15.532	PV	495	15446	0.22%	0.011%
231	15.555	15.532	15.574	VV	492	7954	0.11%	0.006%
232	15.614	15.574	15.634	VV	1158	26123	0.37%	0.019%
233	15.666	15.634	15.718	VV	1007	33162	0.47%	0.025%
234	15.801	15.718	15.897	VV	463943	6452001	91.29%	4.793%
235	15.923	15.897	15.941	VV	893	18121	0.26%	0.013%
236	15.981	15.941	16.016	VV	1613	44979	0.64%	0.033%
237	16.038	16.016	16.088	VV	1385	40178	0.57%	0.030%
238	16.109	16.088	16.203	VV	1615	59503	0.84%	0.044%
239	16.279	16.203	16.340	VV	7171	124602	1.76%	0.093%
240	16.438	16.340	16.463	PV	1178	49804	0.70%	0.037%
241	16.479	16.463	16.560	VV	1225	43117	0.61%	0.032%
242	16.627	16.560	16.688	VV	1365	43211	0.61%	0.032%
243	16.749	16.688	16.784	VV	452390	6347542	89.82%	4.715%
244	16.795	16.784	16.818	VV	2143	28526	0.40%	0.021%
245	16.834	16.818	16.854	VV	1153	16387	0.23%	0.012%
246	16.861	16.854	16.878	VV	640	6992	0.10%	0.005%

Instrument :
FID_C
ClientSampleId :
B-6-3MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

rteres

247	16.931	16.878	16.943	VV	1430	44301	0.63%	0.033%
248	16.974	16.943	17.010	VV	2614	60199		
249	17.046	17.010	17.087	VV	2028	64494		
250	17.102	17.087	17.114	VV	1303	16826		
251	17.146	17.114	17.171	VV	3005	65774		
252	17.195	17.171	17.238	VV	7181	130768		
253	17.259	17.238	17.274	VV	1352	22866	0.32%	0.017%
254	17.297	17.274	17.339	VV	2913	62068	0.88%	0.046%
255	17.351	17.339	17.377	VV	1247	22847	0.32%	0.017%
256	17.390	17.377	17.398	VV	997	10444	0.15%	0.008%
257	17.406	17.398	17.427	VV	766	10399	0.15%	0.008%
258	17.482	17.427	17.498	VV	1195	35113	0.50%	0.026%
259	17.523	17.498	17.548	VV	7166	115908	1.64%	0.086%
260	17.565	17.548	17.578	VV	3151	50558	0.72%	0.038%
261	17.635	17.578	17.693	VV	447749	6455555	91.35%	4.796%
262	17.764	17.693	17.853	VV	9891	330687	4.68%	0.246%
263	17.870	17.853	17.889	VV	1550	32042	0.45%	0.024%
264	17.966	17.889	18.024	VV	2872	150443	2.13%	0.112%
265	18.052	18.024	18.079	VV	6210	90684	1.28%	0.067%
266	18.131	18.079	18.154	PV	7429	140159	1.98%	0.104%
267	18.164	18.154	18.181	VV	2216	27306	0.39%	0.020%
268	18.197	18.181	18.218	VV	1492	23064	0.33%	0.017%
269	18.339	18.218	18.348	VV	1892	107612	1.52%	0.080%
270	18.361	18.348	18.374	VV	1987	25546	0.36%	0.019%
271	18.389	18.374	18.398	VV	1045	14529	0.21%	0.011%
272	18.466	18.398	18.525	VV	429625	6318958	89.41%	4.694%
273	18.553	18.525	18.578	VV	7563	126349	1.79%	0.094%
274	18.600	18.578	18.645	VV	6368	140527	1.99%	0.104%
275	18.653	18.645	18.684	VV	2071	43339	0.61%	0.032%
276	18.691	18.684	18.705	VV	2224	24255	0.34%	0.018%
277	18.733	18.705	18.768	VV	2549	76445	1.08%	0.057%
278	18.782	18.768	18.803	VV	1995	36013	0.51%	0.027%
279	18.860	18.803	18.873	VV	7713	175696	2.49%	0.131%
280	18.883	18.873	18.914	VV	6973	124751	1.77%	0.093%
281	18.952	18.914	18.989	VV	5758	175739	2.49%	0.131%
282	19.053	18.989	19.098	VV	4389	226429	3.20%	0.168%
283	19.104	19.098	19.115	VV	3549	30157	0.43%	0.022%
284	19.125	19.115	19.132	VV	2694	25357	0.36%	0.019%
285	19.159	19.132	19.174	VV	3134	72374	1.02%	0.054%
286	19.182	19.174	19.187	VV	3337	22902	0.32%	0.017%
287	19.249	19.187	19.328	VV	425270	6614603	93.60%	4.914%
288	19.357	19.328	19.388	VV	5640	150033	2.12%	0.111%
289	19.506	19.388	19.514	VV	5839	300785	4.26%	0.223%
290	19.541	19.514	19.562	VV	5974	159496	2.26%	0.118%
291	19.618	19.562	19.638	VV	10509	337522	4.78%	0.251%
292	19.657	19.638	19.704	VV	9546	288881	4.09%	0.215%
293	19.771	19.704	19.792	VV	10304	400046	5.66%	0.297%
294	19.836	19.792	19.855	VV	9987	347788	4.92%	0.258%
295	19.882	19.855	19.936	VV	11235	468397	6.63%	0.348%
296	19.987	19.936	20.023	VV	420811	6556086	92.77%	4.870%
297	20.041	20.023	20.093	VV	14671	489517	6.93%	0.364%
298	20.111	20.093	20.124	VV	10411	190486	2.70%	0.142%
299	20.184	20.124	20.214	VV	13521	628528	8.89%	0.467%

Instrument :
FID_C
ClientSampleId :
B-6-3MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

rteres

300	20.267	20.214	20.314	VV	14880	801490	11.34%	0.595%
301	20.336	20.314	20.404	VV	18056	712605	10	
302	20.463	20.404	20.474	VV	15071	550766	7	
303	20.503	20.474	20.548	VV	15830	621235	8	
304	20.562	20.548	20.616	VV	12710	455199	6	
305	20.708	20.616	20.774	VV	339656	7067215	100	
306	20.785	20.774	20.792	VV	12692	128615	1.82%	0.096%
307	20.812	20.792	20.936	VV	12967	900601	12.74%	0.669%
308	20.977	20.936	21.001	VV	8492	311171	4.40%	0.231%
309	21.015	21.001	21.034	VV	9194	171422	2.43%	0.127%
310	21.116	21.034	21.211	VV	13711	970932	13.74%	0.721%
311	21.238	21.211	21.279	VV	6971	240912	3.41%	0.179%
312	21.295	21.279	21.328	VV	6076	159115	2.25%	0.118%
313	21.339	21.328	21.381	VV	5608	148031	2.09%	0.110%
314	21.413	21.381	21.427	VV	5010	123554	1.75%	0.092%
315	21.437	21.427	21.474	VV	4470	121692	1.72%	0.090%
316	21.481	21.474	21.509	VV	4702	86041	1.22%	0.064%
317	21.590	21.509	21.731	VV	252932	6300272	89.15%	4.680%

Sum of corrected areas: 134611010

Aliphatic EPH 102324.M Thu Nov 14 04:01:00 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	B-6-3MS		SDG No.:	P4822	
Lab Sample ID:	P4768-07MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	95.4	
Sample Wt/Vol:	30.02	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048721.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.58		0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	10.3		0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	28.3		1.01	1.75	mg/kg
Aromatic C21-C36	Aromatic C21-C36	43.5		2.10	2.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	50.4		40 - 140	101%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.4		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.7		40 - 140	53%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4768-07MS	Acq On:	13 Nov 2024 19:04
Client Sample ID:	B-6-3MS	Operator:	YP/AJ
Data file:	FD048721.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.089	5.807	14083204	79.926	200	ug/ml
Aromatic C12-C16	5.808	8.412	26250212	148.077	300	ug/ml
Aromatic C16-C21	8.413	12.673	66407396	405.337	500	ug/ml
Aromatic C21-C36	12.674	18.078	95140583	623.002	800	ug/ml
Aromatic EPH	4.089	18.078	201881395	1260		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	7653815	50.43		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	4951844	50.43		ug/ml
ortho-Terphenyl (SURR)	11.251	11.251	4554583	26.74		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048721.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:04
Operator : YP/AJ
Sample : P4768-07MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-6-3MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:45:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	7653815	50.427 ug/ml
Spiked Amount	50.000		Recovery =	100.85%
6) S	2-Flurobiphenyl (SURR)	8.217	4951844	50.430 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	100.86%
11) S	ortho-Terphenyl (SURR)	11.251	4554583	26.738 ug/ml
Spiked Amount	50.000		Recovery =	53.48%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.189	5890497	33.859 ug/mlm
2) T	Naphthalene (C11.7)	5.707	6844429	38.358 ug/ml
3) T	2-Methylnaphthalene (...	6.754	6679844	37.346 ug/ml
5) T	Acenaphthylene (C15.06)	8.020	8130773	46.305 ug/ml
7) T	Acenaphthene (C15.5)	8.316	8098967	45.663 ug/ml
8) T	Flouorene (C16.55)	9.094	8247216	48.789 ug/ml
9) T	Phenanthrene (C19.36)	10.484	10588090	64.051 ug/ml
10) T	Anthracene (C19.43)	10.558	8408217	52.581 ug/ml
12) T	Fluoranthene (C21.85)	12.291	11585476	70.396 ug/mlm
13) T	Pyrene (C20.8)	12.583	10405091	64.597 ug/ml
14) T	Benzo[a]anthracene (C...	14.453	9441603	64.573 ug/ml
15) T	Chrysene (C27.41)	14.496	9017473	54.820 ug/ml
16) T	benzo[b]fluoranthene ...	16.003	9155731	60.224 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.036	8012843	53.311 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.379	8639177	57.405 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.747	8497914	65.129 ug/ml
20) T	Dibenz[a,h]anthracene...	17.782	7594862	46.670 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.000	8043364	52.539 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048721.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:04
Operator : YP/AJ
Sample : P4768-07MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

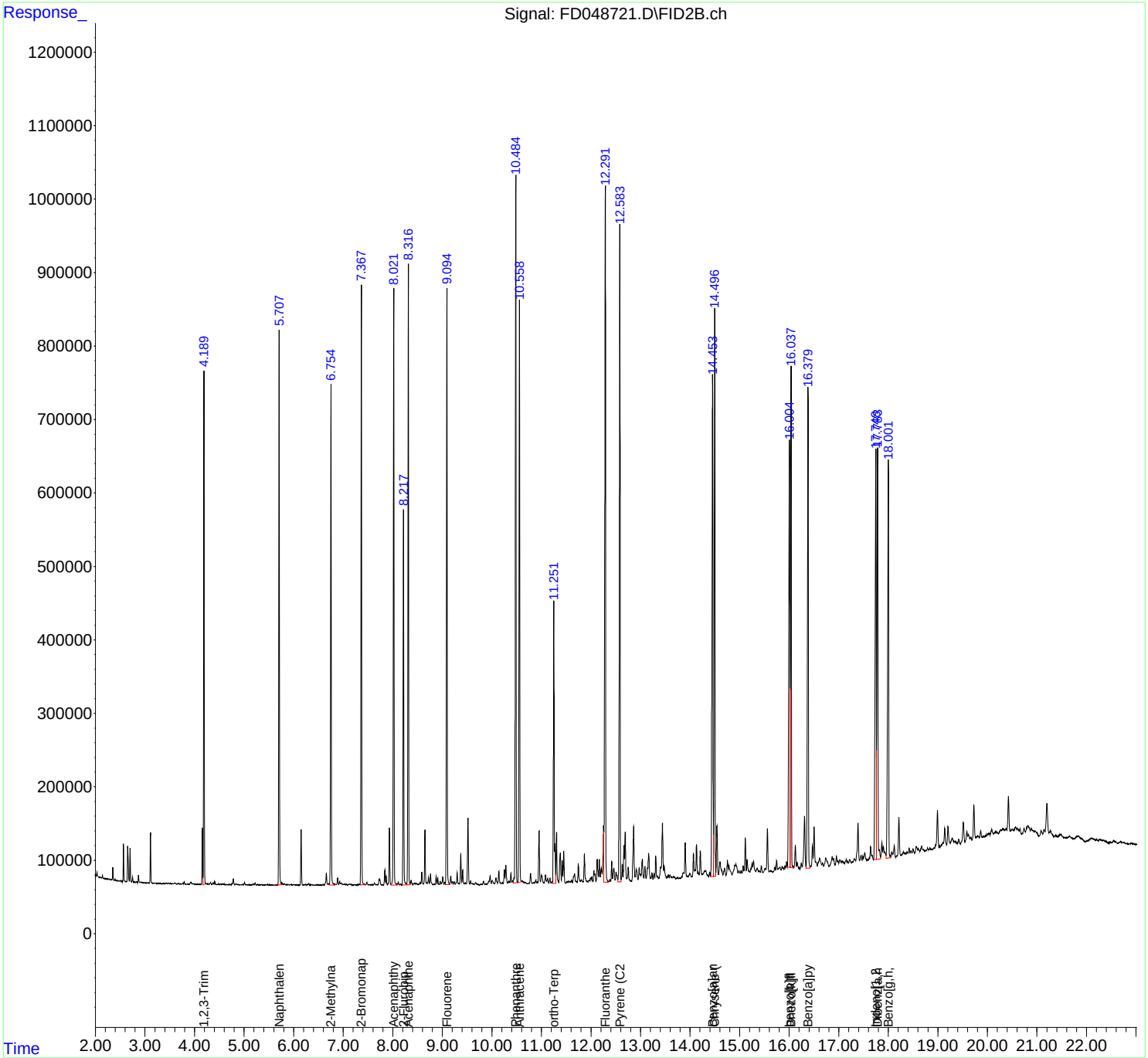
Instrument :
FID_D
ClientSampleId :
B-6-3MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:45:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_D
ClientSampleId :
B-6-3MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11132
Data File : FD048721.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:04
Sample : P4768-07MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.062	4.042	4.090	BV	359	3612	0.03%	0.002%
2	4.109	4.090	4.125	PV	329	3973	0.03%	0.002%
3	4.158	4.125	4.172	VV	77186	666088	5.76%	0.304%
4	4.190	4.172	4.250	VV	699570	5917568	51.17%	2.704%
5	4.269	4.250	4.290	VV	1196	17954	0.16%	0.008%
6	4.323	4.290	4.351	VV	2963	45113	0.39%	0.021%
7	4.378	4.351	4.393	VV	2707	33892	0.29%	0.015%
8	4.408	4.393	4.458	VV	4587	45367	0.39%	0.021%
9	4.479	4.458	4.493	VV	1042	10349	0.09%	0.005%
10	4.526	4.493	4.547	VV	908	17497	0.15%	0.008%
11	4.549	4.547	4.554	VV	513	1582	0.01%	0.001%
12	4.569	4.554	4.580	VV	760	7769	0.07%	0.004%
13	4.598	4.580	4.660	VV	1120	18159	0.16%	0.008%
14	4.676	4.660	4.686	VV	322	2998	0.03%	0.001%
15	4.700	4.686	4.718	VV	539	5874	0.05%	0.003%
16	4.722	4.718	4.735	VV	251	1810	0.02%	0.001%
17	4.759	4.735	4.766	VV	1859	18689	0.16%	0.009%
18	4.781	4.766	4.813	VV	8226	95292	0.82%	0.044%
19	4.836	4.813	4.853	VV	1896	22719	0.20%	0.010%
20	4.859	4.853	4.874	VV	646	6022	0.05%	0.003%
21	4.883	4.874	4.903	VV	422	5460	0.05%	0.002%
22	4.912	4.903	4.931	VV	320	3862	0.03%	0.002%
23	4.937	4.931	4.943	VV	291	1813	0.02%	0.001%
24	4.952	4.943	4.958	VV	340	2529	0.02%	0.001%
25	4.969	4.958	4.990	VV	788	8583	0.07%	0.004%
26	5.007	4.990	5.046	VV	3522	45140	0.39%	0.021%
27	5.054	5.046	5.089	VV	534	10701	0.09%	0.005%
28	5.109	5.089	5.135	VV	539	5965	0.05%	0.003%
29	5.150	5.135	5.162	PV	312	3488	0.03%	0.002%
30	5.181	5.162	5.197	VV	2149	22944	0.20%	0.010%
31	5.221	5.197	5.245	VV	3165	38241	0.33%	0.017%
32	5.257	5.245	5.261	VV	438	3486	0.03%	0.002%
33	5.279	5.261	5.305	VV	948	13428	0.12%	0.006%
34	5.342	5.305	5.346	VV	554	8977	0.08%	0.004%
35	5.349	5.346	5.353	VV	510	1881	0.02%	0.001%
36	5.359	5.353	5.403	VV	538	8336	0.07%	0.004%

Instrument :
FID_D
ClientSampleId :
B-6-3MS

Manual IntegrationsAPPROVED

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rteres

37	5.416	5.403	5.427	VV	455	4500	0.04%	0.002%
38	5.448	5.427	5.455	VV	529	7490		
39	5.469	5.455	5.493	VV	1082	16170		
40	5.506	5.493	5.525	VV	739	9198		
41	5.529	5.525	5.532	VV	416	1323		
42	5.542	5.532	5.567	VV	576	6397		
43	5.571	5.567	5.579	VV	419	1680	0.01%	0.001%
44	5.597	5.579	5.608	PV	297	2809	0.02%	0.001%
45	5.622	5.608	5.640	VV	414	5533	0.05%	0.003%
46	5.707	5.640	5.792	VV	755561	6904555	59.71%	3.155%
47	5.814	5.792	5.842	VV	2377	37724	0.33%	0.017%
48	5.849	5.842	5.860	VV	712	6847	0.06%	0.003%
49	5.882	5.860	5.913	VV	1096	22443	0.19%	0.010%
50	5.950	5.913	5.963	VV	1238	24475	0.21%	0.011%
51	5.969	5.963	5.985	VV	712	7531	0.07%	0.003%
52	6.005	5.985	6.037	VV	1059	20689	0.18%	0.009%
53	6.050	6.037	6.060	VV	690	6803	0.06%	0.003%
54	6.068	6.060	6.078	VV	457	4021	0.03%	0.002%
55	6.082	6.078	6.105	VV	462	4388	0.04%	0.002%
56	6.117	6.105	6.125	PV	138	1220	0.01%	0.001%
57	6.152	6.125	6.183	VV	76040	728554	6.30%	0.333%
58	6.191	6.183	6.208	VV	660	7535	0.07%	0.003%
59	6.234	6.208	6.250	VV	1211	17672	0.15%	0.008%
60	6.269	6.250	6.282	VV	1107	11827	0.10%	0.005%
61	6.300	6.282	6.320	VV	2536	29024	0.25%	0.013%
62	6.331	6.320	6.353	VV	979	11082	0.10%	0.005%
63	6.372	6.353	6.401	VV	1295	15653	0.14%	0.007%
64	6.425	6.401	6.432	VV	315	3755	0.03%	0.002%
65	6.465	6.432	6.483	VV	711	11434	0.10%	0.005%
66	6.495	6.483	6.502	VV	470	3530	0.03%	0.002%
67	6.514	6.502	6.528	VV	482	5828	0.05%	0.003%
68	6.535	6.528	6.565	VV	529	6857	0.06%	0.003%
69	6.591	6.575	6.605	VV	1117	10469	0.09%	0.005%
70	6.661	6.620	6.682	VV	16976	211642	1.83%	0.097%
71	6.689	6.682	6.695	VV	1799	13124	0.11%	0.006%
72	6.698	6.695	6.705	VV	1814	9758	0.08%	0.004%
73	6.708	6.705	6.718	VV	1723	11201	0.10%	0.005%
74	6.754	6.718	6.831	VV	681323	6687770	57.83%	3.056%
75	6.845	6.831	6.861	VV	1300	18812	0.16%	0.009%
76	6.887	6.861	6.910	VV	10090	118378	1.02%	0.054%
77	6.928	6.910	6.942	VV	5099	59358	0.51%	0.027%
78	6.955	6.942	6.969	VV	3111	40590	0.35%	0.019%
79	6.977	6.969	6.997	VV	2150	27600	0.24%	0.013%
80	7.006	6.997	7.015	VV	1154	10864	0.09%	0.005%
81	7.031	7.015	7.051	VV	2348	31767	0.27%	0.015%
82	7.067	7.051	7.090	VV	1597	23248	0.20%	0.011%
83	7.131	7.090	7.146	VV	1527	32350	0.28%	0.015%
84	7.158	7.146	7.175	VV	1297	13683	0.12%	0.006%
85	7.188	7.175	7.202	VV	338	3461	0.03%	0.002%
86	7.229	7.202	7.260	VV	1064	16635	0.14%	0.008%
87	7.282	7.260	7.295	VV	575	9045	0.08%	0.004%
88	7.300	7.295	7.308	VV	559	2657	0.02%	0.001%
89	7.327	7.308	7.340	VV	1849	18946	0.16%	0.009%

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					rteres			
90	7.367	7.340	7.452	VV	816641	7680435	66.42%	3.510%
91	7.479	7.452	7.514	VV	3651	59098		
92	7.525	7.514	7.537	VV	801	9509		
93	7.541	7.537	7.562	VV	580	6504		
94	7.585	7.562	7.606	VV	685	12415		
95	7.631	7.606	7.663	VV	2477	36574		
96	7.678	7.663	7.685	VV	917	8217	0.07%	0.004%
97	7.690	7.685	7.703	VV	701	6929	0.06%	0.003%
98	7.725	7.703	7.733	VV	8214	82953	0.72%	0.038%
99	7.740	7.733	7.786	VV	7756	85794	0.74%	0.039%
100	7.840	7.786	7.856	PV	20762	227300	1.97%	0.104%
101	7.868	7.856	7.892	VV	12095	127152	1.10%	0.058%
102	7.934	7.892	7.970	VV	77631	800743	6.92%	0.366%
103	8.021	7.970	8.075	VV	807699	8119985	70.22%	3.711%
104	8.082	8.075	8.095	VV	1632	15942	0.14%	0.007%
105	8.112	8.095	8.148	VV	4183	57298	0.50%	0.026%
106	8.161	8.148	8.188	VV	1208	13909	0.12%	0.006%
107	8.217	8.188	8.270	VV	510902	4940957	42.73%	2.258%
108	8.278	8.270	8.285	VV	2175	17718	0.15%	0.008%
109	8.316	8.285	8.353	VV	843547	8104608	70.08%	3.704%
110	8.369	8.353	8.405	VV	6356	97314	0.84%	0.044%
111	8.417	8.405	8.423	VV	1577	15217	0.13%	0.007%
112	8.438	8.423	8.454	VV	2815	37608	0.33%	0.017%
113	8.482	8.454	8.505	VV	2021	46252	0.40%	0.021%
114	8.510	8.505	8.518	VV	1041	6879	0.06%	0.003%
115	8.554	8.518	8.569	VV	3923	60779	0.53%	0.028%
116	8.587	8.569	8.613	VV	17581	200850	1.74%	0.092%
117	8.651	8.613	8.676	VV	75048	764283	6.61%	0.349%
118	8.682	8.676	8.699	VV	3469	38637	0.33%	0.018%
119	8.723	8.699	8.740	VV	10116	126436	1.09%	0.058%
120	8.763	8.740	8.818	VV	14988	205263	1.77%	0.094%
121	8.832	8.818	8.853	VV	1275	15186	0.13%	0.007%
122	8.877	8.853	8.893	VV	11964	126150	1.09%	0.058%
123	8.909	8.893	8.932	VV	9557	99795	0.86%	0.046%
124	8.959	8.932	8.976	VV	4699	59261	0.51%	0.027%
125	9.010	8.976	9.033	VV	11049	158558	1.37%	0.072%
126	9.049	9.033	9.062	VV	3802	41494	0.36%	0.019%
127	9.094	9.062	9.150	VV	810243	8273438	71.54%	3.781%
128	9.171	9.150	9.190	VV	11836	140017	1.21%	0.064%
129	9.203	9.190	9.223	VV	4446	64668	0.56%	0.030%
130	9.240	9.223	9.263	VV	4223	63547	0.55%	0.029%
131	9.279	9.263	9.283	VV	3053	25310	0.22%	0.012%
132	9.301	9.283	9.338	VV	16211	201234	1.74%	0.092%
133	9.373	9.338	9.395	VV	42970	476605	4.12%	0.218%
134	9.412	9.395	9.447	VV	20193	236942	2.05%	0.108%
135	9.466	9.447	9.484	VV	2728	42320	0.37%	0.019%
136	9.519	9.484	9.553	VV	91091	1122262	9.70%	0.513%
137	9.572	9.553	9.597	VV	5103	70427	0.61%	0.032%
138	9.612	9.597	9.641	VV	1612	30154	0.26%	0.014%
139	9.673	9.641	9.715	VV	2886	58844	0.51%	0.027%
140	9.720	9.715	9.756	VV	716	4666	0.04%	0.002%
141	9.783	9.756	9.810	PV	876	14273	0.12%	0.007%

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142	9.833	9.810	9.879	VV	4955	73931	0.64%	0.034%
143	9.887	9.879	9.897	VV	769	6989		
144	9.937	9.897	9.945	VV	4647	67768		
145	9.967	9.945	9.988	VV	11958	170112		
146	10.007	9.988	10.045	VV	5653	107411		
147	10.084	10.045	10.120	VV	8865	173823		
148	10.141	10.120	10.187	VV	17424	241885	2.09%	0.111%
149	10.211	10.187	10.228	VV	2421	41942	0.36%	0.019%
150	10.253	10.228	10.267	VV	19872	234434	2.03%	0.107%
151	10.284	10.267	10.323	VV	26144	378172	3.27%	0.173%
152	10.346	10.323	10.366	VV	3894	77664	0.67%	0.035%
153	10.386	10.366	10.404	VV	15329	180704	1.56%	0.083%
154	10.417	10.404	10.431	VV	4240	56660	0.49%	0.026%
155	10.446	10.431	10.451	VV	8265	75248	0.65%	0.034%
156	10.484	10.451	10.525	VV	969547	10608271	91.73%	4.848%
157	10.558	10.525	10.598	VV	795736	8524155	73.71%	3.895%
158	10.611	10.598	10.623	VV	4212	54488	0.47%	0.025%
159	10.632	10.623	10.653	VV	3261	44296	0.38%	0.020%
160	10.669	10.653	10.719	VV	2252	49875	0.43%	0.023%
161	10.732	10.719	10.742	VV	339	4428	0.04%	0.002%
162	10.782	10.742	10.816	VV	14260	196472	1.70%	0.090%
163	10.845	10.816	10.862	VV	1868	34913	0.30%	0.016%
164	10.888	10.862	10.908	VV	5406	76747	0.66%	0.035%
165	10.919	10.908	10.928	VV	2428	18333	0.16%	0.008%
166	10.953	10.928	10.984	VV	71486	854916	7.39%	0.391%
167	11.002	10.984	11.046	VV	11437	226020	1.95%	0.103%
168	11.082	11.046	11.103	VV	11814	174379	1.51%	0.080%
169	11.127	11.103	11.150	VV	6756	118737	1.03%	0.054%
170	11.173	11.150	11.193	VV	7256	92401	0.80%	0.042%
171	11.205	11.193	11.219	VV	1895	23514	0.20%	0.011%
172	11.251	11.219	11.268	VV	383998	4066814	35.17%	1.858%
173	11.275	11.268	11.290	VV	54359	491653	4.25%	0.225%
174	11.306	11.290	11.350	VV	69145	793414	6.86%	0.363%
175	11.381	11.350	11.404	VV	41184	668612	5.78%	0.306%
176	11.421	11.404	11.435	VV	30731	334847	2.90%	0.153%
177	11.452	11.435	11.497	VV	43910	519862	4.50%	0.238%
178	11.515	11.497	11.533	PV	2252	27767	0.24%	0.013%
179	11.551	11.533	11.570	VV	2874	40445	0.35%	0.018%
180	11.578	11.570	11.591	VV	1572	16250	0.14%	0.007%
181	11.609	11.591	11.630	VV	4251	54404	0.47%	0.025%
182	11.651	11.630	11.656	VV	9061	80189	0.69%	0.037%
183	11.670	11.656	11.695	VV	12601	182036	1.57%	0.083%
184	11.703	11.695	11.723	VV	2226	25994	0.22%	0.012%
185	11.746	11.723	11.787	VV	26665	338967	2.93%	0.155%
186	11.808	11.787	11.840	VV	4153	80753	0.70%	0.037%
187	11.868	11.840	11.912	VV	39435	524866	4.54%	0.240%
188	11.922	11.912	11.937	VV	2160	26209	0.23%	0.012%
189	11.956	11.937	11.968	VV	2943	41629	0.36%	0.019%
190	11.991	11.968	12.003	VV	6208	94138	0.81%	0.043%
191	12.018	12.003	12.038	VV	7836	97252	0.84%	0.044%
192	12.061	12.038	12.072	VV	16056	184156	1.59%	0.084%
193	12.079	12.072	12.101	VV	11609	124353	1.08%	0.057%
194	12.127	12.101	12.151	VV	31509	457052	3.95%	0.209%

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195	12.169	12.151	12.188	VV	31087	399086	3.45%	0.182%
196	12.208	12.188	12.224	VV	19094	311079		
197	12.255	12.224	12.261	VV	77133	919220		
198	12.291	12.261	12.357	VV	945777	11564241	100	
199	12.380	12.357	12.396	VV	3232	41406		
200	12.418	12.396	12.437	VV	28036	316749		
201	12.462	12.437	12.487	VV	18581	325126	2.81%	0.149%
202	12.507	12.487	12.544	VV	13270	265005	2.29%	0.121%
203	12.584	12.544	12.607	VV	895885	10401460	89.95%	4.753%
204	12.633	12.607	12.648	VV	23786	293711	2.54%	0.134%
205	12.666	12.648	12.677	VV	49665	549422	4.75%	0.251%
206	12.691	12.677	12.719	VV	68109	828617	7.17%	0.379%
207	12.753	12.719	12.814	VV	19895	319393	2.76%	0.146%
208	12.861	12.814	12.893	PV	74954	1192298	10.31%	0.545%
209	12.917	12.893	12.948	VV	16145	323722	2.80%	0.148%
210	12.973	12.948	12.991	VV	18845	253466	2.19%	0.116%
211	13.001	12.991	13.013	VV	9129	116600	1.01%	0.053%
212	13.035	13.013	13.067	VV	29640	500671	4.33%	0.229%
213	13.089	13.067	13.113	VV	19268	275452	2.38%	0.126%
214	13.163	13.113	13.207	VV	36868	834446	7.22%	0.381%
215	13.233	13.207	13.252	VV	10118	150352	1.30%	0.069%
216	13.271	13.252	13.287	VV	9122	119902	1.04%	0.055%
217	13.307	13.287	13.329	VV	33305	392522	3.39%	0.179%
218	13.343	13.329	13.360	VV	5607	80217	0.69%	0.037%
219	13.405	13.360	13.415	VV	17701	289938	2.51%	0.132%
220	13.443	13.415	13.464	VV	76587	1218698	10.54%	0.557%
221	13.476	13.464	13.524	VV	18774	341552	2.95%	0.156%
222	13.538	13.524	13.548	VV	4431	49964	0.43%	0.023%
223	13.562	13.548	13.577	VV	6419	78889	0.68%	0.036%
224	13.595	13.577	13.620	VV	6143	113318	0.98%	0.052%
225	13.628	13.620	13.643	VV	3090	35464	0.31%	0.016%
226	13.661	13.643	13.679	VV	3953	64072	0.55%	0.029%
227	13.691	13.679	13.712	VV	2981	32750	0.28%	0.015%
228	13.724	13.712	13.733	PV	1149	9028	0.08%	0.004%
229	13.749	13.733	13.765	VV	2386	25386	0.22%	0.012%
230	13.779	13.765	13.792	PV	1316	11333	0.10%	0.005%
231	13.805	13.792	13.815	VV	1302	13334	0.12%	0.006%
232	13.832	13.815	13.836	VV	2633	24108	0.21%	0.011%
233	13.857	13.836	13.867	VV	8230	107853	0.93%	0.049%
234	13.871	13.867	13.879	VV	7594	52476	0.45%	0.024%
235	13.902	13.879	13.931	VV	48767	655380	5.67%	0.299%
236	13.944	13.931	13.957	VV	3443	41362	0.36%	0.019%
237	13.994	13.957	14.026	VV	6592	155106	1.34%	0.071%
238	14.039	14.026	14.044	VV	2161	19445	0.17%	0.009%
239	14.068	14.044	14.088	VV	32824	426142	3.68%	0.195%
240	14.096	14.088	14.107	VV	10704	114934	0.99%	0.053%
241	14.129	14.107	14.152	VV	45018	616147	5.33%	0.282%
242	14.163	14.152	14.179	VV	7410	91661	0.79%	0.042%
243	14.206	14.179	14.238	VV	35901	537807	4.65%	0.246%
244	14.297	14.238	14.307	VV	8506	241722	2.09%	0.110%
245	14.315	14.307	14.373	VV	8728	154482	1.34%	0.071%
246	14.395	14.373	14.412	PV	6044	68931	0.60%	0.031%

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247	14.453	14.412	14.471	VV	683410	9427501	81.52%	4.308%
248	14.496	14.471	14.518	VV	774723	9033360	78	
249	14.542	14.518	14.570	VV	68672	898123	7	
250	14.601	14.570	14.660	VV	19739	505706	4	
251	14.696	14.660	14.722	VV	10151	186763	1	
252	14.753	14.722	14.769	VV	19956	264075	2	
253	14.781	14.769	14.847	VV	13441	306872	2.65%	0.140%
254	14.901	14.847	14.909	VV	13475	253512	2.19%	0.116%
255	14.921	14.909	14.966	VV	14064	337131	2.92%	0.154%
256	14.984	14.966	15.012	VV	5683	94342	0.82%	0.043%
257	15.029	15.012	15.046	VV	5507	74004	0.64%	0.034%
258	15.070	15.046	15.086	VV	11702	160977	1.39%	0.074%
259	15.113	15.086	15.133	VV	49195	634101	5.48%	0.290%
260	15.149	15.133	15.187	VV	19846	324867	2.81%	0.148%
261	15.196	15.187	15.206	VV	3618	36380	0.31%	0.017%
262	15.249	15.206	15.262	VV	14126	264615	2.29%	0.121%
263	15.279	15.262	15.323	VV	17007	332961	2.88%	0.152%
264	15.356	15.323	15.377	VV	7336	155782	1.35%	0.071%
265	15.390	15.377	15.414	VV	3496	56573	0.49%	0.026%
266	15.436	15.414	15.472	VV	9839	139174	1.20%	0.064%
267	15.510	15.472	15.528	VV	6106	123687	1.07%	0.057%
268	15.559	15.528	15.592	VV	59861	812210	7.02%	0.371%
269	15.618	15.592	15.633	VV	2530	41175	0.36%	0.019%
270	15.642	15.633	15.667	VV	1967	20860	0.18%	0.010%
271	15.708	15.667	15.726	PV	5969	97210	0.84%	0.044%
272	15.745	15.726	15.773	VV	15300	219444	1.90%	0.100%
273	15.811	15.773	15.834	VV	6211	159203	1.38%	0.073%
274	15.856	15.834	15.872	VV	6750	103011	0.89%	0.047%
275	15.877	15.872	15.891	VV	4692	45574	0.39%	0.021%
276	15.913	15.891	15.928	VV	7045	115383	1.00%	0.053%
277	15.946	15.928	15.962	VV	12133	169199	1.46%	0.077%
278	16.004	15.962	16.018	VV	583868	9280612	80.25%	4.241%
279	16.037	16.018	16.090	VV	686883	8200760	70.91%	3.748%
280	16.123	16.090	16.146	VV	33638	495977	4.29%	0.227%
281	16.160	16.146	16.188	VV	9812	153938	1.33%	0.070%
282	16.198	16.188	16.217	VV	2575	31984	0.28%	0.015%
283	16.243	16.217	16.261	VV	8482	120983	1.05%	0.055%
284	16.309	16.261	16.337	VV	71768	1241966	10.74%	0.568%
285	16.380	16.337	16.422	VV	656465	8668984	74.96%	3.961%
286	16.467	16.422	16.482	VV	30706	425999	3.68%	0.195%
287	16.501	16.482	16.565	VV	55949	949711	8.21%	0.434%
288	16.613	16.565	16.656	VV	12639	412812	3.57%	0.189%
289	16.673	16.656	16.693	VV	5736	84256	0.73%	0.039%
290	16.736	16.693	16.804	VV	12231	388706	3.36%	0.178%
291	16.866	16.804	16.881	PV	12929	266559	2.31%	0.122%
292	16.894	16.881	16.920	VV	10255	149268	1.29%	0.068%
293	16.952	16.920	16.971	VV	12436	186143	1.61%	0.085%
294	16.983	16.971	17.001	VV	6102	84254	0.73%	0.039%
295	17.021	17.001	17.050	VV	7098	153989	1.33%	0.070%
296	17.064	17.050	17.085	VV	4915	83222	0.72%	0.038%
297	17.090	17.085	17.110	VV	3598	37935	0.33%	0.017%
298	17.151	17.110	17.167	VV	6183	117424	1.02%	0.054%
299	17.178	17.167	17.195	VV	4154	45134	0.39%	0.021%

Instrument :
FID_D
ClientSampleId :
B-6-3MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

rteres

300	17.220	17.195	17.257	VV	5568	108829	0.94%	0.050%
301	17.276	17.257	17.287	VV	2219	29793		
302	17.314	17.287	17.340	VV	5637	124009		
303	17.388	17.340	17.420	VV	53542	916287		
304	17.450	17.420	17.468	VV	9338	157266		
305	17.486	17.468	17.500	VV	7457	99241		
306	17.524	17.500	17.562	VV	11920	247229	2.14%	0.113%
307	17.578	17.562	17.596	VV	2268	34754	0.30%	0.016%
308	17.613	17.596	17.620	VV	3964	38513	0.33%	0.018%
309	17.642	17.620	17.660	VV	19128	264679	2.29%	0.121%
310	17.673	17.660	17.698	VV	7086	105064	0.91%	0.048%
311	17.748	17.698	17.761	VV	561400	8449021	73.06%	3.861%
312	17.783	17.761	17.809	VV	562094	7515608	64.99%	3.434%
313	17.819	17.809	17.843	VV	13182	182137	1.58%	0.083%
314	17.868	17.843	17.884	VV	22782	318461	2.75%	0.146%
315	17.899	17.884	17.918	VV	16824	257251	2.22%	0.118%
316	17.930	17.918	17.955	VV	8807	153636	1.33%	0.070%
317	18.001	17.955	18.048	VV	542335	8052048	69.63%	3.680%
318	18.074	18.048	18.090	VV	7141	133426	1.15%	0.061%
319	18.119	18.090	18.153	VV	16052	254343	2.20%	0.116%
320	18.173	18.153	18.178	PV	375	5007	0.04%	0.002%

Sum of corrected areas: 218832564

Aromatic EPH 102324.M Thu Nov 14 02:55:36 2024

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

Report of Analysis

Client:	BAPS North Bergen			Date Collected:	
Project:	BAPS North Bergen			Date Received:	
Client Sample ID:	B-6-3MSD			SDG No.:	P4822
Lab Sample ID:	P4768-07MSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	95.4
Sample Wt/Vol:	30.07	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/13/24 09:40	11/13/24 19:41	PB164943

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.56		1	0.40	1.05	mg/kg	FC067741.D
Aliphatic C12-C16	Aliphatic C12-C16	7.24		1	0.25	0.70	mg/kg	FC067741.D
Aliphatic C16-C21	Aliphatic C16-C21	11.4		1	0.31	1.05	mg/kg	FC067741.D
Aliphatic C21-C28	Aliphatic C21-C28	15.5		1	0.84	1.39	mg/kg	FC067741.D
Aliphatic C28-C40	Aliphatic C28-C40	37.1		1	1.88	2.09	mg/kg	FC067741.D
Aromatic C10-C12	Aromatic C10-C12	5.35		1	0.31	0.70	mg/kg	FD048722.D
Aromatic C12-C16	Aromatic C12-C16	12.9		1	0.36	1.05	mg/kg	FD048722.D
Aromatic C16-C21	Aromatic C16-C21	27.1		1	1.00	1.74	mg/kg	FD048722.D
Aromatic C21-C36	Aromatic C21-C36	41.7		1	2.09	2.79	mg/kg	FD048722.D
Total AliphaticEPH	Total AliphaticEPH	78.8			3.68	6.28	mg/kg	
Total AromaticEPH	Total AromaticEPH	87.0			3.76	6.28	mg/kg	
Total EPH	Total EPH	166			7.44	12.6	mg/kg	

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

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	B-6-3MSD		SDG No.:	P4822	
Lab Sample ID:	P4768-07MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	95.4	
Sample Wt/Vol:	30.07 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067741.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	7.56		0.40	1.05	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.24		0.25	0.70	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	11.4		0.31	1.05	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	15.5		0.84	1.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	37.1		1.88	2.09	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.0		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4768-07MSD	Acq On:	13 Nov 2024 19:41
Client Sample ID:	B-6-3MSD	Operator:	YP/AJ
Data file:	FC067741.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	3.169	6.447	14698735	108.502	300	ug/ml
Aliphatic C12-C16	6.448	9.836	13682357	103.905	200	ug/ml
Aliphatic C16-C21	9.837	13.192	20852642	163.891	300	ug/ml
Aliphatic C21-C28	13.193	16.845	26647219	221.893	400	ug/ml
Aliphatic C28-C40	16.846	21.681	53866664	532.842	600	ug/ml
Aliphatic EPH	3.169	21.681	129747617	1130		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.927	12.927	4856483	44.97		ug/ml
Aliphatic C9-C28	3.169	16.845	75880953	598.191	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067741.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 19:41
Operator : YP/AJ
Sample : P4768-07MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
B-6-3MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:18:35 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			
12) S	1-chlorooctadecane (S...	12.927	4856483	44.972 ug/ml
Spiked Amount	50.000		Recovery =	89.94%
	Target Compounds			
1) T	n-Nonane (C9)	3.270	3735391	27.727 ug/ml
2) T	n-Decane (C10)	4.334	4584134	33.646 ug/ml
4) T	n-Dodecane (C12)	6.349	5229949	38.614 ug/ml
6) T	n-Tetradecane (C14)	8.141	5907914	45.009 ug/ml
7) T	n-Hexadecane (C16)	9.740	6440329	48.752 ug/ml
8) T	n-Octadecane (C18)	11.178	6700753	50.720 ug/ml
10) T	n-Eicosane (C20)	12.487	6752745	53.518 ug/ml
11) T	n-Heneicosane (C21)	13.097	6469024	52.417 ug/ml
13) T	n-Docosane (C22)	13.681	6453922	52.707 ug/ml
14) T	n-Tetracosane (C24)	14.782	6335974	52.273 ug/mlm
15) T	n-Hexacosane (C26)	15.802	6242433	52.433 ug/mlm
16) T	n-Octacosane (C28)	16.748	6198601	52.688 ug/mlm
17) T	n-Tricontane (C30)	17.636	6281205	51.966 ug/ml
18) T	n-Dotriacontane (C32)	18.468	6135748	51.857 ug/ml
19) T	n-Tetratriacontane (C34)	19.249	6302075	60.176 ug/ml
20) T	n-Hexatriacontane (C36)	19.987	5918048	65.014 ug/mlm
21) T	n-Octatriacontane (C38)	20.711	5870180	67.783 ug/mlm
22) T	n-Tetracontane (C40)	21.594	5726090	67.357 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111324AL\
Data File : FC067741.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 19:41
Operator : YP/AJ
Sample : P4768-07MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

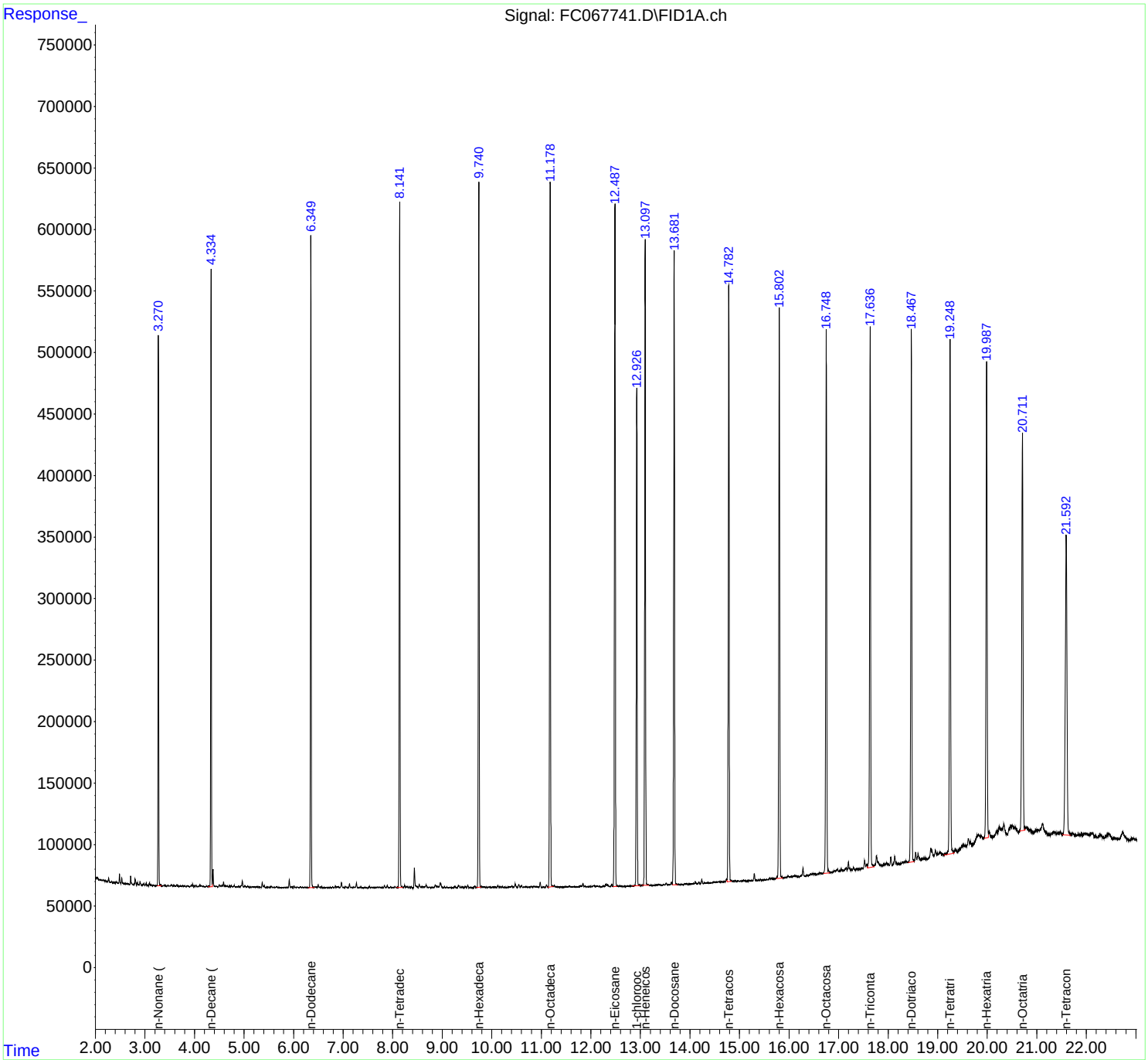
Instrument :
FID_C
ClientSampleId :
B-6-3MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:18:35 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 :
B-6-3MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11132
Data File : FC067741.D
Signal(s) : FID1A.ch
Acq On : 13 Nov 2024 19:41
Sample : P4768-07MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

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	3.270	3.254	3.354	PH	445546	3735214	54.03%	2.775%
2	3.367	3.354	3.377	PV	184	1288	0.02%	0.001%
3	3.393	3.377	3.407	VV	717	7061	0.10%	0.005%
4	3.416	3.407	3.438	VV	445	4001	0.06%	0.003%
5	3.470	3.438	3.489	VV	454	8366	0.12%	0.006%
6	3.509	3.489	3.518	PV	408	3144	0.05%	0.002%
7	3.534	3.518	3.564	VV	1352	18548	0.27%	0.014%
8	3.585	3.564	3.621	VV	675	12227	0.18%	0.009%
9	3.641	3.621	3.685	VV	1434	20471	0.30%	0.015%
10	3.712	3.685	3.744	VV	614	11053	0.16%	0.008%
11	3.761	3.744	3.791	VV	751	9360	0.14%	0.007%
12	3.807	3.791	3.831	VV	820	6798	0.10%	0.005%
13	3.854	3.831	3.900	VV	722	14986	0.22%	0.011%
14	3.935	3.900	3.948	PV	1551	18484	0.27%	0.014%
15	3.963	3.948	3.984	VV	2253	22764	0.33%	0.017%
16	3.997	3.984	4.013	VV	608	8134	0.12%	0.006%
17	4.030	4.013	4.049	VV	1453	15215	0.22%	0.011%
18	4.059	4.049	4.064	VV	138	1019	0.01%	0.001%
19	4.112	4.064	4.126	VV	1776	26371	0.38%	0.020%
20	4.138	4.126	4.164	VV	1059	14399	0.21%	0.011%
21	4.174	4.164	4.218	VV	541	7787	0.11%	0.006%
22	4.247	4.218	4.271	PV	777	12259	0.18%	0.009%
23	4.287	4.271	4.304	VV	614	9025	0.13%	0.007%
24	4.334	4.304	4.359	VV	499343	4585893	66.33%	3.407%
25	4.374	4.359	4.431	VV	14372	153437	2.22%	0.114%
26	4.447	4.431	4.466	VV	585	9156	0.13%	0.007%
27	4.501	4.466	4.518	VV	1978	29040	0.42%	0.022%
28	4.530	4.518	4.542	VV	1283	13426	0.19%	0.010%
29	4.556	4.542	4.570	VV	1864	20994	0.30%	0.016%
30	4.587	4.570	4.602	VV	4394	42603	0.62%	0.032%
31	4.614	4.602	4.628	VV	1629	16693	0.24%	0.012%
32	4.639	4.628	4.645	VV	859	7801	0.11%	0.006%
33	4.662	4.645	4.688	VV	1201	19656	0.28%	0.015%
34	4.705	4.688	4.721	VV	1005	13625	0.20%	0.010%
35	4.742	4.721	4.768	VV	1056	19790	0.29%	0.015%
36	4.802	4.768	4.837	VV	1481	25836	0.37%	0.019%

Instrument :
FID_C
ClientSampleId :
B-6-3MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

rteres

37	4.853	4.837	4.868	VV	433	5771	0.08%	0.004%
38	4.887	4.868	4.911	VV	784	11167		
39	4.965	4.911	4.998	VV	5241	82430		
40	5.019	4.998	5.038	VV	1469	21373		
41	5.047	5.038	5.057	VV	502	4870		
42	5.072	5.057	5.111	VV	917	14727		
43	5.126	5.111	5.144	PV	264	4148	0.06%	0.003%
44	5.165	5.144	5.178	VV	691	9030	0.13%	0.007%
45	5.189	5.178	5.214	VV	488	8412	0.12%	0.006%
46	5.226	5.214	5.240	VV	451	5390	0.08%	0.004%
47	5.257	5.240	5.271	VV	525	6655	0.10%	0.005%
48	5.288	5.271	5.302	VV	391	5692	0.08%	0.004%
49	5.317	5.302	5.345	VV	365	7200	0.10%	0.005%
50	5.367	5.345	5.393	VV	4253	48501	0.70%	0.036%
51	5.408	5.393	5.451	VV	1755	23971	0.35%	0.018%
52	5.463	5.451	5.484	VV	448	5943	0.09%	0.004%
53	5.491	5.484	5.503	VV	196	2000	0.03%	0.001%
54	5.549	5.503	5.585	VV	1068	20159	0.29%	0.015%
55	5.613	5.585	5.633	VV	253	5320	0.08%	0.004%
56	5.659	5.633	5.694	VV	762	14579	0.21%	0.011%
57	5.714	5.694	5.729	VV	317	4367	0.06%	0.003%
58	5.739	5.729	5.747	VV	188	1935	0.03%	0.001%
59	5.767	5.747	5.797	VV	304	5535	0.08%	0.004%
60	5.820	5.797	5.843	PV	357	4981	0.07%	0.004%
61	5.873	5.843	5.887	VV	383	7042	0.10%	0.005%
62	5.913	5.887	5.950	VV	6389	75476	1.09%	0.056%
63	5.963	5.950	5.987	VV	772	10527	0.15%	0.008%
64	6.007	5.987	6.032	VV	1540	19253	0.28%	0.014%
65	6.068	6.032	6.088	VV	789	14078	0.20%	0.010%
66	6.097	6.088	6.112	VV	357	3955	0.06%	0.003%
67	6.141	6.112	6.166	VV	581	12506	0.18%	0.009%
68	6.184	6.166	6.208	VV	407	6293	0.09%	0.005%
69	6.229	6.208	6.254	VV	435	7806	0.11%	0.006%
70	6.271	6.254	6.289	VV	352	5774	0.08%	0.004%
71	6.349	6.289	6.418	VV	525618	5251575	75.96%	3.901%
72	6.432	6.418	6.450	VV	1148	14370	0.21%	0.011%
73	6.464	6.450	6.477	VV	812	9784	0.14%	0.007%
74	6.496	6.477	6.517	VV	2628	31531	0.46%	0.023%
75	6.532	6.517	6.554	VV	801	11875	0.17%	0.009%
76	6.568	6.554	6.610	VV	950	12584	0.18%	0.009%
77	6.624	6.610	6.648	VV	228	3350	0.05%	0.002%
78	6.668	6.648	6.691	VV	382	5958	0.09%	0.004%
79	6.709	6.691	6.721	VV	261	3898	0.06%	0.003%
80	6.738	6.721	6.766	VV	314	4840	0.07%	0.004%
81	6.788	6.766	6.820	PV	804	10614	0.15%	0.008%
82	6.842	6.820	6.857	VV	1199	14849	0.21%	0.011%
83	6.868	6.857	6.877	VV	695	7399	0.11%	0.005%
84	6.893	6.877	6.931	VV	934	20455	0.30%	0.015%
85	6.967	6.931	6.996	VV	4243	57264	0.83%	0.043%
86	7.004	6.996	7.027	VV	436	5451	0.08%	0.004%
87	7.048	7.027	7.094	VV	1157	18139	0.26%	0.013%
88	7.129	7.094	7.154	VV	3264	38598	0.56%	0.029%
89	7.189	7.154	7.219	VV	470	14063	0.20%	0.010%

Instrument :
FID_C
ClientSampleId :
B-6-3MSD

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

90	7.236	7.219	7.246	VV	644	7371	0.11%	0.005%
91	7.269	7.246	7.294	VV	3931	46045		
92	7.333	7.294	7.348	VV	549	10671		
93	7.360	7.348	7.384	VV	770	8394		
94	7.392	7.384	7.408	VV	148	1386		
95	7.440	7.408	7.469	VV	266	6283		
96	7.530	7.469	7.551	VV	1420	16180	0.23%	0.012%
97	7.557	7.551	7.567	VV	252	2052	0.03%	0.002%
98	7.581	7.567	7.593	VV	446	4904	0.07%	0.004%
99	7.606	7.593	7.654	VV	464	9317	0.13%	0.007%
100	7.692	7.654	7.711	VV	608	11825	0.17%	0.009%
101	7.723	7.711	7.735	VV	406	4872	0.07%	0.004%
102	7.747	7.735	7.774	VV	503	6701	0.10%	0.005%
103	7.791	7.774	7.808	VV	491	5645	0.08%	0.004%
104	7.835	7.808	7.860	VV	2090	25656	0.37%	0.019%
105	7.890	7.860	7.914	VV	2167	25571	0.37%	0.019%
106	7.959	7.914	7.982	VV	833	13705	0.20%	0.010%
107	7.994	7.982	8.017	VV	296	4764	0.07%	0.004%
108	8.046	8.017	8.078	VV	1245	19198	0.28%	0.014%
109	8.141	8.078	8.211	VV	554940	5931123	85.79%	4.406%
110	8.242	8.211	8.270	VV	1613	32072	0.46%	0.024%
111	8.291	8.270	8.312	VV	962	15407	0.22%	0.011%
112	8.333	8.312	8.354	VV	669	10726	0.16%	0.008%
113	8.372	8.354	8.411	VV	738	10717	0.16%	0.008%
114	8.440	8.411	8.516	VV	15793	210977	3.05%	0.157%
115	8.537	8.516	8.571	VV	2865	42520	0.62%	0.032%
116	8.592	8.571	8.614	VV	1101	20622	0.30%	0.015%
117	8.627	8.614	8.640	VV	911	11558	0.17%	0.009%
118	8.676	8.640	8.713	VV	2304	48158	0.70%	0.036%
119	8.739	8.713	8.771	VV	621	11936	0.17%	0.009%
120	8.791	8.771	8.818	VV	498	7608	0.11%	0.006%
121	8.859	8.818	8.882	VV	2364	39793	0.58%	0.030%
122	8.895	8.882	8.932	VV	1368	30140	0.44%	0.022%
123	8.961	8.932	9.027	VV	4023	91006	1.32%	0.068%
124	9.046	9.027	9.074	VV	894	11664	0.17%	0.009%
125	9.095	9.074	9.126	VV	638	8684	0.13%	0.006%
126	9.148	9.126	9.165	PV	377	5174	0.07%	0.004%
127	9.197	9.165	9.226	VV	356	10528	0.15%	0.008%
128	9.259	9.226	9.304	VV	897	19682	0.28%	0.015%
129	9.328	9.304	9.361	VV	1951	35203	0.51%	0.026%
130	9.378	9.361	9.393	VV	688	8864	0.13%	0.007%
131	9.414	9.393	9.441	VV	398	8472	0.12%	0.006%
132	9.465	9.441	9.492	VV	884	14327	0.21%	0.011%
133	9.516	9.492	9.554	VV	2165	27445	0.40%	0.020%
134	9.572	9.554	9.595	VV	246	3507	0.05%	0.003%
135	9.608	9.595	9.621	VV	100	701	0.01%	0.001%
136	9.657	9.621	9.698	PV	1166	19987	0.29%	0.015%
137	9.740	9.698	9.792	VV	576595	6466602	93.53%	4.804%
138	9.811	9.792	9.865	VV	793	25962	0.38%	0.019%
139	9.882	9.865	9.936	VV	400	12305	0.18%	0.009%
140	9.960	9.936	9.984	VV	551	9220	0.13%	0.007%
141	10.011	9.984	10.026	VV	314	5458	0.08%	0.004%

Instrument :
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142	10.049	10.026	10.078	VV	491	10634	0.15%	0.008%
143	10.086	10.078	10.097	VV	324	3097		
144	10.125	10.097	10.149	VV	1670	26894		
145	10.168	10.149	10.188	VV	679	11094		
146	10.212	10.188	10.234	VV	578	11264		
147	10.268	10.234	10.302	VV	423	7669		
148	10.335	10.302	10.347	PV	544	8312	0.12%	0.006%
149	10.360	10.347	10.384	VV	593	10605	0.15%	0.008%
150	10.403	10.384	10.438	VV	940	20573	0.30%	0.015%
151	10.473	10.438	10.510	VV	3023	48372	0.70%	0.036%
152	10.546	10.510	10.573	VV	2407	42557	0.62%	0.032%
153	10.601	10.573	10.638	VV	1645	29395	0.43%	0.022%
154	10.692	10.638	10.717	VV	537	15466	0.22%	0.011%
155	10.729	10.717	10.741	VV	260	3271	0.05%	0.002%
156	10.754	10.741	10.770	VV	308	4188	0.06%	0.003%
157	10.797	10.770	10.828	VV	834	16717	0.24%	0.012%
158	10.845	10.828	10.881	VV	1007	20198	0.29%	0.015%
159	10.896	10.881	10.915	VV	877	12500	0.18%	0.009%
160	10.926	10.915	10.951	VV	516	6865	0.10%	0.005%
161	10.978	10.951	11.021	VV	4336	52463	0.76%	0.039%
162	11.035	11.021	11.045	PV	163	1342	0.02%	0.001%
163	11.052	11.045	11.064	VV	99	630	0.01%	0.000%
164	11.106	11.064	11.141	VV	2174	30049	0.43%	0.022%
165	11.178	11.141	11.244	VV	570902	6724759	97.27%	4.995%
166	11.266	11.244	11.317	VV	1474	27307	0.39%	0.020%
167	11.328	11.317	11.347	VV	354	3285	0.05%	0.002%
168	11.369	11.347	11.386	PV	161	2270	0.03%	0.002%
169	11.406	11.386	11.430	VV	208	3218	0.05%	0.002%
170	11.472	11.430	11.512	VV	398	12741	0.18%	0.009%
171	11.524	11.512	11.541	VV	365	5461	0.08%	0.004%
172	11.563	11.541	11.601	VV	773	15748	0.23%	0.012%
173	11.650	11.601	11.681	VV	547	17943	0.26%	0.013%
174	11.696	11.681	11.710	VV	198	2975	0.04%	0.002%
175	11.780	11.710	11.798	VV	728	17999	0.26%	0.013%
176	11.842	11.798	11.874	VV	2906	55500	0.80%	0.041%
177	11.888	11.874	11.910	VV	490	7358	0.11%	0.005%
178	11.937	11.910	11.961	VV	390	7324	0.11%	0.005%
179	11.977	11.961	11.988	VV	507	5981	0.09%	0.004%
180	11.996	11.988	12.016	VV	365	4959	0.07%	0.004%
181	12.061	12.016	12.096	VV	1184	29655	0.43%	0.022%
182	12.130	12.096	12.161	VV	679	16587	0.24%	0.012%
183	12.171	12.161	12.208	VV	474	7319	0.11%	0.005%
184	12.256	12.208	12.268	VV	563	11224	0.16%	0.008%
185	12.307	12.268	12.328	VV	2435	43103	0.62%	0.032%
186	12.344	12.328	12.384	VV	1645	25421	0.37%	0.019%
187	12.421	12.384	12.445	VV	2125	29370	0.42%	0.022%
188	12.487	12.445	12.532	PV	556160	6763010	97.82%	5.024%
189	12.542	12.532	12.559	VV	497	6795	0.10%	0.005%
190	12.586	12.559	12.668	VV	584	17432	0.25%	0.013%
191	12.754	12.668	12.788	PV	382	11845	0.17%	0.009%
192	12.806	12.788	12.818	VV	331	3595	0.05%	0.003%
193	12.841	12.818	12.854	VV	349	5571	0.08%	0.004%
194	12.927	12.854	12.965	VV	407848	4872809	70.48%	3.620%

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195	12.976	12.965	13.014	VV	886	19399	0.28%	0.014%
196	13.037	13.014	13.055	VV	714	12953		
197	13.097	13.055	13.136	VV	523595	6483099	93	
198	13.145	13.136	13.181	VV	1035	19970		
199	13.191	13.181	13.242	VV	412	10328		
200	13.255	13.242	13.272	VV	244	3450		
201	13.315	13.272	13.331	VV	580	13644	0.20%	0.010%
202	13.364	13.331	13.415	VV	733	22922	0.33%	0.017%
203	13.442	13.415	13.452	VV	299	4483	0.06%	0.003%
204	13.472	13.452	13.494	VV	752	10329	0.15%	0.008%
205	13.521	13.494	13.567	VV	1626	30165	0.44%	0.022%
206	13.625	13.567	13.643	VV	2337	36493	0.53%	0.027%
207	13.681	13.643	13.754	VV	516115	6467103	93.54%	4.804%
208	13.764	13.754	13.784	VV	374	4534	0.07%	0.003%
209	13.828	13.784	13.860	PV	266	6103	0.09%	0.005%
210	13.914	13.860	13.934	PV	627	13970	0.20%	0.010%
211	13.943	13.934	13.959	VV	316	3492	0.05%	0.003%
212	13.976	13.959	13.994	VV	327	3174	0.05%	0.002%
213	14.007	13.994	14.021	PV	165	2218	0.03%	0.002%
214	14.114	14.021	14.145	VV	1732	38542	0.56%	0.029%
215	14.180	14.145	14.211	VV	1645	22007	0.32%	0.016%
216	14.239	14.211	14.270	PV	3703	47081	0.68%	0.035%
217	14.295	14.270	14.324	VV	741	14365	0.21%	0.011%
218	14.366	14.324	14.414	VV	645	22709	0.33%	0.017%
219	14.449	14.414	14.468	VV	471	12071	0.17%	0.009%
220	14.486	14.468	14.507	VV	1178	18673	0.27%	0.014%
221	14.526	14.507	14.548	VV	860	16439	0.24%	0.012%
222	14.557	14.548	14.571	VV	790	9417	0.14%	0.007%
223	14.589	14.571	14.611	VV	968	17527	0.25%	0.013%
224	14.636	14.611	14.664	VV	981	22281	0.32%	0.017%
225	14.735	14.664	14.744	VV	2680	53412	0.77%	0.040%
226	14.783	14.744	14.880	VV	483151	6398983	92.55%	4.753%
227	14.923	14.880	14.961	VV	786	33057	0.48%	0.025%
228	14.973	14.961	14.998	VV	742	12812	0.19%	0.010%
229	15.022	14.998	15.031	VV	613	9999	0.14%	0.007%
230	15.039	15.031	15.057	VV	582	7168	0.10%	0.005%
231	15.090	15.057	15.137	VV	848	26267	0.38%	0.020%
232	15.165	15.137	15.177	VV	387	7047	0.10%	0.005%
233	15.222	15.177	15.245	VV	685	18224	0.26%	0.014%
234	15.255	15.245	15.261	VV	271	2655	0.04%	0.002%
235	15.298	15.261	15.342	VV	5801	87652	1.27%	0.065%
236	15.348	15.342	15.364	VV	478	4792	0.07%	0.004%
237	15.384	15.364	15.401	VV	590	5619	0.08%	0.004%
238	15.424	15.401	15.449	PV	882	11958	0.17%	0.009%
239	15.481	15.449	15.498	PV	478	8266	0.12%	0.006%
240	15.513	15.498	15.531	VV	445	6495	0.09%	0.005%
241	15.553	15.531	15.573	VV	530	7684	0.11%	0.006%
242	15.609	15.573	15.638	VV	1232	26812	0.39%	0.020%
243	15.669	15.638	15.710	VV	900	29755	0.43%	0.022%
244	15.801	15.710	15.884	VV	465116	6294151	91.04%	4.675%
245	15.980	15.884	16.020	VV	1291	66665	0.96%	0.050%
246	16.114	16.020	16.154	VV	1333	77938	1.13%	0.058%

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247	16.162	16.154	16.202	VV	677	12303	0.18%	0.009%
248	16.281	16.202	16.333	VV	7075	122056	1	
249	16.370	16.333	16.388	PV	652	14642	0	
250	16.438	16.388	16.461	VV	1595	40944	0	
251	16.480	16.461	16.564	VV	1439	58086	0	
252	16.580	16.564	16.599	VV	884	13925	0	
253	16.626	16.599	16.688	VV	1472	46939	0.68%	0.035%
254	16.750	16.688	16.788	VV	438081	6214794	89.89%	4.617%
255	16.795	16.788	16.818	VV	2611	31154	0.45%	0.023%
256	16.832	16.818	16.881	VV	1171	31773	0.46%	0.024%
257	16.977	16.881	17.004	VV	2560	109917	1.59%	0.082%
258	17.062	17.004	17.090	VV	1985	70002	1.01%	0.052%
259	17.150	17.090	17.170	VV	2634	78518	1.14%	0.058%
260	17.197	17.170	17.242	VV	7505	134569	1.95%	0.100%
261	17.258	17.242	17.276	VV	1216	18141	0.26%	0.013%
262	17.300	17.276	17.333	VV	2685	44516	0.64%	0.033%
263	17.356	17.333	17.375	VV	1043	16404	0.24%	0.012%
264	17.396	17.375	17.414	VV	897	15239	0.22%	0.011%
265	17.476	17.414	17.495	VV	1392	34974	0.51%	0.026%
266	17.524	17.495	17.548	VV	6881	117126	1.69%	0.087%
267	17.566	17.548	17.581	VV	3532	59293	0.86%	0.044%
268	17.636	17.581	17.714	VV	445809	6353459	91.89%	4.720%
269	17.765	17.714	17.861	VV	9753	333194	4.82%	0.248%
270	17.876	17.861	17.886	VV	1782	22418	0.32%	0.017%
271	17.908	17.886	17.921	VV	2122	35736	0.52%	0.027%
272	17.966	17.921	17.988	VV	2391	82279	1.19%	0.061%
273	17.994	17.988	18.025	VV	1973	33273	0.48%	0.025%
274	18.054	18.025	18.084	VV	7097	106309	1.54%	0.079%
275	18.132	18.084	18.154	PV	7505	130089	1.88%	0.097%
276	18.163	18.154	18.191	VV	2322	32366	0.47%	0.024%
277	18.206	18.191	18.227	VV	1256	18401	0.27%	0.014%
278	18.367	18.227	18.406	VV	1989	136955	1.98%	0.102%
279	18.468	18.406	18.528	VV	431982	6193248	89.58%	4.601%
280	18.554	18.528	18.581	VV	7841	131230	1.90%	0.097%
281	18.604	18.581	18.672	VV	6043	170120	2.46%	0.126%
282	18.690	18.672	18.711	VV	1799	39729	0.57%	0.030%
283	18.722	18.711	18.744	VV	2197	37941	0.55%	0.028%
284	18.755	18.744	18.797	VV	1923	46345	0.67%	0.034%
285	18.860	18.797	18.921	VV	9738	331188	4.79%	0.246%
286	18.952	18.921	18.981	VV	6902	173356	2.51%	0.129%
287	18.988	18.981	18.999	VV	4461	41036	0.59%	0.030%
288	19.051	18.999	19.094	VV	5201	230781	3.34%	0.171%
289	19.105	19.094	19.128	VV	3593	61227	0.89%	0.045%
290	19.249	19.128	19.331	VV	418900	6601140	95.48%	4.904%
291	19.352	19.331	19.403	VV	5874	190379	2.75%	0.141%
292	19.528	19.403	19.552	VV	7697	528914	7.65%	0.393%
293	19.575	19.552	19.587	VV	7297	149396	2.16%	0.111%
294	19.620	19.587	19.643	VV	12331	328998	4.76%	0.244%
295	19.658	19.643	19.708	VV	10274	310756	4.49%	0.231%
296	19.827	19.708	19.866	VV	14717	1088895	15.75%	0.809%
297	19.878	19.866	19.933	VV	13601	477172	6.90%	0.354%
298	19.987	19.933	20.024	VV	393380	6517713	94.27%	4.842%
299	20.042	20.024	20.072	VV	15736	393469	5.69%	0.292%

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300	20.102	20.072	20.116	VV	11922	295367	4.27%	0.219%
301	20.128	20.116	20.137	VV	11607	137454		
302	20.181	20.137	20.196	VV	14849	457758		
303	20.249	20.196	20.277	VV	18424	770713	11	
304	20.288	20.277	20.296	VV	16533	185413	2	
305	20.335	20.296	20.389	VV	20076	882921	12	
306	20.398	20.389	20.414	VV	11988	174751	2.53%	0.130%
307	20.476	20.414	20.491	VV	17299	707645	10.24%	0.526%
308	20.506	20.491	20.531	VV	17630	408114	5.90%	0.303%
309	20.541	20.531	20.631	VV	16345	855472	12.37%	0.635%
310	20.710	20.631	20.771	VV	334732	6913851	100.00%	5.136%
311	20.785	20.771	20.852	VV	14650	640673	9.27%	0.476%
312	20.860	20.852	20.902	VV	12151	330443	4.78%	0.245%
313	20.913	20.902	20.928	VV	10560	154474	2.23%	0.115%
314	21.013	20.928	21.044	VV	11560	727674	10.52%	0.541%
315	21.114	21.044	21.248	VV	15309	1194284	17.27%	0.887%
316	21.253	21.248	21.274	VV	6081	88512	1.28%	0.066%
317	21.318	21.274	21.328	VV	6958	198337	2.87%	0.147%
318	21.352	21.328	21.399	VV	7145	279124	4.04%	0.207%
319	21.412	21.399	21.421	VV	5878	73736	1.07%	0.055%
320	21.434	21.421	21.454	VV	6271	113969	1.65%	0.085%
321	21.477	21.454	21.518	VV	6185	197743	2.86%	0.147%
322	21.594	21.518	21.687	VV	246097	6052025	87.53%	4.496%
			Sum of corrected areas:			134620418		

Aliphatic EPH 102324.M Thu Nov 14 04:01:27 2024

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

Report of Analysis

Client:	BAPS North Bergen		Date Collected:		
Project:	BAPS North Bergen		Date Received:		
Client Sample ID:	B-6-3MSD		SDG No.:	P4822	
Lab Sample ID:	P4768-07MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	95.4	
Sample Wt/Vol:	30.07 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048722.D	1	11/13/24	11/13/24	PB164943

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.35		0.31	0.70	mg/kg
Aromatic C12-C16	Aromatic C12-C16	12.9		0.36	1.05	mg/kg
Aromatic C16-C21	Aromatic C16-C21	27.1		1.00	1.74	mg/kg
Aromatic C21-C36	Aromatic C21-C36	41.7		2.09	2.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.5		40 - 140	97%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.2		40 - 140	96%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.8		40 - 140	46%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4768-07MSD	Acq On:	13 Nov 2024 19:41
Client Sample ID:	B-6-3MSD	Operator:	YP/AJ
Data file:	FD048722.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.089	5.807	13523244	76.748	200	ug/ml
Aromatic C12-C16	5.808	8.412	32717016	184.557	300	ug/ml
Aromatic C16-C21	8.413	12.673	63677742	388.676	500	ug/ml
Aromatic C21-C36	12.674	18.078	91413956	598.599	800	ug/ml
Aromatic EPH	4.089	18.078	201331958	1250		ug/ml
ortho-Terphenyl (SURR)	11.252	11.252	3887347	22.82		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	7357308	48.47		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	4736292	48.24		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048722.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:41
Operator : YP/AJ
Sample : P4768-07MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
B-6-3MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:46:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	7357308	48.474 ug/ml
Spiked Amount	50.000		Recovery =	96.95%
6) S	2-Flurobiphenyl (SURR)	8.218	4736292	48.235 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	96.47%
11) S	ortho-Terphenyl (SURR)	11.252	3887347	22.821 ug/mlm
Spiked Amount	50.000		Recovery =	45.64%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.189	5659040	32.529 ug/mlm
2) T	Naphthalene (C11.7)	5.708	6582512	36.890 ug/ml
3) T	2-Methylnaphthalene (...	6.754	6387717	35.712 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	7825488	44.566 ug/ml
7) T	Acenaphthene (C15.5)	8.317	7781615	43.874 ug/ml
8) T	Flouorene (C16.55)	9.094	7940977	46.978 ug/ml
9) T	Phenanthrene (C19.36)	10.484	10278585	62.179 ug/ml
10) T	Anthracene (C19.43)	10.558	8207980	51.329 ug/ml
12) T	Fluoranthene (C21.85)	12.292	11044746	67.110 ug/mlm
13) T	Pyrene (C20.8)	12.583	10014758	62.174 ug/ml
14) T	Benzo[a]anthracene (C...	14.453	9089434	62.165 ug/ml
15) T	Chrysene (C27.41)	14.497	8690000	52.829 ug/ml
16) T	benzo[b]fluoranthene ...	16.003	8858139	58.266 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.036	7706958	51.276 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.379	8331432	55.360 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.747	8211075	62.931 ug/ml
20) T	Dibenz[a,h]anthracene...	17.782	7111331	43.699 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.000	7762670	50.706 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111324AR\
Data File : FD048722.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:41
Operator : YP/AJ
Sample : P4768-07MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

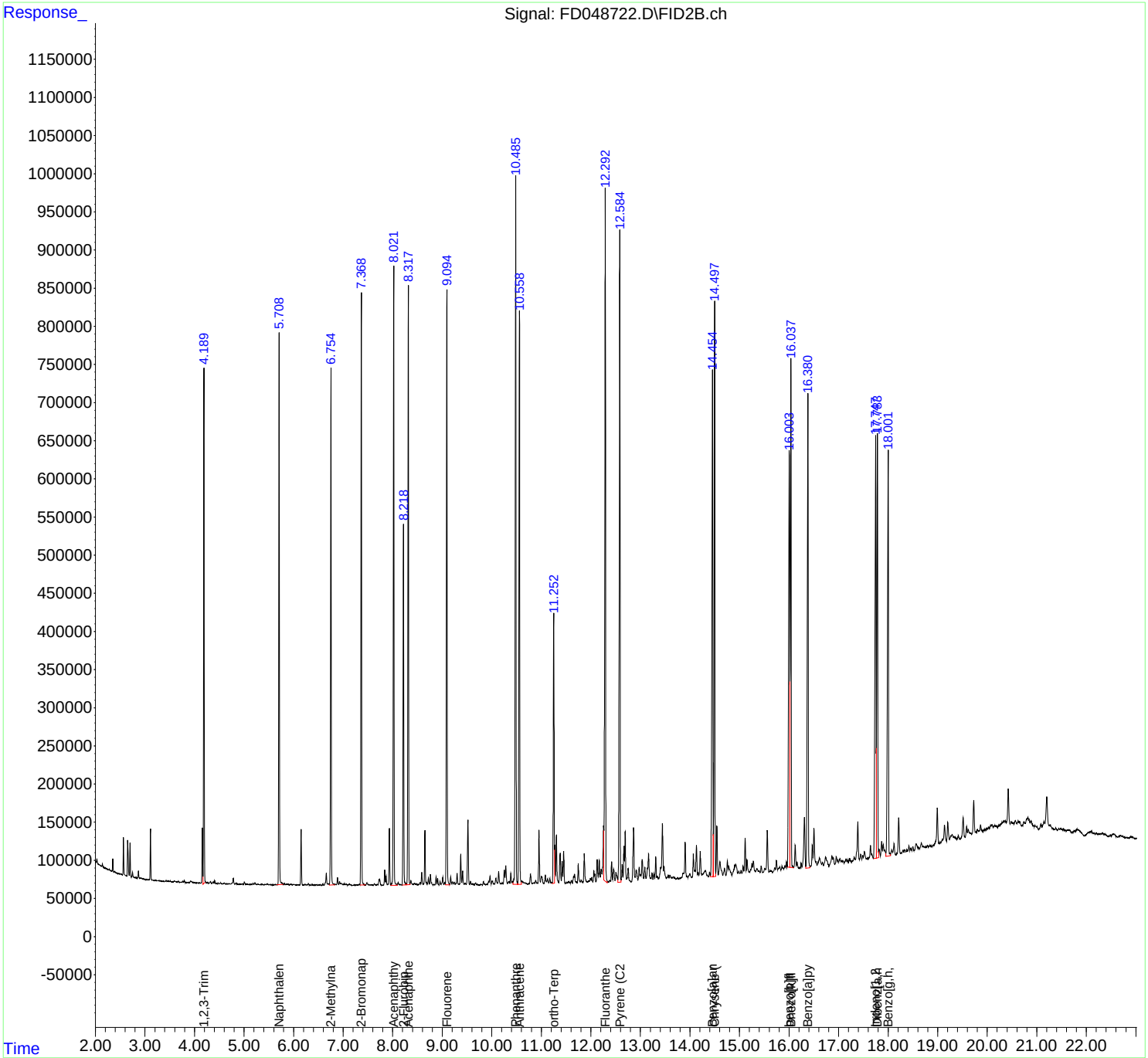
Instrument :
FID_D
ClientSampleId :
B-6-3MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Integration File: autoint1.e
Quant Time: Nov 14 01:46:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Quant Title : GC Extractables
QLast Update : Wed Oct 23 18:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_D
ClientSampleId :
B-6-3MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11132
Data File : FD048722.D
Signal(s) : FID2B.ch
Acq On : 13 Nov 2024 19:41
Sample : P4768-07MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 102324.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.062	4.042	4.082	PH	457	6717	0.06%	0.003%
2	4.096	4.082	4.128	PV	450	6259	0.06%	0.003%
3	4.158	4.128	4.172	PV	72838	641101	5.76%	0.305%
4	4.190	4.172	4.242	VV	673791	5684520	51.07%	2.703%
5	4.248	4.242	4.256	VV	970	6964	0.06%	0.003%
6	4.270	4.256	4.293	VV	1205	14606	0.13%	0.007%
7	4.322	4.293	4.347	VV	3037	43106	0.39%	0.021%
8	4.378	4.347	4.394	VV	2686	34740	0.31%	0.017%
9	4.408	4.394	4.442	VV	4387	42755	0.38%	0.020%
10	4.450	4.442	4.464	VV	243	2222	0.02%	0.001%
11	4.478	4.464	4.499	VV	1158	12275	0.11%	0.006%
12	4.503	4.499	4.510	VV	433	2700	0.02%	0.001%
13	4.526	4.510	4.550	VV	1099	14751	0.13%	0.007%
14	4.569	4.550	4.580	VV	499	6846	0.06%	0.003%
15	4.599	4.580	4.639	VV	1032	17351	0.16%	0.008%
16	4.646	4.639	4.661	VV	146	1416	0.01%	0.001%
17	4.673	4.661	4.690	PV	249	2281	0.02%	0.001%
18	4.707	4.690	4.731	PV	579	6351	0.06%	0.003%
19	4.759	4.731	4.767	VV	1747	19194	0.17%	0.009%
20	4.782	4.767	4.817	VV	7919	91688	0.82%	0.044%
21	4.838	4.817	4.878	VV	1619	24007	0.22%	0.011%
22	4.887	4.878	4.932	VV	369	7348	0.07%	0.003%
23	4.937	4.932	4.960	VV	334	2468	0.02%	0.001%
24	4.969	4.960	4.988	VV	601	6393	0.06%	0.003%
25	5.006	4.988	5.045	VV	3354	41688	0.37%	0.020%
26	5.051	5.045	5.099	VV	522	8563	0.08%	0.004%
27	5.104	5.099	5.138	VV	161	2955	0.03%	0.001%
28	5.146	5.138	5.163	VV	229	2403	0.02%	0.001%
29	5.181	5.163	5.199	PV	1923	19872	0.18%	0.009%
30	5.221	5.199	5.260	VV	2545	32688	0.29%	0.016%
31	5.275	5.260	5.301	VV	753	10404	0.09%	0.005%
32	5.307	5.301	5.326	VV	258	2898	0.03%	0.001%
33	5.338	5.326	5.350	VV	535	4998	0.04%	0.002%
34	5.359	5.350	5.379	VV	457	5088	0.05%	0.002%
35	5.387	5.379	5.404	VV	325	3245	0.03%	0.002%
36	5.427	5.404	5.439	VV	468	6073	0.05%	0.003%

Instrument :
FID_D
ClientSampleId :
B-6-3MSD

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/14/2024

rteres

37	5.471	5.439	5.488	VV	1175	20017	0.18%	0.010%
38	5.503	5.488	5.522	VV	653	9673		
39	5.536	5.522	5.553	VV	529	6661		
40	5.564	5.553	5.583	VV	303	4045		
41	5.590	5.583	5.604	VV	181	1204		
42	5.620	5.604	5.648	PV	496	8223		
43	5.668	5.648	5.678	VV	650	8550	0.08%	0.004%
44	5.708	5.678	5.797	VV	721777	6632654	59.59%	3.154%
45	5.813	5.797	5.841	VV	2502	37904	0.34%	0.018%
46	5.854	5.841	5.864	VV	928	10487	0.09%	0.005%
47	5.883	5.864	5.916	VV	1068	24492	0.22%	0.012%
48	5.951	5.916	5.985	VV	1139	32618	0.29%	0.016%
49	6.005	5.985	6.035	VV	1028	19297	0.17%	0.009%
50	6.043	6.035	6.056	VV	532	5529	0.05%	0.003%
51	6.078	6.056	6.092	VV	631	9662	0.09%	0.005%
52	6.104	6.092	6.126	VV	755	8708	0.08%	0.004%
53	6.152	6.126	6.185	VV	73514	702634	6.31%	0.334%
54	6.191	6.185	6.197	VV	525	3356	0.03%	0.002%
55	6.235	6.197	6.259	VV	1385	23121	0.21%	0.011%
56	6.271	6.259	6.282	VV	929	9477	0.09%	0.005%
57	6.299	6.282	6.319	VV	2417	27206	0.24%	0.013%
58	6.331	6.319	6.352	VV	1013	9593	0.09%	0.005%
59	6.370	6.352	6.405	PV	1256	15152	0.14%	0.007%
60	6.421	6.405	6.442	VV	487	5590	0.05%	0.003%
61	6.465	6.442	6.506	VV	743	14690	0.13%	0.007%
62	6.519	6.506	6.527	VV	685	5989	0.05%	0.003%
63	6.536	6.527	6.549	VV	812	6672	0.06%	0.003%
64	6.552	6.549	6.565	VV	302	1989	0.02%	0.001%
65	6.590	6.565	6.615	PV	1473	16662	0.15%	0.008%
66	6.661	6.615	6.683	VV	16023	214613	1.93%	0.102%
67	6.693	6.683	6.699	VV	2072	18462	0.17%	0.009%
68	6.703	6.699	6.720	VV	1943	20101	0.18%	0.010%
69	6.755	6.720	6.827	VV	679227	6428854	57.76%	3.057%
70	6.845	6.827	6.861	VV	1349	24648	0.22%	0.012%
71	6.887	6.861	6.911	VV	10178	121610	1.09%	0.058%
72	6.928	6.911	6.943	VV	4894	58491	0.53%	0.028%
73	6.956	6.943	6.970	VV	3041	39308	0.35%	0.019%
74	6.978	6.970	7.005	VV	2067	32059	0.29%	0.015%
75	7.008	7.005	7.016	VV	1161	6694	0.06%	0.003%
76	7.032	7.016	7.050	VV	2496	32334	0.29%	0.015%
77	7.068	7.050	7.092	VV	1739	26671	0.24%	0.013%
78	7.135	7.092	7.145	VV	1388	30123	0.27%	0.014%
79	7.158	7.145	7.180	VV	1189	14657	0.13%	0.007%
80	7.187	7.180	7.202	PV	226	1886	0.02%	0.001%
81	7.229	7.202	7.262	VV	1118	17029	0.15%	0.008%
82	7.280	7.262	7.292	VV	686	9838	0.09%	0.005%
83	7.298	7.292	7.310	VV	695	6073	0.05%	0.003%
84	7.327	7.310	7.340	VV	1767	19785	0.18%	0.009%
85	7.368	7.340	7.441	VV	778654	7384997	66.35%	3.512%
86	7.479	7.441	7.535	VV	3501	71087	0.64%	0.034%
87	7.541	7.535	7.543	VV	636	2784	0.03%	0.001%
88	7.548	7.543	7.572	VV	701	8285	0.07%	0.004%
89	7.584	7.572	7.610	VV	551	7933	0.07%	0.004%

Instrument :
FID_D
ClientSampleId :
B-6-3MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

					rteres			
90	7.632	7.610	7.672	VV	2271	34435	0.31%	0.016%
91	7.687	7.672	7.707	VV	801	14571		
92	7.725	7.707	7.734	VV	7908	79817		
93	7.740	7.734	7.787	VV	7678	84100		
94	7.800	7.787	7.806	PV	269	2188		
95	7.841	7.806	7.856	VV	20330	216537		
96	7.868	7.856	7.892	VV	11873	123630	1.11%	0.059%
97	7.934	7.892	7.970	VV	74732	770191	6.92%	0.366%
98	8.022	7.970	8.068	VV	811833	7806428	70.13%	3.713%
99	8.074	8.068	8.095	VV	1577	21495	0.19%	0.010%
100	8.111	8.095	8.147	VV	4072	54226	0.49%	0.026%
101	8.162	8.147	8.187	VV	1115	14506	0.13%	0.007%
102	8.218	8.187	8.270	VV	474764	4750457	42.68%	2.259%
103	8.279	8.270	8.285	VV	2187	17980	0.16%	0.009%
104	8.317	8.285	8.350	VV	784631	7792899	70.01%	3.706%
105	8.369	8.350	8.406	VV	6057	94863	0.85%	0.045%
106	8.416	8.406	8.420	VV	1456	10766	0.10%	0.005%
107	8.439	8.420	8.452	VV	2805	38889	0.35%	0.018%
108	8.481	8.452	8.496	VV	1798	39109	0.35%	0.019%
109	8.507	8.496	8.518	VV	853	8577	0.08%	0.004%
110	8.531	8.518	8.535	VV	971	7830	0.07%	0.004%
111	8.555	8.535	8.569	VV	3706	45710	0.41%	0.022%
112	8.587	8.569	8.615	VV	17036	192546	1.73%	0.092%
113	8.652	8.615	8.699	VV	71951	763700	6.86%	0.363%
114	8.723	8.699	8.740	VV	9479	116614	1.05%	0.055%
115	8.763	8.740	8.815	VV	14203	200657	1.80%	0.095%
116	8.833	8.815	8.852	VV	1378	15536	0.14%	0.007%
117	8.877	8.852	8.895	VV	11214	120584	1.08%	0.057%
118	8.909	8.895	8.931	VV	9168	90868	0.82%	0.043%
119	8.958	8.931	8.976	VV	4426	53387	0.48%	0.025%
120	9.012	8.976	9.033	VV	10407	144083	1.29%	0.069%
121	9.050	9.033	9.063	VV	3481	37682	0.34%	0.018%
122	9.094	9.063	9.148	VV	780574	7957440	71.49%	3.784%
123	9.172	9.148	9.190	VV	11057	130405	1.17%	0.062%
124	9.204	9.190	9.223	VV	4082	57807	0.52%	0.027%
125	9.238	9.223	9.262	VV	3817	56370	0.51%	0.027%
126	9.302	9.262	9.329	VV	15481	205060	1.84%	0.098%
127	9.375	9.329	9.396	VV	40915	462266	4.15%	0.220%
128	9.413	9.396	9.450	VV	18539	225298	2.02%	0.107%
129	9.466	9.450	9.485	VV	2613	35183	0.32%	0.017%
130	9.520	9.485	9.553	VV	85372	1072902	9.64%	0.510%
131	9.572	9.553	9.594	VV	4715	60971	0.55%	0.029%
132	9.607	9.594	9.640	VV	1466	27525	0.25%	0.013%
133	9.674	9.640	9.762	VV	2776	55530	0.50%	0.026%
134	9.781	9.762	9.811	PV	701	12304	0.11%	0.006%
135	9.834	9.811	9.879	VV	4545	65639	0.59%	0.031%
136	9.938	9.879	9.946	VV	4494	68780	0.62%	0.033%
137	9.966	9.946	9.990	VV	11308	160709	1.44%	0.076%
138	10.008	9.990	10.047	VV	5146	97415	0.88%	0.046%
139	10.084	10.047	10.120	VV	8464	157364	1.41%	0.075%
140	10.141	10.120	10.192	VV	17149	238932	2.15%	0.114%
141	10.215	10.192	10.230	VV	2339	37865	0.34%	0.018%

Instrument :
FID_D
ClientSampleId :
B-6-3MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
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rteres

142	10.254	10.230	10.267	VV	19222	222330	2.00%	0.106%
143	10.284	10.267	10.321	VV	24836	359134	3	
144	10.341	10.321	10.347	VV	3659	42043	0	
145	10.350	10.347	10.366	VV	3555	32636	0	
146	10.386	10.366	10.405	VV	14871	175218	1	
147	10.417	10.405	10.430	VV	4120	52768	0	
148	10.446	10.430	10.452	VV	7848	73286	0.66%	0.035%
149	10.485	10.452	10.524	VV	932152	10206541	91.70%	4.854%
150	10.559	10.524	10.600	VV	751466	8208634	73.75%	3.904%
151	10.611	10.600	10.623	VV	3865	48842	0.44%	0.023%
152	10.632	10.623	10.659	VV	3072	47929	0.43%	0.023%
153	10.672	10.659	10.725	VV	2216	43236	0.39%	0.021%
154	10.782	10.725	10.814	VV	13411	193049	1.73%	0.092%
155	10.847	10.814	10.862	VV	1632	33359	0.30%	0.016%
156	10.889	10.862	10.907	VV	5043	73114	0.66%	0.035%
157	10.918	10.907	10.927	VV	1479	15531	0.14%	0.007%
158	10.954	10.927	10.983	VV	70884	821977	7.38%	0.391%
159	11.000	10.983	11.010	VV	10238	117407	1.05%	0.056%
160	11.015	11.010	11.044	VV	9023	93615	0.84%	0.045%
161	11.082	11.044	11.104	VV	11245	165008	1.48%	0.078%
162	11.128	11.104	11.152	VV	6616	110789	1.00%	0.053%
163	11.172	11.152	11.193	VV	6889	85309	0.77%	0.041%
164	11.207	11.193	11.218	VV	1649	20116	0.18%	0.010%
165	11.252	11.218	11.269	VV	355045	3938316	35.38%	1.873%
166	11.275	11.269	11.290	VV	50759	445576	4.00%	0.212%
167	11.306	11.290	11.350	VV	64201	761642	6.84%	0.362%
168	11.382	11.350	11.404	VV	39926	643988	5.79%	0.306%
169	11.422	11.404	11.436	VV	29292	322104	2.89%	0.153%
170	11.452	11.436	11.498	VV	42232	496512	4.46%	0.236%
171	11.515	11.498	11.534	PV	1997	23956	0.22%	0.011%
172	11.550	11.534	11.566	VV	2702	31554	0.28%	0.015%
173	11.574	11.566	11.590	VV	1277	16255	0.15%	0.008%
174	11.608	11.590	11.629	VV	4050	50793	0.46%	0.024%
175	11.650	11.629	11.656	VV	8740	83839	0.75%	0.040%
176	11.670	11.656	11.695	VV	11958	166766	1.50%	0.079%
177	11.702	11.695	11.725	VV	1967	23980	0.22%	0.011%
178	11.746	11.725	11.785	VV	25818	325359	2.92%	0.155%
179	11.806	11.785	11.830	VV	3952	68690	0.62%	0.033%
180	11.868	11.830	11.912	VV	38591	507378	4.56%	0.241%
181	11.925	11.912	11.937	VV	2036	23056	0.21%	0.011%
182	11.956	11.937	11.967	VV	2707	37421	0.34%	0.018%
183	11.990	11.967	12.003	VV	6014	91585	0.82%	0.044%
184	12.018	12.003	12.039	VV	7234	92825	0.83%	0.044%
185	12.061	12.039	12.073	VV	15642	173790	1.56%	0.083%
186	12.080	12.073	12.104	VV	11572	119533	1.07%	0.057%
187	12.126	12.104	12.151	VV	30484	435443	3.91%	0.207%
188	12.170	12.151	12.188	VV	29563	382363	3.44%	0.182%
189	12.207	12.188	12.224	VV	17573	299675	2.69%	0.143%
190	12.256	12.224	12.261	VV	74759	875327	7.86%	0.416%
191	12.292	12.261	12.356	VV	912277	11130656	100.00%	5.294%
192	12.379	12.356	12.395	VV	2967	37741	0.34%	0.018%
193	12.418	12.395	12.437	VV	27131	302268	2.72%	0.144%
194	12.461	12.437	12.487	VV	17437	310140	2.79%	0.147%

Instrument :
FID_D
ClientSampleId :
B-6-3MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :Ankita Jodhani 11/14/2024

rteres

195	12.506	12.487	12.545	VV	12955	258844	2.33%	0.123%
196	12.584	12.545	12.607	VV	853394	10010304	89	
197	12.633	12.607	12.648	VV	23171	285257	2	
198	12.667	12.648	12.678	VV	47096	528948	4	
199	12.692	12.678	12.719	VV	66131	794468	7	
200	12.753	12.719	12.815	VV	18130	303130	2	
201	12.861	12.815	12.895	PV	70592	1151936	10.35%	0.548%
202	12.915	12.895	12.949	VV	15016	300252	2.70%	0.143%
203	12.975	12.949	12.990	VV	18582	240281	2.16%	0.114%
204	13.003	12.990	13.012	VV	8823	104702	0.94%	0.050%
205	13.036	13.012	13.067	VV	28512	488643	4.39%	0.232%
206	13.089	13.067	13.112	VV	18104	261149	2.35%	0.124%
207	13.141	13.112	13.146	VV	17191	201875	1.81%	0.096%
208	13.164	13.146	13.202	VV	35504	595881	5.35%	0.283%
209	13.233	13.202	13.252	VV	10300	158989	1.43%	0.076%
210	13.272	13.252	13.287	VV	9224	121442	1.09%	0.058%
211	13.307	13.287	13.330	VV	31660	382657	3.44%	0.182%
212	13.343	13.330	13.360	VV	5589	78271	0.70%	0.037%
213	13.406	13.360	13.415	VV	16828	280372	2.52%	0.133%
214	13.443	13.415	13.465	VV	74293	1177287	10.58%	0.560%
215	13.476	13.465	13.524	VV	18510	325540	2.92%	0.155%
216	13.538	13.524	13.547	VV	4215	46141	0.41%	0.022%
217	13.562	13.547	13.577	VV	6476	83457	0.75%	0.040%
218	13.594	13.577	13.619	VV	6085	108232	0.97%	0.051%
219	13.628	13.619	13.644	VV	2958	37253	0.33%	0.018%
220	13.662	13.644	13.680	VV	3878	62812	0.56%	0.030%
221	13.692	13.680	13.711	VV	2953	32129	0.29%	0.015%
222	13.724	13.711	13.733	PV	1010	8960	0.08%	0.004%
223	13.748	13.733	13.765	VV	2401	25646	0.23%	0.012%
224	13.781	13.765	13.790	VV	1444	13915	0.13%	0.007%
225	13.805	13.790	13.815	VV	1344	16087	0.14%	0.008%
226	13.829	13.815	13.836	VV	2382	21101	0.19%	0.010%
227	13.858	13.836	13.865	VV	7433	92709	0.83%	0.044%
228	13.872	13.865	13.879	VV	7370	61073	0.55%	0.029%
229	13.901	13.879	13.933	VV	47925	634885	5.70%	0.302%
230	13.944	13.933	13.957	VV	3297	37027	0.33%	0.018%
231	13.996	13.957	14.029	VV	6004	149562	1.34%	0.071%
232	14.034	14.029	14.044	VV	1413	12311	0.11%	0.006%
233	14.068	14.044	14.088	VV	31602	402548	3.62%	0.191%
234	14.098	14.088	14.108	VV	10261	113190	1.02%	0.054%
235	14.130	14.108	14.152	VV	43003	583671	5.24%	0.278%
236	14.164	14.152	14.178	VV	7363	85485	0.77%	0.041%
237	14.206	14.178	14.238	VV	34539	515167	4.63%	0.245%
238	14.300	14.238	14.307	VV	8515	237069	2.13%	0.113%
239	14.315	14.307	14.342	VV	8432	119424	1.07%	0.057%
240	14.347	14.342	14.373	VV	2569	30537	0.27%	0.015%
241	14.396	14.373	14.412	VV	6217	69999	0.63%	0.033%
242	14.453	14.412	14.471	VV	664266	9082997	81.60%	4.320%
243	14.497	14.471	14.518	VV	753469	8706319	78.22%	4.141%
244	14.542	14.518	14.571	VV	66142	867484	7.79%	0.413%
245	14.603	14.571	14.661	VV	19174	488071	4.38%	0.232%
246	14.695	14.661	14.724	VV	10012	177307	1.59%	0.084%

Instrument :
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Manual IntegrationsAPPROVED

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rteres

247	14.753	14.724	14.769	VV	19343	253357	2.28%	0.120%
248	14.781	14.769	14.845	VV	12768	300343	2	
249	14.901	14.845	14.909	PV	13202	248204	2	
250	14.922	14.909	14.966	VV	14332	319236	2	
251	14.983	14.966	15.006	VV	5036	81054	0	
252	15.030	15.006	15.047	VV	5417	79392	0	
253	15.070	15.047	15.087	VV	11244	156308	1.40%	0.074%
254	15.113	15.087	15.133	VV	47834	610148	5.48%	0.290%
255	15.150	15.133	15.188	VV	19256	314499	2.83%	0.150%
256	15.195	15.188	15.206	VV	3180	29474	0.26%	0.014%
257	15.249	15.206	15.261	VV	13636	248936	2.24%	0.118%
258	15.278	15.261	15.320	VV	16745	318299	2.86%	0.151%
259	15.354	15.320	15.380	VV	6324	154174	1.39%	0.073%
260	15.396	15.380	15.415	VV	3238	51203	0.46%	0.024%
261	15.437	15.415	15.465	VV	9342	130268	1.17%	0.062%
262	15.508	15.465	15.528	VV	5992	124370	1.12%	0.059%
263	15.560	15.528	15.595	VV	55693	791767	7.11%	0.377%
264	15.613	15.595	15.634	VV	2374	40236	0.36%	0.019%
265	15.645	15.634	15.669	VV	1955	25215	0.23%	0.012%
266	15.709	15.669	15.725	PV	5803	99488	0.89%	0.047%
267	15.744	15.725	15.773	VV	15029	220344	1.98%	0.105%
268	15.811	15.773	15.837	VV	6106	161159	1.45%	0.077%
269	15.856	15.837	15.891	VV	6803	140694	1.26%	0.067%
270	15.915	15.891	15.930	VV	7037	119741	1.08%	0.057%
271	15.947	15.930	15.962	VV	11871	160964	1.45%	0.077%
272	16.004	15.962	16.018	VV	550659	8955924	80.46%	4.259%
273	16.037	16.018	16.063	VV	671904	7831167	70.36%	3.724%
274	16.069	16.063	16.089	VV	5440	70407	0.63%	0.033%
275	16.123	16.089	16.146	VV	32513	484643	4.35%	0.230%
276	16.161	16.146	16.218	VV	9884	178416	1.60%	0.085%
277	16.242	16.218	16.260	VV	8108	109138	0.98%	0.052%
278	16.309	16.260	16.337	VV	67754	1192758	10.72%	0.567%
279	16.380	16.337	16.425	VV	623128	8360883	75.12%	3.976%
280	16.433	16.425	16.442	VV	2821	27318	0.25%	0.013%
281	16.468	16.442	16.482	VV	30258	376169	3.38%	0.179%
282	16.502	16.482	16.564	VV	51705	900625	8.09%	0.428%
283	16.613	16.564	16.656	VV	11431	392267	3.52%	0.187%
284	16.675	16.656	16.695	VV	5685	89757	0.81%	0.043%
285	16.735	16.695	16.805	VV	12167	387458	3.48%	0.184%
286	16.864	16.805	16.882	PV	12498	268764	2.41%	0.128%
287	16.892	16.882	16.925	VV	10095	140658	1.26%	0.067%
288	16.953	16.925	16.970	VV	10759	157308	1.41%	0.075%
289	16.983	16.970	17.000	VV	6295	81799	0.73%	0.039%
290	17.022	17.000	17.049	VV	6806	142371	1.28%	0.068%
291	17.066	17.049	17.079	VV	4255	61691	0.55%	0.029%
292	17.091	17.079	17.109	VV	3418	41594	0.37%	0.020%
293	17.150	17.109	17.165	VV	5332	102133	0.92%	0.049%
294	17.178	17.165	17.194	VV	3829	41273	0.37%	0.020%
295	17.222	17.194	17.264	VV	5052	100135	0.90%	0.048%
296	17.283	17.264	17.289	VV	1782	21393	0.19%	0.010%
297	17.314	17.289	17.340	VV	5271	105624	0.95%	0.050%
298	17.387	17.340	17.423	VV	51803	839007	7.54%	0.399%
299	17.445	17.423	17.468	VV	8556	137500	1.24%	0.065%

Instrument :
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B-6-3MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/14/2024
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rteres

300	17.487	17.468	17.499	VV	6409	85438	0.77%	0.041%
301	17.522	17.499	17.563	VV	11062	212481	1	
302	17.567	17.563	17.573	VV	879	4826	0	
303	17.585	17.573	17.597	VV	1720	15781	0	
304	17.614	17.597	17.620	VV	2835	26379	0	
305	17.643	17.620	17.662	VV	17739	246173	2	
306	17.669	17.662	17.700	VV	6399	82470	0.74%	0.039%
307	17.748	17.700	17.761	VV	553622	8146004	73.19%	3.874%
308	17.783	17.761	17.805	VV	557431	7171003	64.43%	3.410%
309	17.818	17.805	17.843	VV	10912	166898	1.50%	0.079%
310	17.869	17.843	17.885	VV	20750	295517	2.65%	0.141%
311	17.900	17.885	17.921	VV	16145	255648	2.30%	0.122%
312	17.930	17.921	17.952	VV	8722	132231	1.19%	0.063%
313	18.001	17.952	18.045	VV	531919	7770100	69.81%	3.695%
314	18.073	18.045	18.092	VV	7367	136511	1.23%	0.065%
315	18.119	18.092	18.148	VV	15060	242787	2.18%	0.115%

Sum of corrected areas: 210270239

Aromatic EPH 102324.M Thu Nov 14 02:55:56 2024

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

Manual Integration Report

Sequence:	FC102324AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FC111324AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC067729.D	n-Octatriacontane (C38)	yogesh	11/14/2024 8:43:11 AM	Ankita	11/14/2024 11:06:59	Peak Integrated by Software
P4768-07MS	FC067740.D	1-chlorooctadecane (SURR)	yogesh	11/14/2024 8:42:58 AM	Ankita	11/14/2024 11:07:02	Peak Integrated by Software
P4768-07MS	FC067740.D	n-Hexatriacontane (C36)	yogesh	11/14/2024 8:42:58 AM	Ankita	11/14/2024 11:07:02	Peak Integrated by Software
P4768-07MS	FC067740.D	n-Octatriacontane (C38)	yogesh	11/14/2024 8:42:58 AM	Ankita	11/14/2024 11:07:02	Peak Integrated by Software
P4768-07MS	FC067740.D	n-Tetracontane (C40)	yogesh	11/14/2024 8:42:58 AM	Ankita	11/14/2024 11:07:02	Peak Integrated by Software
P4768-07MS	FC067740.D	n-Tetracosane (C24)	yogesh	11/14/2024 8:42:58 AM	Ankita	11/14/2024 11:07:02	Peak Integrated by Software
P4768-07MS	FC067740.D	n-Tetratriacontane (C34)	yogesh	11/14/2024 8:42:58 AM	Ankita	11/14/2024 11:07:02	Peak Integrated by Software
P4768-07MSD	FC067741.D	n-Hexacosane (C26)	yogesh	11/14/2024 8:43:00 AM	Ankita	11/14/2024 11:07:03	Peak Integrated by Software
P4768-07MSD	FC067741.D	n-Hexatriacontane (C36)	yogesh	11/14/2024 8:43:00 AM	Ankita	11/14/2024 11:07:03	Peak Integrated by Software
P4768-07MSD	FC067741.D	n-Octacosane (C28)	yogesh	11/14/2024 8:43:00 AM	Ankita	11/14/2024 11:07:03	Peak Integrated by Software
P4768-07MSD	FC067741.D	n-Octatriacontane (C38)	yogesh	11/14/2024 8:43:00 AM	Ankita	11/14/2024 11:07:03	Peak Integrated by Software
P4768-07MSD	FC067741.D	n-Tetracosane (C24)	yogesh	11/14/2024 8:43:00 AM	Ankita	11/14/2024 11:07:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067745.D	n-Dotriacontane (C32)	yogesh	11/14/2024 8:43:01 AM	Ankita	11/14/2024 11:07:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC111324AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC067745.D	n-Octatriacontane (C38)	yogesh	11/14/2024 8:43:01 AM	Ankita	11/14/2024 11:07:04	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067745.D	n-Tetracontane (C40)	yogesh	11/14/2024 8:43:01 AM	Ankita	11/14/2024 11:07:04	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD102324AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FD111324AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164943BS	FD048717.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/14/2024 8:00:39 AM	Ankita	11/14/2024 11:10:46	Peak Integrated by Software
PB164943BS	FD048717.D	Fluoranthene (C21.85)	yogesh	11/14/2024 8:00:39 AM	Ankita	11/14/2024 11:10:46	Peak Integrated by Software
PB164943BSD	FD048718.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/14/2024 8:00:39 AM	Ankita	11/14/2024 11:10:48	Peak Integrated by Software
PB164943BSD	FD048718.D	Fluoranthene (C21.85)	yogesh	11/14/2024 8:00:39 AM	Ankita	11/14/2024 11:10:48	Peak Integrated by Software
P4768-07	FD048719.D	ortho-Terphenyl (SURR)	yogesh	11/14/2024 8:00:41 AM	Ankita	11/14/2024 11:10:49	Peak Integrated by Software
P4768-07D	FD048720.D	ortho-Terphenyl (SURR)	yogesh	11/14/2024 8:00:43 AM	Ankita	11/14/2024 11:10:51	Peak Integrated by Software
P4768-07MS	FD048721.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/14/2024 8:00:44 AM	Ankita	11/14/2024 11:10:52	Peak Integrated by Software
P4768-07MS	FD048721.D	Fluoranthene (C21.85)	yogesh	11/14/2024 8:00:44 AM	Ankita	11/14/2024 11:10:52	Peak Integrated by Software
P4768-07MSD	FD048722.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/14/2024 8:00:46 AM	Ankita	11/14/2024 11:10:53	Peak Integrated by Software
P4768-07MSD	FD048722.D	Fluoranthene (C21.85)	yogesh	11/14/2024 8:00:46 AM	Ankita	11/14/2024 11:10:53	Peak Integrated by Software
P4768-07MSD	FD048722.D	ortho-Terphenyl (SURR)	yogesh	11/14/2024 8:00:46 AM	Ankita	11/14/2024 11:10:53	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110724AL	Instrument	FID_e

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

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Manual Integration Report

Sequence:	FE111324AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE051189.D	A~2-methylnaphthalene (C12.89)	yogesh	11/13/2024 12:04:21 PM	Ankita	11/14/2024 11:06:33	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051189.D	n-Tetracontane (C40)	yogesh	11/13/2024 12:04:21 PM	Ankita	11/14/2024 11:06:33	Peak Integrated by Software
P4809-02DL	FE051195.D	1-chlorooctadecane (SURR)	yogesh	11/14/2024 8:42:18 AM	Ankita	11/14/2024 11:06:36	Peak Integrated by Software
PB164942BS	FE051199.D	n-Tetracosane (C24)	yogesh	11/14/2024 8:42:20 AM	Ankita	11/14/2024 11:06:39	Peak Integrated by Software
P4821-05MS	FE051205.D	n-Tetracosane (C24)	yogesh	11/14/2024 8:42:40 AM	Ankita	11/14/2024 11:06:40	Peak Integrated by Software
P4768-01	FE051212.D	1-chlorooctadecane (SURR)	yogesh	11/14/2024 8:42:41 AM	Ankita	11/14/2024 11:06:40	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF110724AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
100 PPM AROMATIC HC	FF014962.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/8/2024 9:27:55 AM	Ankita	11/8/2024 10:01:02	Peak Integrated by Software
100 PPM AROMATIC HC	FF014962.D	Dibenz[a,h]anthracene (C30.36)	yogesh	11/8/2024 9:27:55 AM	Ankita	11/8/2024 10:01:02	Peak Integrated by Software
100 PPM AROMATIC HC	FF014962.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	11/8/2024 9:27:55 AM	Ankita	11/8/2024 10:01:02	Peak Integrated by Software
20 PPM AROMATIC HC	FF014967.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	11/8/2024 9:27:56 AM	Ankita	11/8/2024 10:01:04	Peak Integrated by Software
20 PPM AROMATIC HC	FF014969.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	11/8/2024 9:27:58 AM	Ankita	11/8/2024 10:01:05	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF111324AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch 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	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111324AL

Review By	yogesh	Review On	11/13/2024 9:05:06 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:07:08 AM		
SubDirectory	FC111324AL	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	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067727.D	13 Nov 2024 04:57	YP/AJ	Ok
2	I.BLK	FC067728.D	13 Nov 2024 05:31	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067729.D	13 Nov 2024 06:06	YP/AJ	Ok,M
4	P4810-04	FC067730.D	13 Nov 2024 07:50	YP/AJ	Ok
5	P4810-05	FC067731.D	13 Nov 2024 08:25	YP/AJ	Ok
6	P4810-06	FC067732.D	13 Nov 2024 09:00	YP/AJ	Ok
7	I.BLK	FC067733.D	13 Nov 2024 11:50	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD	FC067734.D	13 Nov 2024 13:03	YP/AJ	Ok
9	PB164943BL	FC067735.D	13 Nov 2024 16:03	YP/AJ	Ok
10	PB164943BS	FC067736.D	13 Nov 2024 16:39	YP/AJ	Ok
11	PB164943BSD	FC067737.D	13 Nov 2024 17:15	YP/AJ	Ok
12	P4768-07	FC067738.D	13 Nov 2024 17:52	YP/AJ	Ok
13	P4768-07D	FC067739.D	13 Nov 2024 18:28	YP/AJ	Ok
14	P4768-07MS	FC067740.D	13 Nov 2024 19:04	YP/AJ	Ok,M
15	P4768-07MSD	FC067741.D	13 Nov 2024 19:41	YP/AJ	Ok,M
16	P4822-01	FC067742.D	13 Nov 2024 20:16	YP/AJ	Ok
17	P4822-03	FC067743.D	13 Nov 2024 20:52	YP/AJ	Ok
18	I.BLK	FC067744.D	13 Nov 2024 22:04	YP/AJ	Ok
19	20 PPM ALIPHATIC HC STD	FC067745.D	13 Nov 2024 22:40	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102324AR

Review By	yogesh	Review On	10/23/2024 4:04:27 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:45 AM		
SubDirectory	FD102324AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD048566.D	23 Oct 2024 13:59	YP/AJ	Ok
2	I.BLK	FD048567.D	23 Oct 2024 14:35	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD048568.D	23 Oct 2024 15:12	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD048569.D	23 Oct 2024 15:48	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD048570.D	23 Oct 2024 16:25	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD048571.D	23 Oct 2024 17:02	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD048572.D	23 Oct 2024 17:38	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD048573.D	23 Oct 2024 18:14	YP/AJ	Ok
9	I.BLK	FD048574.D	23 Oct 2024 19:27	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD048575.D	23 Oct 2024 20:03	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111324AR

Review By	yogesh	Review On	11/14/2024 11:12:27 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:33:56 AM		
SubDirectory	FD111324AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	I.BLK	FD048714.D	13 Nov 2024 11:50	YP/AJ	Ok
2	20 PPM AROMATIC HC STD	FD048715.D	13 Nov 2024 13:03	YP/AJ	Ok
3	PB164943BL	FD048716.D	13 Nov 2024 16:03	YP/AJ	Ok
4	PB164943BS	FD048717.D	13 Nov 2024 16:39	YP/AJ	Ok,M
5	PB164943BSD	FD048718.D	13 Nov 2024 17:15	YP/AJ	Ok,M
6	P4768-07	FD048719.D	13 Nov 2024 17:52	YP/AJ	Ok,M
7	P4768-07D	FD048720.D	13 Nov 2024 18:28	YP/AJ	Ok,M
8	P4768-07MS	FD048721.D	13 Nov 2024 19:04	YP/AJ	Ok,M
9	P4768-07MSD	FD048722.D	13 Nov 2024 19:41	YP/AJ	Ok,M
10	P4822-01	FD048723.D	13 Nov 2024 20:16	YP/AJ	Ok
11	P4822-03	FD048724.D	13 Nov 2024 20:52	YP/AJ	Ok
12	I.BLK	FD048725.D	13 Nov 2024 22:04	YP/AJ	Ok
13	20 PPM AROMATIC HC STD	FD048726.D	13 Nov 2024 22:40	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch 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	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111324AL

Review By	yogesh	Review On	11/13/2024 9:03:46 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:06:47 AM		
SubDirectory	FE111324AL	HP Acquire Method		HP Processing Method	FE110724AL

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	Data File Name	Date-Time	Operator	Status
1	MECL2	FE051187.D	13 Nov 2024 04:54	YP\AJ	Ok
2	I.BLK	FE051188.D	13 Nov 2024 05:24	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE051189.D	13 Nov 2024 05:54	YP\AJ	Ok,M
4	P4816-01DL	FE051190.D	13 Nov 2024 08:16	YP\AJ	Ok
5	P4816-02DL	FE051191.D	13 Nov 2024 08:46	YP\AJ	Ok
6	P4811-01DL	FE051192.D	13 Nov 2024 09:16	YP\AJ	Ok
7	P4811-02DL	FE051193.D	13 Nov 2024 09:47	YP\AJ	Ok
8	P4809-01DL	FE051194.D	13 Nov 2024 10:17	YP\AJ	Ok
9	P4809-02DL	FE051195.D	13 Nov 2024 10:47	YP\AJ	Ok,M
10	I.BLK	FE051196.D	13 Nov 2024 11:47	YP\AJ	Ok
11	20 PPM ALIPHATIC HC STD	FE051197.D	13 Nov 2024 13:17	YP\AJ	Ok
12	PB164942BL	FE051198.D	13 Nov 2024 14:41	YP\AJ	Ok
13	PB164942BS	FE051199.D	13 Nov 2024 15:11	YP\AJ	Ok,M
14	PB164942BSD	FE051200.D	13 Nov 2024 15:41	YP\AJ	Ok
15	P4821-01	FE051201.D	13 Nov 2024 16:11	YP\AJ	Ok
16	P4821-02	FE051202.D	13 Nov 2024 16:41	YP\AJ	Ok
17	P4821-05	FE051203.D	13 Nov 2024 17:11	YP\AJ	Ok
18	P4821-05D	FE051204.D	13 Nov 2024 17:41	YP\AJ	Ok
19	P4821-05MS	FE051205.D	13 Nov 2024 18:11	YP\AJ	Ok,M
20	P4821-05MSD	FE051206.D	13 Nov 2024 18:41	YP\AJ	Ok
21	P4821-06	FE051207.D	13 Nov 2024 19:12	YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111324AL

Review By	yogesh	Review On	11/13/2024 9:03:46 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:06:47 AM		
SubDirectory	FE111324AL	HP Acquire Method		HP Processing Method	FE110724AL

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	

22	P4823-01	FE051208.D	13 Nov 2024 19:41	YP\AJ	Ok
23	P4823-02	FE051209.D	13 Nov 2024 20:12	YP\AJ	Ok
24	I.BLK	FE051210.D	13 Nov 2024 21:12	YP\AJ	Ok
25	20 PPM ALIPHATIC HC STD	FE051211.D	13 Nov 2024 21:42	YP\AJ	Ok
26	P4768-01	FE051212.D	13 Nov 2024 22:43	YP\AJ	Dilution
27	P4768-02	FE051213.D	13 Nov 2024 23:13	YP\AJ	Ok
28	P4768-03	FE051214.D	13 Nov 2024 23:43	YP\AJ	Ok
29	P4768-04	FE051215.D	14 Nov 2024 00:13	YP\AJ	Ok
30	P4768-05	FE051216.D	14 Nov 2024 00:43	YP\AJ	Ok
31	P4768-06	FE051217.D	14 Nov 2024 01:14	YP\AJ	Ok
32	P4822-05	FE051218.D	14 Nov 2024 01:44	YP\AJ	Ok
33	P4822-07	FE051219.D	14 Nov 2024 02:13	YP\AJ	Ok
34	P4822-09	FE051220.D	14 Nov 2024 02:44	YP\AJ	Ok
35	P4822-11	FE051221.D	14 Nov 2024 03:14	YP\AJ	Ok
36	I.BLK	FE051222.D	14 Nov 2024 04:14	YP\AJ	Ok
37	20 PPM ALIPHATIC HC STD	FE051223.D	14 Nov 2024 04:44	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF110724AR

Review By	yogesh	Review On	11/7/2024 4:37:31 PM		
Supervise By	Ankita	Supervise On	11/8/2024 10:01:09 AM		
SubDirectory	FF110724AR	HP Acquire Method		HP Processing Method	FF110724AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF014960.D	07 Nov 2024 16:53	YP\AJ	Ok
2	I.BLK	FF014961.D	07 Nov 2024 17:21	YP\AJ	Ok
3	100 PPM AROMATIC HC STD1	FF014962.D	07 Nov 2024 17:49	YP\AJ	Ok,M
4	50 PPM AROMATIC HC STD2	FF014963.D	07 Nov 2024 18:18	YP\AJ	Ok
5	20 PPM AROMATIC HC STD3	FF014964.D	07 Nov 2024 18:46	YP\AJ	Ok
6	10 PPM AROMATIC HC STD4	FF014965.D	07 Nov 2024 19:15	YP\AJ	Ok
7	5 PPM AROMATIC HC STD5	FF014966.D	07 Nov 2024 19:43	YP\AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FF014967.D	07 Nov 2024 20:11	YP\AJ	Ok,M
9	I.BLK	FF014968.D	07 Nov 2024 21:08	YP\AJ	Ok
10	20 PPM AROMATIC HC STD	FF014969.D	07 Nov 2024 21:36	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF111324AR

Review By	yogesh	Review On	11/13/2024 3:29:06 PM		
Supervise By	Ankita	Supervise On	11/14/2024 11:11:06 AM		
SubDirectory	FF111324AR	HP Acquire Method		HP Processing Method	FF110724AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015009.D	13 Nov 2024 13:22	YP\AJ	Ok
2	I.BLK	FF015010.D	13 Nov 2024 14:00	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FF015011.D	13 Nov 2024 15:25	YP\AJ	Ok
4	P4822-11	FF015012.D	13 Nov 2024 16:18	YP\AJ	Ok
5	P4768-02	FF015013.D	13 Nov 2024 16:46	YP\AJ	Ok
6	P4768-03	FF015014.D	13 Nov 2024 17:14	YP\AJ	Ok
7	P4768-04	FF015015.D	13 Nov 2024 17:43	YP\AJ	Ok
8	P4768-05	FF015016.D	13 Nov 2024 18:11	YP\AJ	Ok
9	P4768-06	FF015017.D	13 Nov 2024 18:39	YP\AJ	Ok
10	P4822-05	FF015018.D	13 Nov 2024 19:07	YP\AJ	Ok
11	P4822-07	FF015019.D	13 Nov 2024 19:35	YP\AJ	Ok
12	P4822-09	FF015020.D	13 Nov 2024 20:04	YP\AJ	Ok
13	P4768-01	FF015021.D	13 Nov 2024 20:32	YP\AJ	ReRun
14	I.BLK	FF015022.D	13 Nov 2024 21:28	YP\AJ	Ok
15	20 PPM AROMATIC HC STD	FF015023.D	13 Nov 2024 21:57	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch 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	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	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 H	100 PPM ALIPHATIC H	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

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111324AL

Review By	yogesh	Review On	11/13/2024 9:05:06 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:07:08 AM		
SubDirectory	FC111324AL	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	FC067727.D	13 Nov 2024 04:57		YP/AJ	Ok
2	I.BLK	I.BLK	FC067728.D	13 Nov 2024 05:31		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067729.D	13 Nov 2024 06:06		YP/AJ	Ok,M
4	P4810-04	2	FC067730.D	13 Nov 2024 07:50		YP/AJ	Ok
5	P4810-05	3	FC067731.D	13 Nov 2024 08:25		YP/AJ	Ok
6	P4810-06	4	FC067732.D	13 Nov 2024 09:00		YP/AJ	Ok
7	I.BLK	I.BLK	FC067733.D	13 Nov 2024 11:50		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067734.D	13 Nov 2024 13:03		YP/AJ	Ok
9	PB164943BL	PB164943BL	FC067735.D	13 Nov 2024 16:03		YP/AJ	Ok
10	PB164943BS	PB164943BS	FC067736.D	13 Nov 2024 16:39		YP/AJ	Ok
11	PB164943BSD	PB164943BSD	FC067737.D	13 Nov 2024 17:15		YP/AJ	Ok
12	P4768-07	B-6-3	FC067738.D	13 Nov 2024 17:52		YP/AJ	Ok
13	P4768-07D	P4768-07D	FC067739.D	13 Nov 2024 18:28		YP/AJ	Ok
14	P4768-07MS	B-6-3MS	FC067740.D	13 Nov 2024 19:04	FC067738.D	YP/AJ	Ok,M
15	P4768-07MSD	B-6-3MSD	FC067741.D	13 Nov 2024 19:41	FC067738.D!FC067740.D	YP/AJ	Ok,M
16	P4822-01	SOIL-1	FC067742.D	13 Nov 2024 20:16		YP/AJ	Ok
17	P4822-03	SOIL-2	FC067743.D	13 Nov 2024 20:52		YP/AJ	Ok
18	I.BLK	I.BLK	FC067744.D	13 Nov 2024 22:04		YP/AJ	Ok

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Fax : 908 789 8922

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111324AL

Review By	yogesh	Review On	11/13/2024 9:05:06 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:07:08 AM		
SubDirectory	FC111324AL	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	

19	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067745.D	13 Nov 2024 22:40		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD102324AR

Review By	yogesh	Review On	10/23/2024 4:04:27 PM		
Supervise By	Ankita	Supervise On	10/24/2024 9:29:45 AM		
SubDirectory	FD102324AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD048566.D	23 Oct 2024 13:59		YP/AJ	Ok
2	I.BLK	I.BLK	FD048567.D	23 Oct 2024 14:35		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD048568.D	23 Oct 2024 15:12		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD048569.D	23 Oct 2024 15:48		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048570.D	23 Oct 2024 16:25		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD048571.D	23 Oct 2024 17:02		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD048572.D	23 Oct 2024 17:38		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048573.D	23 Oct 2024 18:14		YP/AJ	Ok
9	I.BLK	I.BLK	FD048574.D	23 Oct 2024 19:27		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048575.D	23 Oct 2024 20:03		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111324AR

Review By	yogesh	Review On	11/14/2024 11:12:27 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:33:56 AM		
SubDirectory	FD111324AR	HP Acquire Method		HP Processing Method	FD102324AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	I.BLK	I.BLK	FD048714.D	13 Nov 2024 11:50		YP/AJ	Ok
2	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048715.D	13 Nov 2024 13:03		YP/AJ	Ok
3	PB164943BL	PB164943BL	FD048716.D	13 Nov 2024 16:03		YP/AJ	Ok
4	PB164943BS	PB164943BS	FD048717.D	13 Nov 2024 16:39		YP/AJ	Ok,M
5	PB164943BSD	PB164943BSD	FD048718.D	13 Nov 2024 17:15		YP/AJ	Ok,M
6	P4768-07	B-6-3	FD048719.D	13 Nov 2024 17:52		YP/AJ	Ok,M
7	P4768-07D	P4768-07D	FD048720.D	13 Nov 2024 18:28		YP/AJ	Ok,M
8	P4768-07MS	B-6-3MS	FD048721.D	13 Nov 2024 19:04	FD048719.D	YP/AJ	Ok,M
9	P4768-07MSD	B-6-3MSD	FD048722.D	13 Nov 2024 19:41	FD048719.D!FD048721.D	YP/AJ	Ok,M
10	P4822-01	SOIL-1	FD048723.D	13 Nov 2024 20:16		YP/AJ	Ok
11	P4822-03	SOIL-2	FD048724.D	13 Nov 2024 20:52		YP/AJ	Ok
12	I.BLK	I.BLK	FD048725.D	13 Nov 2024 22:04		YP/AJ	Ok
13	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048726.D	13 Nov 2024 22:40		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch 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	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	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 H	100 PPM ALIPHATIC H	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

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111324AL

Review By	yogesh	Review On	11/13/2024 9:03:46 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:06:47 AM		
SubDirectory	FE111324AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051187.D	13 Nov 2024 04:54		YP\AJ	Ok
2	I.BLK	I.BLK	FE051188.D	13 Nov 2024 05:24		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051189.D	13 Nov 2024 05:54		YP\AJ	Ok,M
4	P4816-01DL	331DL	FE051190.D	13 Nov 2024 08:16		YP\AJ	Ok
5	P4816-02DL	331-E2DL	FE051191.D	13 Nov 2024 08:46		YP\AJ	Ok
6	P4811-01DL	RB24008DL	FE051192.D	13 Nov 2024 09:16		YP\AJ	Ok
7	P4811-02DL	RB24008-E2DL	FE051193.D	13 Nov 2024 09:47		YP\AJ	Ok
8	P4809-01DL	MH-5DL	FE051194.D	13 Nov 2024 10:17		YP\AJ	Ok
9	P4809-02DL	MH-5-EPHDL	FE051195.D	13 Nov 2024 10:47		YP\AJ	Ok,M
10	I.BLK	I.BLK	FE051196.D	13 Nov 2024 11:47		YP\AJ	Ok
11	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051197.D	13 Nov 2024 13:17		YP\AJ	Ok
12	PB164942BL	PB164942BL	FE051198.D	13 Nov 2024 14:41		YP\AJ	Ok
13	PB164942BS	PB164942BS	FE051199.D	13 Nov 2024 15:11		YP\AJ	Ok,M
14	PB164942BSD	PB164942BSD	FE051200.D	13 Nov 2024 15:41		YP\AJ	Ok
15	P4821-01	BP-F-24	FE051201.D	13 Nov 2024 16:11		YP\AJ	Ok
16	P4821-02	BP-F-24-EPH	FE051202.D	13 Nov 2024 16:41		YP\AJ	Ok
17	P4821-05	BP-F-2	FE051203.D	13 Nov 2024 17:11		YP\AJ	Ok
18	P4821-05D	P4821-05D	FE051204.D	13 Nov 2024 17:41		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111324AL

Review By	yogesh	Review On	11/13/2024 9:03:46 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:06:47 AM		
SubDirectory	FE111324AL	HP Acquire Method		HP Processing Method	FE110724AL

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	

19	P4821-05MS	BP-F-2MS	FE051205.D	13 Nov 2024 18:11	FE051203.D	YP\AJ	Ok,M
20	P4821-05MSD	BP-F-2MSD	FE051206.D	13 Nov 2024 18:41	FE051203.D!FE051205.D	YP\AJ	Ok
21	P4821-06	BP-F-2-EPH	FE051207.D	13 Nov 2024 19:12		YP\AJ	Ok
22	P4823-01	MH-4	FE051208.D	13 Nov 2024 19:41		YP\AJ	Ok
23	P4823-02	MH-4-EPH	FE051209.D	13 Nov 2024 20:12		YP\AJ	Ok
24	I.BLK	I.BLK	FE051210.D	13 Nov 2024 21:12		YP\AJ	Ok
25	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051211.D	13 Nov 2024 21:42		YP\AJ	Ok
26	P4768-01	B-3-1	FE051212.D	13 Nov 2024 22:43	need 5x dilution	YP\AJ	Dilution
27	P4768-02	B-3-2	FE051213.D	13 Nov 2024 23:13		YP\AJ	Ok
28	P4768-03	B-3-3	FE051214.D	13 Nov 2024 23:43		YP\AJ	Ok
29	P4768-04	B-4	FE051215.D	14 Nov 2024 00:13		YP\AJ	Ok
30	P4768-05	B-5	FE051216.D	14 Nov 2024 00:43		YP\AJ	Ok
31	P4768-06	B-6-2	FE051217.D	14 Nov 2024 01:14		YP\AJ	Ok
32	P4822-05	SOIL-3	FE051218.D	14 Nov 2024 01:44		YP\AJ	Ok
33	P4822-07	SOIL-4	FE051219.D	14 Nov 2024 02:13		YP\AJ	Ok
34	P4822-09	SOIL-5	FE051220.D	14 Nov 2024 02:44		YP\AJ	Ok
35	P4822-11	SOIL-6	FE051221.D	14 Nov 2024 03:14		YP\AJ	Ok
36	I.BLK	I.BLK	FE051222.D	14 Nov 2024 04:14		YP\AJ	Ok
37	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051223.D	14 Nov 2024 04:44		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111324AL

Review By	yogesh	Review On	11/13/2024 9:03:46 AM		
Supervise By	Ankita	Supervise On	11/14/2024 11:06:47 AM		
SubDirectory	FE111324AL	HP Acquire Method		HP Processing Method	FE110724AL

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	

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF110724AR

Review By	yogesh	Review On	11/7/2024 4:37:31 PM		
Supervise By	Ankita	Supervise On	11/8/2024 10:01:09 AM		
SubDirectory	FF110724AR	HP Acquire Method		HP Processing Method	FF110724AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF014960.D	07 Nov 2024 16:53		YP\AJ	Ok
2	I.BLK	I.BLK	FF014961.D	07 Nov 2024 17:21		YP\AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FF014962.D	07 Nov 2024 17:49		YP\AJ	Ok,M
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FF014963.D	07 Nov 2024 18:18		YP\AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF014964.D	07 Nov 2024 18:46		YP\AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FF014965.D	07 Nov 2024 19:15		YP\AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FF014966.D	07 Nov 2024 19:43		YP\AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF014967.D	07 Nov 2024 20:11		YP\AJ	Ok,M
9	I.BLK	I.BLK	FF014968.D	07 Nov 2024 21:08		YP\AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF014969.D	07 Nov 2024 21:36		YP\AJ	Ok,M

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF111324AR

Review By	yogesh	Review On	11/13/2024 3:29:06 PM		
Supervise By	Ankita	Supervise On	11/14/2024 11:11:06 AM		
SubDirectory	FF111324AR	HP Acquire Method		HP Processing Method	FF110724AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23429,PP23519,PP23520,PP23521,PP23522
CCC	PP23520
Internal Standard/PEM	
ICV/I.BLK	PP23430,PP23523
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF015009.D	13 Nov 2024 13:22		YP\AJ	Ok
2	I.BLK	I.BLK	FF015010.D	13 Nov 2024 14:00		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015011.D	13 Nov 2024 15:25		YP\AJ	Ok
4	P4822-11	SOIL-6	FF015012.D	13 Nov 2024 16:18		YP\AJ	Ok
5	P4768-02	B-3-2	FF015013.D	13 Nov 2024 16:46		YP\AJ	Ok
6	P4768-03	B-3-3	FF015014.D	13 Nov 2024 17:14		YP\AJ	Ok
7	P4768-04	B-4	FF015015.D	13 Nov 2024 17:43		YP\AJ	Ok
8	P4768-05	B-5	FF015016.D	13 Nov 2024 18:11		YP\AJ	Ok
9	P4768-06	B-6-2	FF015017.D	13 Nov 2024 18:39		YP\AJ	Ok
10	P4822-05	SOIL-3	FF015018.D	13 Nov 2024 19:07		YP\AJ	Ok
11	P4822-07	SOIL-4	FF015019.D	13 Nov 2024 19:35		YP\AJ	Ok
12	P4822-09	SOIL-5	FF015020.D	13 Nov 2024 20:04		YP\AJ	Ok
13	P4768-01	B-3-1	FF015021.D	13 Nov 2024 20:32	surrogate fail	YP\AJ	ReRun
14	I.BLK	I.BLK	FF015022.D	13 Nov 2024 21:28		YP\AJ	Ok
15	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015023.D	13 Nov 2024 21:57		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/13/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 11/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 11/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133408

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
P4810-01	WASTE	1	1.15	8.80	9.95	8.23	80.5	
P4810-02	VOC	2	1.15	8.82	9.97	8.65	85.0	
P4810-03	1	3	1.15	8.43	9.58	7.84	79.4	
P4810-04	2	4	1.16	8.80	9.96	8.41	82.4	
P4810-05	3	5	1.16	8.51	9.67	8.17	82.4	
P4810-06	4	6	1.15	8.82	9.97	8.46	82.9	
P4810-07	5	7	1.16	8.45	9.61	8.2	83.3	
P4820-01	CO-SIAC-20	8	1.18	8.42	9.6	9.41	97.7	
P4821-01	BP-F-24	9	1.19	8.57	9.76	8.77	88.4	
P4821-02	BP-F-24-EPH	10	1.15	8.52	9.67	8.62	87.7	
P4821-03	BP-F-24-VOC	11	1.12	8.76	9.88	8.83	88.0	
P4821-05	BP-F-2	12	1.16	8.51	9.67	8.7	88.6	
P4821-06	BP-F-2-EPH	13	1.15	8.81	9.96	9.28	92.3	
P4821-07	BP-F-2-VOC	14	1.12	8.75	9.87	8.77	87.4	
P4822-01	SOIL-1	18	1.16	8.48	9.64	9.14	94.1	
P4822-02	SOIL-1	19	1.15	8.50	9.65	9.00	92.4	
P4822-03	SOIL-2	20	1.18	8.57	9.75	9.05	91.8	
P4822-04	SOIL-2	21	1.15	8.74	9.89	8.99	89.7	
P4822-05	SOIL-3	22	1.13	8.39	9.52	8.89	92.5	
P4822-06	SOIL-3	23	1.16	8.69	9.85	9.1	91.4	
P4822-07	SOIL-4	24	1.17	8.50	9.67	9.12	93.5	
P4822-08	SOIL-4	25	1.14	8.62	9.76	9.15	92.9	
P4822-09	SOIL-5	26	1.11	8.77	9.88	8.91	88.9	
P4822-10	SOIL-5	27	1.16	8.63	9.79	9.06	91.5	
P4822-11	SOIL-6	28	1.17	8.60	9.77	8.71	87.7	
P4822-12	SOIL-6	29	1.13	8.70	9.83	9.07	91.3	
P4823-01	MH-4	15	1.15	8.64	9.79	8.86	89.2	
P4823-02	MH-4-EPH	16	1.17	8.54	9.71	8.88	90.3	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/13/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:45
In Date: 11/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 11/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133408

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
P4823-03	MH-4-VOC	17	1.17	8.58	9.75	8.72	88.0	

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

WORKLIST(Hardcopy Internal Chain)

YB133408

WorkList Name : %1-111224 **WorkList ID :** 185348 **Department :** Wet-Chemistry **Date :** 11-12-2024 08:02:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4810-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4810-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4820-01	CO-SIAC-20	Solid	Percent Solids	Cool 4 deg C	SCIA01	L11	11/11/2024	Chemtech -SO
P4821-01	BP-F-24	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/12/2024	Chemtech -SO
P4821-02	BP-F-24-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4821-03	BP-F-24-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4821-05	BP-F-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4821-06	BP-F-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4821-07	BP-F-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4822-01	SOIL-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/12/2024	Chemtech -SO
P4822-02	SOIL-1	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-03	SOIL-2	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-04	SOIL-2	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-05	SOIL-3	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-06	SOIL-3	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-07	SOIL-4	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO

Date/Time 11-12-24 1535

Raw Sample Received by: SB Wells

Raw Sample Relinquished by: RJ LEKI - Wells

Date/Time 11-12-24 1700

Raw Sample Received by: RJ LEKI - Wells

Raw Sample Relinquished by: SB Wells

WORKLIST(Hardcopy Internal Chain)

B133408

WorkList Name : %1-111224 **WorkList ID :** 185348 **Department :** Wet-Chemistry **Date :** 11-12-2024 08:02:13

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4822-08	SOIL-4	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-09	SOIL-5	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-10	SOIL-5	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-11	SOIL-6	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4822-12	SOIL-6	Solid	Percent Solids	Cool 4 deg C	BAPS03	L21	11/12/2024	Chemtech -SO
P4823-01	MH-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/12/2024	Chemtech -SO
P4823-02	MH-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/12/2024	Chemtech -SO
P4823-03	MH-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	11/12/2024	Chemtech -SO

Date/Time 11-12-24 15:35

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: RJ CEXT-(CEN)

Date/Time 11-12-24 17:00

Raw Sample Received by: RJ CEXT-(CEN)

Raw Sample Relinquished by: [illegible]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164943

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: RJ

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 11/13/2024

Extraction Start Time : 09:40

Extraction End Date : 11/13/2024

Extraction End Time : 15:55

Concentration By: EH

Supervisor By : rajesh

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

Standared 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	EP2557
Sand	N/A	E2865
Hexane	N/A	E3826
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/13/24	RP (Set Lab)	[illegible]
16:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164943

Analytical Method: MNJDEP-EPH-7 **Concentration Date:** 11/13/2024

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164943BL	PB164943BL	EPH	30.03	N/A	ritesh	Evelyn	2	E		U6-1
PB164943BS	PB164943BS	EPH	30.01	N/A	ritesh	Evelyn	2			2
PB164943BSD	PB164943BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
P4768-01	B-3-1	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
P4768-02	B-3-2	EPH	30.03	N/A	ritesh	Evelyn	2	E		5
P4768-03	B-3-3	EPH	30.02	N/A	ritesh	Evelyn	2	E		6
P4768-04	B-4	EPH	30.09	N/A	ritesh	Evelyn	2	E		U1-1
P4768-05	B-5	EPH	30.08	N/A	ritesh	Evelyn	2	E		2
P4768-06	B-6-2	EPH	30.03	N/A	ritesh	Evelyn	2	E		3
P4768-07	B-6-3	EPH	30.04	N/A	ritesh	Evelyn	2	E		4
P4768-07DUP	B-6-3DUP	EPH	30.06	N/A	ritesh	Evelyn	2	E		5
P4768-07MS	B-6-3MS	EPH	30.02	N/A	ritesh	Evelyn	2	E		6
P4768-07MSD	B-6-3MSD	EPH	30.07	N/A	ritesh	Evelyn	2	E		U5-1
P4822-01	SOIL-1	EPH	30.08	N/A	ritesh	Evelyn	2	E		2
P4822-03	SOIL-2	EPH	30.03	N/A	ritesh	Evelyn	2	E		3
P4822-05	SOIL-3	EPH	30.02	N/A	ritesh	Evelyn	2	E		4
P4822-07	SOIL-4	EPH	30.07	N/A	ritesh	Evelyn	2	E		5
P4822-09	SOIL-5	EPH	30.05	N/A	ritesh	Evelyn	2	E		6
P4822-11	SOIL-6	EPH	30.04	N/A	ritesh	Evelyn	2	E		U7-1

* **Extracts relinquished on the same date as received.**

11/13/24

3:40
164943

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4768N **WorkList ID :** 185380 **Department :** Extraction **Date :** 11-13-2024 08:19:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4768-01	B-3-1	Solid	EPH	Cool 4 deg C	JPCL01	L23	11/07/2024	NJEPH
P4768-02	B-3-2	Solid	EPH	Cool 4 deg C	JPCL01	L23	11/07/2024	NJEPH
P4768-03	B-3-3	Solid	EPH	Cool 4 deg C	JPCL01	L23	11/07/2024	NJEPH
P4768-04	B-4	Solid	EPH	Cool 4 deg C	JPCL01	L23	11/07/2024	NJEPH
P4768-05	B-5	Solid	EPH	Cool 4 deg C	JPCL01	L23	11/07/2024	NJEPH
P4768-06	B-6-2	Solid	EPH	Cool 4 deg C	JPCL01	L23	11/07/2024	NJEPH
P4768-07	B-6-3	Solid	EPH	Cool 4 deg C	JPCL01	L23	11/07/2024	NJEPH
P4822-01	SOIL-1	Solid	EPH	Cool 4 deg C	BAPS03	L21	11/12/2024	NJEPH
P4822-03	SOIL-2	Solid	EPH	Cool 4 deg C	BAPS03	L21	11/12/2024	NJEPH
P4822-05	SOIL-3	Solid	EPH	Cool 4 deg C	BAPS03	L21	11/12/2024	NJEPH
P4822-07	SOIL-4	Solid	EPH	Cool 4 deg C	BAPS03	L21	11/12/2024	NJEPH
P4822-09	SOIL-5	Solid	EPH	Cool 4 deg C	BAPS03	L21	11/12/2024	NJEPH
P4822-11	SOIL-6	Solid	EPH	Cool 4 deg C	BAPS03	L21	11/12/2024	NJEPH

Date/Time 11/13/24 9:35
Raw Sample Received by: RJ CH LW
Raw Sample Relinquished by: CH SM

Date/Time 11/13/24 10:05
Raw Sample Received by: CH SM
Raw Sample Relinquished by: RJ CH LW

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Prep Standard - Chemical Standard Summary

Order ID : P4822

Test : EPH

Prepbatch ID : PB164943,

Sequence ID/Qc Batch ID: FC111324AL,FD111324AR,FE111324AL,FF111324AR,

Standard ID :
EP2538,EP2557,PP23429,PP23430,PP23519,PP23520,PP23521,PP23522,PP23523,PP23644,PP23645,PP23646,PP23647,PP23648,PP23649,PP23650,PP23916,PP23927,PP23934,

Chemical ID :
E2865,E3551,E3743,E3757,E3768,E3789,E3793,E3794,E3818,E3819,E3826,P10259,P 11137,P12362,P12972,P12979,P13004,P13005,P13017,P13023,P13024,P13025,P13046,P13049,P13051,P13098,P13100,P13101,P13102,P13258,P13259,P13267,P13270,P13278,P13299,P13423,P13427,P13461,P13462,P13625,P13626,P13627,P13645,P13718,P13719,P13720,P13721,P13722,P13723,P13724,P13725,P13726,P13727,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2557	11/10/2024	01/03/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Rajesh Parikh 11/10/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
782	100 PPM Aromatic HC Working STD	PP23429	05/21/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 05/24/2024

FROM 0.25000ml of P13004 + 0.62500ml of P13259 + 1.25000ml of P10259 + 22.87500ml of E3743 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2945	100 PPM Aromatic HC Working STD (Absolute)	PP23430	05/21/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 05/24/2024

FROM 0.25000ml of P13005 + 0.62500ml of P13258 + 1.25000ml of P11137 + 22.87500ml of E3743 = Final Quantity: 25.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
787	50 PPM Aromatic HC STD	PP23519	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.50000ml of E3768 + 0.50000ml of PP23429 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
788	20 PPM Aromatic HC STD	PP23520	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.80000ml of E3768 + 0.20000ml of PP23429 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
789	10 PPM Aromatic HC STD	PP23521	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.90000ml of E3768 + 0.10000ml of PP23429 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
790	5 PPM Aromatic HC STD	PP23522	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.90000ml of E3768 + 0.10000ml of PP23519 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2946	20 PPM Aromatic HC STD ICV (Absolute)	PP23523	07/15/2024	11/16/2024	Yogesh Patel	None	None	Ankita Jodhani 07/16/2024

FROM 0.80000ml of E3768 + 0.20000ml of PP23430 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2901	20 PPM Aliphaitic 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

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1331	100 PPM NJEPH Fractionating Surrogate	PP23927	10/29/2024	04/15/2025	Yogesh Patel	None	None	Ankita Jodhani 10/30/2024

FROM 1.25000ml of P13267 + 1.25000ml of P13270 + 1.25000ml of P13461 + 1.25000ml of P13462 + 195.00000ml of E3819 = Final Quantity: 200.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1339	100 PPM NJEPH Surrogate Spike	PP23934	10/30/2024	04/23/2025	Yogesh Patel	None	None	Ankita Jodhani 11/04/2024

FROM 1.25000ml of P12979 + 1.25000ml of P13023 + 1.25000ml of P13024 + 1.25000ml of P13025 + 1.25000ml of P13046 + 1.25000ml of P13049 + 1.25000ml of P13051 + 1.25000ml of P13645 + 490.00000ml of E3818 = Final Quantity: 500.000 ml

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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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/16/2024	05/16/2024 / Rajesh	04/26/2024 / Rajesh	E3743

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
phenomenex	SI500025-30 / Cleanert SPE Silica, 5000 mg/25 ml	Z0513CK1	03/04/2025	09/04/2024 / Rajesh	04/03/2024 / Rajesh	E3757

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)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

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

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CHEMICAL RECEIPT LOG BOOK

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

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	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30541 / Custom NJEPH Aromatics Calibration Standard	A0165529	11/21/2024	05/21/2024 / yogesh	01/26/2021 / dhaval	P10259

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95709 / NJ EPH Aromatic Hydrocarbons, 2000 PPM	060420	07/08/2024	01/08/2024 / yogesh	10/29/2021 / Abdul	P11137

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	11/21/2024	05/21/2024 / yogesh	12/21/2023 / Yogesh	P13004

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	11/21/2024	05/21/2024 / yogesh	12/21/2023 / Yogesh	P13005

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/09/2025	09/09/2024 / yogesh	12/21/2023 / Yogesh	P13017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13051

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	11/21/2024	05/21/2024 / yogesh	02/20/2024 / yogesh	P13258

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0206496	11/21/2024	05/21/2024 / yogesh	02/20/2024 / yogesh	P13259

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

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

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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

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

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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

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

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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

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

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CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.

DD
06/17/2021

Catalog No. : 30541 **Lot No.:** A0172403

Description : NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

P10758 to P10762 -(5)

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

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2,3-Trimethylbenzene **CAS #** 526-73-8 (Lot 8776.10-36) **Purity** 98%	2,010.0 µg/mL	+/- 11.7957 µg/mL +/- 90.5449 µg/mL +/- 100.4678 µg/mL	Gravimetric Unstressed Stressed
2	Naphthalene **CAS #** 91-20-3 (Lot MKBZ8680V) **Purity** 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL +/- 90.3656 µg/mL +/- 100.2689 µg/mL	Gravimetric Unstressed Stressed
3	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBG8884) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 90.4557 µg/mL +/- 100.3688 µg/mL	Gravimetric Unstressed Stressed
4	Acenaphthylene **CAS #** 208-96-8 (Lot N19U) **Purity** 95%	2,002.6 µg/mL	+/- 11.7524 µg/mL +/- 90.2125 µg/mL +/- 100.0989 µg/mL	Gravimetric Unstressed Stressed
5	Acenaphthene **CAS #** 83-32-9 (Lot MKCN0610) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 90.0953 µg/mL +/- 99.9689 µg/mL	Gravimetric Unstressed Stressed
6	Fluorene **CAS #** 86-73-7 (Lot 10217947) **Purity** 99%	2,016.0 µg/mL	+/- 11.8310 µg/mL +/- 90.8161 µg/mL +/- 100.7687 µg/mL	Gravimetric Unstressed Stressed
7	Phenanthrene **CAS #** 85-01-8 (Lot MKCL7390) **Purity** 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL +/- 90.6359 µg/mL +/- 100.5688 µg/mL	Gravimetric Unstressed Stressed

8	Anthracene		2,002.0	µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKCM0015)			+/-	90.1854	µg/mL	Unstressed
	Purity 99%				+/-	100.0689	µg/mL	Stressed
9	Fluoranthene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKCF7378)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed
10	Pyrene		2,011.0	µg/mL	+/-	11.8017	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCCB9880)			+/-	90.5909	µg/mL	Unstressed
	Purity 99%				+/-	100.5188	µg/mL	Stressed
11	Benz(a)anthracene		2,011.0	µg/mL	+/-	11.8014	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot P0022018-0505)			+/-	90.5890	µg/mL	Unstressed
	Purity 98%				+/-	100.5168	µg/mL	Stressed
12	Chrysene		2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot STBJ8094)			+/-	90.0953	µg/mL	Unstressed
	Purity 99%				+/-	99.9689	µg/mL	Stressed
13	Benzo(b)fluoranthene		2,006.0	µg/mL	+/-	11.7721	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot 012012B)			+/-	90.3638	µg/mL	Unstressed
	Purity 97%				+/-	100.2669	µg/mL	Stressed
14	Benzo(k)fluoranthene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot 012019K)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
15	Benzo(a)pyrene		2,004.0	µg/mL	+/-	11.7606	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot RP210113)			+/-	90.2755	µg/mL	Unstressed
	Purity 99%				+/-	100.1689	µg/mL	Stressed
16	Indeno(1,2,3-cd)pyrene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot 1-RAK-33-4)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
17	Dibenz(a,h)anthracene		2,017.0	µg/mL	+/-	11.8369	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	90.8611	µg/mL	Unstressed
	Purity 99%				+/-	100.8187	µg/mL	Stressed
18	Benzo(g,h,i)perylene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot 8GFYJ)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed

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

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

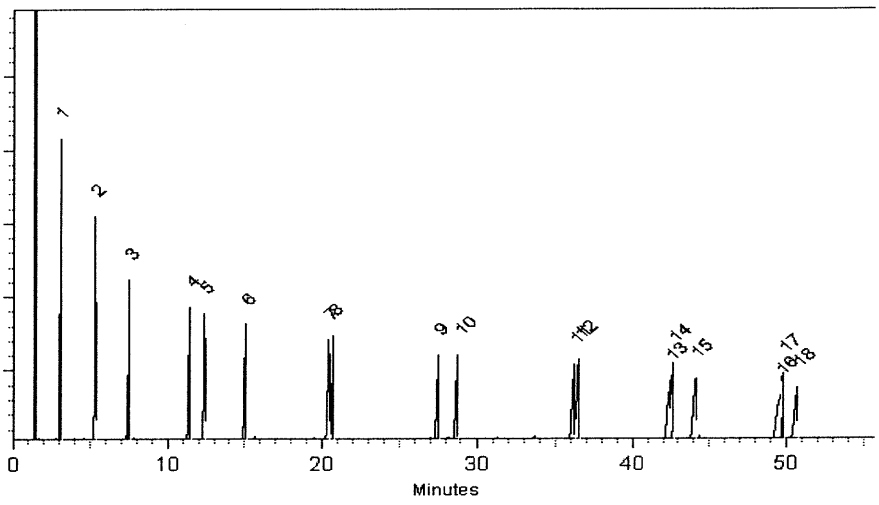
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



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.

Lane Kibe - Mix Technician **Date Mixed:** 14-May-2021 **Balance:** B345965662

Alexis Shelow - Operations Tech I **Date Passed:** 18-May-2021

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:

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

  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.

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

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	<= 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

James T Ethier

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

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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_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.B

Material No.: 926
Batch No.: 24C01E
Manufactured Date: 2024-C
Expiration Date: 2025-C
Revision I

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	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3743

Ken Koehnlein
Sr. Manager, Quality Assurance

Cleanert EPH
5g/25ml 15/pkg
固相萃取产品
LOT#:Z0513CK1
MFG#:F04005
Made in China
CAT# SI500025-30
Agela Technologies
E3757

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
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	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
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

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.B

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_2SO_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

E3789

JCroak

Jamie Croak
Director Quality Operations, Bioscience Product

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™ | J.T.Baker®

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 ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.5	0.1
Water (H_2O)	≤ 0.5 %	0.1 %
Solubility in H_2O	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

avantor™ | J.T.Baker®

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

avantor™ | J.T.Baker®

Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result

For Microelectronic Use

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

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 ($(CH_3)_2CO$) (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
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 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

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

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

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

avantor™ | J.T.Baker®

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_2SO_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

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

avantor™ | J.T.Baker®

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_2SO_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

E3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95709
Lot Number: 060420
Description: NJ EPH Aromatic Hydrocarbons
18 components
Expiration Date: 060425
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060

Solvent(s):	Lot#
Methylene chloride	104929

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 500.0 0.058 Flask Uncertainty

Formulated By: Benson Chan	060420 DATE
Reviewed By: Pedro L. Rentas	060420 DATE

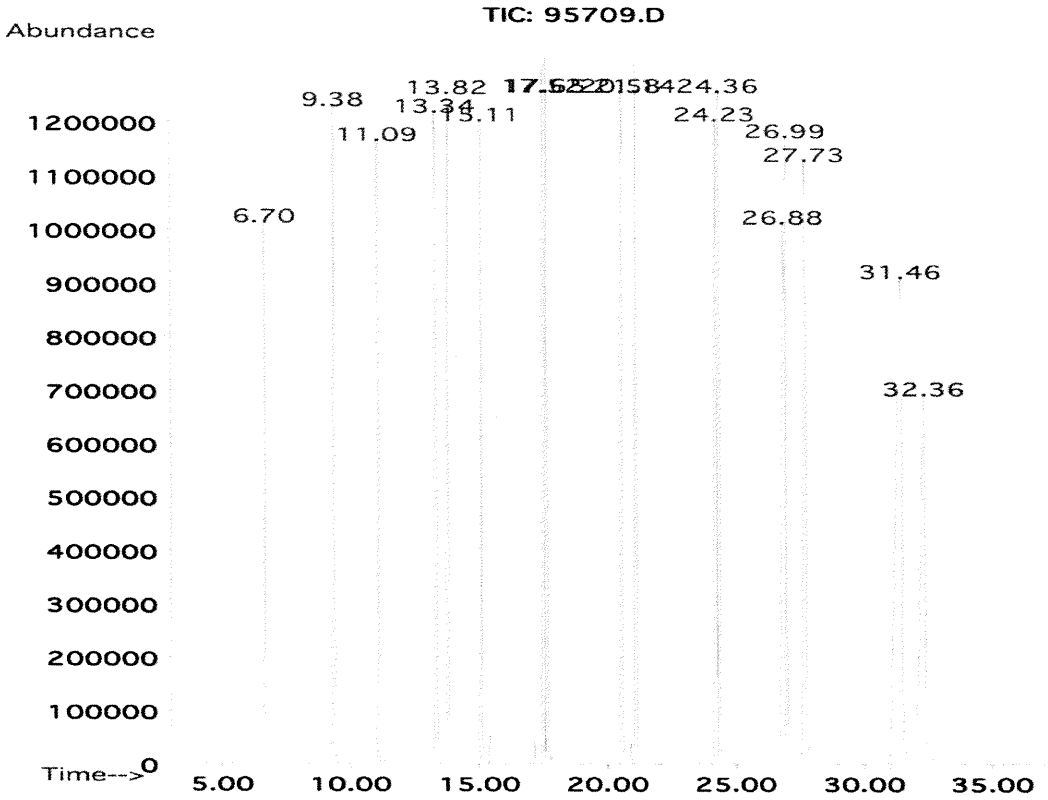
	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acenaphthene	1	MKBJ4871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ipr-rat 600mg/kg
2.	Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-8	N/A	N/A
3.	Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4.	Benzo(a)anthracene	28	JY2TD-JT	2000	98	0.2	1.02033	1.02051	2000.3	8.2	56-55-3	N/A	N/A
5.	Benzo(a)pyrene	30	012012	2000	99.5	0.2	1.00495	1.00511	2000.3	8.1	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6.	Benzo(b)fluoranthene	31	012012b	2000	99	0.2	1.01003	1.01012	2000.2	8.1	205-99-2	N/A	N/A
7.	Benzo(k)fluoranthene	33	012012k	2000	99	0.2	1.01003	1.01018	2000.3	8.1	207-08-9	N/A	N/A
8.	Benzo(g,h,i)perylene	32	012018	2000	99	0.2	1.01003	1.01019	2000.3	8.1	191-24-2	N/A	N/A
9.	Chrysene	91	012015	2000	98	0.2	1.02033	1.02040	2000.1	8.2	218-01-9	0.2mg/m3	N/A
10.	Dibenzo(a,h)anthracene	112	012011	2000	98	0.2	1.02033	1.02050	2000.3	8.2	53-70-3	0.2mg/m3	N/A
11.	Fluoranthene	183	04221PV	2000	98	0.2	1.02033	1.02050	2000.3	8.2	206-44-0	N/A	orl-rat 2000mg/kg
12.	Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ipr-mus 2 g/kg
13.	Indeno(1,2,3-cd)pyrene	202	012014	2000	99.9	0.2	1.00093	1.00119	2000.5	8.0	193-39-5	N/A	N/A
14.	2-Methylnaphthalene	214	MKBF3783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	orl-rat 1630mg/kg
15.	Naphthalene	222	MKBZ8680V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16.	Phenanthrene	248	03410PV	2000	99	0.2	1.01003	1.01030	2000.5	8.1	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17.	Pyrene	259	010197	2000	98	0.2	1.02033	1.02042	2000.2	8.2	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18.	1,2,3-Trimethylbenzene	944	031097	2000	99	0.2	1.01003	1.01025	2000.4	8.1	526-73-8	N/A	N/A

P11137
&
P11141

AR 11/02/21

- 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 certifed (+/-) 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).

Method GC8MSD-2.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



Peak No.	Name	MSD RT (min.)
1	1,2,3-Trimethylbenzene	6.70
2	Naphthalene	9.38
3	2-Methylnaphthalene	11.09
4	Acenaphthylene	13.34
5	Acenaphthene	13.82
6	Fluorene	15.11
7	Phenanthrene	17.52
8	Anthracene	17.65
9	Fluoranthene	20.58
10	Pyrene	21.14
11	Chrysene	24.23
12	Benzo(a)anthracene	24.36
13	Benzo(b)fluoranthene/Benzo(k)fluoranthene	26.98
14	Benzo(a)pyrene	27.73
15	Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	31.46
16	Benzo(g,h,i)perylene	32.36

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.

P12361 ↓ P12370 } Y.P. 03/16/23

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) **CAS #** 111-84-2 (Lot SHBN5361) **Purity** 99%	2,014.0 µg/mL	+/- 11.8193 µg/mL +/- 50.0027 µg/mL +/- 59.9491 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	2,014.7 µg/mL	+/- 11.8232 µg/mL +/- 50.0193 µg/mL +/- 59.9689 µg/mL	Gravimetric Unstressed Stressed
3	Naphthalene **CAS #** 91-20-3 (Lot MKCH0219) **Purity** 99%	2,015.3 µg/mL	+/- 11.8271 µg/mL +/- 50.0358 µg/mL +/- 59.9888 µg/mL	Gravimetric Unstressed Stressed
4	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 49.8538 µg/mL +/- 59.7705 µg/mL	Gravimetric Unstressed Stressed
5	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBK0259) **Purity** 96%	2,007.0 µg/mL	+/- 11.7784 µg/mL +/- 49.8299 µg/mL +/- 59.7419 µg/mL	Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	2,016.7 µg/mL	+/- 11.8349 µg/mL +/- 50.0689 µg/mL +/- 60.0284 µg/mL	Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	2,014.9 µg/mL	+/- 11.8244 µg/mL +/- 50.0246 µg/mL +/- 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 +/- 49.7710 +/- 59.6712	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Eicosane (C20) **CAS #** 112-95-8 **Purity** 99%	(Lot MKCF7888)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Heneicosane (C21) **CAS #** 629-94-7 **Purity** 99%	(Lot MKCL3226)	2,000.7	µg/mL	+/- 11.7410 +/- 49.6717 +/- 59.5522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCL8918)	2,005.3	µg/mL	+/- 11.7684 +/- 49.7876 +/- 59.6911	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Tetracosane (C24) **CAS #** 646-31-1 **Purity** 99%	(Lot MKCN2863)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexacosane (C26) **CAS #** 630-01-3 **Purity** 99%	(Lot MKCD4540)	2,014.0	µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Octacosane (C28) **CAS #** 630-02-4 **Purity** 99%	(Lot BCCG0084)	2,002.0	µg/mL	+/- 11.7489 +/- 49.7048 +/- 59.5919	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Triacontane (C30) **CAS #** 638-68-6 **Purity** 97%	(Lot MKCQ9436)	2,011.1	µg/mL	+/- 11.8025 +/- 49.9316 +/- 59.8637	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Dotriacontane (C32) **CAS #** 544-85-4 **Purity** 99%	(Lot BCBW0661)	2,012.0	µg/mL	+/- 11.8075 +/- 49.9531 +/- 59.8895	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetratriacontane (C34) **CAS #** 14167-59-0 **Purity** 99%	(Lot OML4N)	2,006.7	µg/mL	+/- 11.7762 +/- 49.8207 +/- 59.7308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	n-Hexatriacontane (C36) **CAS #** 630-06-8 **Purity** 99%	(Lot Z27H018)	2,017.3	µg/mL	+/- 11.8388 +/- 50.0855 +/- 60.0483	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	n-Octatriacontane (C38) **CAS #** 7194-85-6 **Purity** 96%	(Lot 0000145137)	2,017.3	µg/mL	+/- 11.8385 +/- 50.0842 +/- 60.0467	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	n-Tetracontane (C40) **CAS #** 4181-95-7 **Purity** 99%	(Lot BSBME)	2,008.7	µg/mL	+/- 11.7880 +/- 49.8703 +/- 59.7903	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane/Carbon disulfide (80:20)
CAS # 110-54-3/75-15-0
Purity 99%

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

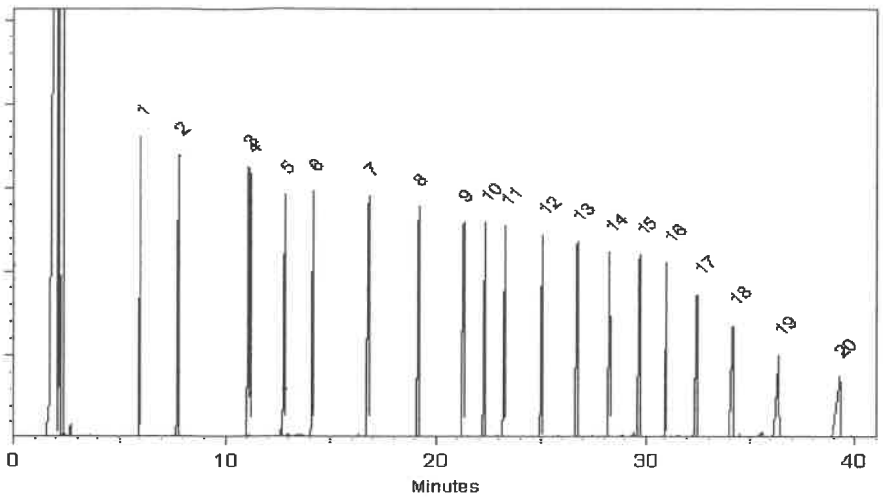
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



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:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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P12960 & P12991 Y.P. 12/21/2023

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

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

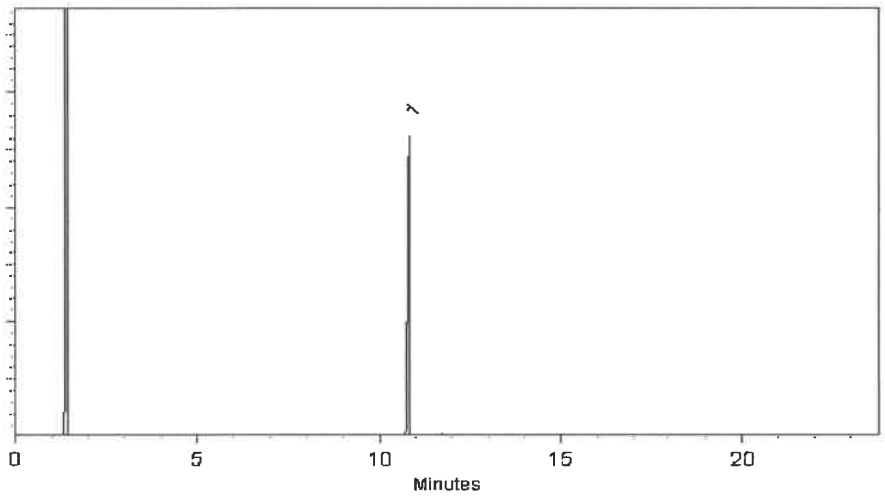
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  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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P12960 & P12991 Y.P. 12/21/2023

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

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

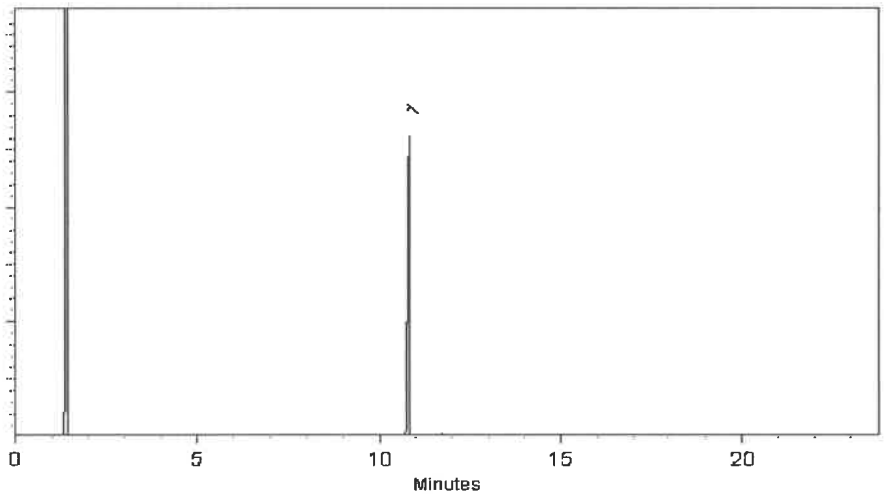
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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%.
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Manufacturing Notes:

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Handling Notes:

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P12992 ↓ P13031 } Y.P. 12/21/2023

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

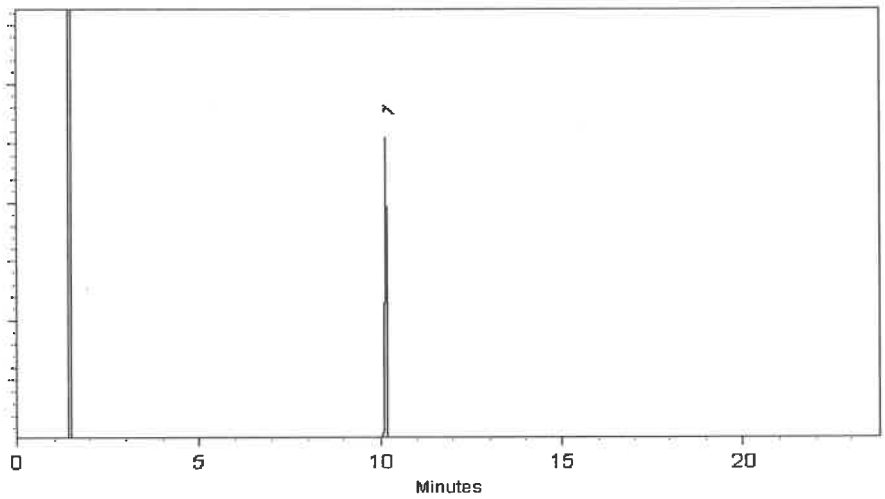
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan 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:

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Purity Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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P12992 ↓ P13031 } Y.P. 12/21/2023

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

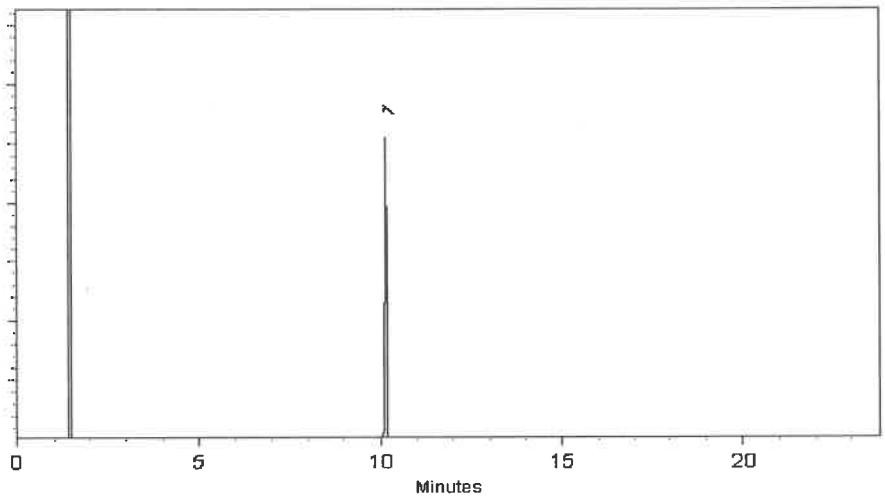
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan 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:

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P12992 ↓ P13031 } Y.P. 12/21/2023

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

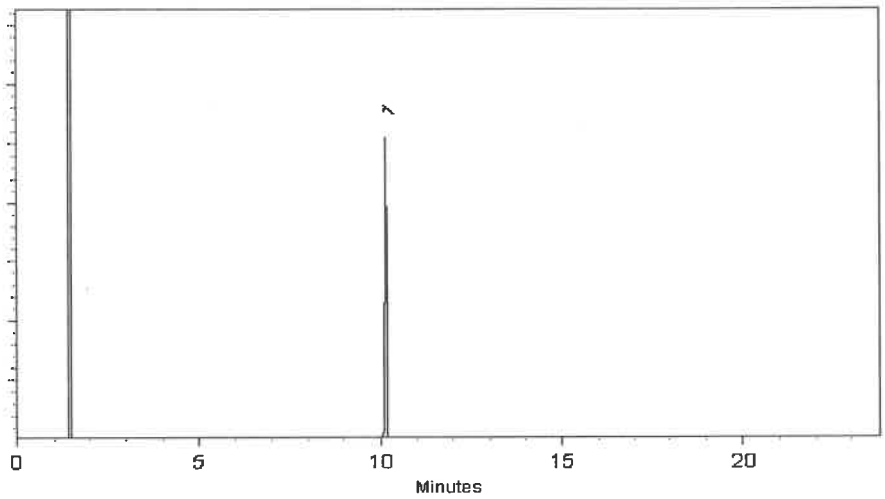
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan 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:

- 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:

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

  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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P12992 ↓ P13031 } Y.P. 12/21/2023

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

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

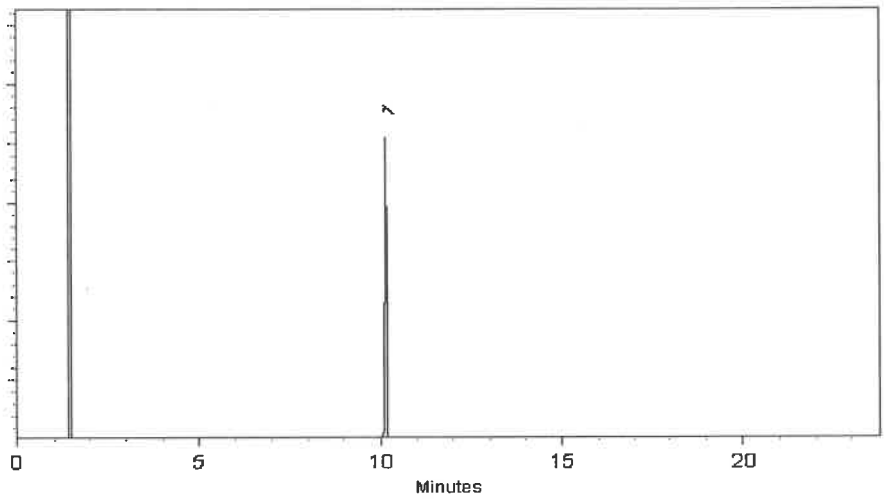
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

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

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

Manufacturing Notes:

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Handling Notes:

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P12992 ↓ P13031 } Y.P. 12/21/2023

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

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

* 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:
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@ 20°C/min. (hold 10 min.)

Inj. Temp:
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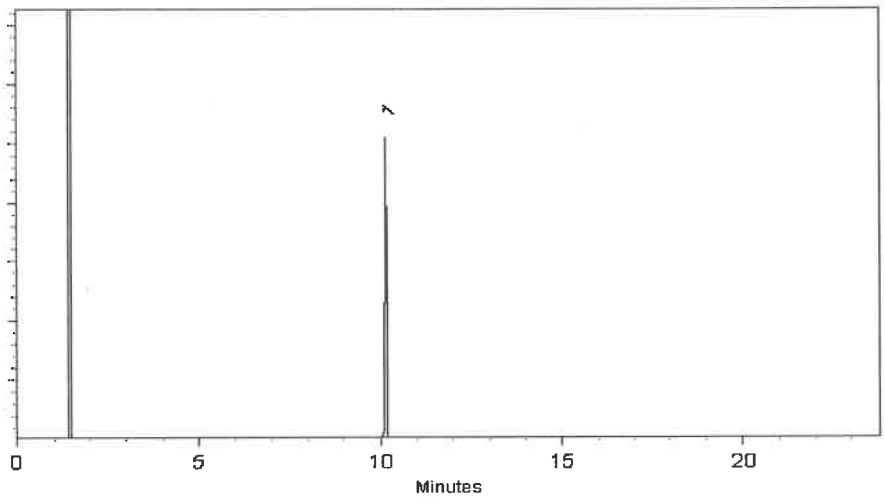
Det. Temp:
330°C

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

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

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

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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

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Solvent: Methylene chloride
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Purity 99%

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@ 20°C/min. (hold 10 min.)

Inj. Temp:
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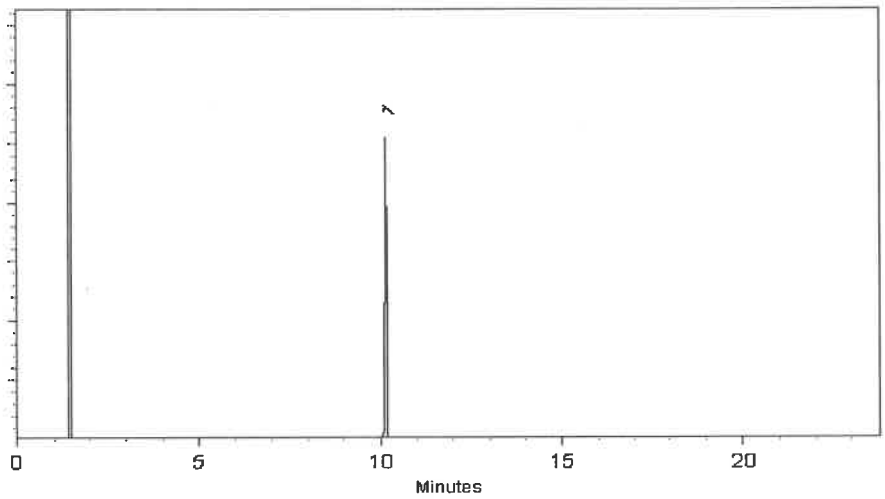
Det. Temp:
330°C

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

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-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.

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Catalog No. : 31098 **Lot No.:** A0200707

P13044 & P13051 Y.P. 12/26/23

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

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.)

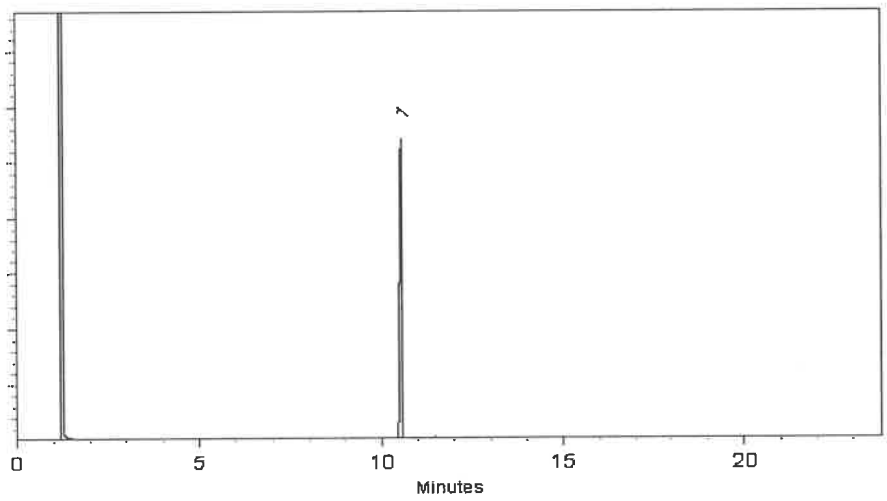
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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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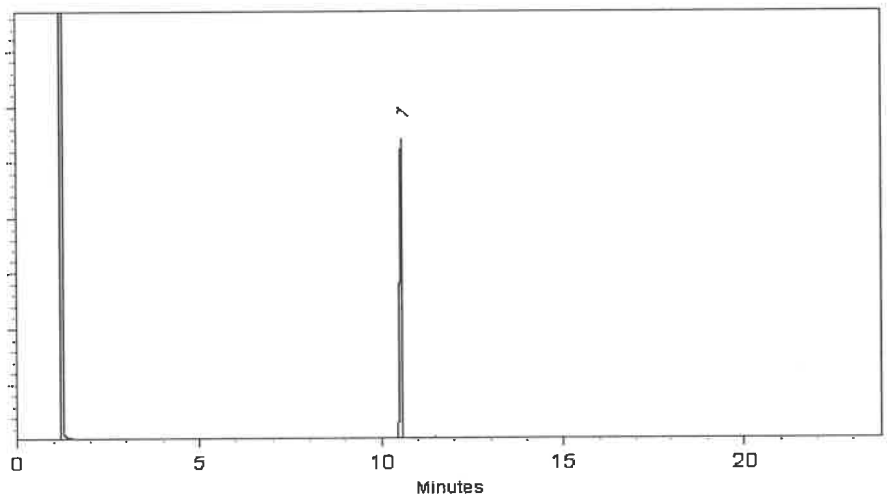

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1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

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

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Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Solvent: Methylene chloride
CAS # 75-09-2
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30m x 0.25mm x 0.25µm
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Det. Type:
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Split Vent:
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Inj. Vol
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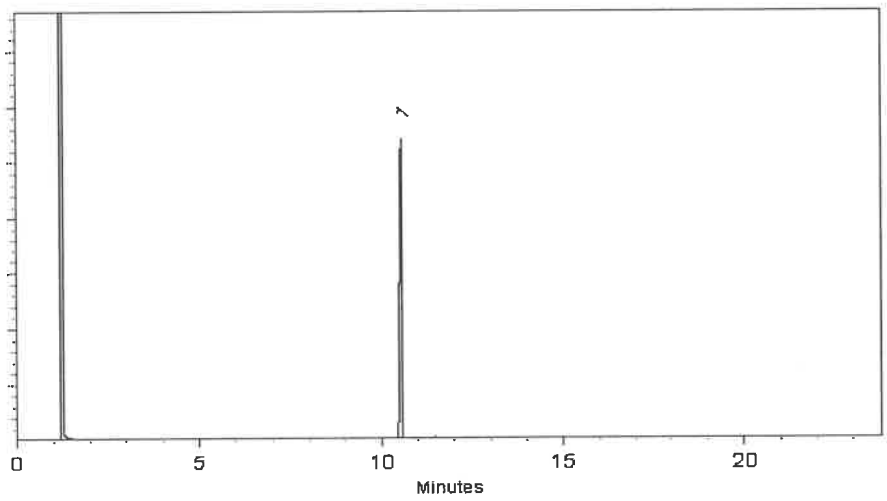

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P13053 ↓ P13099 } Y.P. 01/12/24

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

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-Henicosane (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

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	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.)

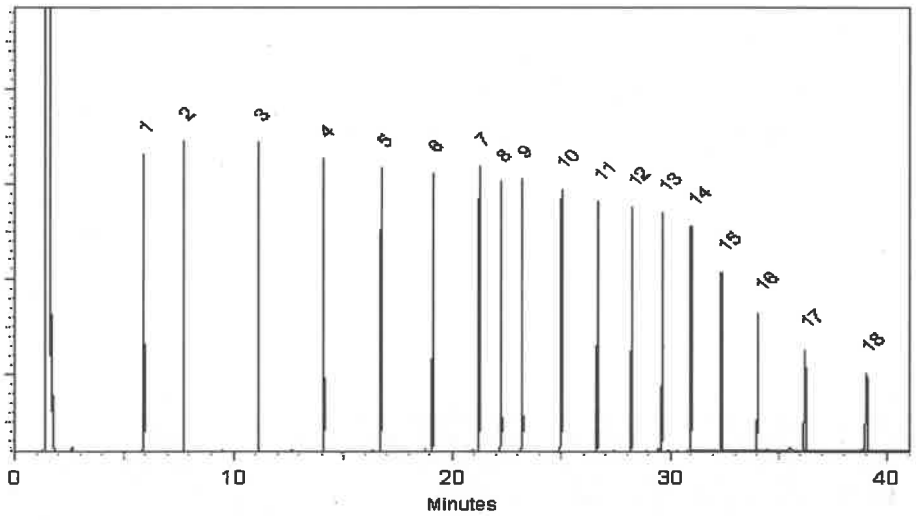
Inj. Temp:
250°C

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/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:

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

  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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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 & P13102 Y.P. 01/02/24

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

18	n-Tetracontane (C40)	4181-95-7	4LJYN	98%	200.6 µg/mL	+/-	5.1815

* 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.)

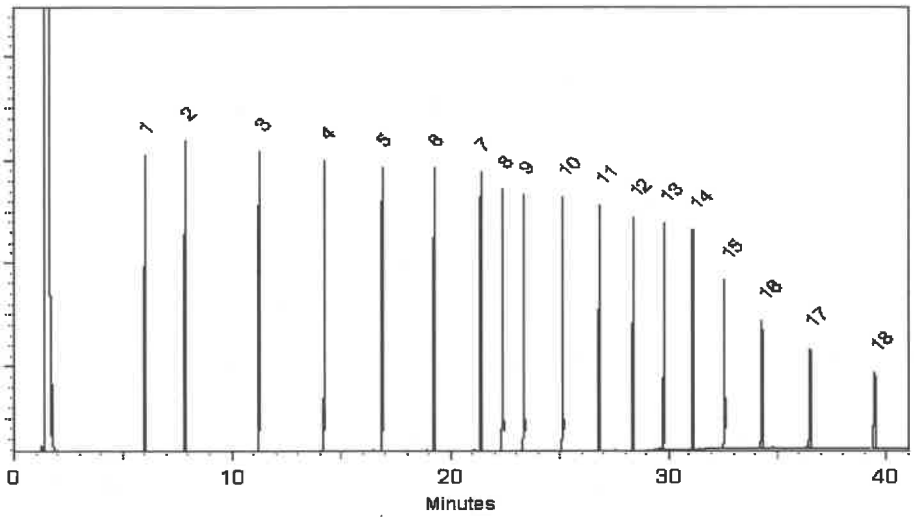
Inj. Temp:
250°C

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:

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

  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

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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 & P13102 Y.P. 01/02/24

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

18	n-Tetracontane (C40)	4181-95-7	4LJYN	98%	200.6 µg/mL	+/-	5.1815

* 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.)

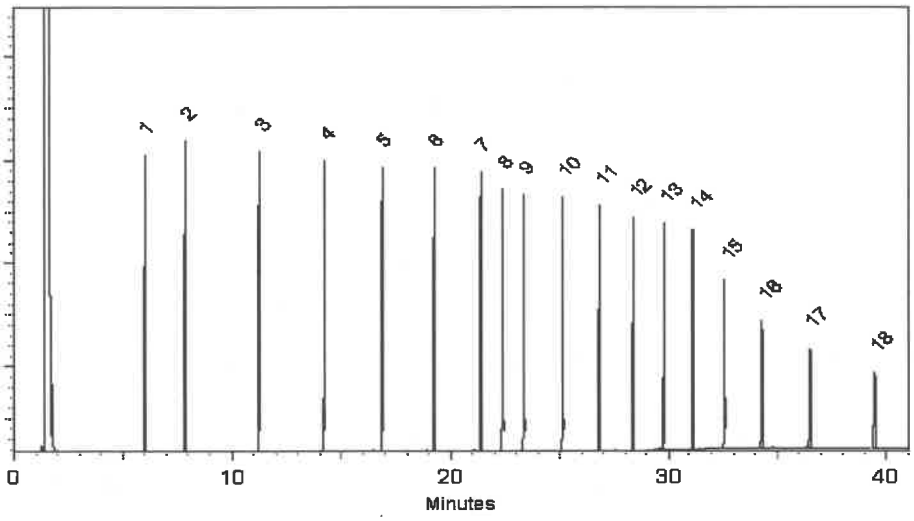
Inj. Temp:
250°C

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:

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

  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

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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 & P13102 Y.P. 01/02/24

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

18	n-Tetracontane (C40)	4181-95-7	4LJYN	98%	200.6 µg/mL	+/-	5.1815

* 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.)

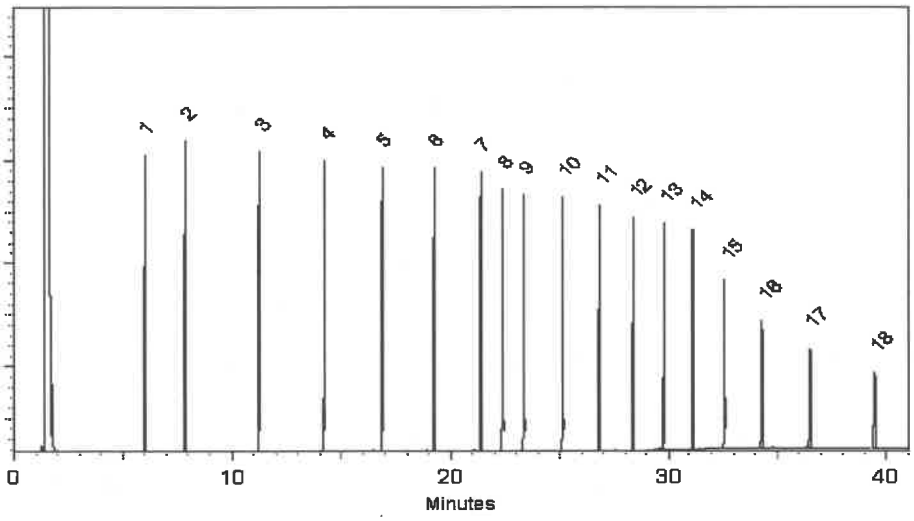
Inj. Temp:
250°C

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:

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

  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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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

P13258 ↓ P13277 } Y.P. 02/20/24

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

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.)

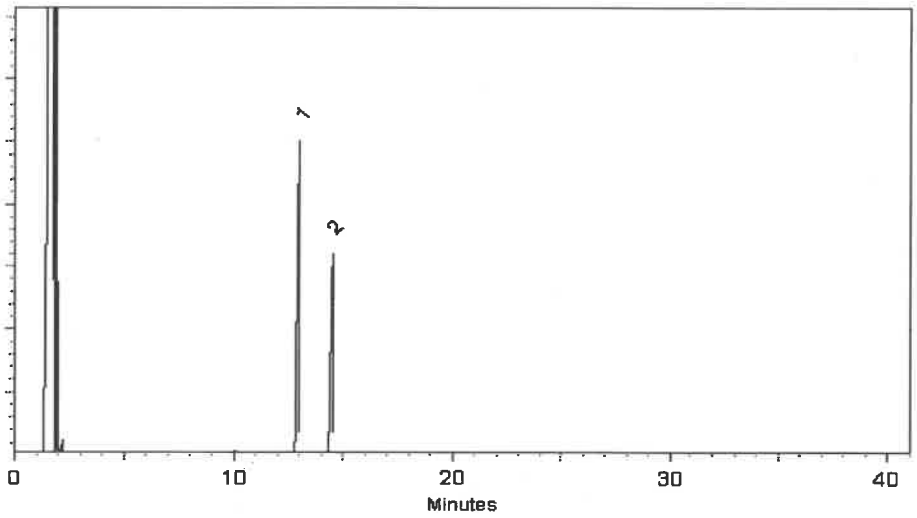
Inj. Temp:
250°C

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 - Operations Tech II

Date Mixed: 11-Jan-2024 **Balance Serial #** B345965662

Dillan 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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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Catalog No. : 31480 **Lot No.:** A0206496

P13258 ↓ P13277 } Y.P. 02/20/24

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

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.)

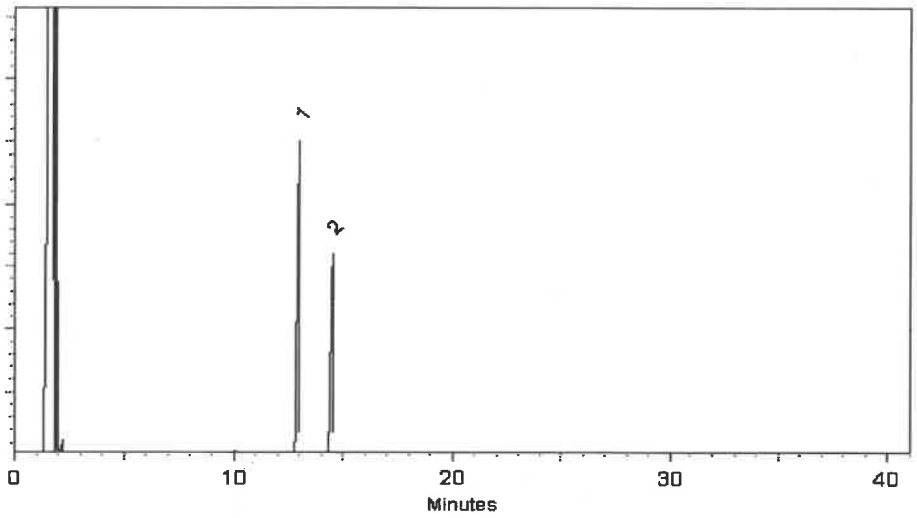
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 11-Jan-2024 **Balance Serial #** B345965662

Dillan 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.
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Certified Uncertainty Value Notes:

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

  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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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

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

Inj. Temp:
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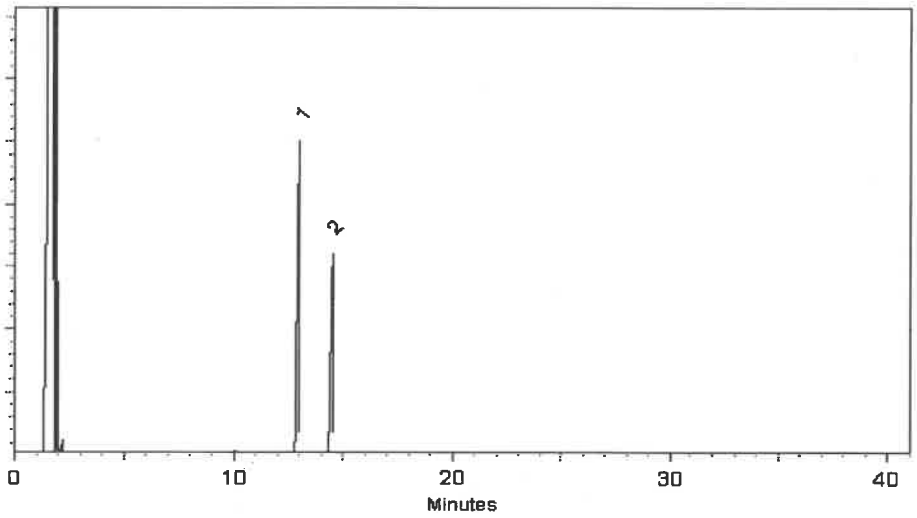
Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 11-Jan-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 15-Jan-2024

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

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Manufacturing Notes:

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Handling Notes:

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@ 10°C/min. (hold 10 min.)

Inj. Temp:
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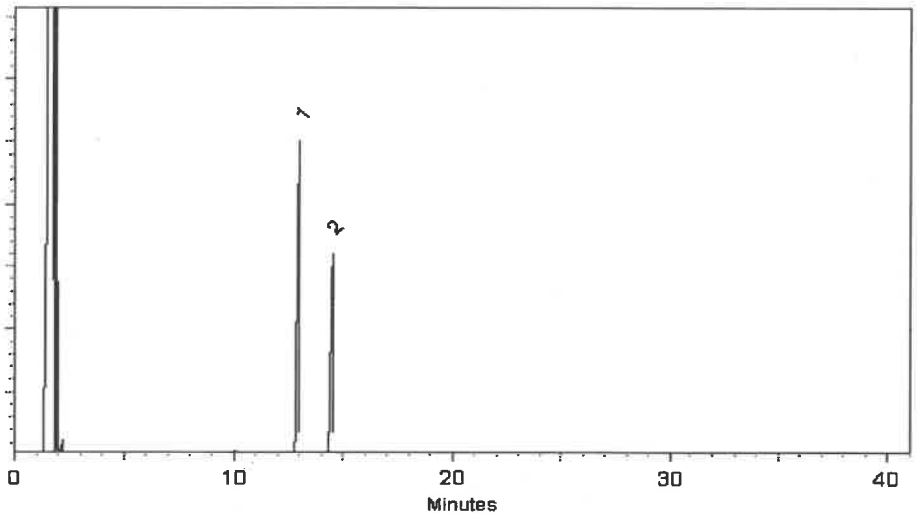
Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 11-Jan-2024 **Balance Serial #** B345965662

Dillan 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

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Manufacturing Notes:

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Handling Notes:

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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95899
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

Solvent(s):	Lot#
Cyclohexane	28930

P13278 & P13287 } Y.P. 04111124

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

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.001 Flask Uncertainty
CAUTION: Sonicate Before Use

	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	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	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	orl-rat 1630mg/kg
2.	Naphthalene	(0222)	MKBZ8680V	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m3/8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	**120222**	1.00	25.00	1000.9	1000	NA	NA	0.013	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	NA	NA	0.013	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	593-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Heneicosane	95708	120222	1.00	25.00	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1000	NA	NA	0.013	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	NA	NA	0.013	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	NA	NA	0.013	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetratriacontane	95708	120222	1.00	25.00	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-06-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7194-85-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	NA	NA	0.013	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

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

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Catalog No. : 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 → P13317 Y.P. 04/23/24

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

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.3 µg/mL	+/- 5.1753

* 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.)

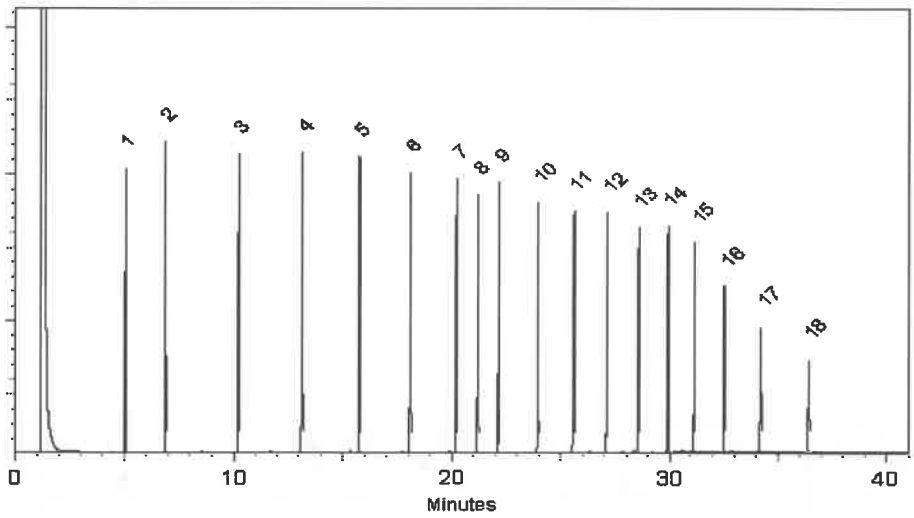
Inj. Temp:
250°C

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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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Certificate #3222.02

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 & P13h29 } Y.P. 07116124.

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

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.3 µg/mL	+/-	5.1753

* 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.)

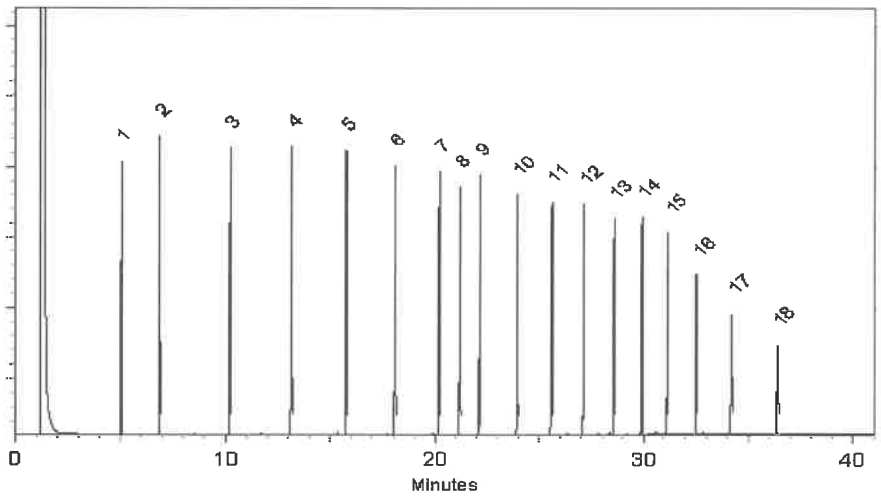
Inj. Temp:
250°C

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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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 & P13h29 } Y.P. 07116124.

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

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.3 µg/mL	+/-	5.1753

* 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.)

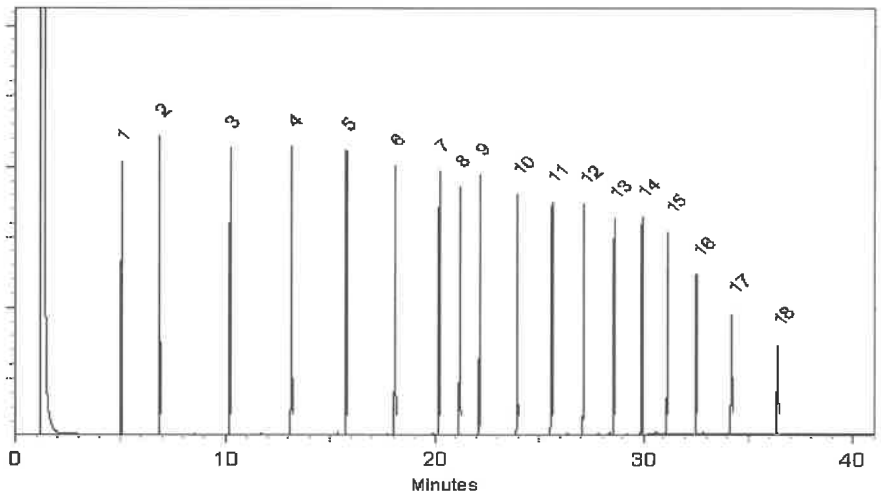
Inj. Temp:
250°C

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:

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

  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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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P13457 ↓ P13476 Y.P. 07/23/24

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.)

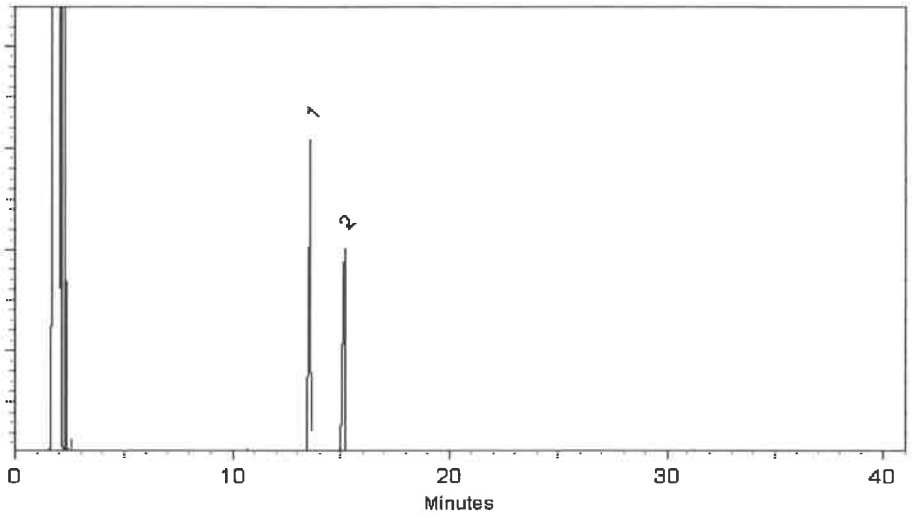
Inj. Temp:
250°C

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:

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

  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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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P13457 ↓ P13476 Y.P. 07/23/24

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.)

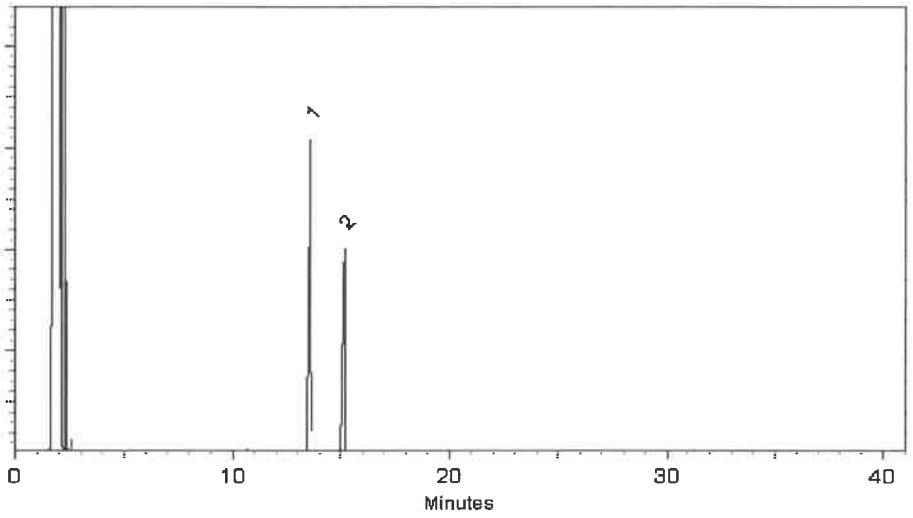
Inj. Temp:
250°C

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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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Certificate #3222.02

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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

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/- 5.1805

* 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.)

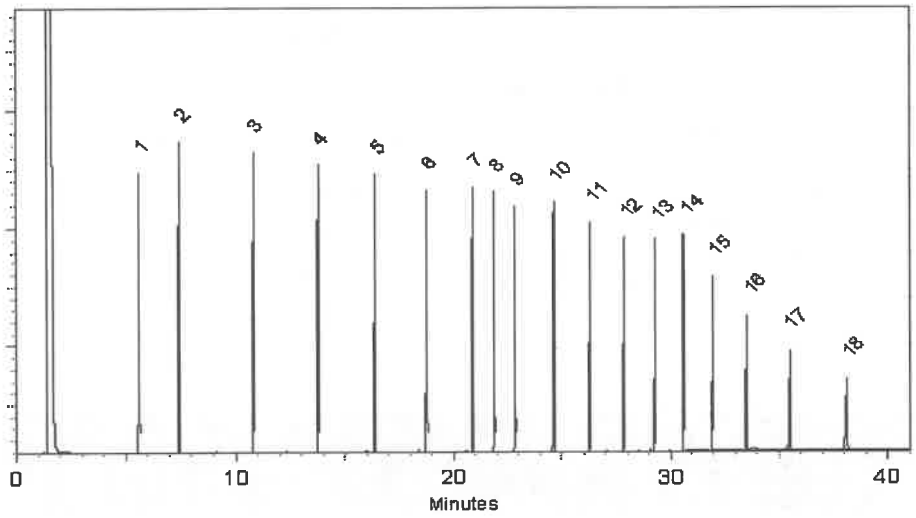
Inj. Temp:
250°C

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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/- 5.1805

* 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.)

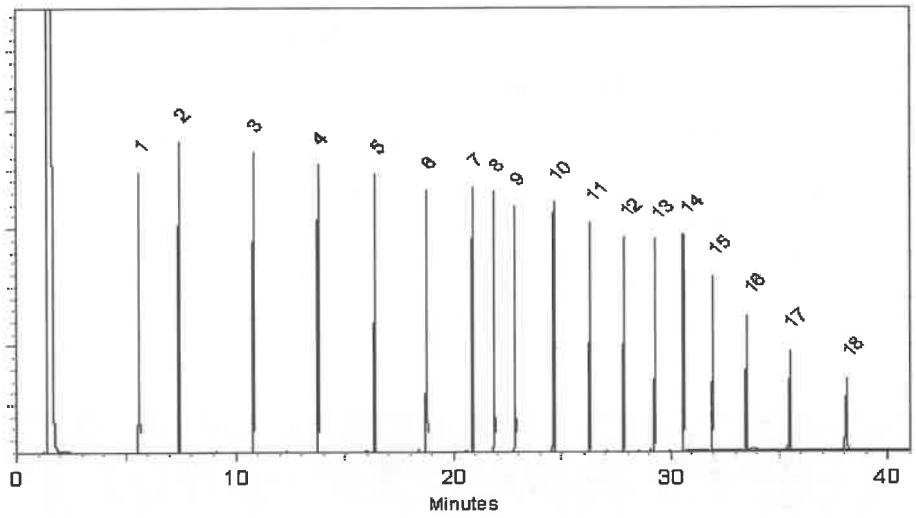
Inj. Temp:
250°C

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:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.02

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.:** 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

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/- 5.1805

* 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.)

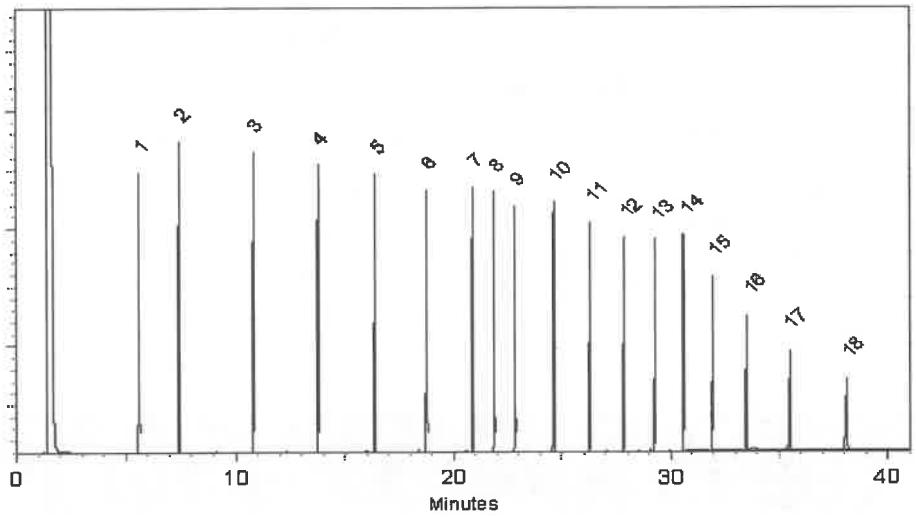
Inj. Temp:
250°C

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:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

Certificate of Analysis

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ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

P13645 ↓ P13694 } Y.P. 10/16/24

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

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

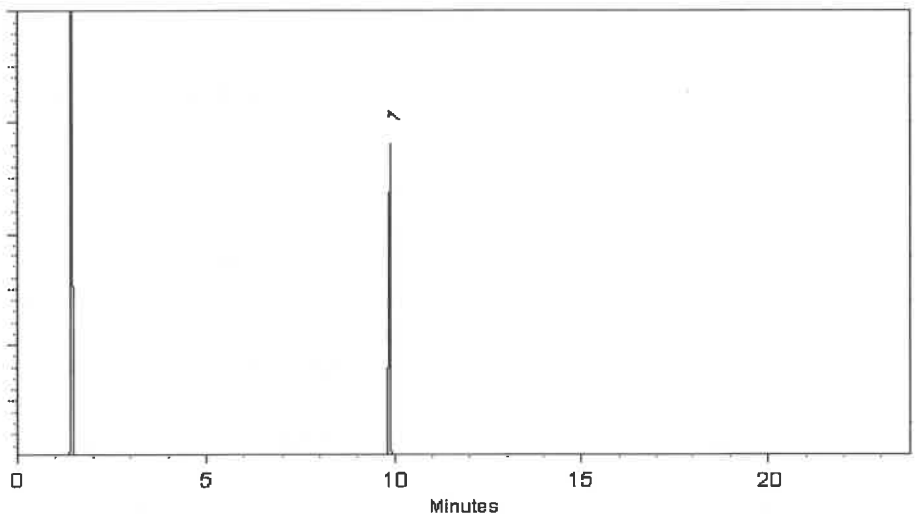
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

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

  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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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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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

P13717 ↓ P13727 Y.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	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

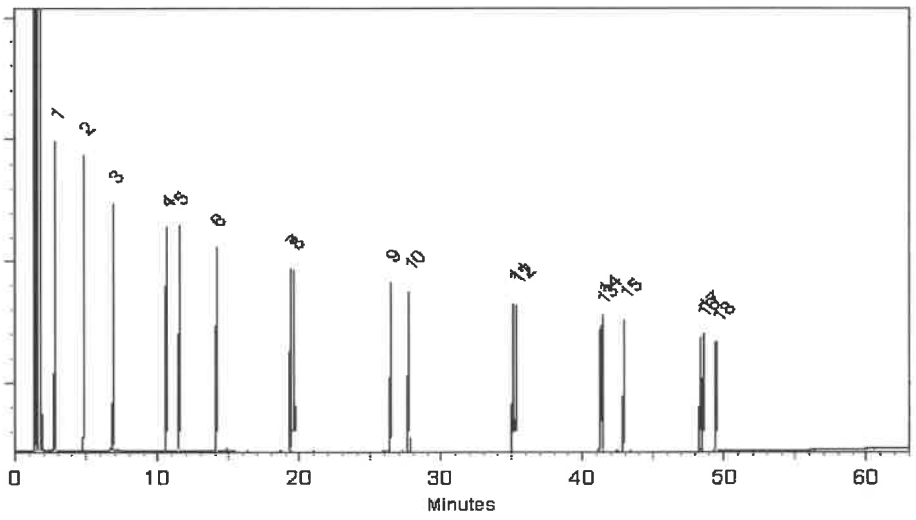
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

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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Handling Notes:

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Expiration Date : September 30, 2030 **Storage:** 10°C or colder

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

P13717 ↓ P13727 Y.P 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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* 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.)

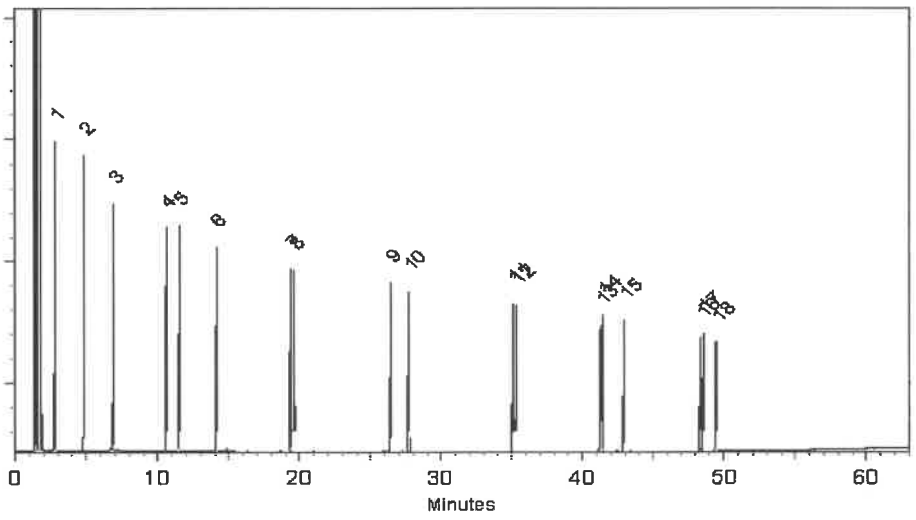
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

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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P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

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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
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Inj. Temp:
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Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
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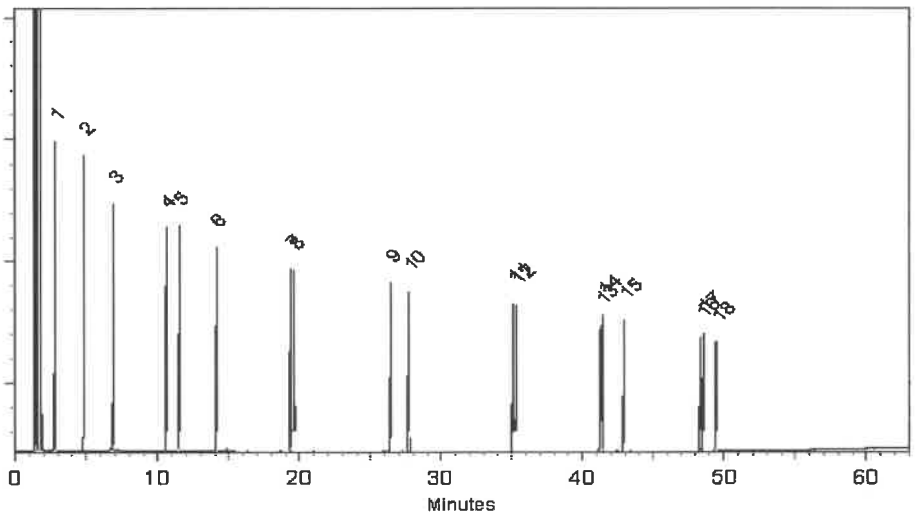

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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

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hydrogen-constant pressure 10 psi.

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

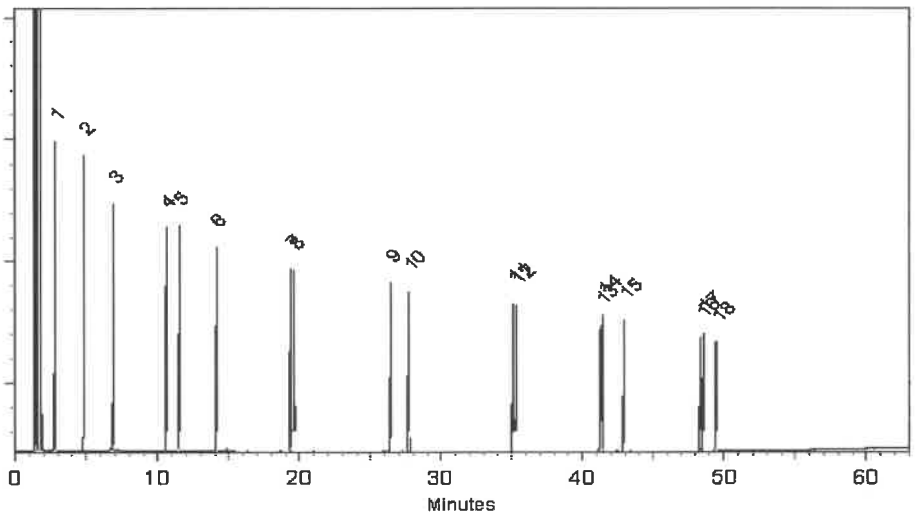
Inj. Temp:
250°C

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 - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

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:

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

  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

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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

P13717 ↓ P13727 Y.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	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

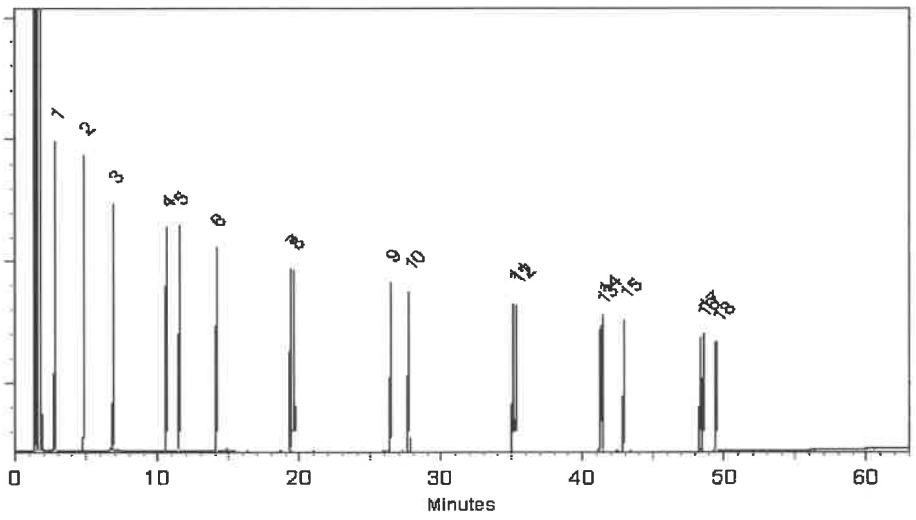
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

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:

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

Manufacturing Notes:

- 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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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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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

P13717 ↓ P13727 Y.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	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

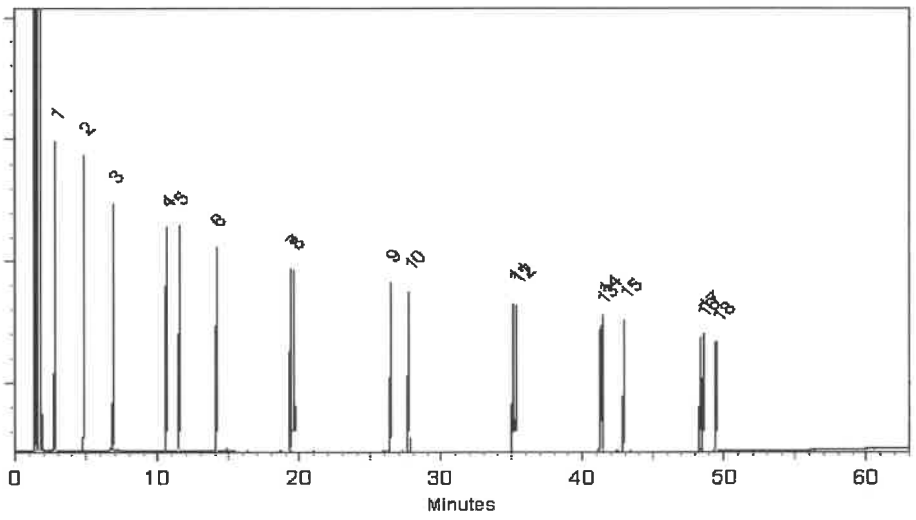
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

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:

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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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

Handling Notes:

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Catalog No. : 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

P13717 ↓ P13727 Y.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
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8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
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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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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.)

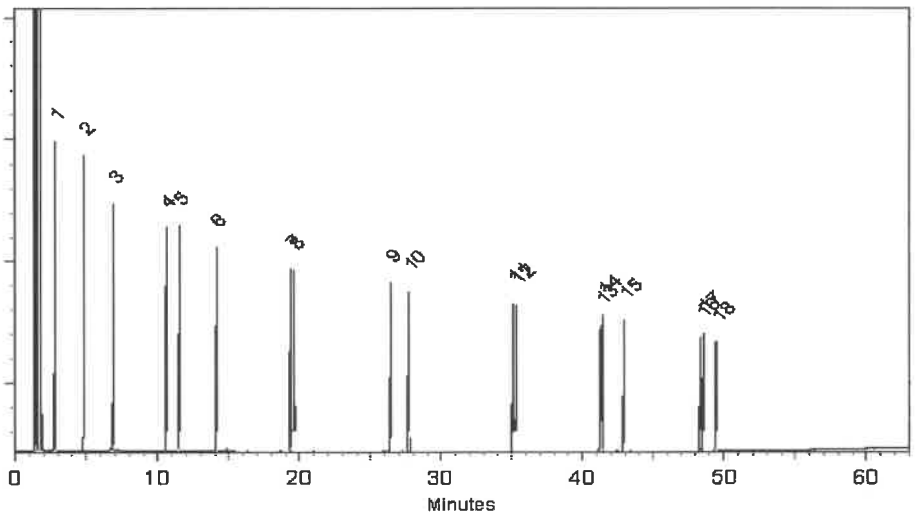
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

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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Handling Notes:

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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

P13717 ↓ P13727 Y.P 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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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
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7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
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9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
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.)

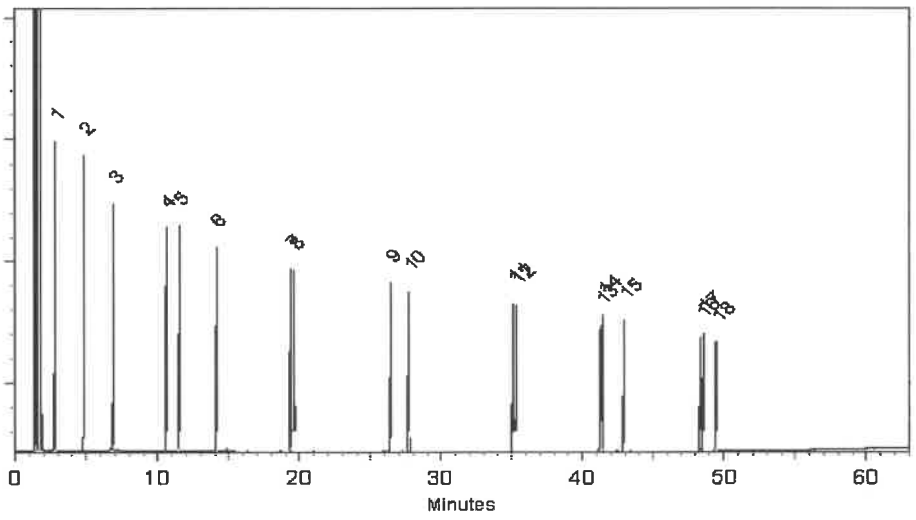
Inj. Temp:
250°C

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 - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

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:

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

  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.

RESTEK
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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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

P13717 ↓ P13727 Y.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	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

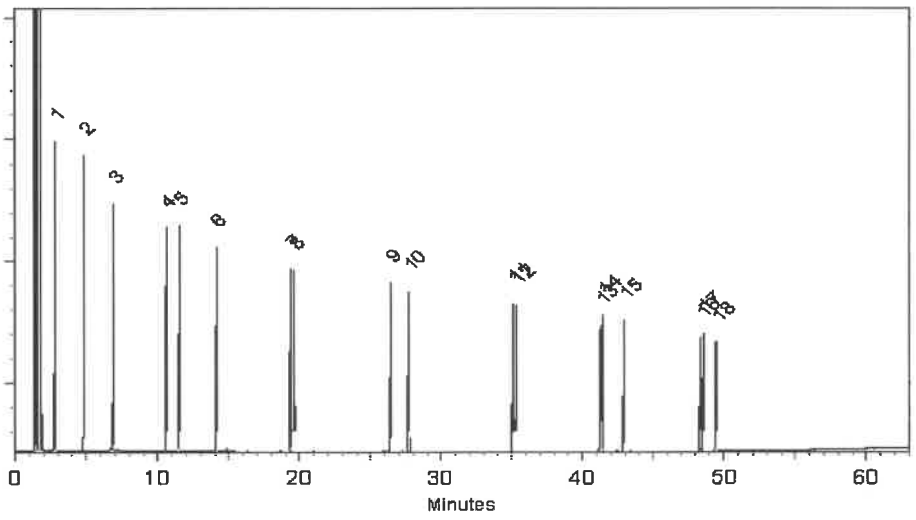
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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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.

RESTEK
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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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

P13717 ↓ P13727 Y.P 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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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
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9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
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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.)

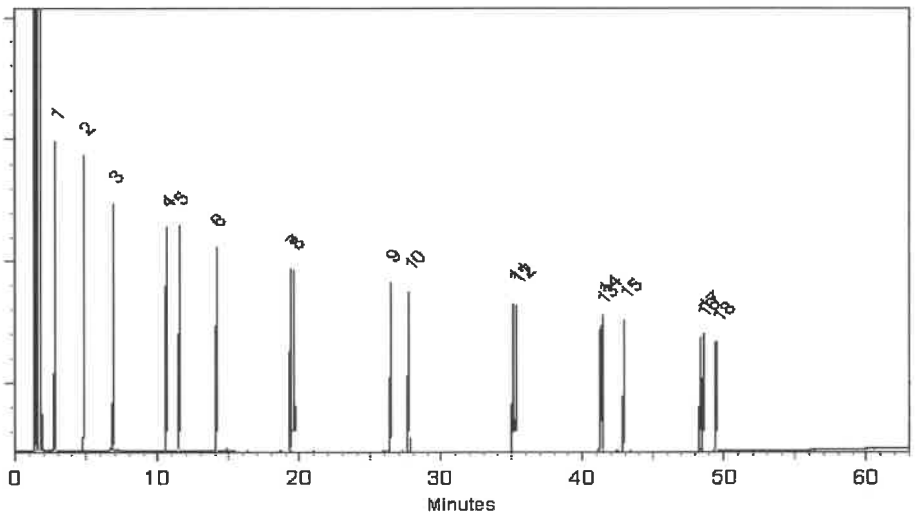
Inj. Temp:
250°C

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 - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

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.

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

Manufacturing Notes:

- 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.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. / QUOTE NO. P4822
COC Number 2040631

CLIENT INFORMATION
COMPANY: BAPS (REPORT TO BE SENT TO:)
ADDRESS: 2000 Tonnelle Ave
CITY North Bergen STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION
PROJECT NAME: BAPS Tonnelle Ave
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION
BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION
FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION
- ❑ Level 1 (Results Only)
- ❑ Level 2 (Results + QC)
- ❑ Level 3 (Results + QC + Raw Data)
- ❑ Level 4 (QC + Full Raw Data)
- ❑ NJ Reduced ❑ US EPA CLP
- ❑ NYS ASP A ❑ NYS ASP B
- ❑ Other _____
- ❑ EDD FORMAT _____

ANALYSIS
1 VOC-TCL VOA-10
2 EPH
3 TCL+30/TAL
4
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	Soil-1	soil		X	11.12.24	1112	5	X	X								
2.	Soil-1		X			1120	4			X							
3.	Soil-2			X		1134	5	X	X								
4.	Soil-2		X			1141	4			X							
5.	Soil-3			X		1151	5	X	X								
6.	Soil-3		X			1159	4			X							
7.	Soil-4			X		1210	5	X	X								
8.	Soil-4		X			1218	4			X							
9.	Soil-5			Y		1230	5	X	X								
10.	Soil-5		X			1238	4			X							

E/F E E

PRESERVATIVES — ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

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

	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER: 1. JT	DATE/TIME: 1130 11.12.24	RECEIVED BY: 1.
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3. JT	DATE/TIME: 1420 11.12.24	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: X COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 3.8 °C
Comments:

Page 1 of 2

CLIENT: ❑ Hand Delivered ❑ Other _____
CHEMTECH: ❑ Picked Up ❑ Field Sampling

Shipment Complete ❑ YES ❑ NO

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CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. P4822
COC Number 2040632

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: BAPS
ADDRESS: 2000 Tonnelle Ave
CITY North Bergen STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: BAPS Tonnelle Ave
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ❑ Level 1 (Results Only)
- ❑ Level 2 (Results + QC)
- ❑ Level 3 (Results + QC + Raw Data)
- ❑ EDD FORMAT _____
- ❑ Level 4 (QC + Full Raw Data)
- ❑ NJ Reduced ❑ US EPA CLP
- ❑ NYS ASP A ❑ NYS ASP B
- ❑ Other _____

ANALYSIS

1 VOC - TCL VOA-10
2 EPH
3 TCL +30/TAL
4
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	Soil-6	Soil		X	11/12/24	1245	5	X	X								
2.	Soil-6	I	X		11/12/24	1253	4			X							
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

E/P E E

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

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

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. IT	11·12·24 1310	1.
2.		2.
3. JT	11·12·24 1420	3.

Conditions of bottles or coolers at receipt: ☒ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 3.8 °C
Comments:

CLIENT: ❑ Hand Delivered ❑ Other _____
CHEMTECH: ❑ Picked Up ❑ Field Sampling

Shipment Complete
❑ YES ❑ NO

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WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
Environmental Laboratory
www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: BAPS Tonnelle Ave
Service Order #:
Work Order #:
Labor WBS #:
Facility/Site:
Site Address: 2000 Tonnelle Ave, North Bergen NJ

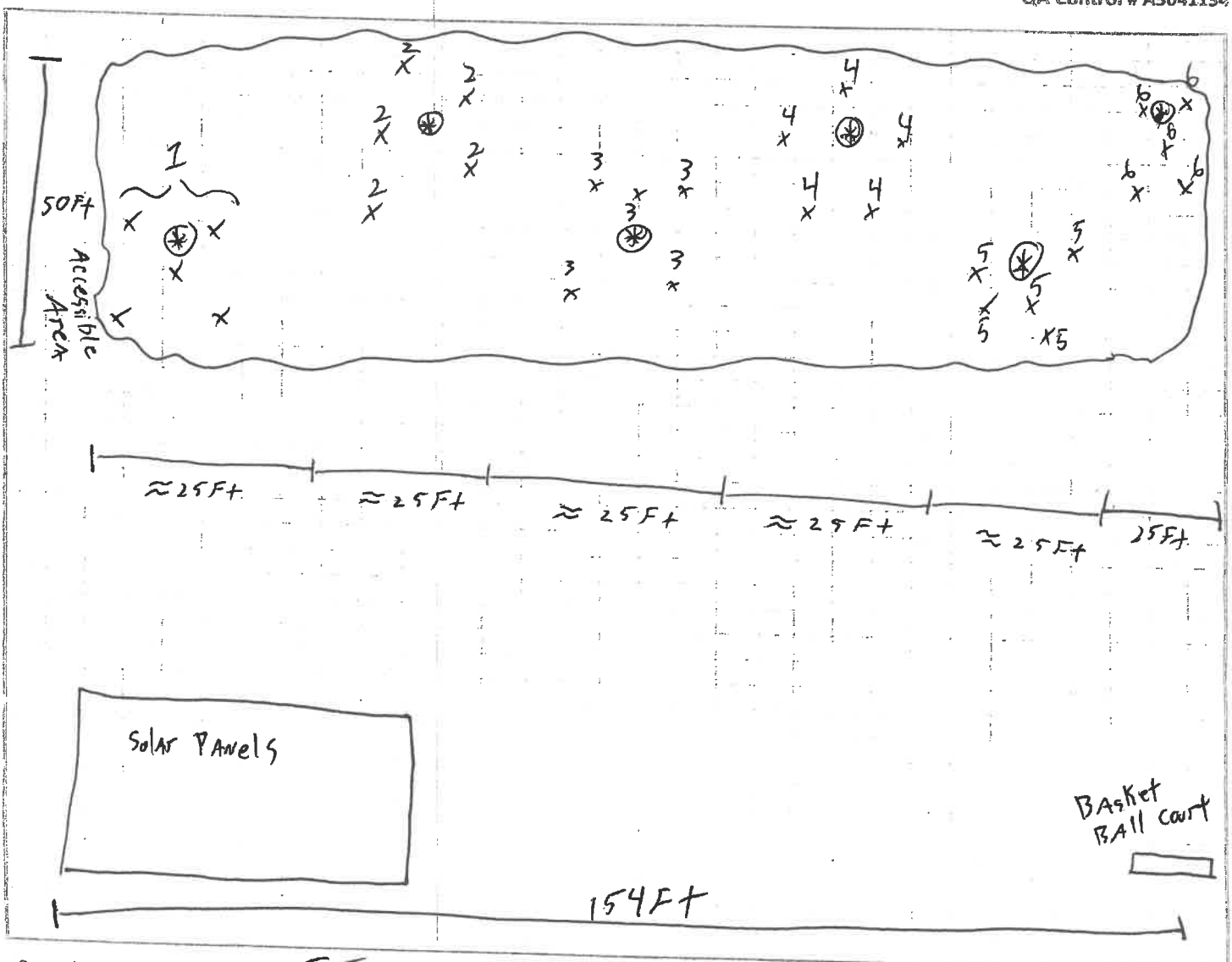
Chemtech Order ID:
Sampler Name: IT
Client Project Coordinator & Phone: Prinsh
Page #: 1 of 1
Date: 11.12.24
Arrive Time: 1030
Depart Time: 1310

Waste Stream (circle one): drum / roll-off / soil pile / (in-situ) / linear construction / frac-tank
Sample Matrices (circle all that apply): Water / (Solid) / NAPL / Concrete / Wipe

Collection Depths: NA
Dimensions/CY: 154 x (≈50) x (≈15)
Temp (range): 3.8 °C PID Readings (range): 0.0 PPM Odor: Y / (N) Color: Y / (N)
Sample Description: Sandy Rocky soil, woodchips present
Field Observations: Large hill back of Parking Lot

Grid/Area Composite Map:

QA Control # A3041134



Sampler Signature: IT
Supervisor Review/Date:
Client Signature:
Date/Time Arrived at Lab:

CHEMTECH 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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4822 BAPS03
Client Name : BAPS North Bergen
Client Contact : Rakesh Patel
Invoice Name : BAPS North Bergen
Invoice Contact : Rakesh Patel

Order Date : 11/12/2024 1:54:09 PM
Project Name : BAPS North Bergen
Receive DateTime : 11/12/2024 2:20:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4822-01	SOIL-1	Solid	11/12/2024	11:12					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4822-03	SOIL-2	Solid	11/12/2024	11:34					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4822-05	SOIL-3	Solid	11/12/2024	11:51					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4822-07	SOIL-4	Solid	11/12/2024	12:10					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4822-09	SOIL-5	Solid	11/12/2024	12:30					
					VOC-TCLVOA-10		8260D		10 Bus. Days
P4822-11	SOIL-6	Solid	11/12/2024	12:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days

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LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : JT
Date / Time : 11-12-24/1440

Received By : [illegible]
Date / Time : 11/12/24 3:00 PM

Storage Area : VOA Refridgerator Room